

Specialist in Model Landscaping

Main Catalogue

2019 · 2020

Over 2,000 products and useful crafting tips on 356 pages

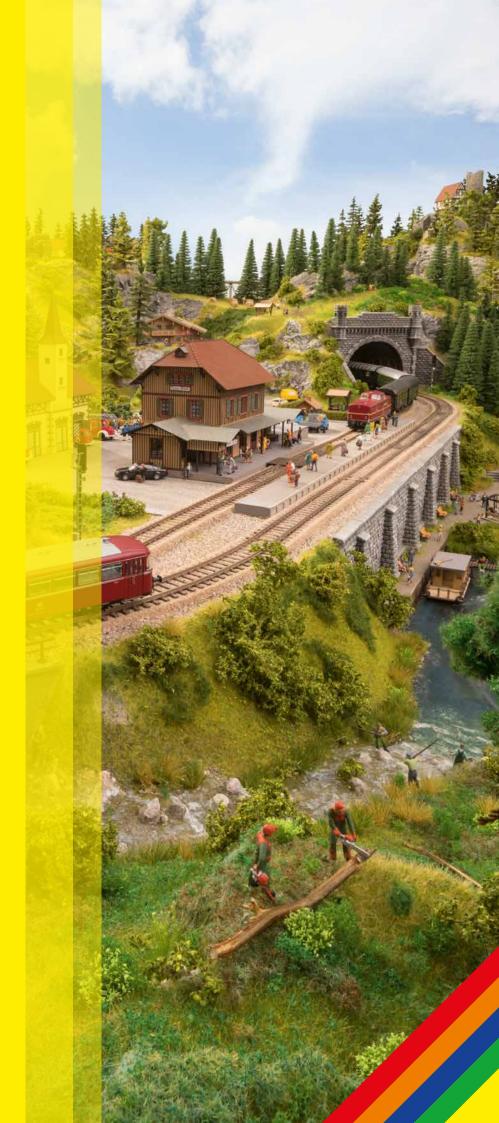
# **Everything on the Topics**

- Landscape and Track Construction
- Bridges and Viaducts
- · Portals, Walls and Arcades
- · Landscape Design
- · Winter Scenery
- Trees and Bushes
- Buildings
- Figures and Decorations
- Model Railways
- ... and much more

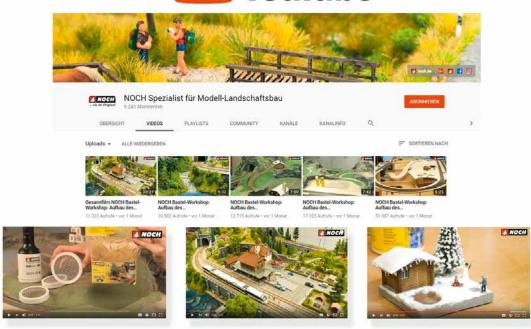
# **Highlights from our Partners**

- KATO
- ROKUHAN
- Athearn

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# Dear Friends of NOCH, Railway Modellers and Hobbyists,

On the first page of our catalogue, we want to address a topic that is hugely enriching for us and for you, as users of our products. It's about the online video portal YouTube.

Since 2010, we've been providing videos on various topics relating to the business on YouTube. In this way, we want to make it easier for you, our customers, to access our products and our company in a »cinematic« way. Our modelling videos demonstrating how to use NOCH products are particularly popular and in demand. We are very happy to see these films being used more and more every year, serving as inspiration for modelling with NOCH products.

The NOCH YouTube channel can be found at the link https://www.youtube.com/NOCHGmbH.

Do you want to stay up-to-date with model landscaping videos in future? No problem! All you have to do is click the »subscribe« button. This free YouTube service will inform you as soon as we upload a new film.

Let yourself be inspired by our variety of videos! In the films, you will definitely find one or more answers to questions that, as a railway modeller and hobbyist, have always occupied your mind. A picture is worth a thousand words. A video is worth even more!

Your NOCH team,

Dr Rainer Noch Sebastian Topp



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# It's so easy to find your way around the NOCH Catalogue:

### Gauge symbols

Each item is accompanied by a gauge symbol.

As an HO railway modeller, you'll recognise which items are of interest to you by the HO symbol. An item without a gauge symbol can be used for all gauges. The information on gauges at the bottom of the page gives you a quick overview of which gauges you'll find on the respective double page.

G gauge 1:22.5 scale

TT gauge 1:120 scale N aauae

0 gauge 1:43 scale HO gauge

1:160 scale

Z gauge 1:220 scale

Symbols

Seven different symbols inform you quickly - e.g. about crafting tips, new products or products that can be combined with each other.



Craft tips, notes or information



New product



Laser-Cut product



3D printed product



Laser-Cut Bridge Systems



micro-motion moving model



micro-sound



Hand-painted

# How it's Made

Before the crafting fun can begin, the planning begins. Every model landscaper should ask a few basic questions before he gets started. What kind of model landscape would I like to build? Should train traffic or industry or natural life be in the foreground? Does the scenery involve tall, rugged mountains, hilly low mountain ranges or plains? Our diorama bears the name »Country Delights«, which makes it clear that the landscape should be in the foreground rather than the train traffic. Of course, we have installed as many new items as possible in this scene as well.

# Here are some highlights:

Amongst the lovely hilly landscape, with lots of greenery and water, are the aesthetically-pleasing new »Honau« Station Laser-Cut Building (ref. 66007) and a small Fire Station with micro-sound siren (ref. 66380).

The beautiful Chicken Farm »Hot Chick« with micro-sound (ref. 66705) makes the transition to the top of the mountain, on which the Castle Ruin (ref. 58609) stands, a popular destination for hikers and bikers.

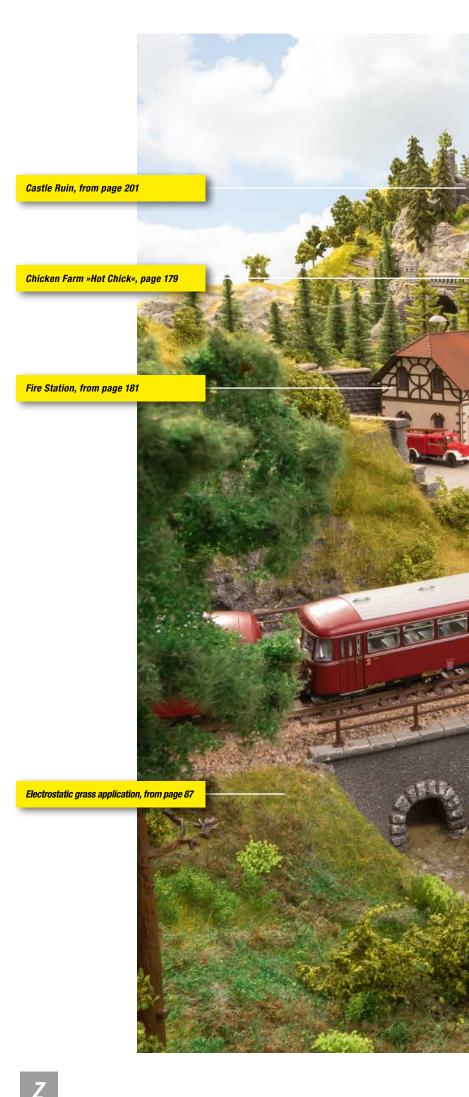
A Retaining Wall (ref. 58275) from the Granite Walls Hard Foam Series — which is incidentally made of the same stone as the Ravenna Viaduct — separates the raised double-track passing station from the lower-level boat jetty at the swimming lake.

To get the deep blue colour of the lake, the Riverbed Colour Set (ref. 60875) was used. Once the paint was dry, a 3 mm-thick layer of Artificial Water XL (ref. 60874) was poured on. Realistic-looking effects on the water surface were achieved with Waves & Billows (ref. 60861) and Foam & Spume (ref. 60862).

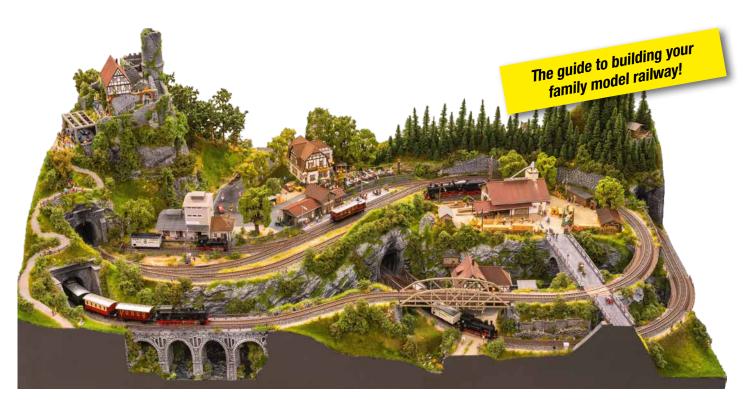
Foliage, coniferous trees, bushes and grass tufts provide natural-looking vegetation on the landscape, which was decorated with figures and accessories from the extensive NOCH range.

Photo: Jürgen Wisckow

Modelling: Karl-Heinz Echteler, NOCH Co., Wangen







# Enjoy Modelling with the Whole Family!

# Guidebook »A Family Hobby - Model Railway«

Building a beautiful model railway layout as a family: is that not a great way to pass the time? Even in the era of computer games, modelling is a hobby where children and young people can have a lot of fun and celebrate their success with their friends, parents or grandparents. The joint planning of a model landscape, the selection and purchasing of the »ingredients« for your own little world and building it as a team are experiences that connect generations. The hobby is varied and creative, supports fine motor skills and imagination. At the same time, patience, planning and organisational skills are required. All of this makes the model landscaping hobby an activity with pedagogical value.

The well-known railway modeller and author Karl Gebele built an attractive layout in the size 190 x 100 cm with his grandsons Nico and Denis. In this Guidebook of 120 pages, the three of them show, step by step, how this wonderful family project emerged. In particular, it's

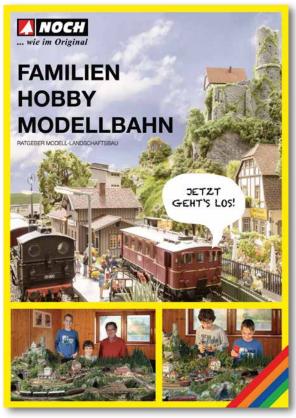
children can get involved and which tasks are better taken on by adults. Every stage of the work is captured through a series of pictures. At the back of the Guidebook are track plans in H0, TT and N for replicating the layout and a parts list.

also about the question of where in the process of building a layout the



Learn how to build a beautiful landscape step by step.

Discover at which point children can contribute particularly well to the construction of the model layout and which tasks are better taken on by adults.



**71904** »Familien-Hobby Modellbahn« Guidebook German, 120 pages

71905 »A Family Hobby – Model Railway« Guidebook English, 120 pages (without illustration)

G

0

H0

TT

N

Z





# How to Create Your Own Little World!

# Discover all the tips and tricks in the »St Sebastian« Guidebook

The »St Sebastian« Model Landscaping Guidebookfrom NOCH offers you important tips and tricks for building and designing your own model landscape with NOCH products.

Karl-Heinz Echteler, Head of Modelling at NOCH, explains how to create a beautiful model railway layout in step-by-step detail and in an easy-to-understand way in 120 pages. From the construction of a frame over the landscape substructure with TERRA-FORM to the application of special modelling and rock compound, the foundation of a landscape is created, which can then be designed. How to use the NOCH Gras-Master 2.0 is dealt with in detail, as well as how to design forests, waters, rocks

and much more. Tips and tricks for adding decoration to the landscape are not skimmed over, either. Alongside detailed instructive texts and numerous pictures, the »St Sebastian« Model Landscaping Guidebook includes QR codes linked to videos of crafting demonstrations that can be viewed on your smartphone or tablet.

So that you can recreate the 250 x 120 cm large »St Sebastian« layout as easily as possible, you'll also find track plans for Märklin® C track (AC) and TRIX C track (DC) in the booklet. Each chapter contains a shopping list of the required products.



- 71910 Ratgeber Modell-Landschaftsbau »St. Sebastian« German Guidebook, 120 pages
- 71911 Guidebook Model Landscaping »St Sebastian« English, 120 pages (without illustration)
- 71917 Guide du modélisme »Saint Sébastien« French Guidebook, 120 pages (without illustration)



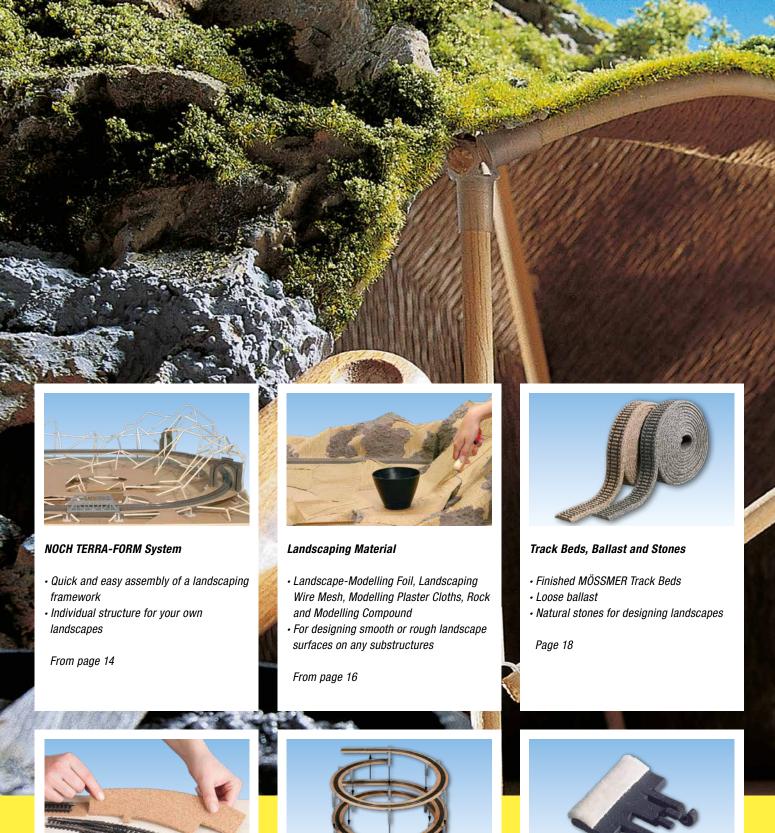
Learn about designing beautiful landscapes.



Find out everything about Laser-Cut kits and designing small scenes.







### **Cork Track Beds**

- · Easy to lay
- · Great sound insulation
- · Realistic track bed height

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### Track Helices and Ramps

- Track helix system from LAGGIES for overcoming large height differences
- · Foam ramps

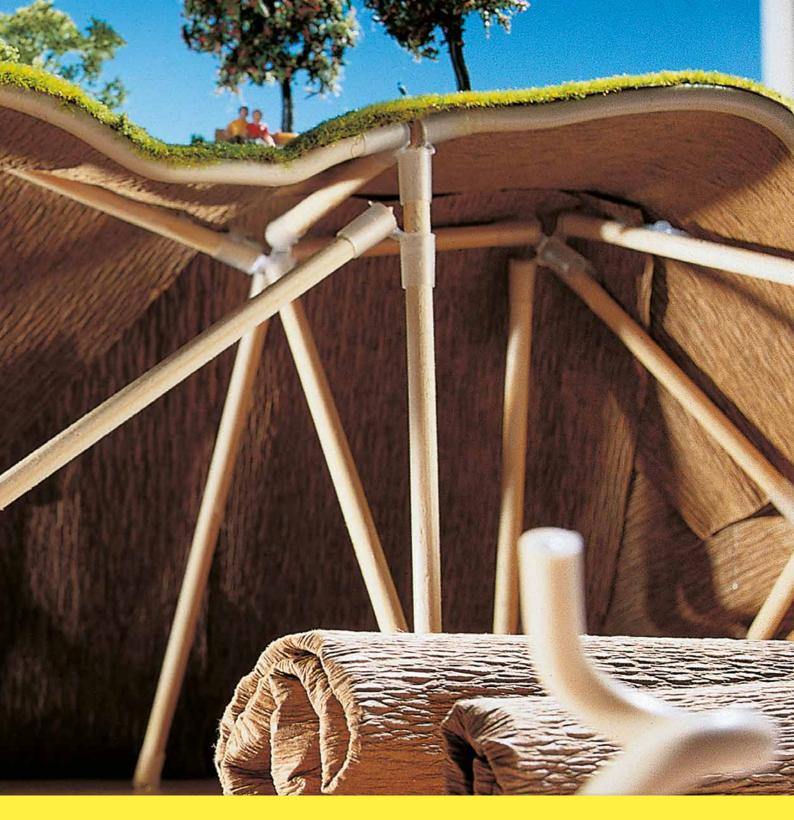
From page 22



### Track Cleaning and Accessories

- NOCH Track Cleaners: the easiest rail cleaning
- · NOCH Cleaning Block: for heavier soiling
- · Wire Fasteners and Train Service Trays as handy accessories

From page 24



# Landscape and Track Construction

# For the Landscape of your Dreams!

The heart and soul of a model railway is its landscape — making landscaping one of the most beautiful, important and demanding tasks in designing a layout. No matter whether you want to creatively implement your own ideas or reproduce a true-to-life landscape: what you need is not only imagination, leisure and a little dexterity, but above all, the

right crafting material. In the NOCH range, you will find everything your hobbyist heart could desire. For further information, we recommend our guidebooks »A Family Hobby — Model Railway« (see pages 6 and 7) and »St Sebastian« (see pages 8 and 9).



# The Best Possible Start in Model Landscaping!

# **Model Landscaping Set**

Which items are needed when one dares to build one's own model landscape? And how does one best go about achieving a satisfactory result?

With the NOCH Model Landscaping Set, we make it very easy for you to get started. In the kit, you will find everything that building your individual model landscape may require.

For the base – the substructure – the proven and uncomplicated NOCH TERRA-FORM system and sturdy Landscape Crepe Paper are included. Through the use of special Rock Compound, Grass Glue, Grass Fibres and a Puffer Bottle, Boulders, Lake Film and a Carton Wall, the successful building of a realistic landscape is guaranteed. The additional two tunnel portals and bridge included in the set finish off the design. To develop your model landscape, the hobby kit even offers you a country road, lichen and ten model trees.

And so that everything really turns out well, the individual steps for assembly are outlined for you in detail in the illustrated instructions. Further suggestions, tips and tricks concerning perfect model landscaping can be found on the NOCH DVD guide, which is included in the set.

The landscape pictured above was built entirely from the materials in the Model Landscaping Kit and brought to life by some extra NOCH Accessories. The base plate is not included in the kit. We wish you a successful – and, of course, fun – build!



Info Tip Various routes lead to the goal

### 1. Landscape Substructure

The substructure is the framework that later holds up the landscape. For designs with smaller landscape parts, we recommend the self-supporting NOCH Landscape-Modelling Foil or Landscaping Aluminium Mesh (page 16). The TERRA-FORM system is ideal for larger projects (from page 14).

### 2. Landscape Construction

In the second step, the finished landscape substructure is covered — preferably with the NOCH Landscape Crepe Paper, which is on the one hand very sturdy, and on the other hand, slightly stretchy. Alternatively, Modelling Plaster Cloth is also available. If you worked with NOCH Landscape-Modelling Foil in the first step, you do not need any other material — you can design your landscape directly on the Landscape-Modelling Foil.

### 3. Landscape Structure

In the third step, your layout becomes a model landscape. The extensive NOCH range offers many products for this purpose. You can create brooks and lakes with the NOCH Water Structuring items and the Lake Film. The NOCH Rock Compound with its rocky-grained texture is particularly well-suited for the creation of rocky areas. NOCH Landscaping Paints are ideal for priming the ground before flocking or for colouring rocks.

G O HO TT N Z





The beginning: railway lines and tracks are created and laid.



Rock and water structuring makes the model landscape realistic.



The landscape ultimately looks charming, decorated with details from the large NOCH range (not included in the pack).



The landscape becomes plastic with NOCH TERRA-FORM and Landscape Crepe Paper.



True-to-life greenery is easy to design with NOCH products.

(wooden poles and connectors)	, ago , o
Landscape Crepe Paper, appr. 1 m² in total	Page 16
Rock Compound, granite, 400 g	Page 17
Girder bridge	Page 41
Carton Wall, basalt, 64 x 15 cm	Page 53
Lake Film, 41 x 26 cm	Page 81
Puffer Bottle	Page 88
Grass Glue, 250 g	Page 89
Scatter Grass, spring meadow, 100 g	Page 88
Country Road, grey, 1 metre	Page 66
Mixed Forest, 10 trees	Page 156
Sandstone Boulders, 250 g	Page 21
Tunnel Portal single track (2 pieces)	Page 53

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Contents of the Model Landscaping Set

TERRA-FORM material



Lichen, 35 g

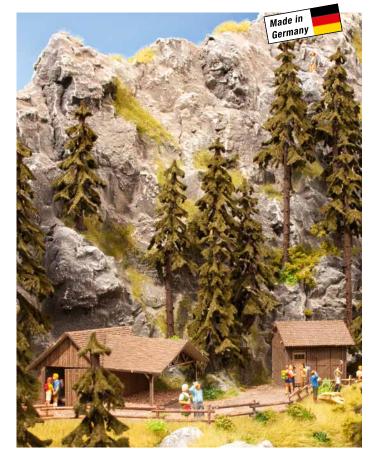
Illustrated instructions DVD guide (free of charge)

60805 Model Landscaping Set

# How to Give Your Landscape a Unique Identity

## **NOCH TERRA-FURA**

TERRA-FORM is a proven and extremely sophisticated method for creating your model landscape: quick and uncomplicated, extremely lightweight, highly flexible and cost-effective. The foundation of the system consists of two- to five-way connecting elements made of flexible plastic, to which round rods are joined in order to make the desired shape. The round rods can be cut to any length you like and then connected together. You do not need to have manual skills for this, nor many tools: scissors, craft knife, fine saw, hammer and hot glue gun. Unlike the traditional approach, you begin by laying out the tracks. On a base of your choice (e.g. blockboard, chipboard, solid wood panel), you first build the rail system and lay all electrical connections. Following a test drive, you start designing the landscape – above and around the track. First, you build the tent-like framework. Since the round rods are only slotted into the connecting elements, the construction can be corrected and changed at any time. Thanks to this scaffolding system, subsequent remodelling is just as unproblematic as ongoing »maintenance« of the rail and all the mechanics. Once the framework is standing, it is then covered with NOCH Landscape Crepe Paper to form your landscape template, which you can customise as you wish.





### Info Tip Teach yourself perfect landscape design with NOCH

On pages 6 to 9 of the catalogue you will find two guidebooks. When building model landscapes, the NOCH TERRA-FORM system is the basic framework used.

71904 »Familien-Hobby Modellbahn« Guidebook German, 120 pages (further information can be found on pages 6 and 7)

71905 »A Family Hobby – Model Railway« Guidebook English, 120 pages

71910 Ratgeber Modell-Landschaftsbau »St. Sebastian« German Guidebook, 120 pages (further information can be found on pages 8 and 9)

71911 Guidebook Model Landscaping »St Sebastian« English, 120 pages 120 pages

71917 Guide du modélisme »Saint Sébastien« French Guidebook, 120 pages



It is very easy to cut the wooden poles to the right length.



The flexible 5-way connectors make it possible to assemble the tent-like construction as desired.



The connectors and wooden poles do not have to be glued. This allows you to change the rough template of your landscape until it matches your



Due to the TERRA-FORM base plates and connectors, the framework has a stable footing on every base.



Thanks to the flexibility of the poles, curved ridges or jagged overhangs can be created.



Once the framework meets your expectations, the NOCH Landscape Crepe Paper is glued on.



61605 TERRA-FORM Test Package

The TERRA-FORM Test Package contains TERRA-FORM materials to try out the system. Many work steps can be tested by putting together materials in the pack.



Landscaping with TERRA-FORM: with the material from the Basic Set (ref. 61601) ...



this landscape was built.



Reinforced cardboard



5-way connector, detachable



3-way connector



2-way connector



2-way round, flat connector



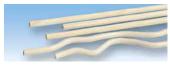
1-way connector with adhesive pad



Base plate



2-way clamps



Wooden poles, flexible poles



Prop upper plates, detachable



Prop lower plates, detachable

### TERRA-FORM supplement:

#### 61620 Reinforced Cardboard

5 pieces, very strong carton 55 x 40 cm, to apply as a stable base for track series or houses

### 61630 Connector Pieces

72 parts in total:

- 18 5-way connector
- · 14 3-way connector
- · 8 2-way connector
- · 8 2-way round, flat connector
- 24 1-way connector with adhesive pad

### 61640 Base Plates and Clamps

40 parts in total:

- 20 base plates
- 20 2-way clamps

The base plates can be divided and thus used for H0, TT, N and Z

## 61650 Wooden Support Poles

40 cm long, 35 pieces

### 61660 Flex Support Pole

divisible, 3 m long

### 61670 Prop Plates

- 16 parts in total:
- · 8 prob upper plates
- · 8 prob lower plates

The prop upper and lower plates can be divided and thus used for H0, TT, N and Z. **Note:** the basic set contains the framework system (see picture above left), but not the modelling compound, grass, and extra decoration. **Contents:** see TERRA-FORM Basic Set.

The compilation of all materials needed to assemble a complete model landscape can be found in the Model Landscaping Set on pages 12 and 13.



61601 TERRA-FORM Basic Set

This Basic Set contains everything you need for building a landscape substructure.

Landscape Framework, 228 parts in total:

- 50 wooden poles (40 cm each)
- 1 flexible support pole (100 cm)
- · 36 connectors, 5-way
- 28 connectors, 3-way
- 16 connectors, 2-way16 round, flat connectors, 2-way
- · 48 connectors, 1-way with adhesive pad
- 4 clamps
- 12 prop upper plates
- 12 prop lower plates
- 4 base plates

You also get to know:

• 60 x 60 cm NOCH Landscape Crepe Paper

# Landscape-Modelling Foil

Stable, shapeable and self-supporting foil for the construction of mountains, tunnels and landscapes. The foil is equipped with a rough special coating on one side, which is the optimum base for further treatment with NOCH landscaping products like rock compound, scatter material, grass, etc.

Note: not for sale in the USA

**60835 Landscape-Modelling Foil** 150 x 25 cm

60836 Landscape-Modelling Foil XL

150 x 50 cm









Craft Tip: Landscape-Modelling Foil

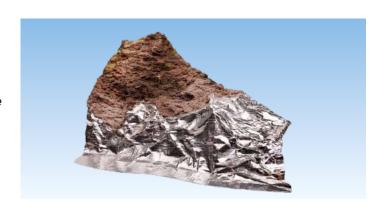
Cut the Landscape-Modelling Foil to the required size. By carefully bending it, you can easily mould the mountain into whatever shape you would like. The Landscape-Modelling Foil is attached by sticking it to the foundation. Then you can continue working with the NOCH Rock Compound directly on the modelling foil.

# Landscaping Wire Mesh

Stable, flexible, shapeable – these are the outstanding characteristics of this innovative material for the designing of model landscapes. Use the landscaping material on the TERRA-FORM system by NOCH, on a substructure frame or any other substructure. You get a robust and stable surface on which you can directly work with other craft materials.



**60833 Landscaping Wire Mesh** 100 x 75 cm, folded in bag



# Landscape Crepe Paper

Tough but flexible special crepe paper with a waterproof middle layer. So you can model directly onto the crepe paper and also safely utilise materials containing liquid in your design.

**60840 Landscape Crepe Paper** 90 x 80 cm





### Landscaping Aluminium Wire Mesh

Finely-woven, shapeable aluminium mesh. For smaller, self-supporting mountain constructions. Ideal for covering the frame of a substructure.

**60990 Landscaping Aluminum Wire Mesh XL** 100 x 75 cm, folded in bag

**60991 Landscaping Aluminum Wire Mesh** 50 x 75 cm, folded in bag













Z





#### Craft Tip: Modelling Plaster Cloth

NOCH Modelling Plaster Cloth is ideal for stabilising our mountain subconstruction made of Landscaping Aluminium Wire Mesh Cut the fabric into 15 to 20 cm long strips. Dip them briefly in lukewarm water and place the wet plaster bandages on your substructure. Allow each strip to overlap with approximately half of the previous one. This overlapping makes your substructure significantly more stable. Then spread the plaster evenly with your hand.



#### Craft Tip: Designing rocks with NOCH Rock Compound

Add some water to the NOCH Rock Compound and stir the mixture. After applying the mixture with a trowel (or a knife), it hardens after about 15 minutes. When drying, the special composition of the compound mixture forms its own rock-like surface. Especially beautiful and realistic rock structures can be created by breaking up NOCH Hard Foam Rocks and Rock Plates into the desired size and incorporating them in the mixture while it is still damp.

You can find a large selection of rock pieces, rock plates and rocks made of NOCH Hard Foam in the chapter »Rocks and Rock Walls« starting on page 54 of this catalogue.



# **Modelling Plaster Cloth**

With these special plaster bandages, you can cover substructures made of Landscaping Aluminium Wire Mesh. The construction becomes particularly stable when the bandages are applied to the substructure in several layers. For larger building projects, we recommend our large pack of Modelling Plaster Cloth XL, offered for a bargain price.



**60980** Modelling Plaster Cloth 2 rolls of 200 x 10 cm each

60982 Modelling Plaster Cloth XL 4 rolls, length 300 cm each width 2x14.5 cm, 1 x9.5 cm 1 x 6 0 cm

# **Rock Compound**

Due to its special composition, the NOCH Rock Compound automatically forms a »rocky« surface structure upon drying. The two popular NOCH Rock Compound products are also available at a favourable price in a large pack of 1,000 g.



**60880 Rock Compound »Granite«** grey, 400 g

**60882 Rock Compound XL »Granite«** grey, 1,000 g





60890 Rock Compound »Sandstone« brown, 400 g

60892 Rock Compound XL »Sandstone« brown, 1,000 g



# **Modelling Compound**

The smooth, white compound mixture is ideal for creating flat surfaces (e.g. floor space for houses or roads). Also, the NOCH Modelling



Compound does not become brittle upon drying – the risk of cracks forming is very low.

60920 Modelling Compound white spackle, 500 g

# Guaranteed to Lie Straight!

## MÖSSMER Track Beds

How realistic a model railway layout looks is determined by details such as the condition and appearance of the track beds. MÖSSMER Track Beds, absolutely true-to-life, come very close to the »large« original versions in shape and colour.

The track beds are completely prefabricated elements made of soft moltoprene. The spaces for rails and sleepers have already been hollowed out in the spongy foam. Because of this, the rails lie in the bed exactly like in reality: the moltoprene clings on tight. Due to the extreme flexibility of the material, the track bed can be adapted to all radii.

Other positive features: moltoprene is insulated against electricity, virtually indestructible, and resistant to oil, grease and petrol, as well as solvent-based adhesives. It also has a strong insulating effect on the rolling noise of the locos and carriages – as a result, the noise level of your layout is considerably reduced.

MÖSSMER Track Beds are available ballasted in brown and grey (H0/TT/N scale).

In the case of the ballasted track bed, the visible surface is completely covered in ballast; only the embossed spaces for rails and sleepers remain free. The used ballast is so closely modelled on the original in its structure and colour that it looks deceptively real. The trackbed can be easily worked on by the roll, whether for straight or curved rails - so you do not need a new trackbed for each track. For points, crossings and special rails, underlays are available, which can be tailored to your own requirements.

# MÖSSMER Track Bed, ballasted, for HO scale

HO Suitable for Märklin K track, Fleischmann model track, ROCO, PIKO A track

#### Track Bed. brown ballasted

99150 MÖSSMER Track Bed, for straight/curved track,

99151 Underlays for Points, 30 x 15 cm, 4 mm high. 3 pieces, for points, crossings and others, with loose brown ballast

#### Track Bed, grey ballasted

99160 MÖSSMER Track Bed, for straight/curved track,

99161 Underlays for Points, 30 x 15 cm, 4 mm high, 3 pieces, for points, crossings and others, with loose arev ballast

Note: NOCH Ballast Glue and NOCH Ballast, brown and grey (see page 20) nicely complement these

# MÖSSMER Track Bed, ballasted, for TT scale

TT Suitable for Tillig model track

#### Track Bed. brown ballasted

99155 MÖSSMER Track Bed, for straight/curved track,

**99151** Underlays for Points, 30 x 15 cm, 4 mm high, 3 pieces, for points, crossings and others, with loose brown ballast

#### Track Bed, grey ballasted

99165 MÖSSMER Track Bed, for straight/curved track, 5 m roll

**99161** Underlays for Points, 30 x 15 cm, 4 mm high, 3 pieces, for points, crossings and others, with loose arev ballast

Note: NOCH Ballast Glue and NOCH Ballast, brown and grey (see page 20) nicely complement these

# MÖSSMER Track Bed. ballasted, for N scale

N Suitable for Arnold track, Minitrix track

Made in Germany

#### Track Bed, brown ballasted

99157 MÖSSMER Track Bed, for straight/curved track,

**99158** Underlays for Points, 20 x 10 cm, 2 mm high, 3 pieces, for points, crossings and others, with loose brown ballast

#### Track Bed, grey ballasted

99167 MÖSSMER Track Bed, for straight/curved track, 5 m roll

**99168** Underlays for Points, 20 x 10 cm, 2 mm high, 3 pieces, for points, crossings and others, with loose arev ballast

Note: NOCH Ballast Glue and NOCH Ballast, brown and grey (see page 20) nicely complement these

### Craft Tip: Track Beds

For utmost convenience, the MÖSSMER Track Bed is screwed on the ground, together with the rails. Do not tighten the screws; allow some air between the screw head and the sleeper. The track bed can also be glued. To do this, simply coat the embossing along the track bed with a little NOCH Scenery Glue (ref. 61133), contact glue or all-purpose glue and push in the rail. Then glue the »railed« track bed onto the layout. You can use the MÖSSMER Underlays for Points underneath special rail parts or train station and shunting areas. The underlays are offered with the ballasted track

beds and can be sealed with the enclosed ballast afterwards

To seal gaps between joints or rails, use NOCH Ballast, which corresponds in colour and structure to the track beds.

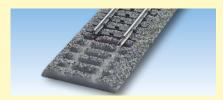
NOCH Ballast Glue (ref. 61134) is ideal for ballast application.



5 m MÖSSMER Track Bed rolls, grey and brown



Track Bed, brown



Track Bed, grey



# Perfect Embedding for Your Tracks!

# Cork Track Beds for Model Railway Tracks

Cork Track Beds are a real model railway classic: they lend themselves as the perfectly stable and noise-absorbing base for model railways tracks, such as the MÄRKLIN® K track or the PIKO® A track. The track beds are easy to lay: for glueing them together, we recommend NOCH Latex Adhesive (ref. 61135). NOCH Ballast, which you can find on the following page, is the most suitable for laying ballast.







First, the cork track bed is split by bending it in the middle...



and the two resulting strips are then glued together again along the »back«. The cork track beds can therefore be laid flexibly and follow every course of the track.



HO 50410 Cork Track Bed, 3 mm high 6 pieces, 4.4 x 50 cm each (total length 3 m)

HO 50412 Cork Track Bed, 3 mm high 18 pieces, 4.4 x 50 cm each (total length 9 m)

TT H0m 50460 Cork Track Bed, 3 mm high 6 pieces, 3.6 x 50 cm each (total length 3 m)

TT H0m 50462 Cork Track Bed, 3 mm high 18 pieces, 3.6 x 50 cm each (total length 9 m)

N 50490 Cork Track Bed, 2 mm high 6 pieces, 2.8 x 50 cm each (total length 3 m)

N 50492 Cork Track Bed, 2 mm high 18 pieces, 2.8 x 50 cm each (total length 9 m)



HO TT HOm **50416 Cork Plate, 3 mm high** 2 pieces, 15 x 50 cm

N 50496 Cork Plate, 2 mm high 2 pieces, 15 x 50 cm

# Latex Adhesive - Ideal for Cork Track Beds



NOCH Latex Adhesive is a viscous glue paste with a wide range of applications. The milky-white glue emulsion can be applied directly from the dispenser bottle with a brush or putty knife onto cork, wood, rubber, felt, cardboard and textiles. The latex adhesive is ideal for glueing down NOCH Cork Track Beds. The non-toxic adhesive is also suitable for glueing together rails and railway lines to ensure sound insulation. In addition, the rail can be ballasted at the same time.

**61135** Latex Adhesive 125 g

Note: all cork track beds on this page are supplied without rails and points.



# Just Like Real Track Ballast!

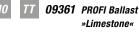
### PROFI Ballast and Track Ballast

Ballast and stones play a very important role when designing a realistic model landscape. Typically, track ballast is mined by region and therefore reflects the colour of the rocks and stones of that region. Among other things, with the assortment of NOCH PROFI Ballast, you can make your ballasted track beds look extremely realistic.

PROFI Ballast is available in four different colours and two different grain sizes for H0, TT, N and Z gauges. These varieties are great mixed together to create completely new, original colours.







beige brown 250 g bag

Z 09161 PROFI Ballast »Limestone« beige brown 250 g bag



HO TT 09363 PROFI Ballast

**»Granite«** grey 250 g bag

250 g bag

09163 PROFI Ballast »Granite« grey



O TT 09365 PROFI Ballast »Basaltic Rock«

dark grey 250 g bag

N Z 09165 PROFI Ballast
"Basaltic Rock"
dark grey
250 g bag



10 TT 09367 PROFI Ballast »Gneiss«

red brown 250 g bag

N Z 09167 PROFI Ballast »Gneiss«

red brown 250 g bag



HO TT 09372 Ballast

brown
250 g bag
suitable for
MÖSSMER Track
Bed H0/TT scale
compatible with
ref. 99150
and 99155

Z 09172 Ballast

brown
250 g bag
suitable for
MÖSSMER Track
Bed N scale
compatible with
ref. 99157



HO TT 09374 Ballast

grey
250 g bag
suitable for
MÖSSMER Track
Bed HO/TT scale
compatible with
ref. 99160
and 99165

N Z 09174 Ballast

grey
250 g bag
suitable for
MÖSSMER Track
Bed N scale
compatible with
ref. 99167



O TT 09376 Ballast

dark grey 250g bag suitable for Märklin® C-Track



This glue is ideal for applying ballast. Thanks to the nozzle, you

can also easily reach inaccessible spots.

**Usage:** spread the loose ballast between the sleepers and then drizzle on the ballast glue.



**61134 Ballast Glue** 130 g

G 0 HO TT N 2



### Craft Tip: Ballasting tracks

In order to design a perfect track bed, we recommend NOCH Cork Track Beds as bases for your track (e.g. ref. 50410 for H0 scale, ref. 50460 for TT scale and ref. 50490 for N scale). These have a sound-absorbing effect and even create the appearance of a poured bed of ballast, with small embankments to the left and

right of the rails. The ballast is loosely scattered and then spread around the gaps between the sleepers with a brush. Afterwards, drizzle on some NOCH Ballast Glue (ref. 61134) to permanently fix the ballast.



The rail is laid and fixed onto the cork track bed.



The ballast is now loosely scattered. The NOCH Shaker (ref. 08099) is very useful for this.



The ballast is then spread between the railway sleepers with a brush.



The loose ballast is applied with NOCH Ballast Glue (item no. 61134).



# PROFI Rocks »Rubble«

Steep mountains and rocky slopes are among the most impressive motifs that can be recreated in a model landscape. Small and large rocks and boulder blocks regularly break away from cliffs and crags and then accumulate in screes, beneath steep mountain walls or in riverbeds. NOCH Rubbles are ideal for recreating such rock formations, screes and wonderful riverbeds and lakebeds in your model, and for adding detail. The rubble is available in

lakebeds in your model, and for adding detail. The rubble is available in three different grain sizes, which can be used alone or mixed together.



**09228 PROFI Rocks »Rubble«** fine, 80 g bag grain, 1–2 mm



**09230 PROFI Rocks »Rubble«**medium, 80 g bag
grain, 2 - 5 mm



09232 PROFI Rocks »Rubble»
coarse, 80 g bag
grain, 6 - 16 mm



**09202 Coal** 250 g bag



**09204 Chippings Lahn** 250 g bag

# Natural Stones

Nothing looks more realistic than natural products. That's why NOCH chooses natural stones for model landscaping. All stones are finely ground and sorted by size.



**09214 Boulders** 250 g bag



**09216 Sandstone Boulders** 250 g bag





**09226** Rock Boulders Hegau 250 g bag



**09203 PROFI Rocks »Coal«** 100 g bag

# PROFI Rocks »Coal«

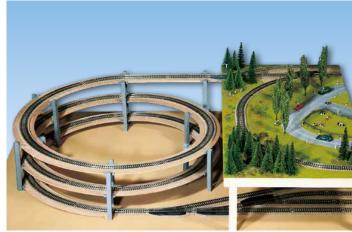
PROFI Rocks »Coal« consists of a material that looks exactly like real coal.



# The Best Way to Change Levels LAGGIES Helix







It's that easy!

## What exactly is a track helix?

A track helix is a spiral on which a train travels from one level to a level lower down or higher up. So, the train goes up or down the track helix. The track helix has the same gradient at each point so that even long trains can overcome large height differences.

#### When do I need a track helix?

There are numerous possible applications. Here are some examples:

- · to reach a lower or higher level.
- $\cdot$  to get to hidden storage tracks underneath the layout.
- · to connect two layouts of different heights.

### How do the trains not derail when they go along the curves in the helix?

The outer curves of the track helix are around 3 mm higher. This significantly improves driving safety and reduces rolling resistance.

### What versions of LAGGIES Helix are available?

There are track helices for H0 and N gauges – a perfect complement to the specific conditions of individual railway manufacturers.

All track helices can be set up to run in a clockwise or counterclockwise direction.

# How can I overcome even larger height differences with a track helix?

Every track helix needs a so-called basic helix. This basic helix includes the entrance to the helix and the exit from the helix. Any number of add-on helices can be set up on this basic helix — depending on the height difference that must be handled by the train.

# The Basic Helix

The basic helix comprises 1 1/2 circles. The crossing height as well as the entrance and exit can be reached with a basic helix.

### The Add-on Helix

The add-on helix comprises a full circle. As many add-on helices as you like can be placed on a basic helix. In this way, even the biggest height differences in the tightest of spaces can be handled smoothly.

Note: the height differences that can be bridged by a basic or add-on helix are detailed in this table.

Height difference – basic or add-on helix					
Gauge	System	Height difference			
Н0	Basic Helix	130.5 mm			
Н0	Add-on Helix	87 mm			
N	Basic Helix	81 mm			
N	Add-on Helix	54 mm			



Basic Helix: 1 1/2 circles (9 segments) – complete set with all the necessary components (below).

Add-on Helix: 1 circle (6 segments) – complete set with all the necessary components (above).



Double-track »Basic Helix« (1 1/2 circles)



Double-track »Add-on Helix« (1 circle)

7





TT

N

Z

Contents of a basic helix set, e.g. for an HO Scale helix:							
Qty.	Description	Qty.	Description				
6	Base plates, small, 1 mm	9	Plywood circle segments				
6	Base plates, large, 4 mm	1	Railway segment, straight				
12	Supports, small, 14.5 mm	50	Wood screws				
22	Supports, large, 43.5 mm	1	Radius template				
12	Support caps	1	Instruction manual				
18	Segment holders						

#### What is the LAGGIES Helix made of?

The assembly kit consists of precision-cut railway segments of 4 mm-strong plywood and matching supports and holders.

As an example, see the contents of an HO Scale Basic Helix to the left, which we have put together for you.

In the following table are the LAGGIES Helices, sorted by track gauge and radius. Every helix can be set up to run in a clockwise or counterclockwise direction. The complete assembly kit contains all the necessary supports, railway segments and detailed instructions. Please be aware that each helix requires a basic circle. The number of add-ons required depends on the height that you want to bridge.

# **LAGGIES Helix** complete assembly kits

(clockwise or counterclockwise, with detailed instructions)

Outer diameter = outer measurement between two supports

### Track radius 360 mm, single-track

for Märklin M/K/C, TRIX C, Fleischmann Modell/Profi, Roco/Roco Line, Roco geoLine, PIKO A and tracks of this radius

**53001** Basic Helix H0, 9 segments = 1 1/2 circles Assembled height: 130.5 mm Segment width: 80 mm Gradient: 3 8 % Outer diameter: 828 mm

**53101** Add-on Helix H0, 6 segments = 1 circle Height of level: 87 mm

# Track radius 360/437.5 mm, single- or double-track

for Märklin M/K/C, TRIX C, Fleischmann Modell/Profi, Roco/ Roco Line, Roco geoLine, PIKO A and tracks of these radii

53004 Basic Helix H0, 9 segments = 1 1/2 circles Assembled height: 130.5 mm

Seament width: 165 mm Gradient, inner: 3.8 % Gradient, outer: 3.17 % Outer diameter: 998 mm

53104 Add-on Helix H0, 6 segments = 1 circle Height of level: 87 mm

# Track radius 481.2/542.8 mm, single- or double-track

for Fleischmann Profi R3/R4, PIKO A R3/R4, Roco Line R4/R5 and other tracks of these radii

**53007** Basic Helix H0, 9 segments = 1 1/2 circles

Assembled height: 130.5 mm Segment width: 145 mm Gradient, inner: 2.88 % Gradient, outer: 2.55 % Outer diameter: 1,214 mm

53107 Add-on Helix H0, 6 segments = 1 circle

Height of level: 87 mm

### Track radius 420/483 mm, single- or double-track

for Fleischmann Profi R2/R3, PIKO A R2/R3 Roco Line R3/R4 and other tracks of these radii

53005 Basic Helix H0, 9 segments = 1 1/2 circles

Assembled height: 130.5 mm Seament width: 145 mm Gradient, inner: 3.3 % Gradient, outer: 2.87 % Outer diameter: 1.078 mm

53105 Add-on Helix H0, 6 segments = 1 circle Height of level: 87 mm

### Track radius 515/579.3 mm, single- or double-track

for Märklin C, TRIX C

53009 Basic Helix H0, 9 segments = 1 1/2 circles

Assembled height: 130.5 mm Segment width: 145 mm Gradient, inner: 2.69 % Gradient, outer: 2.39 % Outer diameter: 1,276 mm

53109 Add-on Helix H0, 6 segments = 1 circle

Height of level: 87 mm

### Track radius 554/619 mm, single- or double-track

for Märklin K and flex tracks from all manufacturers

53008 Standard Helix H0, 9 segments = 1 1/2 circles

Assembled height: 130.5 mm Seament width: 145 mm Gradient, inner: 2.5 % Gradient, outer: 2.23 % Outer diameter: 1.352 mm

53108 Add-on Helix HO. 6 seaments = 1 circle Height of level: 87 mm

## Track radius 194/230 mm, single- or double-track

for Arnold. Fleischmann piccolo. Roco N. Minitrix and other tracks of these radii

53026 Standard Helix H0, 9 segments = 1 1/2 circles

Assembled height: 81 mm Seament width: 100 mm Gradient, inner: 4.43 % Gradient, outer: 3.74 % Outer diameter: 560 mm

53126 Add-on Helix HO. 6 seaments = 1 circle

Height of level: 54 mm

### Track radius 329/362 mm, single- or double-track

for Roco N. Minitrix. flex tracks and other tracks of these radii

53027 Basic Helix H0, 9 segments = 1 1/2 circles

Assembled height: 81 mm Seament width: 100 mm Gradient, inner: 2.61 % Gradient, outer: 2.37 % Outer diameter: 840 mm

53127 Add-on Helix HO. 6 seaments = 1 circle

Heiaht of level: 54 mm



This layout demonstrates the possibilities of combining LAGGIES and TERRA-FORM systems.



# Foam Ramps

NOCH Ramps are made of a very flexible yet sturdy foam material that can effortlessly be adapted to your rail plan. NOCH Ramps are available in different heights and lengths. If you have enough space,

we recommend that you always select the long version with the lower gradient. The low version is for layouts operating without the use of a catenary system.

HO 99356 Ramp with embankment
single track, 4% grade, 260 x 5.5 cm, 10 cm high

HO 99358 Ramp without embankment
single track, 8% grade, 115 x 5.2 cm, 8 cm high

HO 99359 Ramp without embankment
single track, 6% grade, 175 x 5.2 cm, 9 cm high

HO 99360 Ramp without embankment

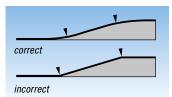
single track, 7% grade, 60x6cm, 4cm high

99348 Ramp without embankment

single track, 3.5% grade, 135x3.8cm, 4.5cm high



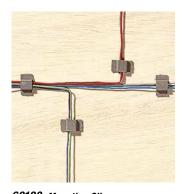
The illustration shows an HO scale ramp with an embankment (rear) and an N scale ramp without an embankment (front).



# **Cable Ties and Mounting Clips**

60160 Cable Ties

10 clamping strips for each
12 cables, simply stick or nail
under the layout and click the
cables into the clamps



60180 Mounting Clips
20 pieces, simply stick or nail
under the layout and pull the
cable through the clip

# Foam Train Service Tray



Often, it is the little things that determine whether or not a job is fun. The NOCH Foam Train Service Tray is such a »little thing«. Model railway vehicles can be effortlessly and comfortably maintained and repaired with its help. The vehicle is simply inserted and does not have to be held. Both hands are free to work; it cannot tip over and get damaged. Small parts lie safely in a hollow with a magnetic disc, accessible at all times.





77 99354 Foam Train Service Tray

25 cm long (without train and accessories)



3



НО

TT

N

Z

# Little Helpers, Great Effect!

# Track Cleaners

Track cleaners – an ingenious invention for cleaning model railway tracks – are available in H0, TT, N scales and also for H0 US cars. And using them is so easy:

- · the track cleaners consist of a robust plastic frame with a brush-like cleaning surface that effectively removes dirt on the tracks.
- · the cleaners are simply clipped onto the axles of a car and they immediately start cleaning the rails in both directions while in normal driving mode, seemingly by chance!
- · the H0 Track Cleaners are suitable for H0 two-axle carriages from Märklin®, Fleischmann®, Roco®, PIKO® and TRIX® (max. axle diameter
- 2.0 mm). They can be used for two-axle carriages of all makes (max. axle diameter 1.4 mm) in TT and N scales.
- · the H0 US Track Cleaners are suitable for US cars (max. axle diameter 3.0 mm).
- · the track cleaners are suitable for both AC and DC.
- $\cdot$  the track cleaner should only be replaced when the cleaning surface is heavily soiled.













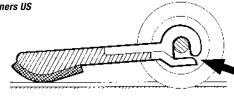




**60159 Track Cleaners** 5 pieces

60158 Track Cleaners
5 pieces









# Cleaning Block

With the NOCH Cleaning Block, impurities on the tracks like oil, sticky dust or traces of oxidation, can be easily ""erased".

60140 Cleaning Block





# Laser-Cut Bridges

- Made of a special, high-grade laser-cut cardboard
- Extremely delicately lasered details, such as rivets in a steel construction
- The adhesive required for assembly is included in the kits

From page 28



# Structured Hard Foam Stone Bridges

- Ready-made models with an extremely realistic surface texture
- Made of high-grade structured hard foam
- Easy to work with (cut, saw, file)

From page 33

# Plastic Bridges

- · Reasonably-priced plastic modelling kits
- Easy to build
- · Various steel bridges

Page 41

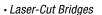
G O HO TT N



# **Bridges and Viaducts**

# True Works of Art in Miniature

NOCH Bridges boost the attractiveness of every model railway layout. They are also very versatile; for example, for traversing inclines, rivers and valleys. Our assortment of bridges comprises three very different kinds of model railway bridges:



- · Ready-made Structured Hard Foam Stone Bridges
- Assembly kits of classic Steel Bridges, made of plastic.





# Laser-Cut Bridge Kits

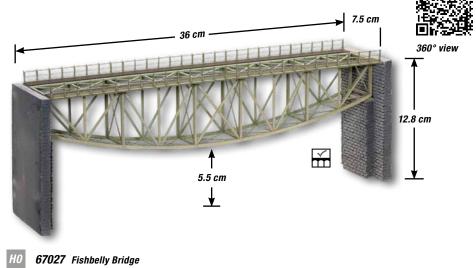


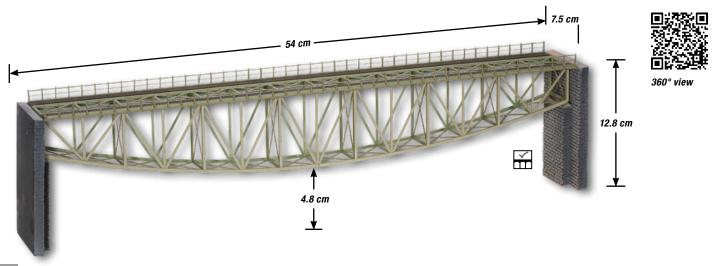


NOCH Laser-Cut Bridges are not only beautiful but also stable. The statics of the delicately

lasered parts follows the same rules as for their larger counterparts. This results in small steel construction works of art that are perfectly suited to your model landscape.





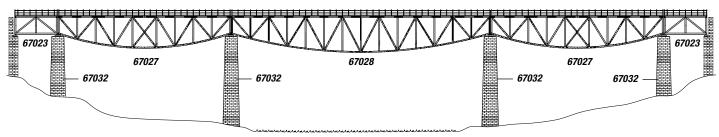


with bridgeheads

67028 Fishbelly Bridge with bridgeheads

Note: the bridges on this page are designed for single-track railways. For double-track train systems, two bridges can be installed side by side.

All bridgeheads on this page can be extended with walls from the »Stone Wall PROFIplus« series (see page 44). All laser-cut kits on this double page come with Laser-Cut Special Adhesive.



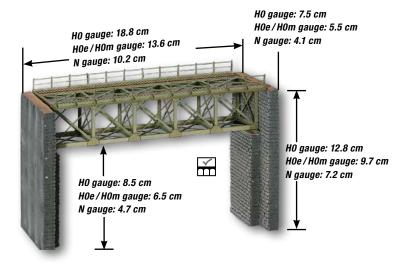
Suggestion for assembly: Fishbelly Bridges with Approach Bridges and Bridge Piers (total length: 144 cm)











# HO 67010 Steel Bridge

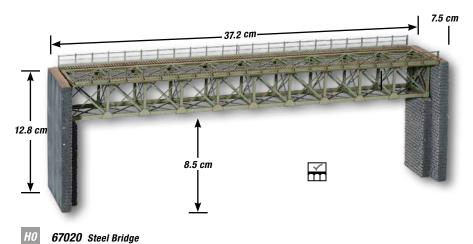
with bridgeheads These bridge cannot be combined with other Laser-Cut bridges.

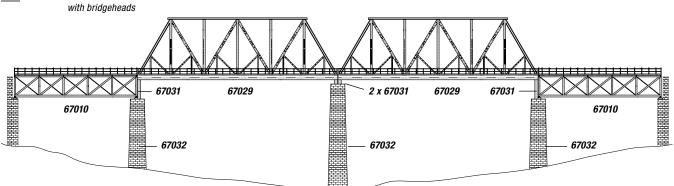
# N 62810 Steel Bridge

with bridgeheads This bridge is not combinable with other Laser-Cut bridges.

## Oe HOm **67038** Steel Bridge

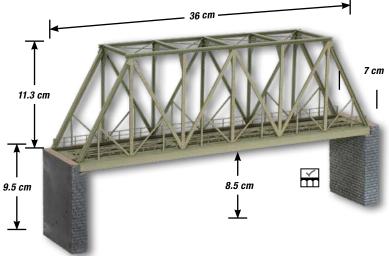
with bridgeheads This bridge cannot be combined with other Laser-Cut bridges.





Suggestion for assembly: Box-Girder Bridges with Steel Bridges, Bridge Piers and Adapter Pieces (total length: 109.6 cm)







360° view

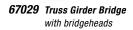
Info Tip: **NOCH Laser-Cut System Bridges** 



NOCH's System Bridges range can be identified by this symbol, which is found on the packaging.

You will find further information about the NOCH Laser-Cut Bridge Kit System on page 31.



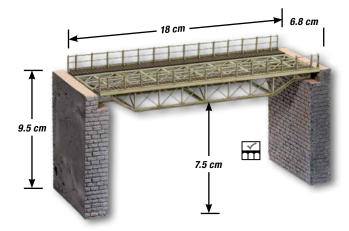




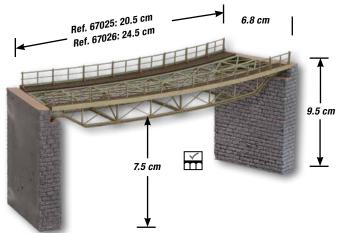
360° view



360° view



67024 Bridge Deck, straight with bridgeheads



67025 Bridge Deck, curved with bridgeheads, radius (R1) 360 mm

67026 Bridge Deck, curved with bridgeheads, radius (R2) 437 mm

Note: the bridges on this page are designed for single-track railways. For double-track train systems, two bridges can be installed side by side.

All bridgeheads on this page can be extended with walls from the »Stone Wall PROFIplus« series (see page 44). All laser-cut kits on this double page come with Laser-Cut





Special Adhesive.



Combination of Fishbelly Bridge (67028), two Truss Approach Bridges (67023) and two Bridge Piers (67032). (The Bridge Piers shown here are samples from a pilot series.)

# HO Laser-Cut Bridge Kit System





The bridge system developed by NOCH combines the product advantages of laser-cut and hard foam parts.

Most of the HO gauge bridge kits shown on the previous

pages can be combined with each other, so as to join outstanding bridge constructions together.

For example, you can combine the Fishbelly Bridges with the short Approach Bridges, install several Box Girder Bridges one behind the other or use the Bridge Decks to create an attractive ramp.

In order to combine several bridges, the Bridge Pier (ref. 67032) is

with a handsaw, for instance — to the appropriate height. When it comes to combining and designing bridges, your imagination knows no bounds, as many of the pre-existing Laser-Cut Bridges in the NOCH range are also compatible with the system.

For example, the Steel Bridge (ref. 67010) can be used as an approach

required. This is made of hard foam and thus can be cut very easily -

For example, the Steel Bridge (ref. 67010) can be used as an approach bridge. Bridge Pier Adapter Pieces (ref. 67031) are required to combine certain bridges (see below).

**Note:** you will need the »bridgeheads for bridges with beams« if you would like to combine the Approach Bridge (ref. 67023) and a bridge without beams (e.g. ref. 67024, 67025, 67026, 67029), to install the whole construction to the right and left of the landscape.



for bridges with beam



0 67031 Bridge Pier Adapter Piece

67023 Truss Approach Bridge without bridgeheads, single track. For double track routes, two models can be combined side by side.

7.5 cm

Adapter pieces (ref. 67031) required for combining the bridges.									
	67010	67020	67023	67024	67025	67026	67027	67028	67029
67010	•	•	•	1	1	1	•	•	1
67020	•	•	•	1	1	1	•	•	1
67023	•	•	•	1	1	1	•	•	1
67024	1	1	1	•	•	•	1	1	2
67025	1	1	1	•	•	•	1	1	2
67026	1	1	1	•	•	•	1	1	2
67027	•	•	•	1	1	1	•	•	1
67028	•	•	•	1	1	1	•	•	1
67029	1	1	1	2	2	2	1	1	2

### • = can be combined without bridge adapter piece

Do (	comi	bina	tions
------	------	------	-------

The adapter piece is needed to combine bridges with and without beams and/or of different widths and bridge piers. It can be built in four different versions.

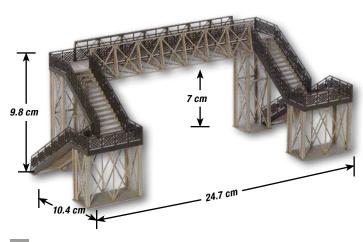
You can easily find out how many adapter pieces are needed for the relevant combination of two bridges from the table.

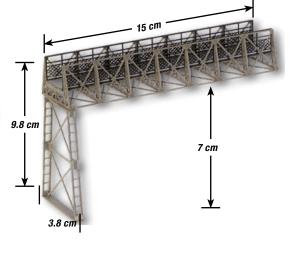


# Laser-Cut Pedestrian Crosswalk Kit

This filigreed Pedestrian Crosswalk is based on the legendary LASER CUT »Eschersteg, « which was a listed structure in Ravensburg, Southern Germany. The modelling kit's extremely detailed finish is due to the perfect execution of laser cutting technology, which enables, for example, the finest railings to be produced.

Conventional plastic injection moulding cannot rival the high-quality representation of such details. The basic Pedestrian Crosswalk Kit spans up to two tracks. It can, however, be extended as desired and is therefore also suitable for use in larger train station areas. Includes special adhesive.





67070 Crosswalk variable basic kit

67071 Crosswalk variable extension kit







360° view





# Realism at its Most Beautiful

# Structured Hard Foam Stone Bridges

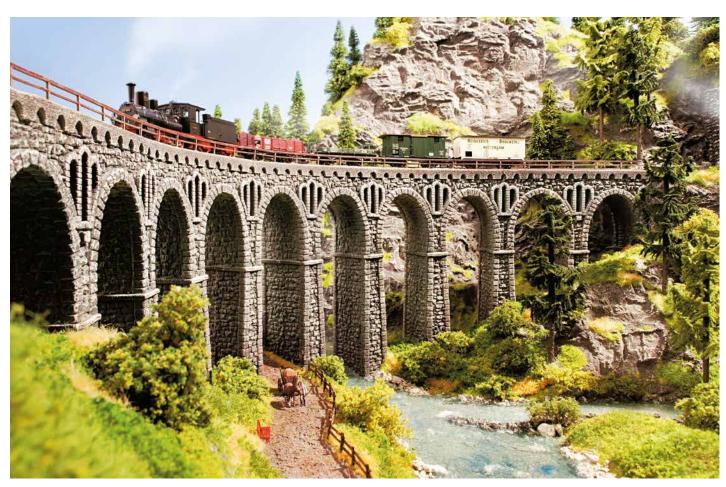


The base is a special dual-component foam, which is poured into elaborately manufactured moulds. This unique production process realistically displays the finest structures in the model.

To give the models a perfect finish and a natural effect, all Hard Foam Bridges shown on the following pages are treated in our in-house paint



shop. If, for example, you would like to combine Quarrystone Bridges with walls or tunnels, we recommend that you use the NOCH Hard Foam Series »Quarrystone Walls,« which can be found on page 49 of the catalogue. The stones in the Wall Plates and Tunnel Portals are an ideal match for the coarse structure of the Quarrystone Viaducts.





### Modelling Tip: Building bridges

The straight Quarrystone Viaduct (see page 36), the curved Quarrystone Viaduct (page 37) and the Rhône Viaduct (page 37) are made to fit together perfectly. In the picture above, for example, you can see an impressive combination of three curved Quarrystone Viaducts (90° bend) and a straight Quarrystone Viaduct. Bridge elements can be connected with any adhesive (including solvent-based).



The bridge pier is shortened.



Mounting the bridge, attaching to the bridgehead.



If necessary, you can shorten the bridges or bridgeheads with a craft knife or fine

saw. The finishing touches can be taken care of with sandpaper or a file. The Hard

bridge models made of structured hard foam shown here. Use the products in this

Foam Series »Quarrystone Walls« (page 49) has the same rocky structure as the

series to construct walls and tunnels that are suitable for the bridges.

Extending the bridge by attaching a second viaduct.



An impressive structure – consisting of three curved Quarrystone Viaducts (= 90° bend) and a straight Quarrystone Viaduct.



# Bridging Deep Valleys! Structured Hard Foam Ravenna Viaduct

The Ravenna Viaduct in Höllental in the Black Forest is certainly one of the most imposing railway bridges in existence! The original viaduct with nine arches and an arch width of 20 metres was built between 1926 and 1928. The model of this unique bridge construction has a modular design so that the railway modeller can adapt it to the conditions of his landscape. The Viaduct (ref. 58675) consists of a bridge with three bridge piers. To extend the viaduct and simplify



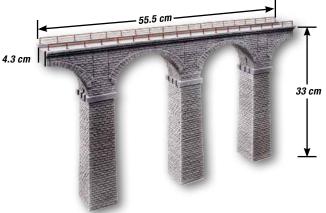
installation, both the Bridge Arch (ref. 58677) and the Bridge Pier (ref. 58676) are available separately. Since the entire bridge construction is made of the popular NOCH Structured Hard Foam, handling and customising is very simple: NOCH Structured Hard Foam is stable yet lightweight and can be worked on and shaped with a craft knife, saw, file and sandpaper.



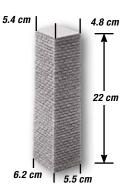




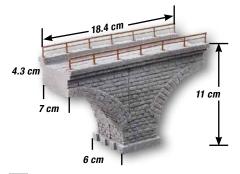




**58675 Ravenna Viaduct**ready-made Structured Hard Foam Bridge Model



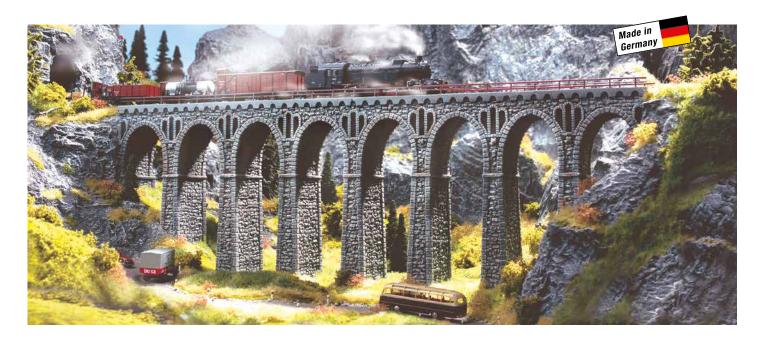
HO 58676 Ravenna Viaduct Bridge Pier



58677 Ravenna Viaduct Bridge Arch



In cooperation with Roco.



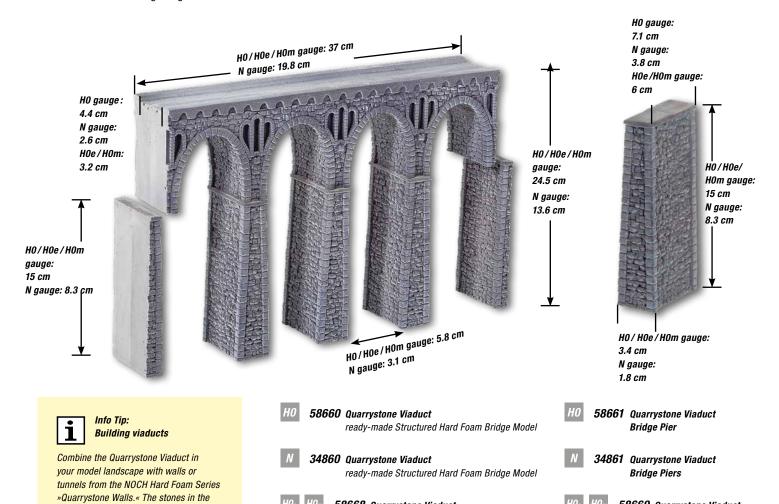
# Straight Quarrystone Viaduct

The Quarrystone Viaduct is an eye-catcher for your model railway layout. To build particularly long and imposing bridge structures, straight and curved Quarrystone Viaducts can be combined as desired. Combinations with the Rhône Viaduct are also possible. In the Quarrystone Viaduct pack, you will find the viaduct and the material you need to make a matching bridgehead.

Note: the HO Quarrystone Viaduct is compatible with all HO track systems, including MÄRKLIN® C track. The H0e/H0m Quarrystone Viaduct is compatible with all narrow-gauge track systems. The N Quarrystone Viaduct is compatible with all N track systems, including N gauge KATO® Unitrack.

58669 Quarrystone Viaduct

Bridge Pier



Wall Plates and Tunnel Portals are an ideal

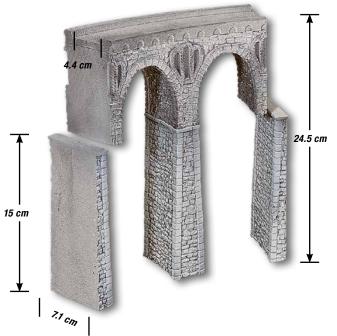
match for the structure of the Quarrystone

Viaducts. You will find the items in this series on page 49 of this catalogue.

58668 Quarrystone Viaduct

Bridge Model

ready-made Structured Hard Foam



#### **Curved Quarrystone Viaduct**



The Curved Quarrystone Viaduct makes it possible to construct impressive bridges. Two standard radii are available: R1 (360 mm, 30°) and R2 (437.5 mm, 30°). Put together, six curved

Quarrystone Viaducts form a semicircle. The curved Quarrystone Viaducts can naturally be combined with the straight Quarrystone Viaducts, as well as the Rhône Viaduct.

**Note:** the curved Quarrystone Viaduct is compatible with all H0 track systems, including MÄRKLIN® C track.



**58664** Quarrystone Viaduct, curved radius (R1) 360 mm, 30°

HO 58665 Quarrystone Viaduct, curved radius (R2) 437.5 mm, 30°

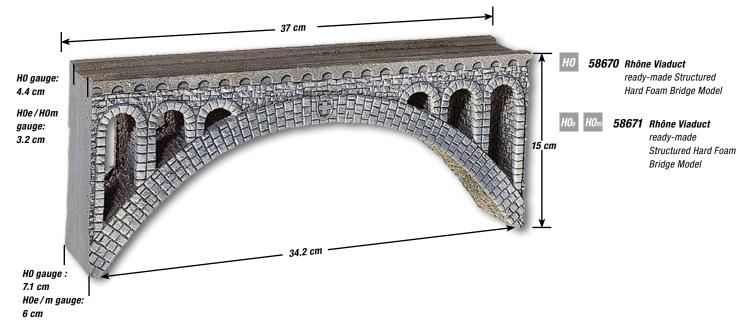


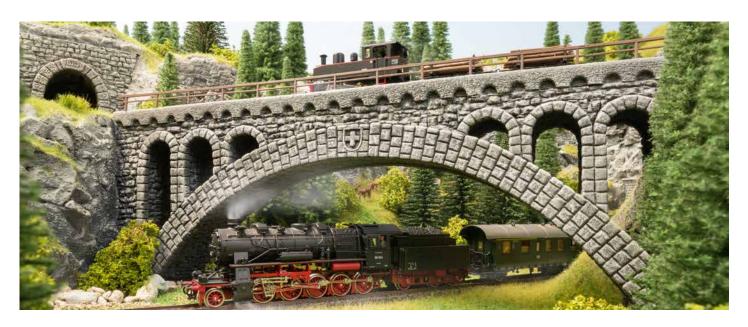
#### Rhône Viaduct

The Rhône Viaduct is an impressive ready-made bridge model with a length of 37 cm. It can even elegantly span the bigger valleys. Of course, the H0 Rhône Viaduct is a perfect fit with the H0 straight or curved Quarrystone Viaduct. In the picture above, you can see an H0 straight Quarrystone Viaduct (ref. 58660) that has been split

in two parts. The Rhône Viaduct has been inserted in the middle, between the two halves.

**Note:** the H0 Rhône Viaduct is compatible with all H0 track systems, including MÄRKLIN® C track.





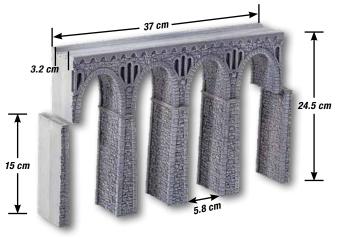
# A Wide Range for Fans of the Narrow Gauges!

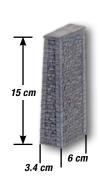
#### Model railway accessories for H0m and H0e narrow gauges



Whether »Öchsle« or »Glacier Express,« narrow-gauge railways have always inspired fascination. Many of them are still in regular use, including in museums.

To allow you to reproduce the corresponding routes, NOCH offers a complete range of narrow-gauge accessories.





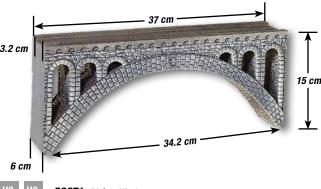
The Quarrystone Viaduct is an imposing bridge construction made of NOCH Structured Hard Foam. The ready-made model is hand-painted in the factory, and can easily be adapted to the terrain with a saw and a craft knife. Several viaducts can be combined together to create longer bridges. In order to combine two bridges, one Bridge Pier (ref. 58669) is required.



58668 Quarrystone Viaduct ready-made Structured Hard Foam Bridge Model



58669 Quarrystone Viaduct Bridge Pier



58671 Rhône Viaduct ready-made Structured Hard Foam Bridge Model

The Rhône Viaduct lends itself perfectly to bridging valleys and stretches of railway tracks or roads. It is also possible to combine it with the Quarrystone Viaduct (ref. 58668). Ready-made model, suitable for all H0e- and H0m-gauge track systems.





67038 Steel Bridge

with bridgeheads. This bridge is not combinable with other Laser-Cut bridges.

The Steel Bridge is very delicately designed and produced as a lasercut kit. Its fascinating structures give the model unique charm. The bridgeheads are made of structured hard foam. Includes special adhesive.





HOe HOm

**58026** Tunnel Portal Single Track, 23 x 12.7 cm

The Tunnel Portal is intended for the construction of single-track sections. The headroom is approx. 6.5 cm in the centre. Suitable for all H0e- and H0m-gauge track systems.





HO<sub>m</sub>

**58032** Interior Rock Tunnel Wall, straight 2 pieces, 9.5 cm long





58033 Interior Rock Tunnel Wall, curved
2 pieces, 9.5 cm long Suitable for all radii



HOe HOn

**58027 Tunnel Portal**Double Track, 23 x 12.7 cm

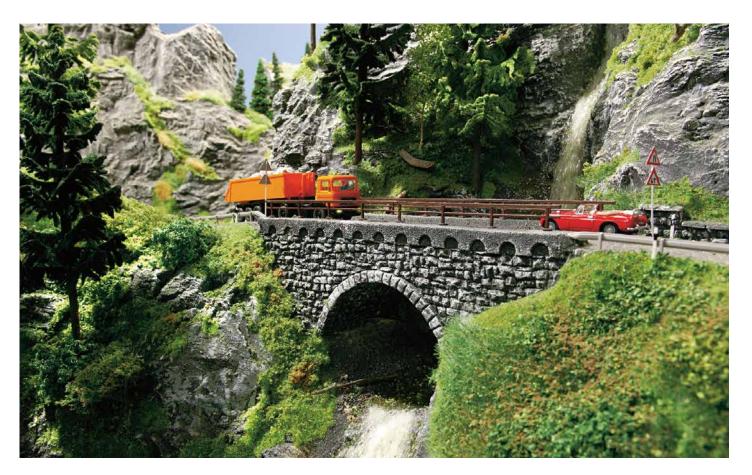
The Tunnel Portal is intended for the construction of double-track sections. The headroom is approx. 8.5 cm in the centre. Suitable for all H0e- and H0m-gauge track systems.



The Interior Rock Tunnel Wall can be installed in tunnel tubes in 1:87 scale for H0, H0e and H0m. In this way, tunnel entrances become even more realistic. Their structure corresponds to the rough rock structure in many narrow-gauge railway tunnels, especially those found in Austria and Switzerland.

**Note:** all the bridges and tunnels shown on this double page correspond to the stone structures of the »Quarrystone Wall« series

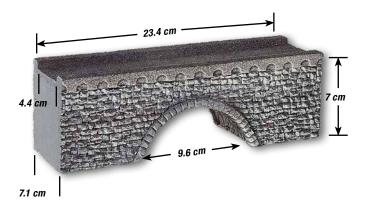
for H0 gauge. So, you can, for example, use the walls series (ref. 58250, 58255) to install tunnels or add to bridges. The complete series can be found on page 49.



#### Achtobel Bridge

The Achtobel Bridge is a high-quality ready-made bridge model made of structured hard foam. The bridge can be employed as a small railway bridge (suitable for all H0 track systems including MÄRKLIN® C track) as well as a road bridge.

The Hard Foam Series »Quarrystone Walls« (page 49) has the same rocky structure as the H0 Quarrystone Viaduct and the H0 Rhône Viaduct. You can use the products in this series to create bridges and walls that match these bridges.





HO 58690 Achtobel Bridge

Ready-made Structured Hard Foam Bridge Model

## **Bridge Piers**

In order to combine NOCH Plastic Bridges, it is best to use a Double Bridge Pier or Pontoon Pier. You can either screw or glue the pier to the bridge and base.



HO 21410 Pontoon Piers

to plug together 5 pieces, each 0.5 cm high

**21400** Pontoon Piers

to plug together 5 pieces, each 3 cm high



21420 Double Bridge Pier for NOCH bridges

2 pieces, each 9.4 cm high can be shortenable

0 | 1

H0

TT

N

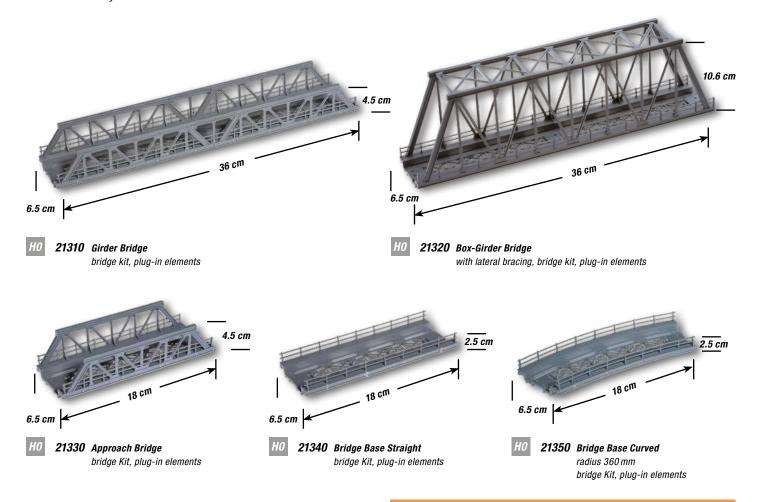
Z



# Steel Bridges

With NOCH Steel Bridges we offer you a complete range of bridges for HO gauge, which fit all the common track systems — including the Märklin® C track. The plastic bridges look deceptively real, display great attention to detail and are easy to build.







## Plastic Portals

- Realistic surfaces
- Sturdy
- · Reasonably priced

Page 53

#### **Embossed Cardboard Walls**

- · Realistic surfaces
- Very easy to work with
- · Reasonably priced

Page 53

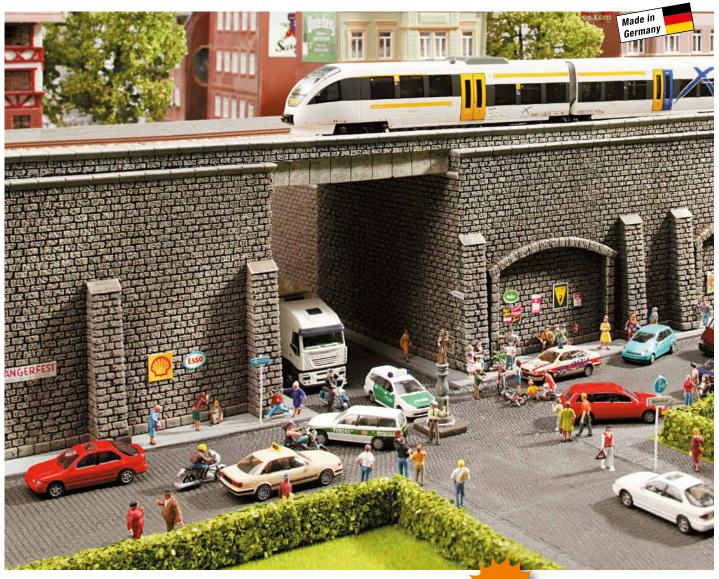


# Portals, Walls and Arcades

## Just Like the Original

Whether it's a big city station or a marshalling yard, an ICE main line or a branch line, matching walls, arcades and portals to their surroundings characterises the face of a railway landscape – in real life as well as

in your model layout. NOCH offers an incomparably large selection of various materials: from NOCH Structured Hard Foam to 3D Structured Texture, Plastic or Embossed Cardboard.



## »Stone Wall PROFI-plus« Hard Foam Series



The »Stone Wall PROFI-plus« series is a highlight of any realistic display of walls and portals. The detailed surface structure, the three-dimensional design and the many small



details like wall finishes, ledges or drainpipes, make every wall an eye-catcher on your layout.



HO 58051 Tunnel Portal single track

13.5x12.5cm **48051 Tunnel Portal**single track
10x10cm

N 34851 Tunnel Portal single track 7.9x7.6cm



HO 58052 Tunnel Portal double track 21 x 14 cm

TT 48052 Tunnel Portal double track 16 x 10.5 cm

N 34852 Tunnel Portal double track 12.3x8.5cm



HO **58054 Wall** 33.4 x 12.5 cm

TT 48054 Wall 25.8 x 9.8 cm

N 34854 Wall 19.8 x 7.4 cm HO **58055 Wall** extra long, 66.8 x 12.5 cm

TT 48055 Wall extra long, 51.6 x 9.8 cm

N 34855 Wall extra long, 39.6 x 7.4 cm

G O HO TT N



58056 Retaining Wall 33.4 x 12.5 cm

48056 Retaining Wall 25.8 x 9.8 cm

34856 Retaining Wall 19.8 x 7.4 cm

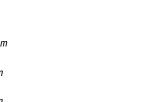
58057 Retaining Wall extra long, 66.8 x 12.5 cm

48057 Retaining Wall

extra long, 51.6 x 9.8 cm 34857 Retaining Wall extra long, 39.6 x 7.4 cm

44810 Tunnel Portal

single track



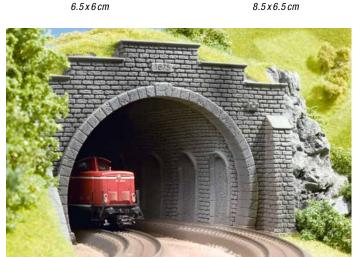


double track 8.5 x 6.5 cm











58030 Interior Tunnel Wall, straight 2 pieces, 10 cm long

58031 Interior Tunnel Wall, curved 2 pieces, 10 cm long each, suitable for all radii

The interior tunnel walls are glued to the tunnel entrance.



58058 Arcade Wall 33.4 x 12.5 cm

> 48058 Arcade Wall 25.8 x 9.8 cm

34858 Arcade Wall 19,8 x 7.4 cm

58059 Arcade Wall

extra long, 66.8 x 12.5 cm

48059 Arcade Wall extra long, 51.6 x 9.8 cm

34859 Arcade Wall extra long, 39.6 x 7.4 cm

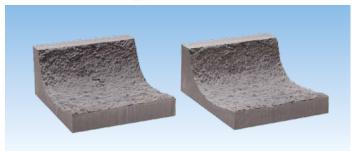


44920 Arcade Wall 13 x 7 cm

#### Interior Tunnel Walls

When looking into a tunnel on most model railway layouts, you look into a black hole. The layout becomes much more realistic with interior tunnel walls. The tunnels can be lined with either a stone or a rock structure. Each pack contains a left and a right straight or curved interior tunnel wall.





58032 Interior Rock Tunnel Wall, straight 2 pieces, 9.5 cm long

58033 Interior Rock Tunnel Wall, curved 2 pieces, 9.5 cm long each, suitable for all radii

# Up and Down

#### Stairs Set

Realistic stairs made of hard foam. This kit consists of two staircases (left- and right-ascending) as well as a flat »Steps« piece for building individual steps. The wall structure corresponds to the Hard Foam Series »Stone Wall PROFI-plus«. Dimensions of staircases: 14.5 x 3.3 cm, 6.6 cm high. Length and height can be individually shortened.

Dimensions of »Steps« piece: 15 x 4.5 cm, can be individually shortened.



# Signal Base and Signal Niche



Masoned Hard Foam Signal Base. Suitable for signals with underfloor compact drive.

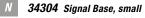


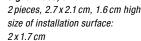
Applications: railway embankment, individually adjustable for sloped areas.



58304 Signal Base, small

2 pieces, 5 x 3.7 cm, 3 cm high size of installation surface: 3.3 x 3.1 cm







Masoned Hard Foam Signal Base. Suitable for signals with an upper floor coil box or a combination of pre-signal and main signal with underfloor compact drive.

Applications: railway embankment, individually adjustable for sloped areas.



58305 Signal Base, big

2 pieces, 9 x 3.5 cm, 6 cm high size of installation surface: 7.8 x 3.1 cm

size of installation surface: 4.3 x 1.8 cm





Masoned Hard Foam Signal Niche. Suitable for signals with underfloor compact drive.

Applications: ascending terrain next to the track. Angle of gradient individually adjustable.



58306 Signal Niche

2 pieces, 5 x 4 cm, 3 cm high size of installation surface: 3.8 x 3.4 cm

34306 Signal Niche

2 pieces, 2.7 x 2.2 cm, 1.6 cm high size of installation surface: 2 x 1.8 cm









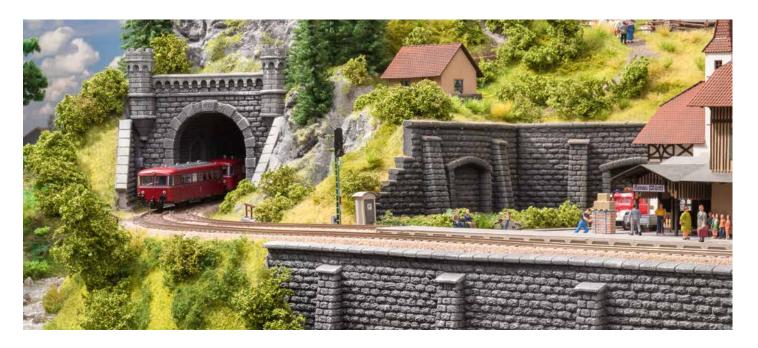












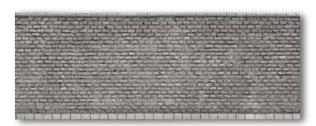
#### »Granite Wall« Hard Foam Series



Our modelling artist has come up with something extra special for this stone wall: the roughly hewn granite stone is skilfully staged here. The filigree details, such

as turrets, battlements and friezes, put the portals in the limelight of your model railway layout, making them absolute show stoppers.

The same stone is used in the Ravenna Viaduct (ref. 58675), so you can use the walls in this series to create matching bridgeheads. Incidentally, the stone is also big enough for 0 gauge walls!



58272 Wall

33 x 12.5 cm

58273 Wall

extra long, 66 x 12.5 cm



58276 Arcade Wall

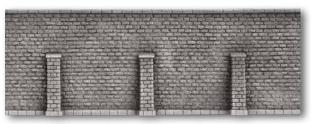
33 x 12.5 cm

58277 Arcade Wall

extra long, 66 x 12.5 cm

**Product Highlights:** 

- Great design with countless filigree details
- Lightweight
- Sturdy
- Easy to work on
- · Solvent-resistant
- Perfectly fits the Ravenna Viaduct (ref. 58675), page 34



58274 Retaining Wall 33 x 12.5 cm

58275 Retaining Wall

extra long, 66 x 12.5 cm

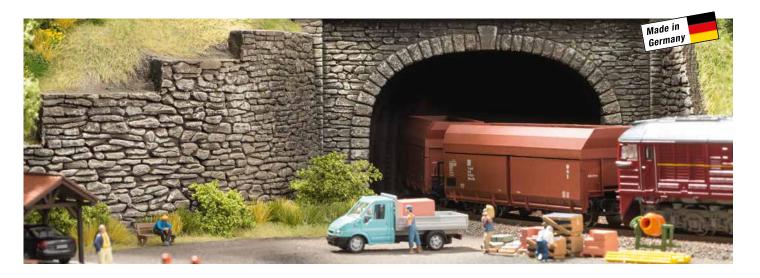


58270 Tunnel Portal single track

16 x 15.2 cm



58271 Tunnel Portal double track 21.5 x 17.5 cm



#### »Natural Stone Wall« Hard Foam Series



Natural stone walls are very common, especially in rural areas. Walls, arcades and portals are elaborately built with the help of stones that are regionally milled.

The »Natural Stone Wall« Hard Foam Series delights with its extremely realistic stone structure and the multidimensional design of many details, such as ledges or protrusions. The portals are suitable for catenary operation.





HO 58061 Tunnel Portal single track, 15 x 12.5 cm



HO 58064 Wall 33 x 12.5 cm HO 58065 Wall

**58065 Wall** extra long, 66 x 12.5 cm



HO 58062 Tunnel Portal double track, 22 x 13 cm



HO 58066 Retaining Wall 33 x 12.5 cm HO 58067 Retaining Wall extra long, 66 x 12.5 cm



#### Craft Tip:

#### Advantages of NOCH Hard Foam Walls and Portals

Hard foam is a very versatile and lightweight material with a super realistic surface. It is very easy to cut and carve with a saw or a craft knife. You can heat up the material with the help of a heat gun and shape it through careful bending. Hard foam pieces can be attached with hot-melt adhesive or contact glue.

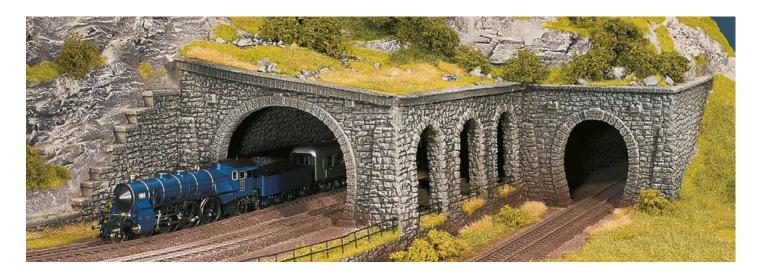




Once they have been installed in the landscape, you can decorate the portals and walls in the desired colour with NOCH Acrylic Sprays and Acrylic Paints.







#### »Quarrystone Wall« Hard Foam Series

Stone on stone: the »Quarrystone Wall« Hard Foam Series creates a convincing impression with its extremely realistic stone structure. The products in this series have the same stone structure as almost all the viaducts and bridges on pages 34 to 37 in

this catalogue. The items in this series therefore lend themselves well to building tunnel entrances or barriers in the immediate vicinity of NOCH Structured Hard Foam Bridges.



58247 Tunnel Portal single track, 23.5 x 13 cm

34937 Tunnel Portal single track, 16 x 9 cm



double track, 16x9cm

58248 Tunnel Portal double track, 23.5 x 13 cm 34938 Tunnel Portal



58300 Underpass 14 x 10 cm



58250 Wall 23.5 x 12.5 cm 58255 Wall

extra long 65 x 12.5 cm

34940 Wall 16 x 9 cm



58260 Arcade Wall open, 27 x 10 cm 34942 Arcade Wall

open, 19 x 9 cm



Note: most of the NOCH Structured Hard Foam Bridges (see pages 34 to 37) have the same stone structure as the »Quarrystone Wall« Series shown here. Therefore, the Hard Foam Bridges and »Quarrystone Wall« Hard Foam Series can be perfectly combined. Today, there are still many rock portals along mountain railway lines.





#### Narrow-Gauge Tunnel Portals and Walls for H0e and H0m



These two tunnel portals were designed for fans of the narrow gauges. The 58250 and 58255 Walls and 58260 Arcades have the same stone structure, which makes them ideal for building.



58026 Tunnel Portal

single track, 23 x 12.7 cm

This tunnel portal is intended for the construction of single track routes. The headroom is approx. 6.5 cm in the centre. Suitable for all H0e and H0m gauge track systems.





58250 Wall 23.5 x 12.5 cm

58255 Wall

extra long, 65 x 12.5 cm



58027 Tunnel Portal

double track, 23 x 12.7 cm

This tunnel portal is intended for the construction of double track routes. The headroom is approx. 8.5 cm in the centre. Suitable for all H0e and H0m gauge track systems.







58260 Arcade Wall open, 27 x 10 cm

# More Hard Foam Walls and Portals

#### ICE Tunnel Portal



High-quality foam tunnel portal for new construction Deutsche Bahn routes (ICE Tunnel Portal). Double track, suitable for catenary operation.



58040 ICE Tunnel Portal 18 x 23 cm

34840 ICE Tunnel Portal 12.5 x 10 cm









#### Hard Foam Scale Replacement Portals



Scale Replacement Portals serve to reduce the dimensions of tunnel entrances of larger gauges to those of smaller gauges. This is necessary, for example, when using a ready-made NOCH H0 terrain in TT or N gauge. All scale replacement portals are suitable for catenary operation.



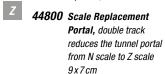
77 48800 Scale Replacement
Portal, double track
reduces the tunnel portal
from H0 scale to TT scale
2 pieces, 14x10.5cm



77 48790 Scale Replacement
Portal, single track
reduces the tunnel portal
from H0 scale to TT scale
2 pieces, 14x10.5 cm



N 34800 Scale Replacement
Portal, double track,
reduces the tunnel portal
from H0 scale to N scale
2 pieces, 14x 10.5 cm





34790 Scale Replacement
Portal, single track
reduces the tunnel portal
from H0 scale to N scale
2 pieces, 14 x 10.5 cm

44790 Scale Replacement
Portal, single track
reduces the tunnel portal
from N scale to Z scale
9x7cm

#### G-Gauge Walls, Roofs and Portals



Fans of large railways (LGB®, 1:22.5) can certainly also get their money's worth: the structured hard foam products are weatherproof and thus ideal for outdoor use.



67350 Tunnel Portal single track, 44x37cm headroom 25.5cm suitable for catenary operation



67360 Tunnel Portal double track, 64 x 37 cm headroom 25.5 cm suitable for catenary operation



Info Tip: our G Gauge Trees can be found on page 159



67760 Quarrystone Wall
39 x 29 cm
The stone structure of the Quarrystone
Wall corresponds to the portals
ref. 67350 and 67360.



**67700 Pan Tile Roof** 39 x 29 cm



delivery form ref. 67760



#### 3D Structured Texture



The 28 x 10 cm, flexible and self-adhesive foils are three-dimensionally structured and have super realistic surfaces. They are thus ideal for creating roofs, walls or flooring. The foil is simply cut into the desired shape with scissors or a

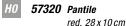
craft knife. After removing the protective layer, it can be glued on. The 3D Structured Texture can be dealt with on virtually any surface (card, plaster, wood, polystyrene, polyurethane, etc.).

By heating it (e.g. with a hairdryer), the 3D Structured Texture can be realigned or removed from an object for a few hours after fixing it. The (very realistic) pre-painted 3D Structured Texture can of course also be painted and weathered. We recommend our Acrylic Paints and the various methods described in detail in the chapter on »Painting and Weathering«.

Warning: do not fold at temperatures below 13 °C! Risk of breakage!

#### Roofs







57324 Pantile red. 28 x 10 cm



57328 Roofing Tile red, 28 x 10 cm



57329 Roofing Paper slate, 28 x 10 cm



57425 Brick Wall 28 x 10 cm

## Ground

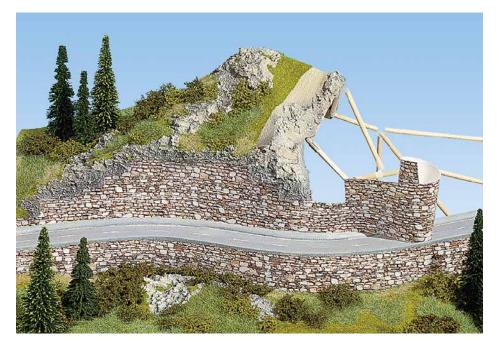


57475 Paving Stones grey, 28 x 10 cm

**Note:** due to the method of production, the edges of the Structured Texture may be somewhat irregular. The sheets are slightly larger than 28 x 10 cm, so you can trim the sides a little.

# **Highlights of the** 3D Structured Texture: Flexible and self-adhesive

- Three-dimensional & super realistically-structured surfaces
- · Easy to work with

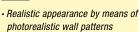


# **NOCH Embossed Cardboard Walls**

Working with NOCH Embossed Cardboard Walls is very easy: simply use scissors to cut the cardboard sheets with their various photorealistic wall patterns and then glue them on.



#### Info Tip: Product advantages



 Structured surfaces, since the wall sheets are made of embossed cardboard

value!

- Easy to work with: cut with scissors and glue
- · Available in two lengths

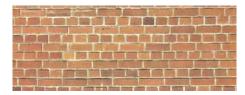




**57510** Cardboard »Granite« 23 x 15 cm



**57700** Cardboard »Granite« extra long, 64 x 15 cm



HO TT

57550 Cardboard »Red Brick«
32 x 15 cm

HO T

**57730** Cardboard »Red Brick« extra long, 64 x 15 cm





**57520** Cardboard »Dolomite« 32 x 15 cm

HO TT

**57710** Cardboard »Dolomite« extra long, 64 x 15 cm



HO TT

**57560** Cardboard »Cut Quarrystone« 32 x 15 cm

HO TT

**57740** Cardboard »Cut Quarrystone« extra long, 64 x 15 cm



HO T

**57530** Cardboard »Basalt« 32 x 15 cm

TT 57720 Car

**57720** Cardboard »Basalt« extra long, 64 x 15 cm



HO T

**57570** Cardboard "Yellow Sandstone« 32 x 15 cm

HOTT

**57750** Cardboard »Yellow Sandstone« extra long, 64 x 15 cm

#### Portals, Made of Plastic

These incredibly sturdy portals made through plastic injection moulding are ideal for placing visually-appealing portals in a model landscape for very little money.





34400 Tunnel Portal

single track,

5.5 x 6.5 cm, 2 pieces



N 3

**34410 Tunnel Portal**double track
9.5 x 7 cm, 2 pieces



60010 Tunnel Portal single track 11 x 11 cm, 2 pieces



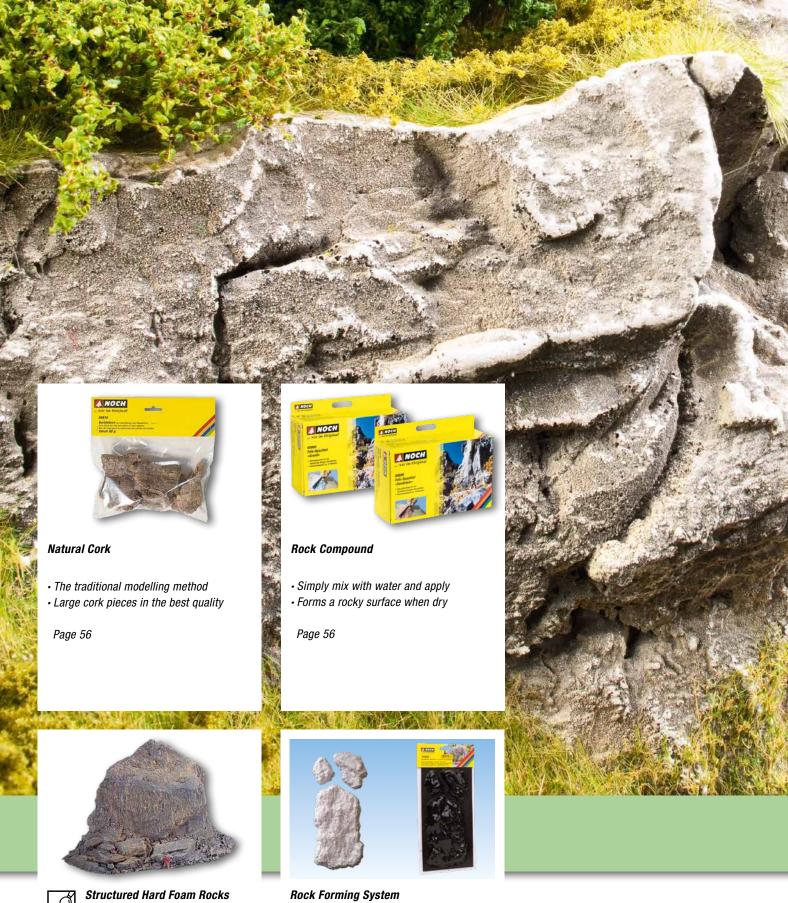
HO 60020 Tunnel Portal double track 15.5x12.5cm, 2 pieces



44420 Tunnel Portal single track 9 x 4 cm, 2 pieces



44430 Tunnel Portal double track 12 x 4 cm, 2 pieces





- · Sturdy and lightweight
- · Super realistic and three-dimensional surfaces
- · Available as individual rock pieces or as rock slabs

From page 57

- Cast rocks in reusable moulds
- · and paint them realistically

From page 60



# Rocks and Rock Walls

## Rugged Rocks and Breathtaking Rock Walls

Rocks and rock walls are the »icing on the cake» when it comes to designing a model landscape. NOCH offers you various options for creating fascinating and realistic model rocks.

And as nothing looks more realistic than real natural products, you will also find a wide variety of natural materials in our range, such as our Natural Cork.



#### **Natural Cork Rocks**

Cork is a natural material whose surface texture makes it perfectly suited to the designing of true-to-nature rocks.

You get the best quality, hand-picked large cork pieces from NOCH.



# **08810** Cork Rock Pieces Rock pieces from natural material, approx. 80 g

#### **Rock Compound**

NOCH Rock Compound is mixed with water, applied with a knife or spatula, and hardens within approx. 15 minutes.

Due to its special composition, it automatically forms a »rocky« surface upon drying, making it particularly easy to design rocky areas.





**60880 Rock Compound »Granite«** grey, 400 g

**60890 Rock Compound »Sandstone«** brown, 400 g

**60882** Rock Compound XL »Granite« grey, 1,000 g

**60892** Rock Compound XL »Sandstone« brown, 1,000 g

6 0 H

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Z

#### Structured Hard Foam Rock Pieces

NOCH Rock Pieces are made of the popular, high-grade structured hard foam. The rock pieces can easily be cut or freed from the mounting plate and worked into the appropriate position in the model landscape with compound (e.g. NOCH Rock Compound) or adhesive. NOCH Structured Hard Foam has decided advantages over other materials: it is extremely lightweight, sturdy, very good for

working with a craft knife or fret saw, and also weatherproof! So, you will soon become an expert at creating striking mountains and rock walls.







**58451 Rock Pieces »Granite«** 5 pieces



58452 Rock Pieces »Sandstone« 6 pieces



For particularly exposed mountain and rock formations, NOCH »Arlberg« Rocks are the perfect choice. These large stone pieces can be used to shape peaks and plateaus.

The Structured Hard Foam Rocks can be worked into the landscape with NOCH Rock Compound and subsequently painted with acrylic sprays and paints (see page 129).





**58448** Rocks »Arlberg«
3 pieces, 10 x 8 x 7 cm to 14 x 9 x 7 cm





#### Craft Tip: Individually designed rock walls

First, separate the rock pieces from the mounting plate (fig. 1) and then attach them to the mountain with adhesive or compound (fig. 2). Next, work the rock pieces in with NOCH Rock Compound (»Granite«, ref. 60880, or »Sandstone«,



Separate rock piece from the slab ...



... and attach to the mountain.

ref. 60890) or with Modelling Compound (ref. 60920) (fig. 3). Finally, use NOCH Landscaping Paints (see page 129) to paint the entire rock wall (fig. 4).



Close the gaps ...



 $\dots$  and paint the rocks.

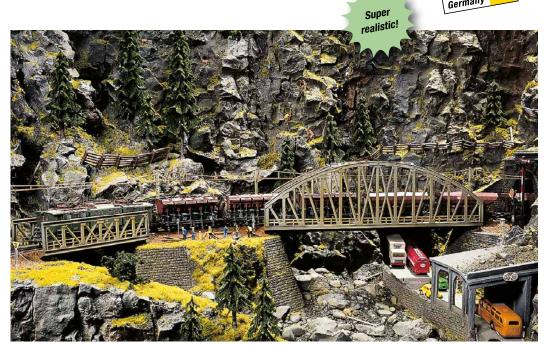






**58470** Rock Wall »Granite«

Structured Hard Foam Model for integrating, ready packed in poly bag, 32x16 cm



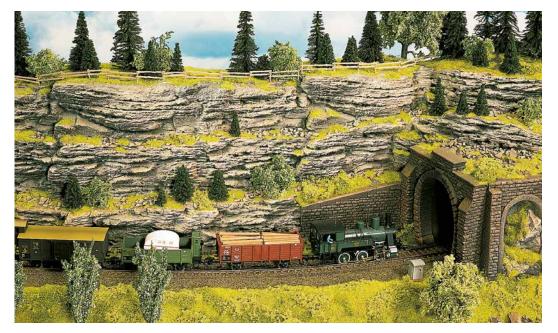
Made in Germany





**58480** Rock Wall "Stratified"

Structured Hard Foam Model for integrating, ready packed in poly bag, 33 x 19 cm

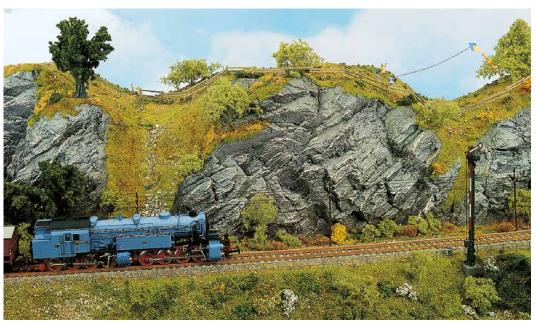






**58490** Rock Wall "Limestone"

Structured Hard Foam Model for integrating, ready packed in poly bag, 32x18cm









58462 Rock Wall »Basalt«
Structured Hard Foam Model
for integrating, ready packed in
poly bag, 32 x 21 cm







#### 58152 Rock Fall Barriers

Structured Hard Foam Model compatible with Rock Wall »Basalt«, packed in poly bag 23.5 x 16 cm approx. 3.3 cm deep



#### Craft Tip: Working on self-cut NOCH Hard Foam Rock Walls

Working on NOCH Hard Foam Rock Walls is very simple: the rocks are cut up with a sharp knife or a fine saw and smoothed with a fine file. You can also change the shape of the parts by gently heating them with a hair-dryer. The rock slabs are integrated into your landscape with contact, all-purpose or hot-melt glue; alternatively, they can be pressed into the compound before it has set

(NOCH »Granite« or »Sandstone« Rock Compound). It is also possible to completely integrate solid rocks in the landscape. All NOCH hard foam products can be painted in any colour you like – preferably with NOCH Landscaping Paints (see »Paints and Glues« chapter on page 126).



Saw the rock slab ...



... glue it with a hot glue gun ...



... and then paint it.



# Create Realistic and Cost-Effective Rock Walls and Mountain Slopes! The NOCH Rock Forming System

The NOCH Rock Forming System consists of six different rock forming moulds in a 24 x 12 cm format. The NOCH PROFI Casting Compound was specially developed for this purpose. This allows you to magically create deceptively real individual rocks, rock walls and stone formations. No matter whether it's a mountain mass or individual rocks along a railway embankment being formed, the NOCH Rock-Forming System offers the perfect solution: duplicating rocks from a single mould is possible with the PROFI Casting Compound in almost unlimited

quantities. As a result, cast rocks are very cost-effective and suitable above all for designing large rock and stone surfaces.

The casting moulds have a special inner coating, which makes it easier to remove the rocks after they have hardened. The moulds are packaged in such a way as to serve as a solid casting frame at the same time. This frame is placed under the Rock Forming Mould to stabilise it. The PROFI Casting Compound can then be poured evenly into it.



61230 Rock Former »Zugspitze« 1 large rock, 350 ml



61231 Rock Former »Alpspitze« 1 large rock, 250 ml





61232 Rock Former »Hochvogel« 3 medium sized rocks, 150 ml



61233 Rock Former »Widderstein« 1 large rock, 2 small rocks, 150 ml



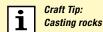
61234 Rock Former »Mittagsspitze« 1 medium sized rock, 2 small rocks, 150 ml







61235 Rock Former »Rote Wand« 2 large rocks, 200 ml





The rock forming mould is sprayed with a release agent consisting of water (20:1) and detergent.



The enclosed casting frame enables the NOCH PROFI Casting Compound to be poured in evenly.



After hardening, the individual rocks are carefully pushed out of the mould.



With the help of NOCH PROFI Casting Compound, the rocks can be incorporated into the landscape and the transitions can be modelled.



The rocks are now painted. For this, highlydiluted NOCH Natural Paints are applied with a sponge spatula.



Different colours are applied until the desired result is achieved.

#### Highlights of the NOCH Rock Forming System:

- Cost-effective cast any number of rocks from every mould
- Perfectly shaped PROFI Casting Compound for the finest structures
- · Clever Casting Frame enables even pouring
- · Innovative special inner coating for easier removal
- · Super realistic painting with NOCH Natural Paints



With the NOCH Casting Frame



Conventional casting mould

#### **PROFI Casting Compound:**

The special NOCH PROFI Casting Compound can be easily mixed with water in a ratio of 1:3 to fill bubble-free rock forming moulds with a high degree of robustness.

It is white when hardened and is thus the perfect base material for self-cast rocks, which are then painted with NOCH Natural Paints.

Ref./Rock Former	Volume
61230 »Zugspitze«	350 ml
61231 »Alpspitze«	250 ml
61232 »Hochvogel«	150 ml

Ref./Rock Former	Volume
61233 »Widderstein«	150 ml
61234 »Mittagsspitze«	150 ml
61235 »Rote Wand«	200 ml

#### Nature Paints Set:

NOCH Nature Paints are perfectly matched to the earthy and natural shades of rocks.

The Nature Paints Set contains 20 ml of highly-concentrated paint in six different shades: beige, ochre, olive, earth brown, grey and black. The paints are diluted with water before use and applied with the enclosed sponge spatula or the Landscaping Spray Bottle (ref. 61140). This allows you to add nuanced shades to your rocks or paint your ground before flocking.

#### Landscaping Spray Bottle:

The Landscaping Spray Bottle has a number of different applications.

Before pouring in the PROFI Casting Compound, a squirt of release agent, made of water and detergent (20:1), can be sprayed into the mould. This makes it easier to remove the finished rock later.

In addition, the Spray Bottle is ideal for spraying highly diluted paint onto plastered rocks. Info on the new Landscaping Spray Glue can be found on page 130.



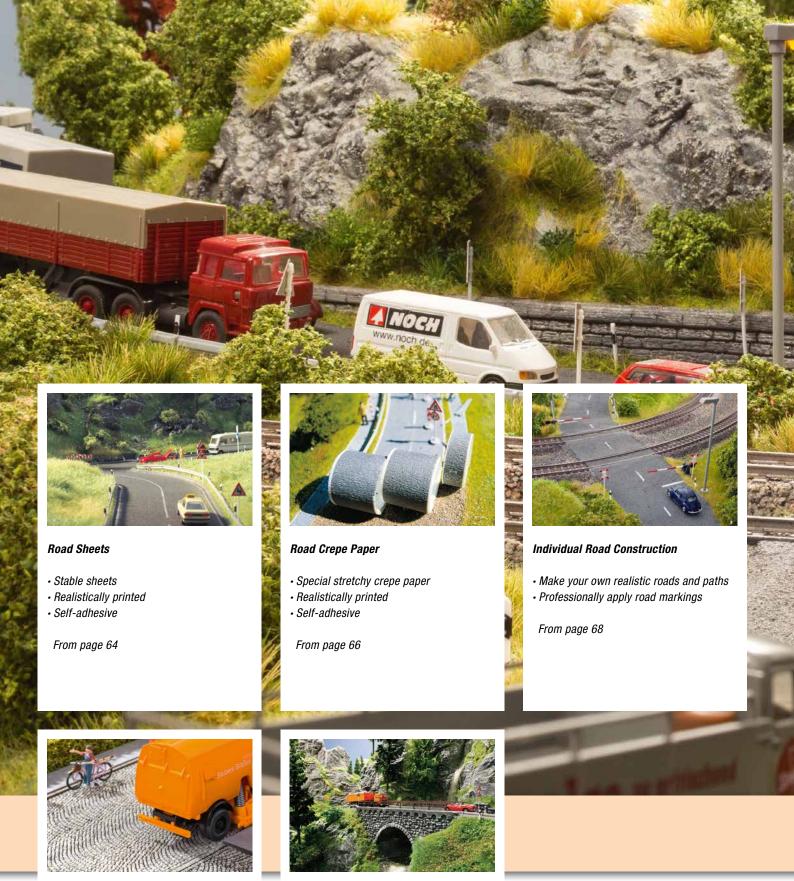
**60918 PROFI Casting Compound 1,000 g** for approx. 800 ml



61200 Nature Paints Set, 6 colour concentrates each 20 ml, 1 mixing cup, 1 sponge spatula



61140 Landscaping Spray Bottle empty



#### Structured Roads

- Exclusive quartz sand and rock powder cobblestone roads
- Realistic appearance
- Good to work with, due to its thin supporting material

Page 71



#### Hard Foam Accessories

 Bridges, portals, culverts and underpasses made of structured hard foam

From page 72

G O HO TT N Z



# Roads, Paths and Squares

#### So You are Always on the Right Path!

Alongside the rails, roads, paths and squares are the most important traffic routes and junctions in every model landscape. NOCH offers an extensive assortment of different products that allows you to create your own unique and realistic transport infrastructure. Whether Road Sheets,

Road Crepe Paper, Terrain Paste, Structured Roads or ready-made Road Construction Sets: with the products from the following pages, your model figures are guaranteed to have the appropriate ground under their feet.

# How to Always Get the Curves **NOCH Road Sheets**

Constructing realistic roads is made very easy by NOCH Road Sheets. Each stable, flexible and self-adhesive road sheet can be easily glued on. It is available in various widths (Federal Roads, Country Roads) and as a universal bend, crossing and car park, as well as cobblestones. The NOCH Road Sheet is offered in the colour variants »asphalt« and »grey«, for H0, TT and N gauge.





#### Road Sheets »Asphalt«



60700 Federal Road asphalt, 100 x 8 cm

48580 Federal Road asphalt, 100 x 6.6 cm

34200 Federal Road asphalt, 100 x 4 cm



60706 Country Road asphalt, 100 x 6.6 cm

48586 Country Road asphalt, 100 x 4 cm

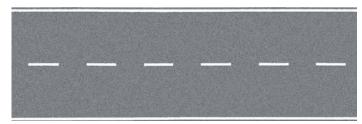


Craft Tip: Solid white centre line

If you want to make a solid centre line from the broken centre line on a road marking, we recommend you draw the line with a white »edding® 780 paint marker«.

# grey, 100 x 6.6 cm 48589 Country Road grey, 100 x 4 cm

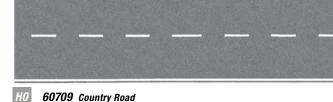
# Road Sheets »Grey«



60703 Federal Road grey, 100 x 8 cm

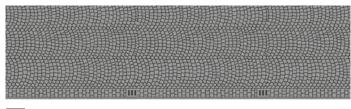
48583 Federal Road grey, 100 x 6.6 cm

34203 Federal Road grey, 100 x 4 cm



# **Road Sheets** Squares & Cobblestones

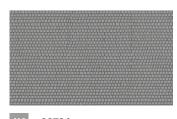
With these practical add-on elements, such as cobblestone roads and squares, crossings and car parks, you can design varied roads and squares.



60722 Cobbled Pavement 100 x 6.6 cm

48592 Cobbled Pavement 100 x 4 cm

> 34222 Cobbled Pavement 100 x 4 cm



60724 Cobblestones Place 2 pieces, each 22 x 14 cm

48594 Cobblestones Place 2 pieces, each 17 x 10.5 cm

34224 Cobblestones Place 2 pieces, each 17 x 10.5 cm



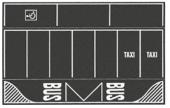






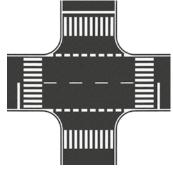


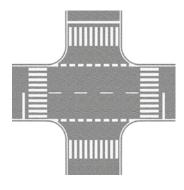
60726 Pavement 100 x 2.5 cm











60718 Car Park

asphalt, 2 pieces each 22 x 14 cm

60720 Car Park

grey, 2 pieces each 22 x 14 cm



60714 Crossing grey 22 x 22 cm



#### Craft Tip: Car Parks

A »Car Park« pack includes two road sheets. One sheet is – as shown on this page - printed with road markings. The other is blank and can therefore be cut up and used as desired.



#### Craft Tip: Crossings

The carriageway connections on the H0 Crossing are 8 cm wide and thus fit exactly onto the »H0 Federal Road«. Since the crossing is supplied in two parts, the carriageway connection can easily be shortened by simply trimming it to the width of the H0 Country Road at 6.6 cm.

#### Universal Curve »Asphalt« and Universal Curve »Grey«







A pack contains 2 Universal Curves and one cutting template. Also available in grey.



60701 Federal Road Curve

asphalt, 2 pieces, each 8 cm wide

48581 Federal Road Curve

asphalt, 2 pieces, each 6.6 cm wide

34201 Federal Road Curve

asphalt, 2 pieces, each 4 cm wide

60707 Country Road Curve

asphalt, 2 pieces, each 6.6 cm wide

48587 Country Road Curve

asphalt, 2 pieces, each 4 cm wide

60704 Federal Road Curve grey, 2 pieces, each 8 cm wide

48584 Federal Road Curve

grey, 2 pieces, each 6.6 cm wide

34204 Federal Road Curve

grey, 2 pieces, each 4 cm wide

60710 Country Road Curve

grey, 2 pieces, each 6.6 cm wide

48590 Country Road Curve

grey, 2 pieces, each 4 cm wide



#### Craft Tip: Application of the NOCH Universal Curve

Cut out the Universal Curve on the outline with a sharp knife (e.g. Stanley knife) or scissors with an edge of approx. 2 cm. Then divide the bend into segments required for your construction project. To make it easier for you to cut out precise radii, the Universal Curve pack comes with a template. By combining these segments with each other and installing straight road pieces, you can make any road route you desire. Each pack contains two Universal Curves so that you can build a complete circle (360°) with one pack.



Individual curved segments of a Universal Curve are combined with a straight road piece.



Highly

flexible!

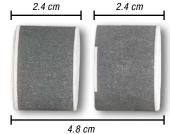
# It Couldn't Be More Flexible NOCH Road Crepe Paper

All roads lead to NOCH – because, with NOCH Roads,
Paths and Squares, you can easily create a true-to-life
road network. The advantages of the material are convincing: NOCH Road
Crepe Paper is self-adhesive, particularly stretchy, tear-resistant, and

above all very easy to work with. Bends in particular can be reproduced

very easily and effectively with NOCH Road Crepe Paper. In addition, NOCH Road Crepe Paper is ideally suited to the FALLER Car System.

### **HO Country Road Crepe Paper**





HO 60500 Country Road

grey, 100 x 4.8 cm (delivered in 2 rolls)

HO 60610 Country Road

grey, 200 x 4.8 cm (delivered in 2 rolls)

N 34100 Country Road

grey, 100 x 2.9 cm (delivered in 2 rolls)

Z 44100 Country Road

grey, 100 x 2.5 cm (1 roll, with broken center line)



HO 60410 Asphalt Road

black, 100 x 4.8 cm (delivered in 2 rolls)

TT 48410 Asphalt Road

black, 100 x 4.8 cm (delivered in 2 rolls)

N 34150 Asphalt Road

black, 100 x 2.9 cm (delivered in 2 rolls)

Z 44150 Asphalt Road

black, 100 x 2.5 cm (1 roll, with broken center line)



HO 60470 Federal Road

grey, 100 x 5.8 cm (delivered in 2 rolls)

TT 48470 Federal Road

grey, 100 x 4.8 cm (delivered in 2 rolls)



HO 60490 Highway

grey, 100 x 7.4 cm (delivered in 2 rolls)

V 34090 Highway

grey, 100 x 4.8 cm (delivered in 2 rolls)









Z



HO 60430 Cobblestone

100 x 5 cm (delivered in 2 rolls)

TT 48430 Cobblestone

100 x 5 cm (delivered in 2 rolls)

N 34070 Cobblestone

100 x 3 cm (delivered in 2 rolls)

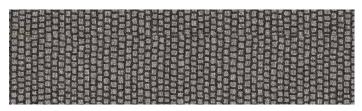
Z 44070 Cobblestone

100 x 2.5 cm (1 roll)



HO 60450 Pedestrian Walkway

100 x 1.2 cm (delivered in 2 rolls)



HO 60440 Old Town Cobblestone

100 x 5 cm (delivered in 2 rolls)



HO 60620 Pedestrian Walkway

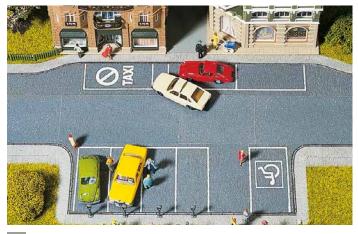
100 x 2.5 cm (1 roll)

7 48450 Pedestrian Walkway

100 x 1.5 cm (1 roll)

34071 Pedestrian Walkway

100 x 1.2 cm (1 roll)



0 60550 Car Park

2 flexible sheets, 20 x 10 cm, one plane printed with various symbols, including 4 parking meters



HO 60570 Paved Place

2 flexible sheets, 20 x 10 cm

7 48570 Paved Place

2 flexible sheets, 20 x 10 cm

34170 Paved Place
2 flexible sheets, 20 x 10 cm



Craft Tip: Solid white centre line

The NOCH Roads, Paths and Squares shown on this page are self-adhesive and made of particularly stretchy and tear-resistant special crepe paper. Bends of all kinds can therefore be laid easily. For extremely narrow curves (e.g. hairpin curves on mountain routes), cut the roads along the curve radius and glue them so they overlap slightly. You can make both solid and broken centre lines. Most NOCH Roads packs consist of two individual road rolls. The centre line is solid on one roll and broken on the other. If you want to build a road with a solid centre line now, for example, first lay the roll with the broken line and stick the other carriageway with the solid line on top of it, with a slight overlap. If you want to break up a solid centre line after a stretch of several centimetres, cut the roll with the broken line at the »interface« and stick this onto the roll with the solid line with an overlap.

NOCH Road Crepe Paper is ideally suited to the FALLER Car System. First, fix the special guide wire with some adhesive strips. Next, lay the NOCH Road Crepe Paper on the special guide wire. The FALLER Car System vehicles can safely go for a spin on NOCH Road Crepe Paper.



# Perfect DIY Roads

#### Individual Road Construction

#### Road Construction System

The NOCH Road Construction System enables you to achieve realistic model roads yourself without too much effort. The system comprises the special Structured Road Construction Paint and the Road Construction Paint Roller.

The innovative Structured Road Construction Paint was specially developed for designing model roads. Its special feature is that it takes on the structure of the processing tool when applied. This opens up a variety of design possibilities: new and exciting surface textures emerge, depending on which tool (e.g. paintbrush, spatula or paint roller) is used to apply the Structured Road Construction Paint.

To design an asphalt road, we recommend the Road Construction Paint Roller, since the application of this foam tool results in a realistic asphalt texture. Thanks to both colour shades, »Asphalt Grey« and »Asphalt Anthracite«, perfectly true-to-life model roads can be created. Finally, the road is furnished with the appropriate road markings. For this, we recommend the NOCH Starter Set Street Markings (ref. 60740), which consists of a road marking pencil, a curved ruler and special templates.



60825 Structured Road **Construction Paint** Asphalt grey, 250 ml



60826 Structured Road **Construction Paint** Asphalt anthracite, 250 ml

NEW



60829 Road Construction Paint Roller 50 mm wide, with spare roller



#### Road Construction Set

The Road Construction Set is an innovative method of creating model roads. The set contains specially developed, very fine-grained asphalt granules in a shaker, a refill bag of asphalt granules and a special, grey acrylic road paint. The contents of the set are sufficient to cover a road with a length of approx. 300 cm and a width of 8 cm.

# MOCH

#### 60820 Road Construction Set

applicator with 150 ml fine »asphalt granules« refill pack 100 ml »asphalt granules« bottle with 125 ml grey acrylic road paint



Grass Glue is applied to the prepared road surface.



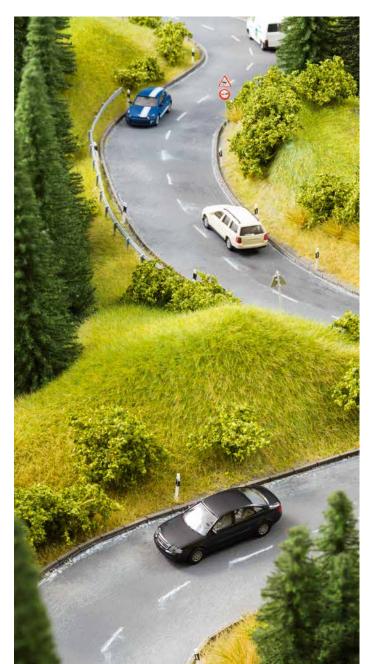
Next, the asphalt granules from the Road Construction Set are evenly scattered over the road until a uniform coating has been created.



Once they are dry and any excess granules have been extracted, the asphalt granules are sealed in with thinly applied road paint.







#### Street Markings

The Starter Set Street Markings offers the ultimate solution to designing street markings. Thanks to the flexible Curved Ruler, which is also included in the set, centre lines and street markings can also be applied in curves without any problems. The special Street Marking Pencil is ideal for carrying out the marking; both with the template and the flexible curved ruler. A template is supplied in the Starter Set for each of the H0, TT and N gauges. A wider selection of templates with different street markings, such as directional arrows, zebra crossings, car park symbols and many other symbols, is separately available for each gauge. The special Street Marking Pencils are available online in a triple pack (ref. 91950) as an accessory item at **shop.noch.com**.



HO 1



60740 Starter Set Street Marking

1 curved ruler
1 street marking pen
each 1 street marking template for H0, TT and N gauge



H0

**60745 Street Marking Templates** 5 templates, 43 symbols

TT

**48600 Street Marking Templates** 5 templates, 46 symbols

N

**34240 Street Marking Templates** 5 templates, 38 symbols



Craft Tip: Street Markings



Curved Ruler is placed on the road and then lines are drawn.



Template is placed on the road and filled in with the pencil.



Alternatively, the template can also be filled in with a paintbrush and white Acrylic Paint (ref. 61190) or with white Acrylic Spray (ref. 61170).

#### Terrain Structure Paste

Realistic-looking ground and surfaces can be quickly and easily replicated with Terrain Structure Pastes. With the Terrain Structure Paste »Field & Nature«, you can design field paths, courtyards, shore areas, rural train platforms and the subsoil of fields and meadows. Using the Terrain Structure Paste »Industry«, you can create roads and sealed

concrete and asphalt surfaces (e.g. at industrial plants, depots or station forecourts). The Terrain Structure Pastes are an acrylate-based coloured compound. The paste is simply applied with a spatula or a bristle brush. The individual colours can be mixed together »wet on wet« or applied one after the other.



Simply apply Textured Terrain Paste ...



and form as desired.



#### Terrain Structure Paste »Field & Nature«



60823 Terrain Structure Paste »Field & Nature« 100 g sand (beige), 100 g loam (ochre), 100 g soil (brown)







Terrain Structure Paste »Industry«



60824 Terrain Structure Paste »Industry« 100 g asphalt (anthracite), 100 g concrete (light grey), 100 g mud (olive)









**Accessories** 

Our Accessories provide the finishing touches to the roads, paths and squares on your layout - so you can get close to the real thing right down to the last detail.





60511 Crash Barriers and Road Posts crash barriers total 1 m long 60 Road Posts for self-painting

> 34111 Crash Barriers and Road Posts crash barriers total 70 cm long 32 road posts for self-painting



60521 Traffic Signs 270 traffic signs, c olored and pre perfurated, 63 Posts

34121 Traffic Signs 32 traffic signs, colored, 32 posts



# It Couldn't Be More Realistic!

#### Structured Roads

NOCH Structured Roads are manufactured from the natural raw materials quartz sand and mineral powder. This guarantees a natural surface appearance and feel, as well as a realistic appearance and very high UV resistance. The Structured Roads are thus the first choice for the demanding hobbyist.

Another major advantage of the innovative production technology, based on a thin supporting material and using solvent-free bonding agents, is the Structured Roads' high degree of flexibility.

**Important Note:** do not process the Structured Roads at temperatures below 15°C. Risk of breakage!



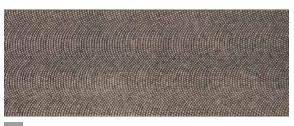
60312 Structured Road »Cobblestone«
7.5 cm wide
50 cm long



60314 Structured Place
"Cobblestone"
15.5 cm wide
21 cm long



60316 Structured Curve
»Cobblestone«
7.5 cm wide
approx. 32 cm long



60322 Structured Road »Roman Pattern«
7.5 cm wide
50 cm long



60324 Structured Place
»Roman Pattern«

15.5 cm wide

21 cm long





Craft Tip: Structured Roads



The protective edge of the structured road is cut off with a blade or a pair of scissors.
The structured road is laid and roughly cut.



Glue is applied to the ground with a spatula. We recommend using UHU® POR glue.



The structured road is pressed onto the glue bed and affixed to the ground. The road is done. All solvent-free paints are suitable for any subsequent colour treatment.

#### **Portals**

Even roads and paths lead through tunnels and underpasses. That's why we offer two attractive road portals made of our well-known NOCH Hard Foam. You can find many practical craft tips on the hard foam material in the »Walls and Portals« chapter of this catalogue.





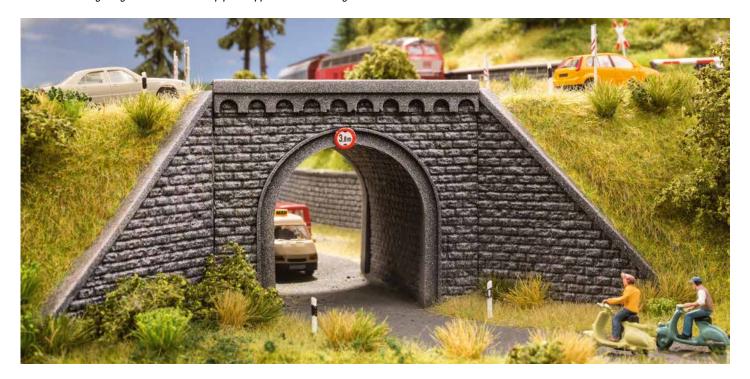
58300 Underpass 14 x 10 cm

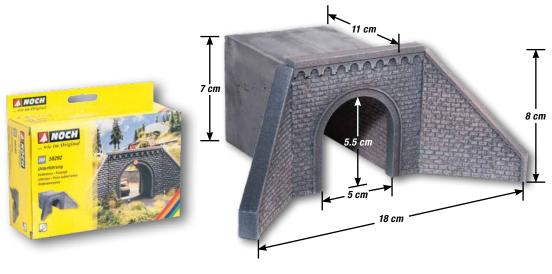
58290 Street Tunnel Portal 14 x 11 cm

#### **Underpasses**



With this high-grade hard foam item, an extremely realistic model underpass can be created. The set includes a portal with matching wing walls and a tunnel pipe of approx. 10 cm in length. In order to build an underpass with two sides (that is, with an entrance and an exit), you will need two sets.





58292 Underpass

1 portal, 2 wing walls, 1 pipe

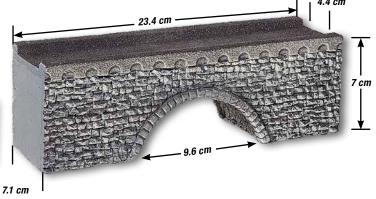
#### Achtobel Bridge

The Achtobel Bridge is a high-quality ready-made bridge model made of structured hard foam. The bridge can be employed as a small railway bridge (suitable for all H0 track systems including MÄRKLIN® C track) as well as a road bridge.

**Note:** many NOCH Bridges can also be used as road bridges. The complete selection of bridges can be found in the »Bridges and Viaducts« chapter in this catalogue.







HO 58690 Achtobel Bridge

Ready-made Structured Hard Foam Bridge Model

#### **Culverts**



Culverts can be found on road and railway embankments, paths and steep slopes. Two particularly typical ones, the pipe and the tunnel, can be modelled with products from the popular Structured Hard Foam Series.











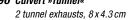


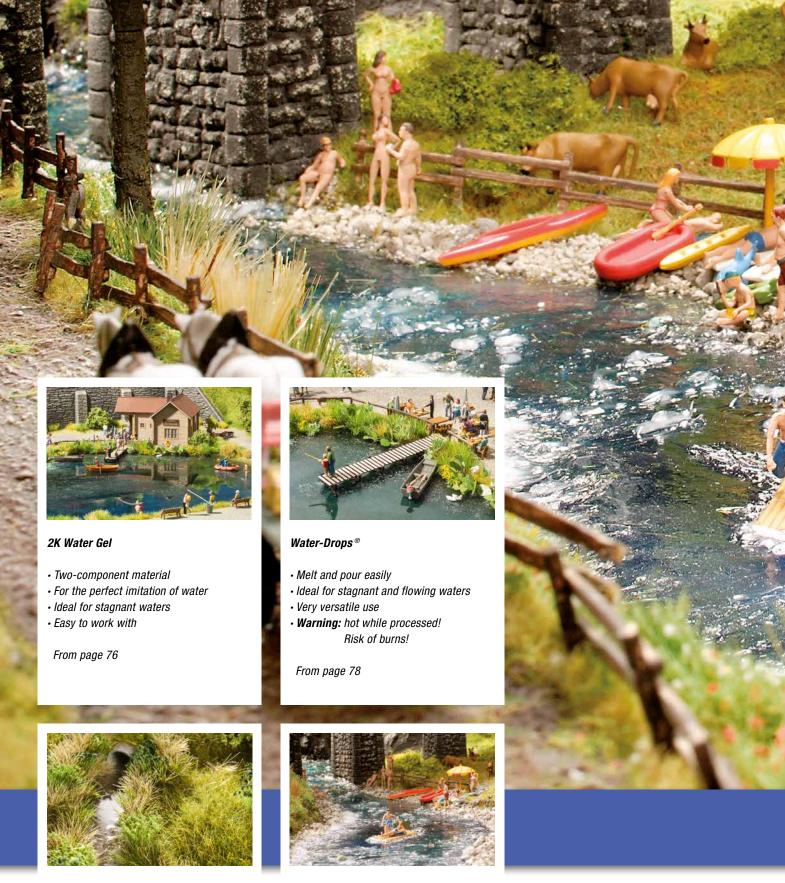


HO 58294 Culvert »Pipe«

2 pipe exhausts, 8 x 2.9 cm, 2 walls, 8 x 2.5 cm

58296 Culvert »Tunnel«





#### Artificial Water

- One-component material
- · Transparent when dry
- Ideal for small, shallow waters
- Very easy to use

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### Water Effects, Waves & Billows, Foam & Spume

- For reworking and detailing (waves, rapids or waterfalls)
- Can be combined with all other water products

From page 80

 $G \mid O \mid HO \mid TT \mid N \mid C$ 

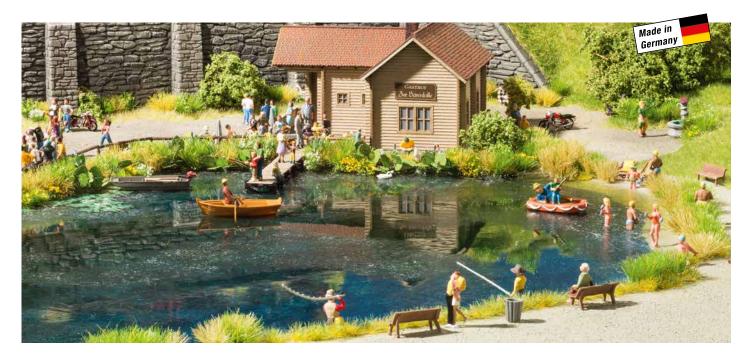


## Rivers and Lakes

#### As in Nature, Water Attracts all the Attention

Many roads lead to the same goal: this also applies to water structuring, which is undoubtedly the pinnacle of model landscaping.

Choose the products from our wide range that are best suited to your craft project.



### Still Waters Run Deep

#### Water Structuring with 2K Water Gel

2K Water Gel is a fascinating substance: easy to work with and producing exciting results. It is the material of choice for replicating stagnant waters (such as lakes or ponds). However, rivers and streams can also be beautifully represented in a model.

For creating water surfaces, e.g. Water Effects (ref. 60872) or Waves & Billows (ref. 60861) can be used.

Applying 2K Water Gel is very simple: first, mix the two components in a ratio of 1:1.

Now you have approx. 120 minutes to work with the 2K Water Gel. During this time, the consistency of the 2K Water Gel changes from watery to viscous (see also craft tip).

In order to give the water some colour, there are two options: either you paint the lakebed with the Riverbed Colour Set (ref. 60875) or you use the 2K Water Gel »color« (ref. 60871), which can be dyed, thanks to the concentrated paints included in the pack.





#### Craft Tip: 2K Water Gel

After mixing the two components »Water Gel Resin« and »Water Gel Hardener« in a ratio of 1:1, the mixture begins to solidify.

Immediately after mixing, the 2K Water Gel is watery and perfectly suited for designing stagnant bodies of water such as lakes or ponds.

After approx. 30 minutes, the consistency becomes honey-like: perfect for

realising flowing waters. After 90 to 120 minutes, the now viscous 2K Water Gel can be used to create optimal streams in steep terrain. Another advantage: 2K Water Gel can also be used on thermoplastics (heat-sensitive plastics like e.g. NOCH Preformed Layouts).



Begin by pre-colouring the lakebed ...



and decorating the bank.



After mixing the two 2K Water Gel components ...



the mixture is poured out ...



and then spread around with a paintbrush.



While the water surface is still soft, e.g. boats can be pressed into it.



#### Let the Water Flow!

#### 2K Water Gel

Amazingly true-to-life lakes and rivers can be built with our popular 2K Water Gel. The two components are mixed 1:1, stirred and then poured out. For a colourful design, either the Riverbed Colour Set (see below) or the 2K Water Gel »color« is used.

Using the Riverbed Colour Set, the lake bed has to be pre-coloured (see also craft tip). With the 2K Water Gel »color«, the concentrated colour is stirred directly into the 2K Water Gel. The pack contains concentrated blue, green and brown paint, enabling every shade of the water to be reproduced in the model.



60870 2K Water Gel »transparent« 2 components, each 100 ml



60871 2K Water Gel »coloured« 2 components, each 50 ml 2 ml of each colour batch blue, green und brown

# 2K Water Gel Advantages:

- · Easy to work with
- Long processing time
- Processed cold
- Easy to dye
- · Ideal for stagnant waters

#### Riverbed Colour Set

With the Riverbed Colour Set, you can create any kind of realistic beds of waters. From clear mountain streams to turquoise Alpine reservoirs, from brown-black moor ponds to blue-green swimming lakes: depending on the mixing ratio of the colours in the water, you will get a very unique ground colour.



60875 Riverbed Colour Set 100 ml neutral acrylic paint and each 10 ml concentrate blue, green und brown



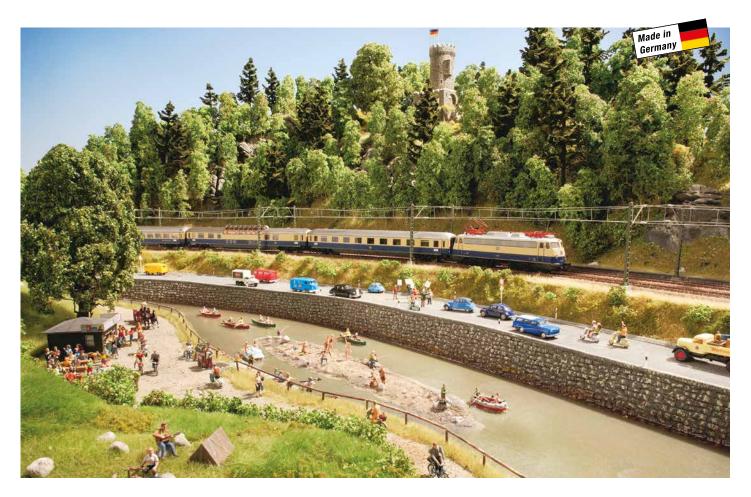


#### Craft Tip: Riverbed Colour Set

The acrylic paint is first mixed with small amounts of the various concentrated colours until the desired shade is reached.

Next, simply apply the paint onto the ground of the water with a paintbrush (see also craft tip on page 76). Also: the Riverbed Colour Set works extremely well in

combination with our »Water-Drops®«, »Artificial Water« and »2K Water Gel« products. The colour set contains 100 ml of acrylic paint and 10 ml of concentrated blue, green and brown acrylic paint.



### Water-Drops® do the Trick!

#### Water Structuring with Water-Drops®

Two things make Water-Drops® indispensable in creating waters: that they are easy to work with and that they offer the possibility to create details like waves or rapids through subsequent heating.

As a product family, the Water-Drops® are available in three variations. The Water-Drops® »transparent« are ideal for creating crystal-clear lakes, rivers and streams. To design ground that is coloured, we recommend the Riverbed Colour Set (ref. 60875, see page 77).

The Water-Drops® »color« also contain blue, green and brown drops for mixing with the transparent drops. Hence, you can create a totally individual colour scheme for your waters.

Finally, the Water-Drops® easy make working with the Water-Drops® even easier. Simply remove the lid and place the heat-resistant plastic tub in the oven for melting.



#### Craft Tip: Water-Drops® and Water-Drops® easy

The Water-Drops® are simply melted in the oven in a heat-resistant container (e.g. a jam jar). After melting, the substance retains a honey-like consistency for approx. 3 minutes. It can now be poured into the prepared stream- or lake bed. If the water on your model landscape has hardened and you want to make further changes to the water surface, no problem: you can re-melt and re-work the surface at any time with a hair-dryer. With a heat gun, you can even liquefy the

entire Water-Drops® body of water. This allows you to work on waves or rapids

Warning: Risk of burns! Wear gloves! Do not heat in the microwave! Only suitable for adults.



The Water-Drops® are melted in the oven ...



... and poured into the prepared streambed. Warning: the Water-Drops® are processed while hot! Wear gloves!



Thanks to the low melting point of the Water-Drops®, the substance can be melted down and reworked with a hair-dryer



#### Water-Drops®

Water-Drops® are the perfect substance for reproducing stagnant and flowing waters in a model. In particular, the ability to re-melt the body of water after it has hardened (for example, with a powerful hair-dryer) opens up many possibilities for the modeller. Waves can subsequently be moulded or scratches removed from the water's surface.

Water-Drops® are offered in »transparent« and »color« variations.

Warning: risk of burns! Processed while hot! Wear gloves!

### Advantages:

- · Easy to work with · Fast-working (short hardening time)
- Easy to dye · Can be reworked by heating



60855 Water Drops® »clear« 250 g, for approx. 300 ml



60856 Water Drops® »color« 250 g transparent, for approx. 300 ml, each 25 g blue, green, brown

#### Water-Drops® easy

Water-Drops® easy make it even easier to construct lakes and rivers. The tub is made of a heat-resistant plastic and is thus also the melting vessel. Simply melt the Water-Drops® easy in the oven on 150° C and then remove the lid. The melted Water-Drops® easy are then poured into the

prepared lake or flowing brook and harden completely within a few minutes.



Hot while processed! Wear gloves!







Simply melt Water-Drops® easy in the cub in the oven...



and pour into the prepared lake - and that's that!



60858 Water-Drops® »easy« 150 g, for approx. 160 ml



Info Tip: Water-Drops®

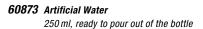
Warning: Risk of burns! Wear gloves! Do not heat in the microwave! Only suitable for adults.

#### Artificial Water

NOCH Artificial Water is certainly the easiest way to design a lake, pond or small stream without inclines. The single-component substance does not have to be mixed but can simply be poured straight from the bottle onto the prepared stream- or lakebed. The substance has a (real) water base and therefore loses volume when it dries out.









60874 Artificial Water XL 500 ml, ready to pour out of the bottle



#### Craft Tip: Artificial Water XL

Paint the stream- or lakebed with the Riverbed Colour Set (ref. 60875) and leave to dry. The darker the colour, the deeper the water looks. After the paint has dried, pour the Artificial Water in one go to approx. 2 - 3 mm high. Drying time approx. 24 hours. While hardening, the Artificial Water loses about 50% of its volume resulting in a water level of 1 - 1.5 mm. Important: re-pouring is not recommended, since this can lead to clouding of the lowest water layer!

#### Water Effects

With this Water Effects product from NOCH, water effects can be created from Water-Drops®, Artificial Water or 2K Water Gel. You can easily reproduce realistic rapids and impressive waterfalls. Water Effects consists of a viscous white substance that is flexible and milky-transparent when dried out. Because of the very viscous consistency, you can also apply the substance directly on steep areas (e.g. waterfalls). To make rapids, for example, just apply a few brushstrokes of Water Effects onto the river, then spread around with a coarse bristle brush.







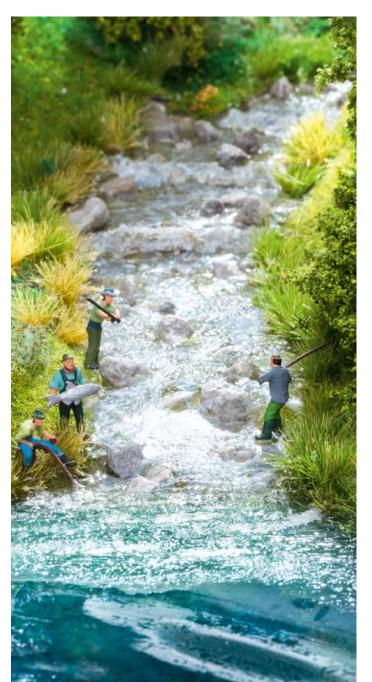
#### Craft Tip: Water Effects

NOCH Water Effects have a viscous, white consistency straight from the tube. The substance dries a milky-transparent colour after several hours. Small waterfalls and whirlpools: the Water Effects are applied directly onto the model landscape with a small paintbrush.

Waterfall: the waterfall is designed »lying down« and not installed into the landscape until dry. To do this, measure the height of the waterfall in the model landscape and transfer it onto supporting material. Then mould the waterfall »lying down« with a bristle brush. After the waterfall has dried (approx. 24 hours), carefully remove it from the supporting material and glue it in the model

Info Tip: the perfect instructions on working with the NOCH Water products are provided in our guidebooks (see pages 6 to 9).

60872 Water Effects 125 ml



#### Waves & Billows

Until now, the modeller could only rely on the tried-and-tested Water Effects (ref. 60872) from the NOCH range. To create tall waves on a beach for surfers, for instance, or a diorama of a ship on the high seas, we have developed »Waves & Billows.« This is a paste-like mixture, which is applied to the water surface with the aid of a small spatula or toothpick. After some rough modelling, the mixture is first allowed to set for half an hour and then moulded into the desired shape with a spatula, toothpick and coarse paintbrush.



**60861 Waves and Billows** 150 ml, easy-to-use



#### Foam & Spume

Every wave that breaks, every brook that rushes, and every waterfall that plunges into a mountain lake, produces waves as well as white surf. To be able to perfectly reproduce these wonderful highlights, NOCH »Foam & Spume« was developed. This fine substance can be carefully applied by brush onto the relevant water areas to give rapids, waterfalls and waves the ultimate, natural-looking touch. Since it is not white paint, »Foam & Spume« looks even more natural. Try it!



**60862 Foam & Spume** 30 ml bottle



#### Lake Film

For creating natural-looking water surfaces: easy to cut and glue on.





60850 Lake Film blue, with wave structure, 41 x 26 cm







### GRAS master 2.0

- For erfect electrostatic flocking with grass fibres that stay upright
- Powerful!
- · Easy to use

From page 86



#### Set Items

Our sets make starting to design landscapes and greenery easy. They contain everything that the hobbyist needs to get started.

From page 84



#### **Greenery and Flocking**

- Grass fibres and grass assortments
- · Scatter Material
- · Leaf Foliage, Flock and Structured Flock
- · Stones, Rubble and Ballast

From page 88



#### **Grass Tufts and Grass Strips**

- Realistic appearance easy to apply
- Virtually unlimited applications for beds, fallow land, field paths or embankments

From page 102



### Natur +

- Super realistic product for perfect model landscaping
- Best quality thanks to a specially developed production process

From page 104





- Laser-Cut miniature plants made of multicoloured, printed special paper
- · Finest details and delicate structures

From page 108

G O HO T



### Fields and Meadows

#### It Doesn't Get any Greener: Our Grasses, Blossoms and Plants are Fascinating in their Attention to Detail!

Anyone who appreciates lifelike landscape design is on the right track with us: we continue to bring innovation to the market in greenery, inspiring with their simple application and setting lasting trends.

The NOCH Gras-Master 2.0 has already won numerous awards and international success. Reason enough for us to develop it further.

We have made a compelling product even better – discover the versatility of the NOCH Gras-Master 2.0 for your model landscape! Our innovative Grass Tufts also impress with their perfect design and incomparably realistic appearance. When it comes to fields, meadows and flowers, everything gets the green light with NOCH!

### Get Started Easily with NOCH!

The first step is the easiest. For this to be true, we have put together some practical sets for you. This allows you to get to know the most important materials and methods and that way, you can be sure that you haven't forgotten anything important while shopping. It's time to unpack our useful sets on the following pages and get stuck in! We hope you have lots of fun!



#### Basic Set »Modelling«

How do you make getting started with the wonderful hobby of »model landscaping« as easy and smooth as possible? With the Basic Set »Modelling«! The package includes everything from creating the ground to flocking and structuring realistic waters, to get you building your own model landscape.

**Note:** the Water-Drops® easy included in the set are processed while hot. Risk of burns. Please wear gloves.









#### 60801 Basic Set »Modelling«

contents: 250 g of ballast 100 g of Terrain Paste, grey, 150 g of Water-Drops® easy 50 g of Grass Glue, Puffer Bottle 40 g of Scatter Grass Summer »Meadow« (length of the grass fibres 2.5 mm), 40 Grass Tufts, mixed 42 g of Scatter Material, brown, 20 g of lichen





#### Basic Set »Decoration«

It can be so easy to realistically decorate a model landscape. All you need is the right products. The Basic Set »Decorating« contains everything for creating a beautiful model landscape: from cork rocks, hedges and bushes to various trees.





#### 60802 Basic Set »Decoration«

contents: Birch Tree, 11,5 cm high 5 Fir Trees, 10-14 cm high 2 model hedges, green (each 50 cm long) Natural Seafoam Bushes, for approx. 20 bushes 100 ml of Spray Glue in a pump bottle 25 g of Leaf Foliage, medium green 13 g of Flower Petals, yellow, approx. 80 g of cork rocks









#### Scenery Starter Kit

The NOCH Scenery Starter Kit offers everything you need for the initial design phase:

- · For creating rocks, NOCH Rock Compound
- · For pastures and meadows, Scatter Grass with accompanying Puffer Bottle and Grass Glue to create high-quality grass areas
- · For initial designs: a Mini Grass Mat, NOCH Scatter Material, Natural Stones as well as high-grade Lichen, 6 Model Fir Trees and 4 Deciduous Trees

The Scenery Starter Kit is perfectly suited for HO, TT and N gauges.







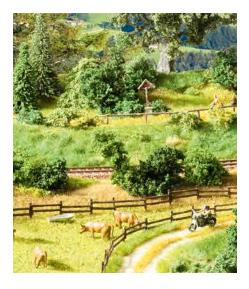








60800 Scenery Starter Kit







### Start Set Vegetation

Electrostatic grass application gives your model landscape a certain something. With the Start Set Vegetation, this happens in a simple way, since the 2.5 mm-long Scatter Grass from NOCH can easily be applied with the Puffer Bottle.

Note: to continue modelling, you'll find Grass Glue and Scatter Grasses in many different shades in the large NOCH range.







07069 Start Set Vegetation

Puffer Bottle, 40 g Scatter Grass Summer »Meadow« 2.5 mm long 50 ml Grass Glue





#### Mini Start Set Landscaping

The Mini Start Set Landscaping contains a selection of the most popular modelling items with which you can create smaller model landscapes, dioramas or nativity scenes. All products are available to purchase separately to enable you to carry on modelling later.

#### 60803 Mini Start Set Landscaping



contents: Mini Grass Mat »Meadow«, 28 x 22 cm Scatter Material, medium green and brown, each 10 g Bag of Lichen, dark green, yellow and red, approx. 12 g each Cork Rock Piece



### A Perfect Grass Flocking is no Accident!

#### Grass fibres in different lengths and shades - perfectly suited for all gauges

As a company based in Allgäu, Southern Germany, NOCH has lush meadows of all shades and lengths right at its doorstep. So you can reproduce these meadows on your model landscape, you can buy everything you need from a single source: Grass Glue and many different grass fibres of all lengths are available for you to choose from.

**Note:** grass flocking with the Gras-Master 2.0 is presented in detail on the following double page.



Scatter Grass, 1.5 mm long, see page 88



Wild Grass, 6 mm long, see page 90



Scatter Grass, 2.5 mm long, see page 88



Wild Grass XL, 12 mm long, see page 90

•	Info Tip:		
11	We have made even more		
	improvements to our popular NOCH		
Grass Glue (ref. 61130 and 61131). The formula			
enables spreading on all types of ground to be			
free-flowing.			

	0	НО	TT	N	Z
Length of grass fibres					
1.5 mm	-	•	•	•	•
2.5 mm	•	•	•	•	•
6 mm	•	•	•	•	-
12 mm	•	•	_	_	_

#### Grass Glue

Ideal for electrostatic flocking

- · Transparent when dry
- Dries slower than conventional glue, giving you more time to flock a surface.





**61130 Grass Glue** 250 g

G



H0

TT

N

Z

### The Original – Powerful!

#### Gras-Master 2.0

Even in its previous version, the Gras-Master won numerous awards in the national and international trade press and the enthusiastic praise of thousands of railway modellers. Something good has been made even better in the Gras-Master 2.0. In this way, electrostatic grass flocking – even with extra long grass fibres – becomes effortless. The grass fibres are electrostatically charged in the Gras-Master 2.0 so that they stand upright on the ground.

Supplied with the Gras-Master 2.0 are three sieve attachments, which are ideal for flocking with grass fibres of different lengths. We recommend the finest sieve for fibres between 1 mm and 2.5 mm in length, the medium sieve between 2.5 mm and 6 mm, and the coarse sieve for fibres between 6 mm and 12 mm in length. The Nozzle (ref. 60132) is available as an accessory that is specially suited to flocking in hard-to-reach areas.



### i

#### Advantages of the Gras-Master 2.0:

- · Powerful: perfect electrostatic flocking with the lowest current flow.
- Versatile: also perfectly suitable for electrostatic flocking with extra long grass fibres
- Independent: thanks to being battery operated, it can be used flexibly anywhere on the layout – and without annoying tangled wires!
- Flexible: use of all common grass fibre lengths due to its three metal sieves.
- Clean: easy and clean application as the grass fibres are held in a closed container.
- Proven: having received several awards, the product has proved itself a thousand times over.





Video clip



The Gras-Master 2.0: ideal for all grass fibres from 1 to 12 mm!

60132 Nozzle for Gras-Master 2.0

#### 60135 Gras-Master 2.0

contents: Gras-Master 2.0, counter-pole with alligator clip, 3 sieves for flocking fibres of different lengths, 9 volt battery and for testing a pack of NOCH Scatter Grass Summer Meadow (2.5 mm long).



The ground to be covered with grass is coated with special NOCH Grass Glue (ref. 61130 and 61131).



The grass fibres are filled into the container of the Gras-Master 2.0.
Different lengths and shades can thus be mixed touether.

### 60136 Special Sieve, coarse The special sieve for los

The special sieve for long and extra long grass fibres (6 mm to 12 mm) is available separately to upgrade the previous Gras-Master model.



The alligator clip (counter-pole) is fastened near the surface where the grass is to be applied.



Due to the electrostatic charge, the grass fibres stand vertically on the glue bed.



#### Info Tip: NOCH Series »Flock Material in Containers«

The most important NOCH Flock products, such as grass fibres, scatter material, flock and leaf foliage are also available in practical containers. The containers are stackable, resealable and transparent — so you can bring order to your hobby supplies and have your stocks in view at all times.



Take the flock straight from the practical container.



The containers can be closed again after use...



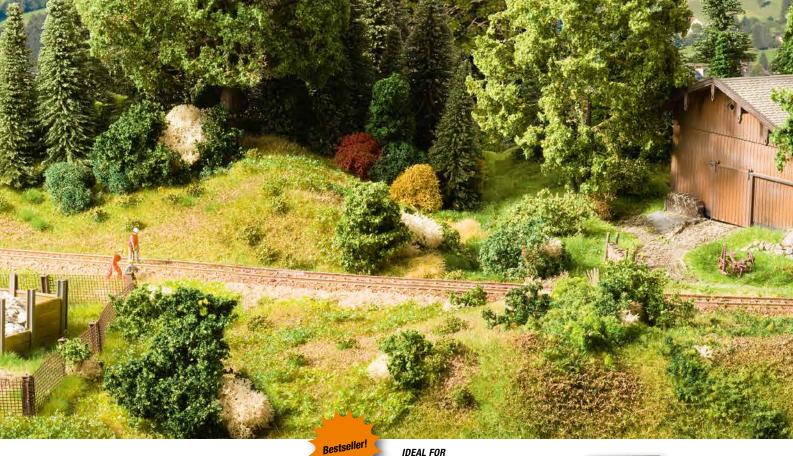


and stacked to save space and keep your supplies neat and tidy.



Video-Clip

You can keep an eye on the contents of the transparent containers.



#### Scatter Grass, 1.5 and 2.5 mm long

The short 1.5 mm Grass Fibre is ideal for N and Z gauges and for short HO lawns. The 2.5 mm long Grass Fibre is the »standard length« for HO. Thanks to our large range of shades, extremely realistic effects can be achieved. The 1.5 and 2.5 m long Grass Fibres can be flocked onto surfaces with both the Puffer Bottle and the Gras-Master 2.0.

IDEAL FOR

#### GRAS master 2.0

**Note:** Grass areas of 1 m<sup>2</sup> requires approx. 150 g of Scatter Grass and 500 g of Grass Glue. Many Scatter Grass items are available in three sizes (20 g and 100 g in a bag and 120 g in a container)





08200 Scatter Grass Spring Meadow 1.5 mm, 20 g bag

08300 Scatter Grass Spring Meadow 2.5 mm, 20 g bag

50210 Scatter Grass Spring Meadow 2.5 mm, 100 g bag

08150 Scatter Grass Spring Meadow 2.5 mm, 120 g container



08320 Scatter Grass Marsh Green 2.5 mm, 20 g bag 50200 Scatter Grass Marsh Soil

2.5 mm, 100 g baq



08212 Scatter Grass Meadow 1.5 mm, 20 g bag

08312 Scatter Grass Meadow 2.5 mm, 20 g bag

50220 Scatter Grass Meadow 2.5 mm, 100 g bag

08152 Scatter Grass Meadow 2.5 mm, 120 g container



08330 Scatter Grass Flower Meadow 2.5 mm, 20 g bag

08155 Scatter Grass Flowers 2.5 mm, 120 g container



08214 Scatter Grass Ornamental Lawn 1.5 mm, 20 g bag

08314 Scatter Grass Ornamental Lawn 2.5 mm, 20 g bag



08310 Scatter Grass Summer Meadow 2.5 mm, 20 g bag

50190 Scatter Grass Summer Meadow 2.5 mm, 100 g bag

08151 Scatter Grass Summer Meadow 2.5 mm, 120 g container



08350 Scatter Grass Forest Floor 2.5 mm, 20 g bag

08157 Scatter Grass Forest Floor 2.5 mm, 120 g container



08360 Scatter Grass Alpine Meadow 2.5 mm, 20 g bag



Puffer Bottle for applying 1.5 and 2.5 mm-long NOCH Scatter Grass. The grass fibres are electrostatically charged and thus stand upright on the glued area. On page 85 of this catalogue, you'll find the practical Start Set Vegetation, which also contains the Puffer Bottle.





08100 Puffer Bottle without content







#### Grass Fibres in Muted Colours, 2.5 mm long

The green of meadows and fields in other places is not as intense and saturated as in Central Europe. With the muted colours grass fibres packs, you can professionally replicate more arid regions and thus build deceptively real Mediterranean and American model landscapes.







**08321** Scatter Grass dark green 2.5 mm, 20 g bag



**08322 Scatter Grass** medium green 2.5 mm, 20 g bag



08323 Scatter Grass brown 2.5 mm, 20 g bag



08324 Scatter Grass golden yellow 2.5 mm, 20 g bag



#### Craft Tip: NOCH Grass Glue (ref. 61130 and 61131)

NOCH Grass Glue is not the same as white glue. The painted area remains "open" for longer. This means that the glue sets more slowly than normal white glue. The advantage is that you can cover larger areas with grass and the lawn becomes denser because the electrostatically charged grass fibres with the NOCH Gras-Master 2.0 can get into the glue more easily.



#### Grass Glue

Ideal for electrostatic flocking

- · Transparent when dry
- Dries more slowly than conventional white glue, giving you more time to flock a surface.



**61130 Grass Glue** 250 g



**61131 Grass Glue XL** 750 g



#### Wild Grass, 6 mm and Wild Grass XL, 12 mm long

NOCH Wild Grass is ideal for designing tall meadows, fields, riverbank areas and embankments. The 12 mm long Wild Grass XL is also excellent for O gauge. Both grass fibres can be processed with the NOCH Gras-Master 2.0.

Note: a 1 m² grass area requires approx. 300 g of Wild Grass as well as approx. 500 g of Grass Glue.

Note: NOCH Wild Grass is available in a tip-resistant bag with a »belly bandage« and some also in a

practical container. No more spills!

GRAS master 2.0



#### Wild Grass



07100 Wild Grass Meadow 6 mm, 50 q baq

07090 Wild Grass Meadow 6 mm, 100 g container



07101 Wild Grass beige, 6 mm, 50 g bag

07091 Wild Grass

beige, 6 mm, 100 g container

Wild Grass XL



07110 Wild Grass XL Meadow 12 mm, 40 g bag

07095 Wild Grass XL Meadow 12 mm, 80 g container



07111 Wild Grass XL beige, 12 mm, 40 g bag

07096 Wild Grass XL beige, 12 mm, 80 g container



07102 Wild Grass light green, 6 mm, 50 g bag

07092 Wild Grass light green, 6 mm 100 g container



07106 Wild Grass dark green, 6 mm, 50 g bag

07094 Wild Grass dark green, 6 mm 100 g container



07112 Wild Grass XL light green, 12 mm, 40 g bag

07097 Wild Grass XL light green, 12 mm 80 g container



07116 Wild Grass XL dark green, 12 mm, 40 g bag

07099 Wild Grass XL dark green, 12 mm 80 g container

### Harvest time at last! Hay Bales

Huge hay bales can be seen in the fields during harvesting. Perfect companion to the Natur + Cornfield from NOCH (ref. 07421, see on page 105).



07460 Hay Bales 18 pieces













IDEAL FOR

GRAS master 2.0

#### Grass Fibres Assortments

NOCH offers two Grass Fibres Assortments for pros and beginners. One contains a selection of Short Grass Fibres in the lengths of 1.5 mm and 2.5 mm - ideal for flocking landscapes in H0, TT, N and Z gauges. Another contains longer Grass Fibres of 6 mm and 12 mm.

Contents of the Short Grass Fibres Assortment (lengths: 1.5 mm and 2.5 mm) Description Length of the grass fibres Ref. Quantity 08200 Spring Meadow 20 g 1.5 mm 08212 Meadow 20 g 1.5 mm 08214 Ornamental Lawn 20 g 1.5 mm 08300 2.5 mm Spring Meadow 20 g 08310 Summer Meadow 20 g 2.5 mm 08312 Meadow 30 g 2.5 mm 08314 20 g Ornamental Lawn 2.5 mm 10 g 08320 Marsh Green 2.5 mm 08330 Flower Meadow 2.5 mm

These are suitable for 1, 0 and H0 gauges. The enclosed grass fibres bags are labelled with the respective item references to facilitate the purchase of individual rass types at a later date.

Contents of the Long Grass Fibres Assortment (lengths: 6 mm and 12 mm)						
Ref.	Description	Quantity	Length of the grass fibres			
07100	Wild Grass Meadow	30 g	6 mm			
07101	Wild Grass, beige	20 g	6 mm			
07102	Wild Grass, light green	20 g	6 mm			
07104	Wild Grass, bright green	10 g	6 mm			
07106	Wild Grass, dark green	20 g	6 mm			
07110	Wild Grass XL Meadow	20 g	12 mm			
07111	Wild Grass XL, beige	10 g	12 mm			
07112	Wild Grass XL, light green	10 g	12 mm			
07114	Wild Grass XL, bright green	10 g	12 mm			
07116	Wild Grass XL, dark green	10 g	12 mm			

07071 Grass Fibres Assortment, long







07066 Grass Fibres Assortment, short

#### Craft Tip:

#### Create natural-looking meadows with grass fibres of different colours and lengths by using the NOCH Gras-Master 2.0

The variety of grasses in nature, with their different colour hues and growth heights, can also be easily replicated in a model. This is called a »step by step« method; i.e., adding one type of grass after the other. With the Grass Blends (pre-mixed grasses of different lengths and hues), you do indeed get meadows with grasses of different lengths and hues, but when looking at the area, the green still looks uniform. To play with the natural progression of hues and lengths, apply different grass hues and lengths one after the other. In the area prepared with NOCH Grass Glue (ref. 61130), Wild Grass beige (ref. 07101) is first sparingly flocked with the NOCH Gras-Master 2.0. Afterwards, Wild Grass light green (ref. 07102) is used for the main grass area. In addition, Wild Grass Light Green is sparingly used to

cover the already beige flocked areas. A touch of dark green fibres (ref. 07106) amongst the beige and light green fibres makes the scenery even more realistic. Finally, the area is filled with Scatter Grass »Meadow« 2.5 mm (ref. 08312).

The result is a harmonious and very realistic progression of the different grasses. The meadow now looks very lifelike: just like the original.

Our Tip: before adding them to your layout or diorama, first test your own formulas for the fibres from the NOCH range, e.g. on a piece of cardboard. That will give you the necessary know-how in advance.



Master Grass Blend

These Grass Blends are special blends of different grasses and flock materials, which have been put together for using with the tried and popular NOCH Gras-Master 2.0.



07072 Grass Blend »Summer Meadow« 2.5 to 6 mm, 50 g bag

07076 Grass Blend »Summer Meadow« 2.5 to 6 mm, 100 g container



07073 Grass Blend »Cow Pasture« 2.5 to 6 mm, 50 g bag

07077 Grass Blend »Cow Pasture« 2.5 to 6 mm, 100 g container

GRAS master 2.0

Note: a 1 m² grassy area requires approx. 250 g of Master Grass Blend and approx. 500 g of Grass Glue.

The Meadow Mat can thus be worked on as both one piece and



07075 Grass Blend »Alpine Meadow« 2.5 to 6 mm, 50 g bag

07079 Grass Blend »Alpine Meadow« 2.5 to 6 mm, 100 g container





#### Natur + Meadow Mats

The mats are manufactured on a self-supporting layer of special adhesive in an innovative process – without using an inflexible backing material that gets in the way. Thanks to the highly adaptable special adhesive, the mats can be easily stuck onto various types of ground.



00400 Natur+ Meadow Mat »Spring« 44 x 29 cm, 6 mm

00410 Natur+ Meadow Mat »Spring« 44 x 29 cm, 12 mm



00402 Natur<sup>+</sup> Medow Mat »Meadow« 44 x 29 cm, 6 mm

00412 Natur+ Meadow Mat »Meadow« 44 x 29 cm, 12 mm



when cut up or torn into smaller pieces.

00406 Natur+ Meadow Mat »Field« 44 x 29 cm, 6 mm

00416 Natur+ Meadow Mat »Field« 44 x 29 cm, 12 mm









#### Scatter Material

Our popular, particularly finely processed NOCH Scatter Material offers a variety of possibilities for realistically designing and decorating model landscapes and dioramas down to the smallest detail. Every single shade is finely tuned from the wide range of colours. You can thus use the »pure« shade of your choice right away, but you can also mix different shades to make up a »special shade« unique to your layout.

**Note:** 1 m<sup>2</sup> of scattered area requires approx. 100 g of Scatter Material and approx. 500 g of Grass Glue. Many Scatter Materials are available in three different pack sizes (42 g and 165 g in a bag and 200 g in a container).





08400 Scatter Material »Flower Meadow« 42 g bag

08401 Scatter Material »Flower Meadow« 165 g bag

08370 Scatter Material »Flower Meadow« 200 g container



08460 Scatter Material grey, 42 g bag

08375 Scatter Material grey, 200 g container



08410 Scatter Material light green, 42 g bag

08411 Scatter Material light green, 165 g bag

08371 Scatter Material light green, 200 g container



08470 Scatter Material dark green, 42 g bag

08376 Scatter Material dark green, 200 g container



08420 Scatter Material medium green, 42 g bag

08421 Scatter Material medium green, 165 g bag

08372 Scatter Material medium green, 200 g container



08440 Scatter Material brown, 42 g bag

08441 Scatter Material brown, 165 g bag

08373 Scatter Material brown, 200 g container







#### **Flock**

PROFI Flock is a special, finely-ground flocking material in various natural colours. The product is ideal for flocking Natural Trees as well as designing realistic ground cover and meadows. Note: NOCH Flock is available in a and some also in a practical tub. No more spills!





light green, 20 g bag

07241 Flock







07206 Flock dark green, 20 g bag



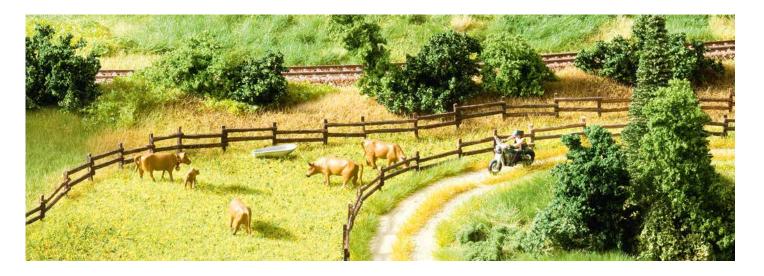
07223 Flock light brown, 20 g bag



07225 Flock medium brown, 20 g bag



07227 Flock dark brown, 20 g bag







#### Structured Flock

NOCH Structured Flock is a completely new development. The foam flock is ground up into three different granulations and coloured four very realistic shades of matt green. NOCH Structured Flock is therefore suitable for a wide variety of applications, such as flocking trees or designing ground vegetation and small bushes. Thanks to the three matt shades, the colours of the vegetation can be replicated in a very realistic way.



**07331 Structured Flock** light green fine, 3 mm, 20 g

07341 Structured Flock light green medium, 5 mm, 15 g

**07351** Structured Flock light green coarse, 8 mm, 10 g



07332 Structured Flock medium green fine, 3 mm, 20 g

07342 Structured Flock medium green medium, 5 mm, 15 g

**07352** Structured Flock medium green coarse, 8 mm, 10 g



**07333** Structured Flock dark green fine, 3 mm, 20 g

**07343** Structured Flock dark green medium, 5 mm, 15 g

**07353** Structured Flock dark green coarse, 8 mm, 10 g



Fine Granules



Medium Granules



Coarse Granules



#### **Foliage**

Foliage is an extremely important product for sophisticated landscape design. It is used in a wide variety of areas: grounds are given natural colours and realistic textures with foliage; riverbanks and the outskirts of forests are given natural-looking vegetation; shrubs and trees are given volume and look more realistic thanks to foliage.

#### **Product Highlights**

- Wafer-thin and highly flexible backing material: this makes it possible to also apply the Foliage onto jagged surfaces or to be ripped up into individual pieces and used selectively.
- Permanently flexible adhesive: we use a permanently flexible adhesive for flocking, which ensures the Foliage's flexibility.
- Elaborate flocking: the Foliage is flocked with up to five different materials, sometimes also with the use of electrostatic flocking.

#### **Foliage**

This »classic« Foliage is provided with a fine, naturally-coloured flock. It's perfect for creating ground cover, moss and low vegetation.

We particularly recommend using the Foliage to make uniform green areas more realistic and lively.



**07270** Foliage light green, 20 x 23 cm



**07271 Foliage**dark green, 20 x 23 cm



**07272** Foliage olive green, 20 x 23 cm



#### Wild Grass Foliage

The Wild Grass Foliage is created through electrostatic flocking, which combines different types of grass and flock.

The Wild Grass Foliage is ideal for creating realistic grassy vegetation on natural meadows, along the outskirts of forests, lakes or riverbanks.



**07280** Wild Grass Foliage light green, 20 x 23 cm



**07281** Wild Grass Foliage dark green, 20 x 23 cm



07282 Wild Grass Foliage olive green, 20 x 23 cm





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Craft Tip: Working with the Foliage



Adjusting the size: the Foliage is split up into the desired size by hand.



Shaping: because of the highly flexible backing material, the Foliage can be stretched effortlessly.



Applying: the Foliage is stuck on with NOCH Scenery Glue (ref. 61133).

#### Meadow Foliage

The Meadow Foliage is also electrostatically flocked. Somewhat shorter fibres are used in the process, in comparison to Wild Grass Foliage.

NEW

The Meadow Foliage can be used in all kinds of areas. Examples are meadows, pastures and agricultural land.



**07290 Meadow Foliage** yellow green, 20 x 23 cm



**07291 Meadow Foliage** medium green, 20 x 23 cm



**07292 Meadow Foliage** dark green, 20 x 23 cm



#### Leafy Foliage

The Leafy Foliage is characterised by flocking with unique, finely-cut NOCH Foliage.

It is mainly used for adding greenery to bushes and trees as well as creating smaller bushes and ground cover.

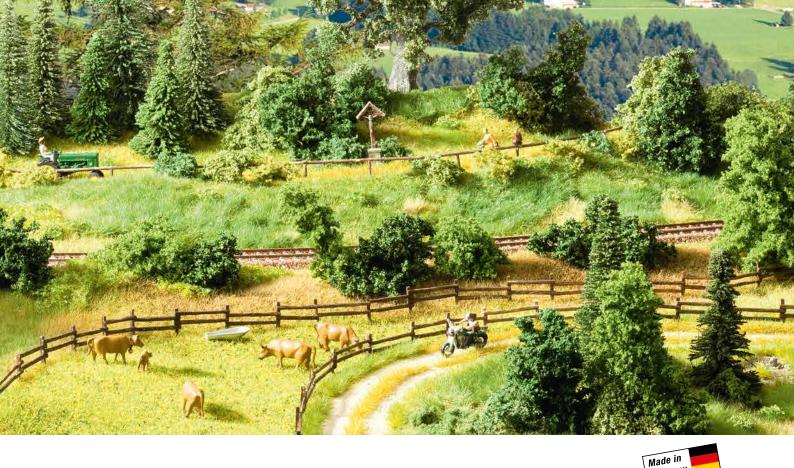


**07300 Leafy Foliage** medium green, 20 x 23 cm



07301 Leafy Foliage dark green, 20 x 23 cm





#### Leaf Foliage and Leaf Foliage Sets

The popular NOCH Leaf Foliage is made of a very finely-cut, special material. The individual leaves have a deceptively real leafy shape. They are great for flocking trees or bushes or creating ivy, ground cover and



07142 Leaves
light green, 50 g bag
07152 Leaves
light green, 100 g container



07144 Leaves
medium green, 50 g bag
07154 Leaves
medium green, 100 g container

deciduous forest cover. The Leaf Foliage is available in individual packs as well as in the Leaf Foliage Set with various shades of green or the Autumn Leaf Foliage Set.

insert.



07146 Leaves dark green, 50 g bag

Small tub, big effects: perfect for storing and applying the PROFI Leaf Foliage product. With a practical sieve and scatter

Germany



08099 PROFI Shaker, empty







07167 Leaf Foliage Set
olive, light green
medium-green, dark green



**07168** Autumn Leaf Foliage Set yellow, red, redbrown orange-brown

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#### Natural Stones

Nothing looks more realistic than natural products. That's why NOCH chooses natural stones for model landscaping. All stones are finely ground and sorted by size.





**09204 Chippings Lahn** 250 g bag



**09203 PROFI Rocks »Coal«** 100 g bag



**09214 Boulders** 250 g bag

### Reed Assortment

Thanks to three realistic colours of the Reed Assortment, you can imitate pastures, reeds or ears of wheat that grow, e.g. around lakes, ponds or flowing brooks.



**07060** Reed Assortment green, beige, brown

#### Lichen

This 100% real Iceland lichen is pretreated and then dyed and thus retains its natural springiness for as long as possible. It is perfect for creating bushes, hedges or ground cover.



**08600 Lichen** stone grey, 35 g bag



**08610 Lichen** green mix assorted, 35 g bag

**08621 Lichen** green mix assorted, 75 g bag



**09216 Sandstone Boulders** 250 g bag



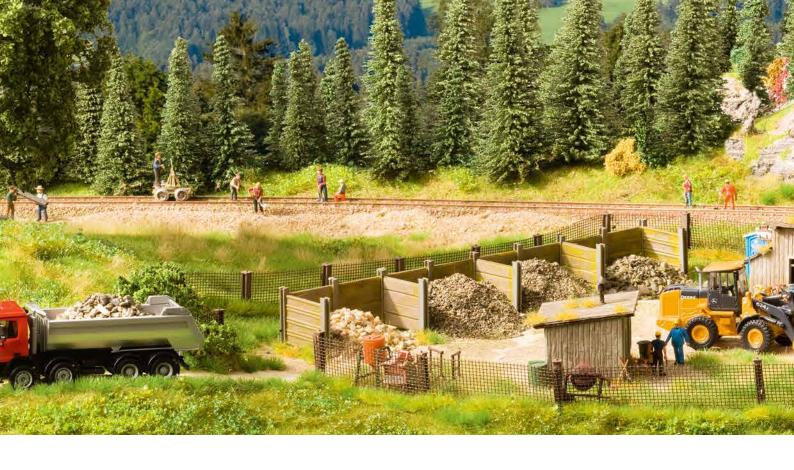
**09226** Rock Boulders Hegau 250 g bag





**08630 Lichen** autumn mix assorted, 35 g bag

**08620 Lichen** autumn mix assorted, 75 g bag



#### PROFI Rocks »Rubble«

Steep mountains and rocky slopes are among the most impressive motifs that can be recreated in a model landscape. Small and large rocks and boulder blocks regularly break away from cliffs and crags and then accumulate in screes, beneath steep mountain walls or in riverbeds. The PROFI Rubble from NOCH is ideal for recreating such rock formations, screes and wonderful riverbeds and lakebeds in your model, and for adding detail. The rubble is available in three different granulations, which can be used alone or mixed together.





09228 PROFI Rocks »Rubble« fine, 80 g bag, grain 1 – 2 mm



09230 PROFI Rocks »Rubble« medium, 80 g bag, grain 2 - 5 mm



09232 PROFI Rocks »Rubble« coarse, 80 g bag, grain 6 - 16 mm







#### Ballast

Ballast and stones play a very important role when designing a realistic model landscape.







#### 09372 Ballast

brown, 250 g bag suitable for MÖSSMER Track Bed H0/TT scale, compatible with ref. 99150 and 99155



#### 09172 Ballast

brown, 250 g bag suitable for MÖSSMER Track Bed N scale, compatible with ref. 99157





#### 09374 Ballast

grey, 250 g bag suitable for MÖSSMER Track Bed H0/TT scale, compatible with ref. 99160 and 99165



#### 09174 Ballast

grey, 250 g bag suitable for MÖSSMER Track Bed N scale, compatible with ref. 99167

of the rocks and stones of that region.

Typically, track ballast is mined by region and therefore reflects the colour





#### 09376 Ballast

dark grey, 250 g bag suitable for Märklin® C-Track



#### Ballast Glue

Thanks to the nozzle of the Ballast Glue, it is even easy to reach inaccessible spots. Usage: spread the loose ballast between the sleepers and then drizzle on the Ballast Glue.











09363 PROFI Ballast »Granite« grey 250 g bag

09163 PROFI Ballast »Granite« arev 250 g bag



09365 PROFI Ballast »Basaltic Rock« dark grey 250 g bag







09167 PROFI Ballast »Gneiss« red brown 250 g bag



#### Grass Strips, Grass Tufts and Grass Tufts Mini Sets

Field paths, river embankments or grasses underneath crash barriers or at the outskirts of forests as well as other scenes can be implemented easily and effectively with the practical Grass Strips and Grass Tufts. You can create natural-looking vegetation within the blink of an eye — with the Grass Tufts even in an XL version! All of the products shown on these two pages are particularly easy to use, since they are highly flexible and can therefore be installed in your landscape easily.



The Grass Tufts Mini Sets are very good for smaller building projects. Like the large packs, »normal« Grass Tufts with a fibre length of 6 mm and Grass Tufts XL with an extra long fibre length of 12 mm are included in the Mini Sets.



#### **Grass Strips**

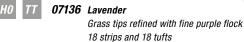


07125 Grass Tufts »light and dark green«
6 mm different shades of green
18 strips and 18 tufts



#### Lavender







Remove Grass Tufts from the packaging,



prepare them with a drop of glue...



and place them in the landscape.





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#### **Green Grass Tufts**





07127 Grass Tufts »light and dark green« different shades of green, 104 pieces, 6 mm

07004 Grass Tufts XL light green, dark green, beige and beige green, 92 pieces, 12 mm

green flock, 42 pieces, 6 mm 07037 Grass Tufts Mini Set »Meadow«

07032 Grass Tufts Mini Set

42 pieces, 6 mm 07022 Grass Tufts Mini Set XL

green flock, 42 pieces, 12 mm 07027 Grass Tufts Mini Set XL »Meadow«

42 pieces, 12 mm

#### Refined Grass Tufts





07034 Grass Tufts Mini Set »Field Plants« green flock, 42 pieces, 6 mm

07035 Grass Tufts Mini Set »blooming« red flock, 42 pieces, 6 mm

07036 Grass Tufts Mini Set »blooming« yellow flock, 42 pieces, 6 mm

07038 Grass Tufts Mini Set »blooming« white flock, 42 pieces, 6 mm

07133 Grass Tufts »Field Plants« light, medium and dark green, 104 pieces, 6 mm

07135 Grass Tufts flowering yellow, red, white, 104 Stück, 6 mm

07010 Grass Tufts XL »blooming« red, yellow, light green, dark green, 92 pieces, 12 mm

07014 Grass Tufts »Wild Flowers« multi-coloured flocked, 52 pieces with 6 mm and 46 pieces with 12 mm

07015 Grass Tufts »Meadow Flowers« multi-coloured flocked, 52 pieces with 6 mm and 46 pieces with 12 mm

07016 Grass Tufts »Field Plants« multi-coloured flocked, 52 pieces with 6 mm and 46 pieces with 12 mm

07024 Grass Tufts Mini Set XL Field Plants green flock, 42 pieces, 12 mm

07025 Grass Tufts Mini Set XL »blooming« red flock, 42 pieces, 12 mm

07026 Grass Tufts Mini Set XL »blooming« yellow flock, 42 pieces, 12 mm

07028 Grass Tufts Mini Set XL «blooming« white flock, 42 pieces, 12 mm



#### Natur + »Arable Land« Made of Hard Foam

As a special highlight, we present this natural-looking Arable Land from the Natur + series, which is made of our well-known Structured Hard Foam. The arable topsoil has been brought to the surface as if freshly ploughed. To decorate the scenery, 10 grass tufts are included as well.





07450 Natur+ Arable Land
21 x 19 cm, with 10 grass tufts

#### Natur + Meadows and Fields

Natur +

The Natur + Meadows and Fields are super realistic blends of various high-grade, electrostatically processed grass fibres. The fibres are applied one after the other in a specially developed process. This technology and the mixture of different fibre colours and lengths make for an amazingly realistic appearance. The wafer-thin backing on the grass fibres helps to keep the specially developed transparent adhesive permanently flexible.

Due to their special make-up, Natur + Meadows and Fields can be easily adapted to various types of surface, such as hills, railway embankments, hollows, etc. Each pack also contains 10 colour-matching grass tufts for the realistic design, or the optimal design of transitions. Using Natur + products is very simple: the meadows and fields are either installed in the landscape as they are or torn cut into small pieces and stuck on.



#### Info Tip: Advantages of Natur + Meadows & Fields

- Grass fibres in different lengths (2.5 to 12 mm) and colours are flocked one after the other in a special process.
- Extra thin backing layer made of flexible special adhesive
- Easy to lay, including on uneven ground
- Very easy to work with (cut, tear, glue)
- · Includes grass tufts for a realistic design



**07402** Natur\* Spring »Meadow« in three colours 22 x 20 cm, with 10 grass tufts

















07403 Natur\* »Summer Meadow«
in three coloures
22x20cm, with 10 Grass Tufts





07420 Natur+ »Rape Field«
extra long green fibres,
in one colour with yellow tips
22 x 20 cm, 10 grass tufts





07421 Natur+ »Cornfield«
extra long yellow fibres in
one colour with golden tips
22 x 20 cm, 10 grass tufts





07442 Natur\* »Swimming Lake«
swimming lake, meadow
flocked in three colours
22 x 20 cm, 10 grass tufts



### For the Perfect Decoration

#### **Ornamental Plants**

The elaborately handcrafted Ornamental Plants are lovely decorative objects for parks, buildings, pedestrian zones, gardens and much more.





14012 Ornamental Plants in Pots 9 flower pots

14080 Ornamental Plants in Pots (illustration similar) 9 flower pots







14020 Ornamental Plants in Tubs 3 flower pots



14021 Thuja 6 pieces



14022 Rose Arch 4 pieces (1 x rose arch, 2 x thuja, 1 x rose)







14023 Mediterranean Plants 3 pieces

14024 Palms 3 pieces





14031 Flowers in Pots 9 flower pots

> 14084 Flowers in Pots 9 flower pots



14082 Ornamental Plants in Tubs 9 flower tubs





#### 13215 Tomato Plants 6 plants, 3 cm x 6 cm



# Gardening can be so Easy! Deco Minis

These Deco Minis are small, prefabricated vegetable plots with different plants. Whether tomatoes, cauliflower, white or red cabbage, the Deco Minis allow you to »conjure up« realistic flower beds and allotments at the drop of a hat. Just remove the Deco Minis from its packaging and stick it in the appropriate spot on your model landscape.











HO 13217 White Cabbage 16 plants, 3 cm x 6 cm





13218 Red Cabbage 16 plants, 3 cm x 6 cm



HO 13219 Pumpkin 8 plants, 3 cm x 6 cm





### Super Realistic Miniature Plants! Laser-Cut minis +

Laser-Cut minis + are a top innovation in model landscaping. They make designing realistic scenes even easier! The highly filigree plants are laser cut, then elaborately formed by hand and additionally refined in part with



flower flock. The Laser-Cut minis + are available in two versions: either in a practical »DIY planting« blister pack or ready-planted in flowerpots or flower tubs.



14050 Flower Garden 17 plants (lily, red foxglove, sage, roses, blossom flowers)



14052 Water- and Riverside Plants 17 plants (pickerelweed, butter bur, water lilies, wild rye, reed)



14054 Garden Plot 17 plants (lemon balm, lavender, rhubarb, leek, zucchini)



14056 Field plants and Wild flowers 17 plants (poppy, fern, stinging nettles, blossom flowers, broom)

#### It's so easy to work with Laser-Cut minis +

#### The advantages at a glance:

- · Completely »ready-to-plant« mini plants
- · Super realistic thanks to laser cutting and flocking
- · Elaborately flocked by hand



Remove the Laser-Cut minis + Plants from the packaging,...



prepare them with a drop of glue...



and insert them into your model landscape!



# Pure Realism in Miniature!





NOCH Laser-Cut minis are a series of small, realistic laser-cut plants and laser-cut kits. The miniature plants are laser-cut from sturdy, multicoloured, printed special paper. The readers of »Eisenbahn Magazin« (a German model railway magazine), named this innovation Model of the Year in 2009. Since then, the Laser-Cut minis have been developed further and made even more delicate, so the finest details and structures are visible. Due to the composition of the special paper, they are very stable and malleable at the same time. In addition, they do without the artificial shine of plastic products. It doesn't get more natural!

The Laser-Cut minis kits are highly detailed models at a low price. They liven up the scenery and have a place on every model landscape. You'll find more kits from page 191 onwards in this catalogue.



In many specialist shops, the Laser-Cut minis are presented on an attractive stand.

#### Laser-Cut minis Plants



HO 14100 Fern 9 plants

N 14606 Fern 18 plants



HO 14102 Reed 16 plants

N **14608 Reed** 16 plants



14104 Water Smartweed
20 plants



14107 Vegetable Garden Set 6 leeks, 5 courgettes, 15 turnips



14109 Orchard Set 6 rhubarbs, 24 strawberries 4 virginia creepers



14114 Lotus Flower Total length appox. 60 cm<sup>2</sup>



14118 Rambler Roses 6 plants



14132 Virginia Creeper 12 plants



14138 Stinging Nettle 10 plants



14140 Water Lilies 18 plants



14200 Bean Supports 4 wooden frames with leaf foliage

14604 Bean Supports

6 wooden frames with leaf foliage



#### Craft Tip: Laser-Cut minis

Usage is very simple: the Laser-Cut minis are shaped by hand and fixed onto the model landscape with a drop of standard commercial glue. The finished mini plants can also be stuck in flowerpots and tubs. This creates unique flower configurations for village squares and buildings. The Flowerpots (ref. 14886), which can be found on page 260, are ideally suited to this.



The plant is peeled out of the backing paper...



then carefully moulded into the desired shape by hand...



and secured in the model landscape with a drop of glue.



Alternatively, the plants can be glued into flowerpots.

#### Laser-Cut minis Kits









14229 Pergola

5 elements each approx. 2.5 cm wide 3.2 cm high

14230 Timber Fence 42 cm, 1.5 cm high









2 pieces, 1.8 x 2 cm, 2.7 cm high

**14436** Outhouse 2 pieces, 1.3 x 1.5 cm, 2 cm high

14636 Outhouse 2 pieces, 1 x 1.1 cm, 1.5 cm high



5.4 x 5.2 cm, 3.3 cm high

14435 Garden Plot Shed  $3.9 \times 3.8 \, \mathrm{cm}, \, 2.4 \, \mathrm{cm} \, \mathrm{high}$ 

14635 Garden Plot Shed 2.9 x 2.8 cm, 1.8 cm high







Huge hay bales can be seen in the fields during harvesting. Perfect companion to the Nature + Cornfield from NOCH (ref. 07421).





# The Ideal Basis when Becoming a Model Railway Hobbyist



#### **NOCH Grass and Ballast Mats**

Here, you will be "spoilt for choice" with five different shades of green and many different dimensions.

For the Ballast Mats, you have a choice between the »Grey« and »Beige« variants. A solid, heavy-duty special paper forms the underlay of the densely flocked, decidedly natural-looking mats with vertical grass fibres.

1 00020 Grass Mat »Spring Meadow« 300 x 100 cm

1 00290 Grass Mat »Spring Meadow« 200 x 120 cm

1 00010 Grass Mat »Spring Meadow« 200 x 100 cm

1 00260 Grass Mat »Spring Meadow« 120 x 60 cm

2 00012 Grass Mat »Summer Meadow« 200 x 100 cm

**2 00280 Grass Mat »Summer Meadow«** 120 x 60 cm

3 00013 Grass Mat »Meadow« 200 x 100 cm

3 00265 Grass Mat »Meadow«

4 00011 Grass Mat »Flower Meadow« 200 x 100 cm

**4 00270 Grass Mat »Flower Meadow«** 120 x 60 cm

5 00230 Grass Mat dark green, 120 x 60 cm, ideal for the christmas manger

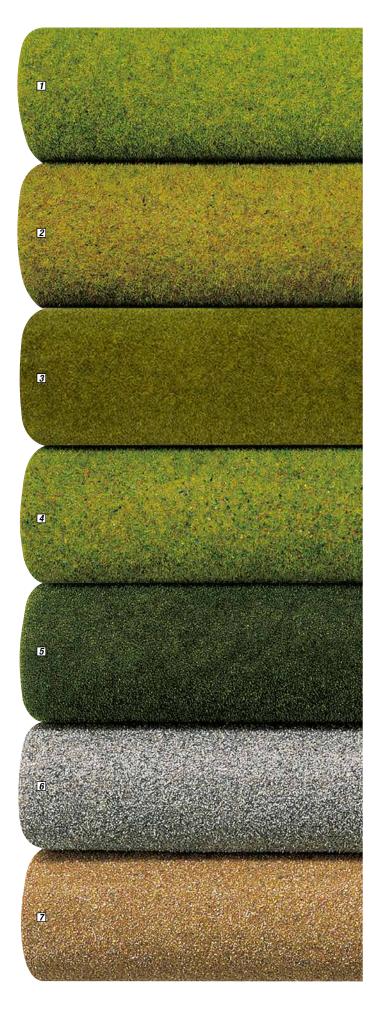
**6 00080 Gravel Mat** grey, 120 x 60 cm

7 00090 Gravel Mat beige, 120 x 60 cm



You can work on the mats as a whole or cut into smaller pieces. The grass mat can simply be glued on with NOCH Spray Glue »Haftfix« (ref. 61151).

The glue used on the mats is water-soluble. If you carefully moisten the grass with a brush, you can scrape off the fibres after a few minutes and then design streams and paths.















# Practical and Organised

#### Presentation solutions for traders

#### **Grass Mats Display**



71190 Grass Mats display, empty

the ideal presentation solution for all NOCH grass mats

dimensions: 32 x 32 cm, 47 cm high

## Traders' Display



**71205** Traders' Display for NOCH Products, empty e. g. for NOCH containers 58 cm x 44 cm, 170 cm high

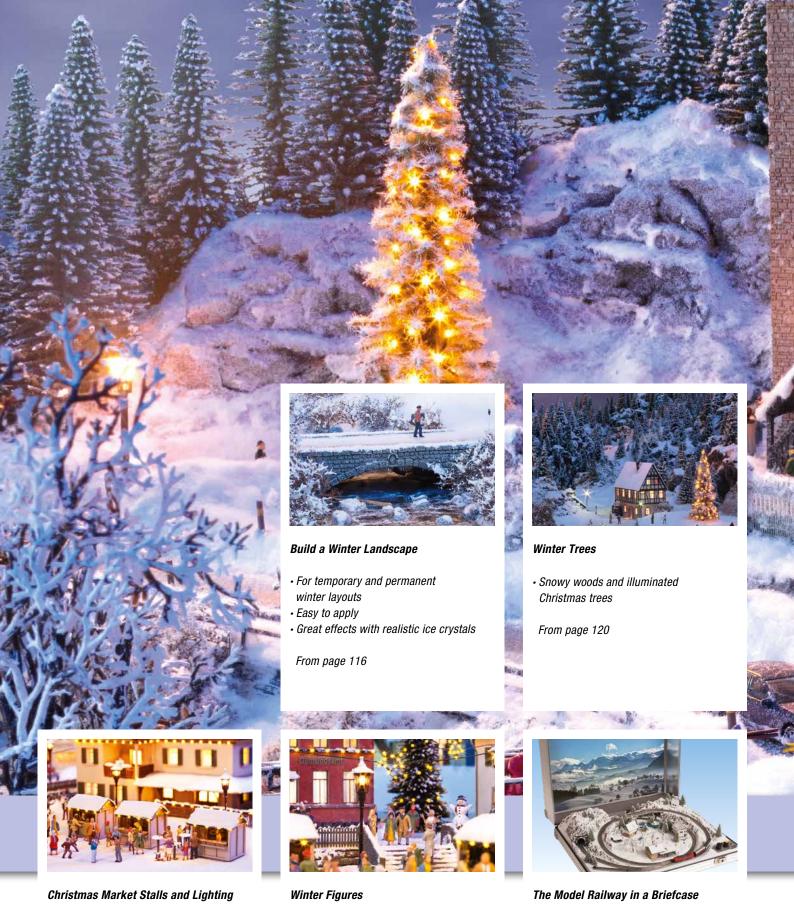
#### Mini Grass Mats

Mini Grass Mats for adding greenery to small areas: simply cut and stick on. Handling and use like for the large mats (see craft tip on the opposite page).



**76715** Assortment of 60 Mini Grass Mats farblich sortiert

**00005 MiniGrass Mat** 45 cm x 30 cm



- High-quality Laser-Cut Kits
- LED lighting ensuring a romantic atmosphere

From page 122

- Large assortment of winter figures and scenes
- Popular gift idea: Figures Advent Calendars

From page 124

 Lovingly decorated and hand-painted briefcase layout made of high-grade NOCH hard foam in an aluminium case

Page 125

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# Winter

#### A Green Christmas? Not with Us!

When the first flakes of snow dance through the air towards the end of the year, it is not only children's eyes that light up... Winters have to be white – that just goes with the territory in our neck of the woods. Many model railway fans do not want to forgo ice crystals and snowflakes on their layouts and devote themselves to long evenings of lovingly

designing a winter landscape. To make your landscape look as natural as possible, NOCH offers a wide range of products specifically catered to this cold, white season. Guaranteed to warm your heart!

*Winter* 114 / 115

## Build a Winter Landscape

#### Start Set Snowflakes

In the Start Set Snowflakes, you'll find everything you need to make a quick start in designing a winter landscape: 50 g of Snow Glue, a Puffer Bottle and 25 g of Snowflakes. Application is super easy: first, the area to be covered with snow is pasted with snow glue. Then, half fill the puffer bottle with snowflakes. By shaking the puffer bottle, the 1 mmlong snowflakes are electrostatically charged and then »blown« onto the snow glue by pressing down on the puffer bottle. This creates a magical, velvety soft blanket of snow that looks like freshly fallen powdered snow.



07065 Start Set Snowflakes Puffer Bottle, 50 ml Snow Glue 25 g Snowflakes

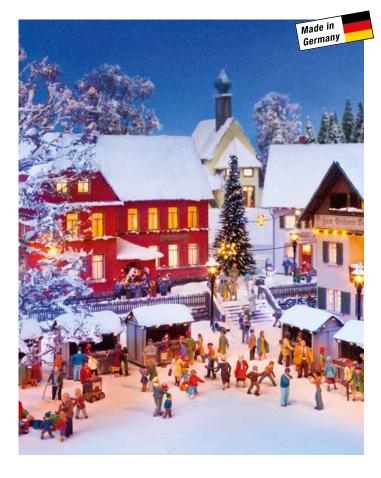
#### Snowflakes

The innovative NOCH Snowflakes are special fibres with a length of only 1 mm, with which you can conjure up fascinating winter landscapes at the drop of a hat.

The area to be covered with snow is first pasted with Snow Glue (ref. 61138). The Snowflakes are then applied with NOCH Gras-Master 2.0 (ref. 60135) or the Puffer Bottle (ref. 08100). As if by magic, a glistening velvety blanket of snow appears, which looks like freshly fallen powdered

The resulting winter idyll can be detailed with NOCH Snow Paste (ref. 08752). If there is no Snow Glue to hand, the Grass Glue (ref. 61130 or 61131) can also be used. However, the landscape to be covered with snow should first be primed in white.

Note: for a snowy landscape of one square metre, approx. 75 g of Snowflakes and 500 g of Snow or Grass Glue are required.



#### Snow Glue

Snow Glue is perfect for applying NOCH Snowflakes. It dries white, eliminating the need to prime the substrate before applying snow.



08760 Snowflakes 75 g



61138 Snow Glue 250 g



#### Craft Tip: Electrostatic application of snowflakes

The short 1 mm snowflakes can be electrostatically applied with the Gras-Master 2.0 (ref. 60135) or the Puffer Bottle (ref. 08100).



The surface is pasted with Snow Glue.

Snowflakes are then applied with the finest sieve of Gras-Master 2.0...



or the NOCH Puffer Bottle.

As a result, they stand upright on the areas already coated with snow glue and

thus give the impression of freshly fallen snow.



## Create Your Own Winter Wonderland!

#### Snow Paste

Snow Paste enchants objects and landscapes into a true winter wonderland. The shimmering silky paste is applied with a spatula or paintbrush and dries after only 2 to 3 hours. The Snow Paste can even be modelled by hand, to reproduce snow mounds or snowdrifts or snowmen, for instance. If the paste is diluted with water, it can be ideally applied to trees and bushes. In order to cover the roofs of houses or very smooth surfaces with snow, we recommend that a thin layer of NOCH Snow Glue (ref. 61138) be applied first.

The Snow Paste is used after the Snow Glue has dried. The combination of NOCH Snow Paste and NOCH Snowflakes transforms your model into a fairytale winter landscape. Try it out!



08752 Snow Paste





#### Winter Set

The NOCH Winter Set contains everything necessary for building a wintery landscape. The shimmering silky snow paste can easily be applied with a spatula or paintbrush onto the landscape, roofs of houses, trees and vehicles. It even lends itself to modelling by hand; for example, for creating a snowman or heaps of snow.

Ice sheets on lakes or on roads can be portrayed with NOCH Ice Crystals. This can be applied with a spatula or bristle brush and moulded to the desired thickness.

To make the winter landscape perfect right down to the details, roof overhangs can be decorated with NOCH lcicles. These can be attached to the model directly from the tube: simply hold it underneath and squeeze out the milky substance while simultaneously pulling the tube away. In this way, you can control the length and thickness of the icicles. The icicles dry crystal clear and hard (see page 119).



08758 Winter Set
120 ml Snow Paste, 10 ml Ice Crystals
10 ml Icicles, 1 spatula



Craft Tip: Create wintery landscapes with the NOCH Winter Set



The Snow Paste is applied with a spatula or paintbrush onto the landscape.



The Ice Crystals provide frozen waters for wintery effects.



lcicles can be applied to roofs straight from the tube.

# Play with Jack Frost! Ice Crystals

Freezing at room temperature? Not a problem with NOCH Ice Crystals! It can be applied to a frozen lake or pond, roads or windows, straight from the tube and then worked on with a paintbrush.

The Ice Crystals harden after about two to three hours. The result is a beautiful, crystal-clear, glittering icy surface.



**08754** Ice Crystals 30 g



The Ice Crystals are squeezed out of the practical tube and spread around with a fine paintbrush.







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#### **Icicles**

You can design stylish and unique icicles (e.g. on roofs, projections or bridges) at the drop of a hat with NOCH Icicles.

The lcicles mixture is applied onto the surface to be decorated straight from the tube and hardens crystal-clear after two to three hours.

Modelling is very simple: hold the tube underneath a gutter, for example; then gently squeeze while simultaneously pulling the tube downwards. This allows you to customise your icicles to the thickness and length of your liking.

Particularly impressive shapes arise when the tube is also rotated in a spiral during this process.



**08756 Icicles** 



The lcicles tube is placed directly on the roof overhang...



and gently squeeze out the contents of the tube while pulling it down.



The resulting icicles dry out crystal clear after a couple of hours.



#### **Powdery Snow**

You can create a fascinating winter landscape on your model railway layout with NOCH Powdery Snow. How it completely changes the atmosphere of your model landscape will be sure to inspire you! An advantage of the Powdery Snow is that you can design an excellent temporary winter atmosphere. The special white, glittering powder is water-repellent and can be removed from your layout with a hoover, leaving no residue.

If you'd like your model landscape to be permanently snowy, use NOCH Spray & Fix Adhesive (ref. 61152).



#### 08750 Snow Powder

glittering, white powder for reproducing winter landscapes, for sprinkling 200 g package

#### Winter Trees

#### Illuminated Christmas Trees

The Christmas Tree is the star of any Christmas celebration. Whether it's a small tree in the living room or a large tree in the middle of the market square at a Christmas market, the Christmas spirit is awakened as soon as the lights come on. The Christmas Trees are equipped with warm white LEDs, which radiate pleasantly warm light, similar to a string of fairy lights with lightbulbs.

By the way: the gauges that we give to the trees are only recommendations. You can also use the small tree for 0 gauge or set up the large one on a city square in N gauge. Let your imagination run wild!

The connection is made to the light output of a standard 16 V model railway transformer. Suitable for AC or DC power supply. Alternatively, operation is possible via a power supply unit (e.g. ref. 88172, page 309).





22110 Iluminated Christmas Tree snowy, with 10 LEDs, 5 cm high



22120 Iluminated Christmas Tree snowy, with 20 LEDs, 8 cm high



22130 Iluminated Christmas Tree snowy, with 30 LEDs, 12 cm high

#### PROFI Snowy Fir Trees

PROFI Snowy Fir Trees are ideal for the demanding modeller of wintery scenes. Every pack contains two elaborately handcrafted trees.





21965 Snowy Fir Trees 2 pieces, 16 and 18 cm high







21966 Snowy Fir Trees 2 pieces, 18 and 20 cm high







#### PROFI Tree Structures

Many passionate modellers have expressed a desire for the NOCH range to include large trees without leaf foliage.

The possible uses of these Tree Structures are very diverse. On the one hand, you can make your own beautiful model trees out of the »naked« trees. On the other hand, they are also the ideal template for splendid winter trees (see craft tip on page 138).



TT N 22010 Tree Structure

»Beech Tree« 13 cm high





N 22020 Tree Structure »Lime Tree« 18.5 cm high

Note: the full range of trees can be found in the »Trees and Bushes« chapter.











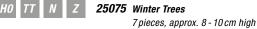


#### Classic Winter Trees

With the Classic Winter Trees, you can design enchanting winter wonderlands and snowy forests on amazing dioramas.









HO TT N Z **25087 Snowy Fir Trees** 7 pieces, approx. 8 - 12 cm high

HO TT N Z 25234 Snowy Fir Trees
3 pieces, approx. 8 - 12 cm high



### Snowy Fir Trees

Pack and Economy Pack with 5, 10 or 25 beautifully snowy trees of different heights.

- In different sizes and shapes
- · With realistic, irregularly cut branch tips
- · Coloured wintery white
- · With realistic roots



Snowy Fir Trees								
Ref.	Description	Height in cm	Qty.	Gauge				
26828	Snowy Fir Trees	5 – 14	25	HO, TT				
26928	Snowy Fir Trees	5 – 14	10	HO, TT				
26929	Snowy Fir Trees	5 – 9	5	HO, TT				
32828	Snowy Fir Trees	3,5 – 9	25	N, Z				



## Christmas Market

#### Laser-Cut Kit »Christmas Market Stalls«



The Small Buildings Set »Christmas Market Stalls« is perfectly suited to giving NOCH Figures a contemplative pre-Christmas season. Here, mulled wine can be drunk, biscuits eaten and

Christmas tree decorations bought. The kit comprises three typical laser-cut stalls, which bring atmosphere to any winter scene. Includes instructions and special adhesive.



66412 Christmas Market Stalls 3 Laser-Cut Buildings Kits



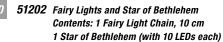


Christmas Market Stall 3.8 x 2.7 cm, 3.4 cm high

#### Fairy Lights and Star of Bethlehem

So that your model figures can indulge in the magic of Christmas, NOCH offers a chain of Fairy Lights as well as a Star of Bethlehem. Both lighting elements are equipped with long-lasting, bright LEDs and can be connected to a model railway transformer (16 V AC or DC). The resistors are already integrated. The set contains Fairy Lights with a length of 10 cm and a Star of Bethlehem with 10 light diodes.









#### Combined Set »At the Christmas Market«



The Combined Set »At the Christmas Market« , consisting of a Christmas Market Stall and a Fairy Light Chain of 10 cm in length and with 10 light diodes, perfectly sets the stage for your Christmas market and ensures the eyes of big and small children glow.

The laser-cut kit is designed in the usual high-quality. The fairy lights are equipped with LEDs and integrated resistors and can be connected directly to a model railway transformer (16 V AC or DC).



65610 Combined Set »At the Christmas Market«

1 Laser-Cut Building Kit »Christmas Market Stall« 3.8 x 2.7 cm, 3.4 cm high 1 Fairy Light Chain, 10 cm long



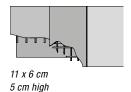






#### Scenery Set »Christmas Manger«

The depiction of Holy Night with baby Jesus, Mary, Joseph and accompanying animals, is probably one of the oldest ever modelling subjects. The Scenery Set is not just suitable for railway modellers, however. With the enclosed accessories, the Manger is also ideal for hobbyists and diorama builders.



HO 6

#### 65620 Scenery Set »Christmas Manger«

Laser-Cut Kit »Christmas Manger«, 11 x 6 cm, 5 cm high »Crib Figures« (ref. 15922, 11 figures) Scatter Material brown, 42 g (ref. 08440) 20 Grass Tufts, green Mini Grass Mats, green 28 x 22 cm

**Note:** the laser-cut kit is accompanied by detailed instructions and suitable Laser-Cut Special Adhesive.







HO

14394 Christmas Market Manger with Figures in Wood Look

7.5 x 3.5 cm, 3.5 cm high, incl. 8 figures





14482 Christmas Market Stall 6x4cm, 3cm high

**14682 Christmas Market Stall** 4.5 x 3 cm, 2 cm high



HO 14393 Mulled Wine Stall 5x5cm, 4cm high

77 14483 Mulled Wine Stall 4x4cm, 3cm high

14683 Mulled Wine Stall 3x3cm, 2.5cm high



14395 Christmas Market Pyramid 4.5x4.5cm, 9cm high NEW

NEW

NEW

# Winter Figures







45819 Children in Snow



36819 Children in Snow





15826 Snowboarders



15827 Skiers



15828 Skiers





15920 Santa Claus and Angels



15829 Skiers





15926 Christmas market

36926 Christmas Market





15928 Winter work



15930 Family Meier in Wintertime





#### Model Figures Advent Calendar

Despite all the mince pies and chocolate, you can watch your figure with our Advent Calendar! Behind the doors are lovingly designed NOCH Figures waiting to be placed on your model landscape - a great gift for every railway modeller!

The Advent Calendar comes in A3 format.



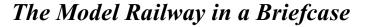
15991 Figures Advent Calendar 28 figures



45991 Figures Advent Calendar 28 figures



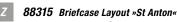
36991 Figures Advent Calendar 28 figures

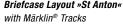


Never miss your beloved hobby, when travelling. Packed safely and suitably for travel, the model railway is fully functional in its briefcase. The briefcase layouts are made of high-grade NOCH hard foam, hand-painted and lovingly decorated.



The small Z gauge winter layout impresses with its thrilling route over a bridge and through a tunnel. The four houses and Christmas tree are illuminated on the romantic, snowy layout. The Z gauge layout can be operated either with a 9 V block battery or with the enclosed power supply unit.







88316 Briefcase Layout »St Anton« with Rokuhan® Tracks



Further information and models can be found in the »Model Railway in a Briefcase« chapter starting on page 304.





#### **Paints**

- Ideal for weathering: Weathering Powder and Rust Paint
- For painting landscapes:
   Natural Paints Set and Landscaping Paints

From page 128

#### Glues

• Here, you will find the optimal solution for every application

From page 130

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# Paints and Glues

### Achieving a Realistic-Looking Slice of Nature all Depends on Getting the Colour Right

Paints and glues play an important role in modelling in general, and landscaping in particular. You can realistically age models and colour landscapes with paints of the NOCH range.

You will surely find the right product for every application in our large selection of glues.

# From New to Old!

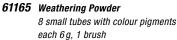
#### Weathering Powder

Weathering Powder makes shiny plastic surfaces »disappear«, giving them a naturally aged appearance.

The Weathering Powder includes eight different colours, with which you can weather bridges, houses, vehicles, locos, wagons or portals. It is also perfect for working on aircraft, tank or ship assembly sets.











Ash

Brick



Sand

Lichen



Dust

Cement

人打造

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#### Craft Tip: Weathering Powder

- To better fix the colour pigments, first spray a thin layer of Spray & Fix Adhesive (ref. 61152) onto the object that is to be coated with Weathering Powder.
- Next, mix the dry colour pigments until the desired shade is achieved.
- Pick up the dry colour pigments with the enclosed paintbrush and »dab« them onto the surface to be weathered.

• Seal the weathered surface by reapplying a thin layer of Spray & Fix Adhesive. More information on the Spray & Fix Adhesive can be found on page 130.









# Growing Old Gracefully! Rust Paint

NOCH Rust Paint gives all models – irrespective of the material – a rusty appearance in next to no time. Its usage is incredibly simple. Spray the

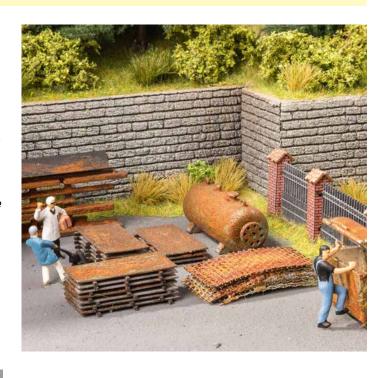
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product with NOCH Spray & Fix Adhesive (ref. 61152), then apply the extra fine iron base and oxidation substance. Chemistry takes care of the rest: after one to two hours, the treated material is already covered by a rusty surface, which is finally sealed by spraying it once more with Spray & Fix Adhesive.

61162 Rust Paint

10 ml oxidation medium 20 ml iron base extra fine







#### Nature Paints Set

NOCH Nature Paints are perfectly matched to the earthy and natural shades of rocks. The Nature Paints Set contains 20 ml of highly-concentrated paint in each of the six different shades: beige, ochre, olive, earth brown, grey and black. The paints are diluted with water before use and applied with the enclosed sponge spatula or the Landscaping Spray Bottle (ref. 61140). This allows you to add nuanced shades to your rocks or paint your ground before flocking.



61200 Nature Paints Set, 6 colour concentrates each 20 ml, 1 mixing cup, 1 sponge spatula

#### Landscaping Paints

With our large range of Landscaping Paints (also available as Acrylic Sprays), you can achieve a realistic colour scheme for your model landscape. The matt paints are recommended for adding colour to walls, portals, rocks and mountain ranges, or for priming the ground before flocking. Thanks to the practical Micro Paint Roller, you can also

create outstanding paths and squares. The high-quality matt Acrylic Paints are suitable for use on all materials – including polystyrene. The paints are weatherproof, quick-drying and provide good coverage.



Matt Acrylic Sprays			Matt Acrylic Paints			Characteristics
Ref.	Colour	Vol.	Ref.	Colour	Vol.	
61170	white	200 ml	61188	blue	90 ml	High-quality matt acrylic paint     In realistic landscape shades     Water-based     Can be diluted with water     Can be mixed with each other     Suitable for all materials     including polystyrene     Suitable for indoor and outdoor use, weatherproof
61171	ivory	200 ml	61189	dark brown	90 ml	
61172	ochre	200 ml	61190	white	90 ml	
61173	brown (like 61193)	200 ml	61191	ivory	90 ml	
61174	light green	200 ml	61192	ochre	90 ml	
61175	dark green	200 ml	61193	brown (like 61173)	90 ml	
61176	grey	200 ml	61194	light green	90 ml	
61177	black	200 ml	61195	dark green	90 ml	
			61196	grey	90 ml	
			61197	black	90 ml	





# You'll be on a Roll with such Smooth Colour Surfaces!

#### Micro Paint Roller

The Micro Paint Roller is ideal for the even and smooth application of paint. The set (packaged in a practical case) contains a paint roller, two spare foam rollers, a paintbrush and two integrated paint trays. The foam rollers are available in triple refill packs.

60142 Micro Paint Roller 2.4 cm wide

**60143** Replacement Micro Paint Roller 2.4 cm wide

# Holding it Together – NOCH Adhesives for any Situation!

- · Landscaping Spray Bottle: all-rounder for adding foliage and flocking
- · Spray & Fix Adhesive: for fixing, sealing and leaving a matt finish
- · Grass Glue: for electrostatic flocking with grass fibres
- · Landscaping Glue: for hard foam, wood, paper or polystyrene
- · Snow Glue: for electrostatic flocking with snowflakes
- · Ballast Glue: for ballast, stones and gravel
- · Spray Adhesive: universal adhesive for modelling and household purposes
- · Latex Adhesive: for cork, wood, rubber, felt or cardboard
- · Laser-Cut Adhesive: for Laser-Cut Kits



#### Landscaping Spray Bottle & Landscaping Spray Glue

Landsaping Spray Glue is a real all-rounder as it is very versatile. **Usage 1, "glueing":** to apply foliage to bushes, trees and shrubs, the tree structure is moistened with the Spray Glue and then leaves, flock or structured flock are sprinkled on. Once dry, the tree is once more sprayed with Spray Glue to fix the foliage.

**Usage 2, "fixing«:** loosely apply the material to be fixed (gravel, ballast, flock, etc.) and then spray it on with Landscaping Spray Glue. Once dry, additional layers can be scattered over the object and fixed on to achieve more volume.

61140 Landscaping Spray Bottle empty

Usage 3, "sealing": spray the Landscaping Spray Glue onto the prepared object (e.g. flocked trees, bushes or ready-made vegetation). This increases their durability and stability. The Spray Glue is premixed and is transparent when dry. The Landscaping Spray Bottle spray head fits onto the Spray Glue Bottle.



**61141 Landscaping Spray Glue** 250 g, ready-for-use



#### Spray & Fix Adhesive

NOCH Spray & Fix Adhesive is a real all-rounder: leaving a matt finish, fixing and sealing – these are this innovative product's strengths.

Leave a matt finish on shiny plastic surfaces.

**Fix** flocking, foliage and other flocking material after applying a thin layer of Spray & Fix Adhesive on the model landscape.

**Seal** in painted or weathered surfaces. In addition, the Spray & Fix Adhesive is an ideal assistant when weathering models.

#### How to weather models:

- First, squirt a thin layer of Spray & Fix Adhesive onto the object.
- Then apply NOCH Weathering Powder (ref. 61165).
- Finally, fix the colour pigments by applying another thin layer of Spray & Fix Adhesive.

61152 Spray & Fix Adhesive 200 ml



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#### Grass Glue

NOCH Grass Glue was specially developed for electrostatic flocking. In comparison to normal white glue, its surface tension is low and it binds more slowly. Advantages: NOCH Grass Glue dries slower than conventional glue, giving you more time to flock a surface.



# 61130 Grass Glue 61131 Grass Glue XL

#### Landscaping Glue

The all-purpose Landscaping Glue is the ideal companion to all handicrafts. It quickly and securely glues wood, paper, polystyrene, hard foam (polyurethane) and plastics. It is therefore ideal for sticking on building models, trees, portals and walls, and for connecting various craft materials. The water-based Landscaping Glue comes in a practical bottle with a needle tip and is binding within approx. two hours.

61133 Scenery Glue 127 a



#### Snow Glue

NOCH Snow Glue is perfect for applying NOCH Snowflakes (ref. 08760). Advantages: dries white, eliminating the need to prime the substrate before applying snow.



61138 Snow Glue 250 a

#### Ballast Glue

The Ballast Glue is ideal for applying ballast. Thanks to the nozzle, you can also easily reach less accessible spots. Usage: spread the loose ballast between the sleepers and then drizzle on the Ballast Glue.

61134 Ballast Glue 130 a



#### Spray Glue »Haftfix«

This all-purpose Spray Glue is suitable for all kinds of glueing work - for modelling as well as in the home.





#### Latex Adhesive

NOCH Latex Adhesive is a viscous glue paste with a wide range of applications. The milky-white glue emulsion can be applied directly from the dispenser bottle with a brush or putty knife onto cork, wood, rubber, felt, cardboard and textiles. The Latex Adhesive is ideal for glueing down NOCH Cork Track Beds.

The non-toxic adhesive is also suitable for glueing together rails and railway lines to ensure sound insulation. The rail can be ballasted at the same time.

61135 Latex Adhesive 125 a



#### Laser-Cut Adhesive

NOCH Laser-Cut Adhesive is perfect for building high-grade model Laser-Cut Kits. The adhesive is very easy to apply in exact doses thanks to its tip. Even the smallest of parts can therefore be stuck together cleanly. When glueing larger surfaces together, it is recommended that the adhesive is spread with a paintbrush. Its special formula ensures a strong, long-lasting bond.



61104 Laser-Cut Adhesive



Action on your layout: the micro-motion spruce falls realistically like a real tree thanks to a servo motor and push button.

Page 145

- The classic model tree
- · Flocked with high-grade flock
- Sold individually or as a set in an attractive gift pack

From page 149

- The budget tree in a bulk pack
- · Ideal for foresting large areas
- · Available as a deciduous or coniferous tree
- · Quality improvement through new flocking of the trees

From page 155



# Trees and Bushes

#### Forest Your Model Landscape – with NOCH Trees of all Kinds and in all Sizes

Trees are an indispensable part of a charming model landscape. They liven up the scenery, introduce colour accents and lend every model railway layout a very special, unmistakable atmosphere. We offer a large assortment of trees in all sizes – just like the originals.

In addition, you can choose from various series. Top quality PROFI Trees or inexpensive Hobby Trees – there is something for everyone!



#### **Nature Trees**

These Nature Trees are — as the name suggests — totally natural products. Every tree is unique. The very differently grown Sea Foam Nature Trees are between 4 cm and 20 cm high and give each layout a particularly high degree of realism.

You can integrate the Nature Trees naturally in your layout or flock them with NOCH Flock or NOCH Leaf Foliage. The pictures below show you how

easily this is done. The sea foam for the Nature Trees is cultivated in special plantations and gently harvested.

**Note:** the contents are enough for approx. 15 to 30 trees or bushes (depending on height).





23100 Nature Trees



First, the Natural Tree is sprayed with NOCH Haftfix Spray Glue (ref. 61151) or NOCH Landscaping Spray Glue (ref. 61141) ...



and then flocked with Flock or Leaf Foliage from our PROFI Series.



The result: a finished Natural Tree with foliage!

Note: ideal for flocking NOCH Nature Trees:



61140 Landscaping Spray Bottle

**61141 Landscaping Spray Glue** 250 g, ready-for-use



61151 Spray Glue »Haftfix« 400 ml

Further information on glues can be found from page 130 onwards.



07142 Leaves light green, 50 g bag



07144 Leaves medium green, 50 g bag

#### Leaf Foliage and Leaf Foliage Sets

NOCH Leaf Foliage is a very finely-cut, special material for adding foliage. The individual leaves have a real leafy shape. The Leaf Foliage is perfectly suited for flocking NOCH Nature Trees (ref. 23100 - see crafting pictures, below left). Spray the trees with NOCH Haftfix Spray Glue (ref. 61151) or NOCH Landscaping Spray Glue (ref. 61141) and scatter on the leaves with the PROFI Shaker (ref. 08099).



07167 Leaf Foliage Set olive, light green medium-green, dark green



07146 Leaves dark green, 50 g bag



07168 Leaf Foliage Set Autumn yellow, red, redbrown orange-brown

Note: Light and Medium Green Leaf Foliage Packs are also available in practical tubs. You'll find further information on page 98.

#### PROFI Shaker

Small tub, big effects: perfectly suitable for sprinkling on leaf foliage without lumps. With a practical filter and scatter insert.









The templates can be realistically flocked with leaves. Leaf Foliage is included in the set. The resulting bushes look very realistic and can be planted on the rail embankment. Use small sea foam parts as dried ground cover and decorate the stronger ones as branches.



#### **Embankment Vegetation**

Design realistic embankment vegetation made of sea foam. A natural product with amazing properties: no structure is like the other.

Small, broken structures can be used as dried up or dead ground cover, as found on every rail embankment. Stronger sea foam pieces can be decorated as broken up branches, as desired.

Larger, fuller sea foam structures can simply have extra foliage added to them with the flock material enclosed in the set. This creates extremely realistic bushes. A DVD with detailed craft tips is also included in the set.

#### Contents:

- Tree structures for approx. 40-50 bushes or small trees (depending on height)
- 25 g of Light Green Leaf Foliage
- 25 g of Medium Green Leaf Foliage
- DVD with detailed craft tips (German & English)



23102 Embankment Vegetation

# Quality to Meet the Highest Demands

#### **NOCH PROFI Trees**

Since 2010, we have been producing our model trees in our own factory in Vietnam. The trees are lovingly made by hand there. This made it possible to further improve the quality of our well-known PROFI Trees.

- The trunks of the trees are painstakingly painted by hand with matt paint, so that no shiny plastic surfaces are to be seen.
- To give the tree more volume, a fine web is incorporated into the branches before they are flocked.
- High-grade NOCH Leaf Foliage is used as flock. The specially ground and elaborately painted material resembles the leaves of the original trees in both shape and colour.
- As in nature, only the fine branches of NOCH Model Trees bear leaves.

  The thick branches are left out during the elaborate hand flocking stage.

  The NOCH PROFI Trees Series meets the highest standards of quality and realism. See for yourself!



Thanks to the sizing scale on the packaging, you can easily see how tall the respective tree will be in your gauge.

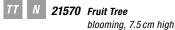


HO TT N 21550 Fruit Tree green, 7.5 cm high



HO TT N 21560 Apple Tree with fruits 7.5 cm high







HO TT N 21600 Pear Tree green, 11.5cm high



HO TT N 21640 Birch Tree

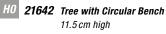


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HO TT N 21650 Rowan Tree with Berries
11.5 cm high



HO TT N **21660 Acacia** 15 cm high



70 77 N 21690 Beech 13 cm high



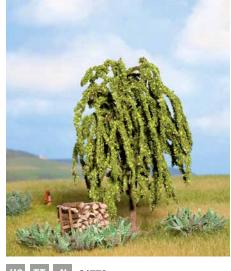
HO TT N 21730 Copper Beech 13 cm high



Thanks to the sizing scale on the packaging, you can easily see how tall the respective tree will be in your gauge.



N 21760 Oak 15 cm high



N 21770 Weeping Willow 11 cm high



21780 Lime Tree 18.5 cm high



21800 Chestnut Tree 19 cm high

#### **PROFI Tree Structures**

Many passionate modellers have expressed a desire for the NOCH range to include large trees without leaf foliage. The possible uses of these Tree Structures are very diverse. On the one hand, you can make your own beautiful model trees out of the »naked« trees. On the other hand, they are also the ideal template for splendid winter trees.





HO TT N 22010 Tree Structure »Beech Tree« 13 cm high





0 H0 TT N 22020 Tree Structure »Lime Tree« 18.5 cm high





The Tree Structure is coated with NOCH Snow Paste.



Leave to dry and the impressive winter tree is done.



## Childhood Dreams Come True ...

#### Tree with Tree house



This mighty oak with its lovingly designed Tree house is a very special eyecatcher on any model landscape. The tree house is a ready-made laser-cut building model.





HO 21765 Tree with Tree House 15 cm high

**Note:** figures are not supplied. We recommend Playing Children (ref. 15810) or Children (ref. 15815).

# Wow, They're Huge!

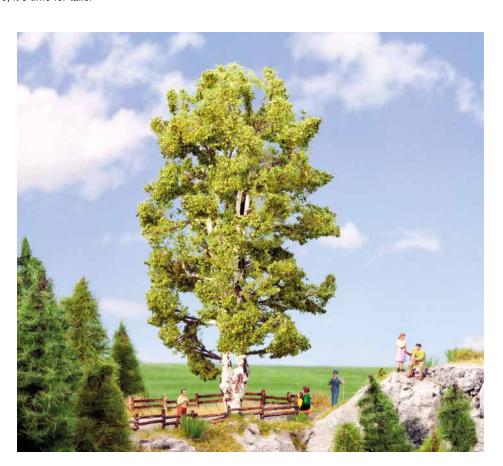
### Extra large PROFI Trees

Did you know that birch trees can grow up to 30 metres high and lime trees even up to 40 metres? A birch tree would then be up to 34 cm high in HO gauge; a lime tree would be up to even 50 cm. Even if that would be a bit too much for a standard model landscape, it's time for taller

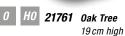
trees! Because with these especially impressive standalone specimens, beautiful model scenes can be realised. Four typically solitary trees are at your disposal here: Birch, Lime, Oak and Chestnut.

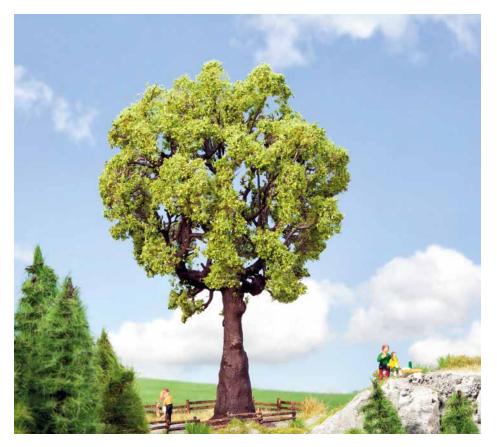
















0 H0 21781 Lime Tree 18.5 cm high





0 H0 21802 Chestnut Tree 18.5 cm high

### PROFI Fir Trees, Spruce Trees and Pine Trees

In keeping with our motto, »NOCH... like the original«, the PROFI Trees Series places the highest demands on true-to-nature models. With the high-grade Fir Trees, Spruce Trees and Pine Trees, we offer individual trees in outstanding quality. See for yourself.



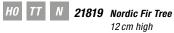






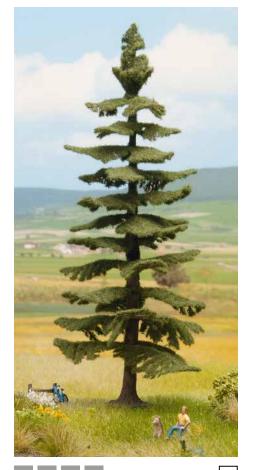
HO TT N 21914 Pine Tree 15 cm high







HO TT N 21823 Nordic Fir Tree 14.5 cm high

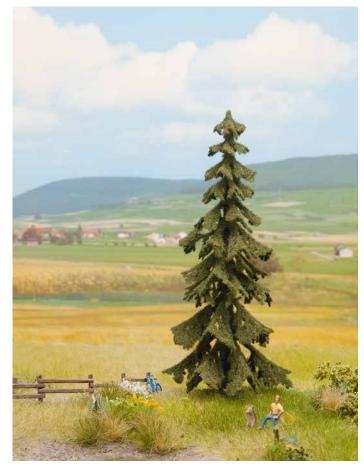


0 H0 TT N 21824 Nordic Fir Tree 18.5 cm high



NEW





**21919** Spruce Tree 10.5 cm high

NEW

N 21922 Spruce Tree 14.5 cm high





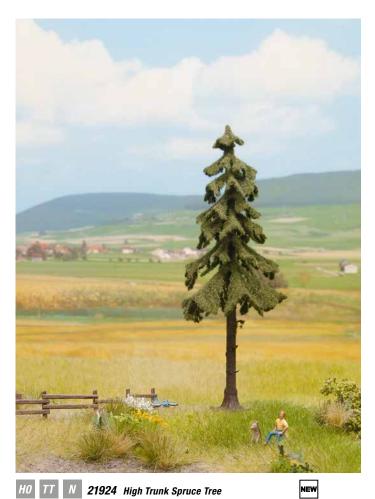




HO TT N 21833 Spruce Tree 14.5 cm high



21834 Spruce Tree 18.5 cm high





## **PROFI Snowy Fir Trees**

PROFI Snowy Fir Trees are ideal for the demanding modeller of winter scenes. Every pack contains two elaborately handcrafted trees.

14.5 cm high





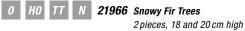




NEW









### »Timber!«

### micro-motion Falling Tree »Spruce Tree«



The micro-motion »Spruce Tree« realistically falls like a real tree. Slowly at first, and then - the more out of balance it gets - faster and faster, until it finally bobs gently onto the ground. The spruce independently rights itself again after approx. eight seconds.

The falling tree comes mounted on a servo, ready for use. The tree's fall is triggered by a push button, which is also





77 21929 micro-motion Falling Tree »Spruce Tree« 17.5 cm high

### **Vines**

The vine leaves are made from the well-known high-grade NOCH Leaf Foliage. Each pack contains 24 vines (six rows of four vines each).







HO TT

TT 21540 Vines 24 Vines, approx. 2.2 cm high

Z 21545 Vines

24 Vines, approx. 1.6 cm high

### **Plantation Trees**

As well as the traditional meadow orchards, fruit plantations are increasingly shaping our landscape. With these Plantation Trees, you can now perfectly reproduce this as a model. The Plantation Trees with Apples also bear small yellowish-red fruits.









HO TT 21530 Plantation Trees
12 pieces, 3.5 cm high

**21535** Plantation Trees 24 pieces, 2 cm high



HO TT 21532 Plantation Trees with Apples
12 pieces, 3.5 cm high

N Z 21537 Plantation Trees with Apples 24 pieces, 2 cm high



TT



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### Mediterranean Trees in the NOCH PROFI Series

For the creation of beaches along the South Pacific or Mediterranean landscapes, you'll find Palm Trees, Olive Trees, Almond Trees, Stone Pine

Trees and Cypresses Trees in the NOCH range. So, you can hold on to that holiday feeling through your model landscape!







0 H0 TT **21971 Palm** 15 cm high

0 H0 TT **21981 Palm** 19 cm high

HO TT N 21997 Pine 11.5 cm high

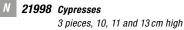


HO TT 21995 Olive Trees 2 pieces, 6 and 9 cm high



0 TT N 21996 Almonds 2 pieces, 8 and 9cm high







### Deep Forests, Tall Treetops

### **PROFI Fir and Spruce Trees**

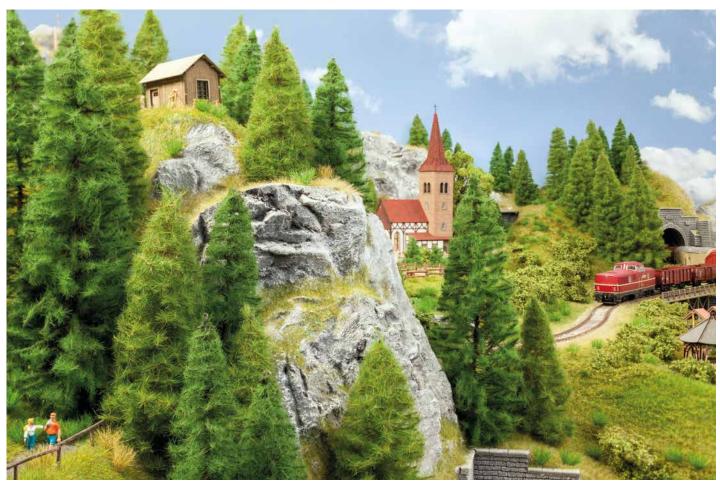
With the Fir Trees and Spruce Trees from the PROFI Series, you can conjure up an impressively dense forest in the blink of an eye. Due to the high-quality flocking with long fibres, the trees look very natural. The model trees are available in two different shades of green and can be easily put into the model landscape thanks to their wire base.





### Info Tip: **Customising Trees**

The trunk of the PROFI Fir and Spruce Trees is made of wire. You can therefore bend the tree. Particularly realistic Fir Trees can be achieved by shaping the branches by hand.





TT N 24500 Fir Trees

dark green, 7 pieces, 7 - 14 cm high

N 24510 Fir Trees

dark green, 40 pieces, 7 - 14 cm high

24520 Fir Trees

dark green, 5 pieces, 14 - 20 cm high

0 HO TT 24530 Fir Trees

dark green, 18 pieces, 14 - 20 cm high



HO TT N 24501 Spruces

medium green, 7 pieces, 7 - 14 cm high

**24511** Spruces

medium green, 40 pieces, 7 - 14 cm high

17 24521 Spruces

medium green, 5 pieces, 14 - 20 cm high

0 HO TT 24531 Spruces

medium green, 18 pieces, 14 - 20 cm high



25110 Fruit Trees

green, 3 pieces, 8 cm high

25510 Fruit Trees

green, 3 pieces, 4.5 cm high



25111 Fruit Trees

white blossom, 3 pieces, 8 cm high

25511 Fruit Trees

white blossom, 3 pieces, 4.5 cm high







25115 Lemon Trees 3 pieces, 4 cm high

### **NOCH Classic Trees**

NOCH Classic Trees are lifelike yet affordable, high-quality model trees with high-grade flock. You can get the trees as an attractive blister pack or individually packed in a plastic bag. The Classic Trees are suitable for displaying on their own or for populating entire forests.





Thanks to the sizing scale on the packaging, you can easily see how tall the respective tree will be in your gauge.



HO TT 25112 Fruit Trees

pink blossom, 3 pieces, 8 cm high



TT N 25114 Orange Trees

3 pieces, 4 cm high



HO TT 25130 Weeping Willows 3 pieces, 8 cm high



25120 Birch Trees

3 pieces, 8 and 10 cm high

25520 Birch Trees

3 pieces, 4.5 cm high



HO 7T 25150 Maples 3 pieces, 9 cm high



**25140 Poplars** 3 pieces, 12 cm high

**25525** Poplars

3 pieces, 5.5 cm high



HO TT 25170 Beech Trees 2 pieces, 13 cm high



77 **25232 Fir Trees** 4 pieces, 8 - 12 cm high

25432 Fir Trees

4 pieces, 4 - 8 cm high



HO TT N Z 25234 Snowy Fir Trees 3 pieces, approx. 8 - 12 cm high



HO TT 25410 Bushes green, 5 pieces, 3 - 4 cm high



HO TT 25420 Bushes in blossom, 5 pieces, 3 - 4 cm high



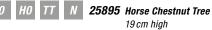




Thanks to the sizing scale on the packaging, you can easily see how tall the respective tree will be in your gauge.









0 H0 TT N 25860 Oak Tree

### NOCH Classic Trees Economy Sets

The Classic Series is where the NOCH Trees range began. With the economy sets, we have now implemented an idea that combines two advantages. Firstly, you benefit from a unique price-performance ratio, because the trees are cheaper in the economy sets than in the 3-pack, for example. Secondly, you send a clear signal about climate change by purchasing the economy set: for every 100 model trees sold, a real tree is planted by the organisation »Plant for the Planet« on our behalf.





HO TT N Z 25070 Autumn Trees
7 pieces, approx. 8 - 10 cm high



HO TT N Z 25075 Winter Trees
7 pieces, approx. 8 - 10 cm high



HO TT N Z **25087 Snowy Fir Trees**7 pieces, approx. 8 - 12 cm high



 HO
 TT
 N
 Z
 25086 Fir Trees

 9 pieces, approx. 8 - 12 cm high



HO TT N Z 25088 Deciduous Trees
7 pieces, approx. 8 cm high

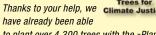
G O HO TT N Z



### Plant for the Planet

»Plant for the Planet« is a school initiative that helps children around the world to appreciate the importance of trees for our climate. The organisation trains children to be climate ambassadors. As well as celebrities and other companies, NOCH has also taken on sponsorship of a climate ambassador. In addition, we donate a real tree to the organisation with every 100 model trees that are sold from this range! This is how NOCH takes responsibility for the environment and climate. You can support us by buying these products and not just planting trees in your model landscape.

»Stop talking - start planting!«



to plant over 4,300 trees with the »Plant for the Planet« campaign. Further information can be found online at: www.plant-for-the-planet.org









HO TT N Z 25090 Fruit Trees

green, 7 pieces, approx. 8 cm high





Z 25092 Fruit Trees

in blossom, 7 pieces, approx. 8 cm high





Z 25096 Birch Trees

7 pieces, approx. 10 cm high





25098 Poplars

7 pieces, approx. 12 cm high

### Classic Tree Assortments

The NOCH Classic Series is the most popular tree series in the NOCH range. The pretty trees are available individually packed, in a practical self-service box. NOCH offers an assortment of deciduous trees and a mixed assortment of deciduous and coniferous trees. Each assortment contains 100 trees.







Plum Tree, green, 8 cm high



Fruit Tree, green, 8 cm high



Fruit Tree, white blossom, 8 cm high



Fruit Tree, pink blossom, 8 cm high



Apple Tree, 8 cm high



Birch Tree, 10 cm high



Weeping Willow Tree, 8 cm high



Poplar Tree, 12 cm high



Sycamore Tree, 9 cm high



Model Fir Tree, 8 cm high



Model Fir Tree, 10 cm high

HO

)

TT

N

Z

# Budget Trees for Great Forests! Hobby Trees

The well-known NOCH Hobby Trees range has been completely reworked and redesigned. Great emphasis was placed on improving quality and a more realistic appearance for reasonable prices.



The result is plain to see: our favourable NOCH Hobby Trees are now even lovelier!



Deciduous Trees					
Ref.	Description	Height in cm	Qty.	Gauge	
26801	Deciduous Trees	5 – 9	25	HO, TT	
26901	Deciduous Trees	5 – 9	10	HO, TT	
26902	Deciduous Trees	5 – 9	5	но, тт	
32801	Deciduous Trees	3.5 – 5	25	N, Z	
32901	Deciduous Trees	3.5 – 5	10	N, Z	

### **Deciduous Trees**

Pack and Economy Pack with 5, 10 or 25 beautifully flocked trees of different heights.

- In various shades of green and in different shapes
- With realistic tree trunks



Spring Trees					
Ref.	Description	Height in cm	Qty.	Gauge	
26806	Spring Trees	5 – 9	25	HO, TT	
26906	Spring Trees	5 – 9	10	HO, TT	

### Spring Trees

Pack and Economy Pack with 10 or 25 beautifully flocked trees of different heights.

- · In various rich spring colours
- · With realistic tree trunks



### **Mixed Forest**

Pack and Economy Pack with 10 or 25 beautifully flocked trees of different heights.

- Set of 25 contains 10 deciduous trees and 15 model fir trees
- Set of 10 contains 4 deciduous trees and 6 model fir trees
- With realistic tree trunks or root bases

Mixed Forest					
Ref.	Description	Height in cm	Qty.	Gauge	
26811	Mixed Forest	5 – 14	25	HO, TT	
26911	Mixed Forest	5 – 14	10	HO, TT	
32811	Mixed Forest	3.5 – 9	25	N, Z	
32911	Mixed Forest	3.5 – 9	10	N, Z	



### Model Fir Trees & Fir Trees with planting pin

Pack and Economy Pack with 5, 10, 25 or 50 beautifully flocked trees of different heights.

- In various sizes and shapes
- Extra high Model Fir Trees available
- · With realistic, irregularly cut branch tips
- Model Fir Trees with realistic root bases
- Fir Trees including planting pin and without root bases



Model Fir Trees and Fir Trees with planting pin					
Ref.	Description	Height in cm	Qty.	Gauge	
26820	Model Fir Trees	5 – 14	25	HO, TT	
26821	Model Fir Trees	5 – 14	50	HO, TT	
26822	Model Fir Trees, extra high	16 – 19	10	HO, TT	
26920	Model Fir Trees	5 – 14	10	HO, TT	
26921	Model Fir Trees	5 – 9	5	HO, TT	
32820	Model Fir Trees	3.5 – 9	25	N, Z	
32920	Model Fir Trees	3.5 – 9	10	N, Z	
26830	Fir Trees with pin	5 – 14	25	HO, TT	
26831	Fir Trees with pin	5 – 14	50	HO, TT	
26930	Fir Trees with pin	5 – 14	10	но, тт	
32830	Fir Trees with pin	3.5 – 9	25	N, Z	

G O HO TT N Z



Model Spruce Trees				
Ref.	Description	Height in cm	Qty.	Gauge
26825	Model Spruce Trees	5 – 14	25	HO, TT
26826	Model Spruce Trees	5 – 14	50	HO, TT
26827	Model Spruce Trees, extra high	16 – 19	10	HO, TT
26925	Model Spruce Trees	5 – 14	10	HO, TT
26926	Model Spruce Trees	5 – 9	5	HO, TT
32825	Model Spruce Trees	3.5 – 9	25	N, Z
32925	Model Spruce Trees	3.5 – 9	10	N, Z

### **Model Spruce Trees**

Pack and Economy Pack with 5, 10, 25 or 50 beautifully flocked trees of different heights.

- In various sizes and shapes
- Extra high model spruce trees available
- · With realistic, irregularly cut branch tips
- True-to-life: light green branch tips
- · With realistic root bases





Snowy Fir Trees					
Ref.	Description	Height in cm	Qty.	Gauge	
26828	Snowy Fir Trees	5 – 14	25	HO, TT	
26928	Snowy Fir Trees	5 – 14	10	HO, TT	
26929	Snowy Fir Trees	5 – 9	5	но, тт	
32828	Snowy Fir Trees	3.5 – 9	25	N, Z	

### Snowy Fir Trees

Pack and Economy Pack with 5, 10 or 25 beautifully snow-dusted trees of different heights.

- In various sizes and shapes
- With realistic, irregularly cut branch tips
- · Coloured wintery white
- · With realistic root bases

**Note:** if your model railway winter is only meant to last a few months (like in real life), sieve some NOCH Snow Powder (ref. 08750) evenly over your landscape. Since NOCH Snow

Powder is made of a special water-repellent material, it does not clump or stick – and it can be easily removed again with a hoover (see »Winter« chapter starting on page 114).

### **Model Hedges**

In both rural and urban settings, hedges play a key role in shaping the street scene – in the real world and in the model world.

That's why we offer an assortment of realistic Model Hedges with highgrade flocked NOCH Leaf Foliage.

Every pack contains two hedges with a length of 50 cm (total length 100 cm). You can use both sizes (1.5  $\times$  0.8 cm and 1  $\times$  0.6 cm) for each gauge (H0, TT and N) — depending on the desired hedge height in proportion to the surroundings.

To illustrate these proportions, the hedges below are shown alongside a pair of H0, TT and N lovers.







HO TT N 21512 Model Hedges green, 2 pieces 1.5 x 0.8 cm,

N 21522 Model Hedges green, 2 pieces 1 x 0.6 cm, each 50 cm long

each 50 cm long



HO TT N 21514 Model Hedges
dark green, 2 pieces
1.5 x 0.8 cm, each 50 cm long

0 TT N 21524 Model Hedges dark green, 2 pieces



### Lichen

NOCH Lichen is made of 100% real Iceland lichen and is therefore a completely natural product. So that it retains its natural springiness for as long as possible, it is pretreated in a special process and then dyed. With its authentic appearance, NOCH Lichen is ideally suited to the true-to-life design of bushes, hedges or ground cover.





1 x 0.6 cm, each 50 cm long



**08600 Lichen** stone grey, 35 g bag



08610 Lichen
green mix assorted, 35 g bag
08621 Lichen
green mix assorted, 75 g bag



08630 Lichen
autumn mix assorted, 35 g bag
08620 Lichen
autumn mix assorted, 75 g bag



### NOCH Trees for G Scale

With our small but elegant range of realistic model trees, you can perfectly forest your large railway layout.

Note: the trees are not suitable for outdoor use.



G 68010 Birch Tree approx. 35 cm high



0 G 68015 Deciduous Tree approx. 24 cm high



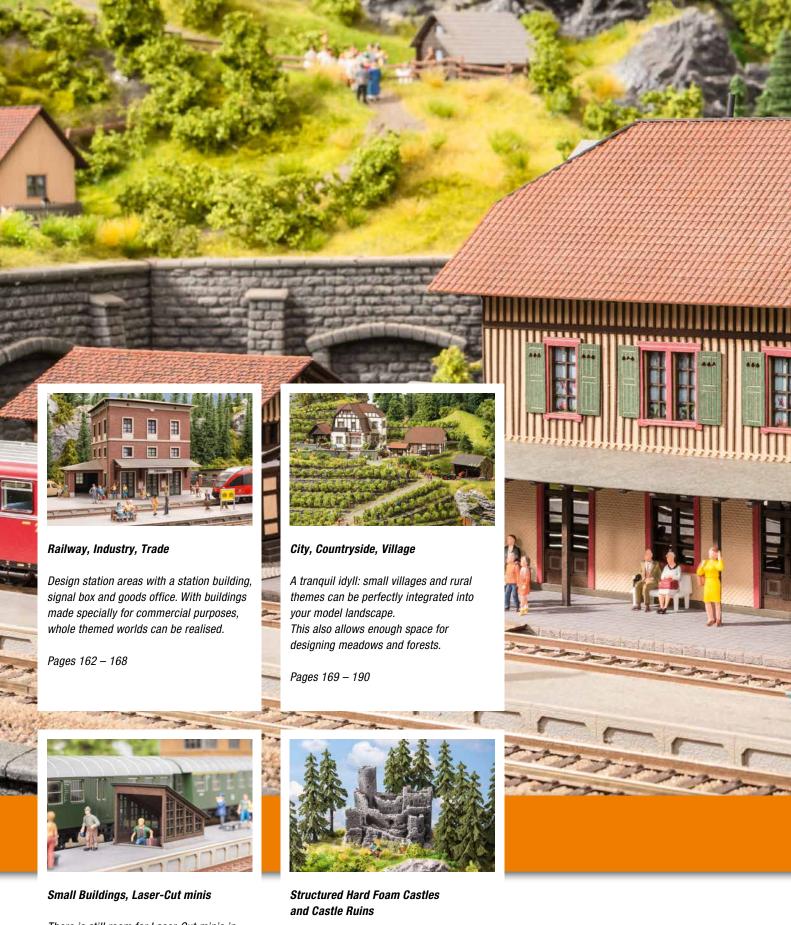
G 68020 Fruit Tree green, approx. 30 cm high



6 68022 Fruit Tree
white blossom, approx. 30 cm high



G 68030 Deciduous Tree
approx. 35 cm high
G 68032 Deciduous Tree
approx. 40 cm high



There is still room for Laser-Cut minis in each model landscape.
The extensive range offers many small design ideas for your model worlds.

Pages 191 - 199

Romantic castles and fascinating ruins are great eyecatchers and enrich every model landscape.

Page 200/201



## **Buildings**

### Laser-Cut – the Future of Model Buildings!

For some years now, production technology has allowed NOCH to create particularly realistic models.

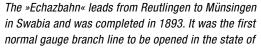
The advantages of NOCH Laser-Cut Buildings:

- · Made from high-grade NOCH Laser-Cut cardboard
- Laser-engraved and partially painted and weathered by hand a new quality standard
- Interior walls partially ex works painted black to prevent light (not supplied) from shining through
- · Gutters and drainpipes enclosed in many assembly kits
- · Appropriate adhesive included in every kit (except Laser-Cut minis)
- Environmentally-friendly production: the laser-cut cardboard used by NOCH is manufactured from renewable raw materials, while lasers employ the required energy with utmost efficiency and precision









Württemberg and simultaneously the last railway project to be given its own name.

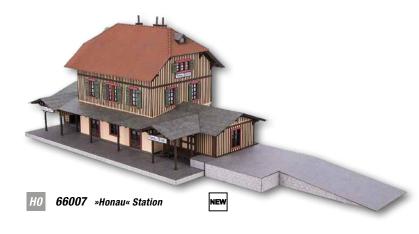
»Honau« Station stood at a central point: here, Germany's steepest normal-gauge rack railway with an incline of 100% began on its way to Lichtenstein. Mainly, BR 97.5 locomotives were employed. After the Second World War, the route again played an important role in transporting goods until its closure in 1953. Since it was entirely within the French-occupied section of Württemberg, military cargo could be transported along the route to the military training area in Münsingen without having to drive through the American sector. Because of the enormous incline, goods trains, in those days pulled by BR 50, BR 52, BR 57.10 and rarely also BR 93.5 locomotives, had a BR 97.5 rack locomotive coupled to the end that helped push the train.

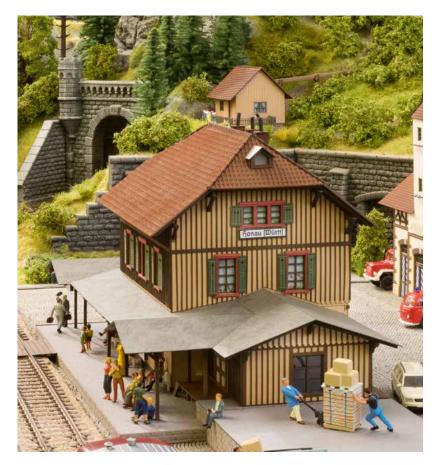
The »Honau« reception building, with its two annexes, is architecturally remarkable: the entire station was built in the Swiss chalet style and served as a prototype for the type III and later IIIa Württemberg unit railway station.

The beautiful partial hip roof construction, as well as many of the lovely details on the beams, wood panelling and ledges, were exclusively

reserved for »Honau« station and for financial reasons were not implemented in the unit structures later.

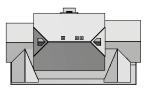
After the route was closed in the mid-1950s, the building fell into disrepair until Honau Railway Station Supporters' Association (Förderverein Bahnhof Honau e.V.) volunteered to take it on in 2003. Since then, a lot has happened, and the building now shines in all its »former glory«.







Just like the original: the Laser-Cut Kit is modelled on the real thing down to the smallest detail.



Building 28 x 16 cm, 15 cm high



Loading ramp 17.5 x 9 cm, 1.5 cm high

**Note:** the kit consists of the main building and separate loading ramp.



### Laser-Cut Kit »Honau« Outhouse





The Outhouse was unfortunately not preserved and

therefore can no longer be found at their original location today. We were given archive photos and plans by Honau Railway Station Supporters' Association when developing this kit.



11 x 7 cm, 6.5 cm high



#### Info Tip:

### Honau Railway Station Supporters' Association

The members of Honau Railway Station Supporters' Association (Förderverein Bahnhof Honau e.V.) have been working as volunteers to rebuild and maintain the original station building since the Association was founded in 2003. Over time, the »ruin« has turned into an event location where parties, Christmas markets and many other events take place today.

We would like to express particular thanks to the Association for their help in realising this model, which is why we have donated part of the proceeds to the maintenance of the original.

Further information (in German) on the Association can be found at: www.bahnhof-honau.de



2018: Model meets original. Handover of the donation cheque.





66103 »Honau« Outhouse



In cooperation with





### Laser-Cut Kit »Laimnau« Station



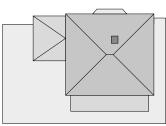


A highlight in the laser-cut field is »Laimnau« Station. The unit station, also known as the »Bavarian cube«, can mainly be found on

railway lines in Bavaria and Thuringia.

The unadorned architecture lends the model a timeless look, making it a station building suitable for all eras. The entire brick façade of the building is elaborately laser-engraved.





H0 gauge: 23.5 x 16.6 cm, 15.2 cm high N gauge: 12.8 x 9 cm, 8.3 cm high

HO

66003 »Laimnau« Station



63003 »Laimnau« Station

### Laser-Cut Kit »Amtzell« Train Stop





As well as the reception building, a small luggage and goods shed and a sheltered outdoor waiting area are displayed on the

model. The kit is partially hand-painted.



21.9 x 8.6 cm 8 cm high



HO 66001 »Amtzell« Train Stop

**Note:** all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.









### Laser-Cut Kit Small Engine Shed with micro-motion Gate Drive







A specially developed gate drive with a gear shaft electronically opens and shuts the gates. The movement

of the gates is slow, just like in real life. The model's wall planks are laser-cut from real wood. Connection is via a standard 16 V model railway transformer. To operate, a switch, commutator or control panel (available separately) is required. Suitable for AC or DC power connection. Maximum length of the locomotive to be parked: 15 cm.





19 x 10.5 cm 10 cm high



66201 Small Engine Shed with micro-motion Gate Drive



### Laser-Cut Kit Universal Platform

Until now, railway modellers were tied to the prefabricated widths and lengths of the available platforms, and altering plastic platforms required a lot of practice. This is much easier with the NOCH Universal Platform. It is made of special laser-cut cardboard, which

Platform. It is made of special laser-cut cardboard, which combines two main features: firstly, it is very stable; secondly, the cardboard can simply be shaped with a craft knife or scissors. Due to the wide base plate, platforms can also be adapted to the radius of the curve. In order to offer railway modellers with a larger track system a budget economy pack, there is also a set of 3 from NOCH. With the three enclosed Universal Platforms, longer and more varied platforms can be individually created.



Place track on component and transfer contour ...



assemble individually customised components ...



then install the finished platform in the layout.



66008 Universal Platform 27.1 x 8.3 cm, 1.1 cm high



HO 66010 Universal Platform, 3 pieces set each 27.1 x 8.3 cm, 1.1 cm high



Suitable figures (sold separately)

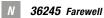








HO 15245 Farewell





### Laser-Cut Kit micro-motion Level Crossing with Attendant's House





A transmission motor ensures that the opening and closing mechanism of the barriers is realistically slow.

The level crossing is suitable for single- and double-track routes and all H0 track products. The connection is via a standard 16 V model railway transformer. To operate, a switch, commutator or control panel (available separately) is required. An automatic mode is not provided as default, but can be retrofitted with commercially available components.





Dimensions of the Attendant's House: 5.8 x 4.2 cm 4.3 cm high



 $66260\ micro-motion\ Level\ Crossing\ with\ Attendant's\ House$ 

### Laser-Cut Kit »Tannau« Signal Box



Typical signal box, as can be found in many areas around Bavaria and throughout Germany. The outer façade is intricately laser-engraved and then painted and aged by hand.





66108 »Tannau« Signal Box

11 x 6.5 cm 8.5 cm high

Note: all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.







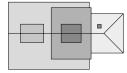
### Laser-Cut Kit Warehouse





Rural warehouse, as can be found in many regions. The handling of agricultural goods is carried out via the loading platforms to road and rail.





21.9 x 12.8 cm 14.5 cm high



66110 Warehouse



### Laser-Cut Kit Tool Shed and Workshop





Small workshop building, suitable e.g. for a rolling-stock division, depot or small industrial plant.





8.4 x 4.3 cm 3.3 cm high

HO

66106 Tool Shed and Workshop



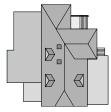
### Laser-Cut Kit Spirits Company »Schluck & Specht KG«



The building is characterised by its playful architecture: lots of nooks and crannies, intertwining parts, loading platforms and, last

but not least, the small entrance to the cellar, offer a great deal of variety.





17.5 x 17.3 cm 14.2 cm high



66314 Spirits Company »Schluck & Specht KG«

## Laser-Cut Kit Plumbing Workshop »Oswald & Söhne«

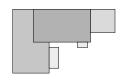




Ideal for installing in industrial areas or as a single building on the edge of a railway line. The kit includes individual gutters, which can

be used to design the premises.





17.7 x 10.8 cm 12.5 cm high



66316 Plumbing Workshop »Oswald & Söhne«









### Laser-Cut Kit Great Estate »Franz Fuhrmann & Co.«

The building ensemble consists of a main building and an annex.

Residential rooms and offices are located in the main building of the Great Estate. The annex is equipped with stables and sheltering options for carriages as well as a hay loft.

The doors of the horse stables can be opened or closed. To design the Great Estate as a haulage company, the fitting Laser-Cut minis Carriages can be found on page 193.





Main building: 13 x 9.6 cm, 11.5 cm high



Annex: 11.4 x 6.6 cm, 7 cm high

66713 Great Estate »Franz Fuhrmann & Co.«

Note: all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.



### Laser-Cut Kit Romantic Hotel »Schönblick«





The »Schönblick« can be installed as a romantic, wellness, sport or holiday hotel. The beautifully designed, timber-framed façade with countless lovely details inspires your

dreams. The balconies are slightly larger, so figures can be placed there as guests! There is even space for a table for the late-risers, for instance, to enjoy breakfast. Who wouldn't like to spend a couple of relaxing and peaceful days at the »Schönblick« Romantic Hotel? Signs and labels are included for decoration.





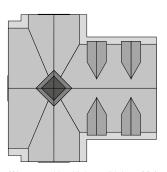
66407 Romantic Hotel »Schönblick«



63407 Romantic Hotel »Schönblick«

**Note:** the N gauge kit is only suitable for advanced hobbyists due to its size and detailing.







H0 gauge: 16 x 16.1 cm, 21.9 cm high

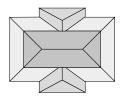
N gauge:  $8.8 \times 8.8 \text{ cm}$ , 12 cm high

Note: all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.



### Laser-Cut Kit Orangery

The filigree construction of this tropical house is a real masterpiece of laser-cut art. Enjoy the glimpse inside! Great design options are on offer amongst the NOCH Laser-Cut minis and Ornamental Plants, which can be found in the NOCH range (e.g. Ornamental Plants in Flower Tubs, ref. 14014 and 14020).



14.4 x 11.6 cm 8.1 cm high



HO 66801 Orangery



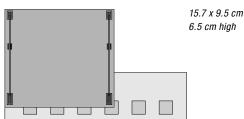
Suitable figures (sold separately)



HO 15885 Golfers

### Laser-Cut Kit Golf Driving Range

Here, NOCH Figures can practise teeing off. The small, modern building offers several tees (both indoors and outdoors), to be used as appropriate, depending on the weather. Supplied without figures. The fitting Golfers (ref. 15885) are available separately. We wish you an \*enjoyable game!\*





66810 Golf Driving Range (without figures)



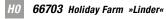
### Laser-Cut Kit Holiday Farm »Linder«



It's not just children that love holidays on the farm; there is a lot on offer for adults, too: you can hike, cycle, explore nature or simply relax. It's easy to bear on an idyllic

country estate! The building impresses with its varied architecture: a passageway, many windows, dormer windows and canopies.

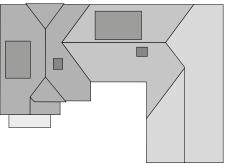




63703 Holiday Farm »Linder«

Note: the N gauge kit is only suitable for advanced hobbyists due to its size and detailing.





H0 gauge: 18.8 x 13.3 cm 12.6 cm high

N gauge: 10.3 x 7.3 cm 6.9 cm high

HO

### Laser-Cut Kit »Grinding Mill«

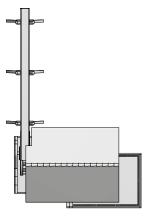




At grinding mills, which were usually operated in mountain ranges with hydropower, the mountain farmers used to sharpen their scythes and sickles, with which the mountain meadows were mowed. The

structure's mill wheel and inflow are reproduced in detail in the model.





H0 gauge: 10 x 6 cm, 6 cm high (without water inlet) N gauge: 5 x 3 cm, 3 cm high (without water inlet)



66707 Grinding Mill

63707 Grinding Mill





Laser-Cut Kit Wooden Barn





Small barn for storing agricultural and forestry equipment. Kit partially hand-painted and aged; includes a sheet of Laser-Cut minis

»Virginia Creeper«.



9 x 6 cm 5.6 cm high



66711 Wooden Barn

Suitable figures (sold separately)

15629 Farmers





16750 Two Wheel Tractor



Note: all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.

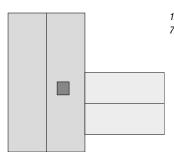
### Laser-Cut Kit Restaurant »Zur Bärenfalle«





This small, shingle roof log cabin accommodates an outdoor vending kiosk and a large guest room where day trippers can

take a break. The roof is painted and aged by hand.



12.5 x 11.2 cm 7.4 cm high



HO

66409 Restaurant »Zur Bärenfalle«



Suitable figures (sold separately)





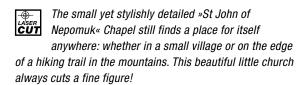
Made in

HO

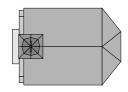
15838 Restaurant

HO 15558 Group of Regulars

### Laser-Cut Kit Chapel »St John of Nepomuk«







H0 gauge: 6.4 x 4.5 cm 9.6 cm high (without cross)

N gauge: 3.5 x 2.5 cm 5.3 cm high (without cross)





66903 Chapel »St John of Nepomuk«



63903 Chapel »St John of Nepomuk«

Note: all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.













### Laser-Cut Kit Allotment »Fronwies«





Everything goes at a gentle pace on the Allotment. At the weekend, the plots are administered to and a cool beer or two is drunk in the afternoon. The Set contains the

following Laser-Cut Kits: three Allotment Sheds, an Entrance Gate to the estate, an Outdoor Toilet, a Rose Arch and a Compost Crate.



Entrance Gate: 5.1 cm wide 4.9 cm high Outdoor Toilet: 1.8 x 2 cm 2.7 cm high Rose Arch: 1.2 x 0.7 cm 2.3 cm high

Compost Crate: 1.1 x 1.1 cm 1.1 cm high



Allotment Sheds: 5.6 x 4 cm 3.4 cm high



### 66803 Allotment »Fronwies«

- 3 Garden Sheds
- 1 Entrance Gate
- 1 Outhouse
- 1 Rose Arch
- 1 Compost



### Laser-Cut Kit Church »St George« with micro-sound Bell Ringing



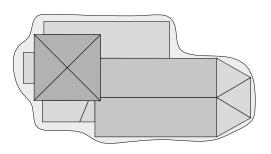




The beautiful »St George« Church is characterised by its playful architecture, beautiful timber frame, and lovingly-made details. The model is purposely

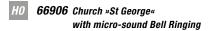
designed to be small in size as a village church or an isolated building in a rural setting. The bell ringing is stored on the electronic chip (running time approx. 20 seconds). The whole sound electronic device, including a loudspeaker, is ready to be connected. Connection is made via a standard 16 V model railway transformer.

Suitable for AC and DC power connection.



H0 gauge: 16.4 x 8.8 cm 25.2 cm high (without cross)

N gauge: 9 x 4.8 cm 13.7 cm high (without cross)



63906 Church »St George« with micro-sound Bell Ringing









# Rescue, Extinguish, Recover, Protect! Laser-Cut Kit Fire Station

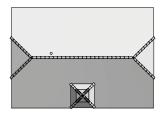






There is still always room for a small fire station in every village. The hoses can

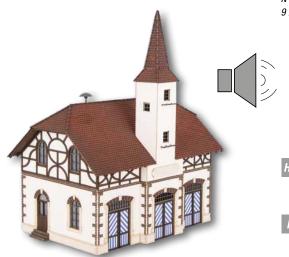
be hung up to dry in the small tower and there are three garages available for small vehicles. A special feature of the station is the enclosed siren sound. Connection is made via a standard 16 V model railway transformer. Suitable for AC and DC power.



H0 gauge: 16 x 11 cm, 19 cm high N gauge: 9 x 6 cm, 10 cm high



The real building still stands today in Wasserburg, Lake Constance, and dates back to around 1900.





HO 66380 Fire Station with micro-sound Siren



N 63380 Fire Station with micro-sound Siren



### micro-motion Laser-Cut Kit Love Barn



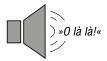






The Love Barn is definitely one of NOCH's hottest items. It's getting really hot inside

the delicate genuine wood barn. This is real country loving. The figures of the couple enclosed in the kit move thanks to micro-motion drive. The experience is rounded off by a loudspeaker with appropriate sounds (running time approx. 20 seconds).





9.4 x 6.5 cm 7.6 cm high







66701 micro-motion Love Barn





### Laser-Cut Kit Piano Concert







Everyone dances and flirts at the beautiful sounds of the spa concert. This is ensured by the enclosed

»Piano Performance« micro-sound chip and the integrated loudspeaker. An excerpt of approx. 20 seconds from Mozart's Serenade No. 13 (»Eine kleine Nachtmusik«) is played. The 3D-printed grand piano and pianist are included as highly detailed and hand-painted models. Every spa guest will get their money's worth! Connection is made via a standard 16 V model railway transformer. Suitable for AC and DC power.





12.2 x 9.4 cm 6.6 cm high











Note: all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.











### Laser-Cut Kit Event Stage with micro-sound Brass Band







It's all dancing, singing and celebrating here: the small wooden stage is the focus of every village or city festival! The Band plays

an excerpt of approx. 20 seconds from Strauss' Radetzky March, which is reproduced via a small loudspeaker built into the model. The piece of music is stored on the electronic chip. The complete electronics, including loudspeaker, are ready to be connected. The connection is made via a standard 16 V model railway transformer. Suitable for AC and DC power connection. Includes »Music Band« Figures Set (ref. 15580).





9 x 8.3 cm, 2.6 cm high





66826 Event Stage with micro-sound Brass Band



### Laser-Cut Kit Open-Air Stage with micro-sound Rock Band and LED Light Show

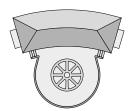




Let's rock! Getting into the groove on the Open-Air Stage: the band rocks and the fans party in rhythm with the music. The

Light Show brings the mood to a climax and the romantic construction gives the spectacle a breathtaking backdrop. The piece of rock music is stored on the electronic chip (running time approx. 20 seconds). The complete sound and light electronics, including loudspeaker and LEDs, are ready to be connected. Connection is made via a standard 16 V model railway transformer. Suitable for AC and DC power connection. Includes »Music Band« Figures Set (ref. 15839).







66825 Open-Air Stage with micro-sound Rock Band and LED Light Show





### Laser-Cut Kit Mountain Restaurant »Grosser Mythen«



The »Grosser Mythen« is a 1,898 metre-high mountain in the foothills of the Swiss Alps. Hikers who take the trouble to climb the mountain will be rewarded with a breathtaking panorama,

which they can enjoy during a short break at the Mountain Restaurant. The model of the »Grosser Mythen« Mountain Restaurant is modelled on the original and furnished with filigree laser engraving. A sheet of stickers of various country flags is also included in the kit.

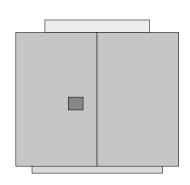


HO 65800 Mountain Restaurant »Grosser Mythen«

N 63800 Mountain Restaurant »Grosser Mythen«



Just like the original: the Laser-Cut Kit is modelled on the real thing down to the smallest detail.





2016: Model meets original

H0 gauge: 11.5 x 10.8 cm 7.8 cm high

N gauge: 6.3 x 5.9 cm 4.3 cm high

**Note:** all Laser-Cut Kits on this double page come with detailed instructions and suitable Laser-Cut Special Adhesive.

G





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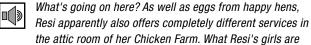
N



# What Goes on in the Hut, Stays in the Hut!

#### Laser-Cut Kit Chicken Farm »Hot Chick« with micro-sound

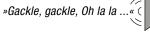


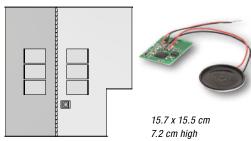


up to can only be seen when the light is on inside! Because the skylights are mirrored and only see-through from the outside when the enclosed interior lighting is operated. Ooh la la! The fitting sound — keyword: »hot chicks« — is of course part of the game and even includes yodelling at the end! The Laser-Cut Kit Chicken Farm »Hot Chick« is supplied complete

with interior lighting (6 LEDs), two »Sexy Scenes« couples with a bed and armchair, »Resi« figure, 9 hens and a pre-wired sound electronics device including a loudspeaker. Connection is made via a standard 16 V model railway transformer. Suitable for AC and DC power. The kit includes detailed instructions, a matching sheet of stickers and special adhesive.







НО

66705 Chicken Farm »Hot Chick« with micro-sound





# »In vino veritas« – In Wine there is Truth

### Laser-Cut Kit Winery »Hauser-Bühler«





The »ideal world« in a model: what is more suiting than a winery? The grapes ripen in a prime location on the vines; the winegrower carefully controls them and knows

each variety. This produces high-quality wine. Completely natural and »organic« — without any additives. The end of the workday can be spent in the wine bar. Here, all is well in the world. The Vineyard consists of a main building and a servants' house. 24 Vines as well as the Figures Set »Winegrowers« (ref. 15614, only in the HO kit) are included in the kit for decorating the vineyard. It also contains a detailed instruction and suitable Laser-Cut Special Adhesive.



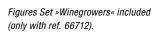
66712 Winery »Hauser-Bühler«



63712 Winery »Hauser-Bühler«



24 Vines are included



#### Internationally awarded:

The Laser-Cut Model Winery »Hauser-Bühler«

convinced the readers of the VGB magazines MIBA, Eisenbahn Journal, Modelleisenbahner and Züge, who awarded it the »Golden Track« in 2015.

The readers of the French magazine Le Train also awarded the »Rail d'Or« to the H0 model in 2015 and the N model in 2016.





#### Info Tip: Designing a vineyard

Designing a pretty vineyard simply turns out very well with NOCH Vines (see page 146). In addition, some Laser-Cut minis are matching the vineyard. These can be found on pages 193 to 200 in particular. For Mediterranean vineyards, Olive Trees are ideal.

You can find them on page 147.



G





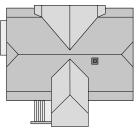
TT











H0 gauge: 14.8 x 13.7 cm 13 cm high N gauge: 8.1 x 7.5 cm 7.1 cm high

#### Main Building

The model is a reproduction of the Winery »Hauser-Bühler« located in Bickensohl in the Kaiserstuhl region (wine-producing state of Baden-Württemberg). The main building houses processing and storerooms for the wine, as well as residential rooms and a small wine bar. The inn offers not only homemade wines but also dishes to complement them. The beautiful timber-framed building fits perfectly within rural surroundings.

### Servants' House

Servants' houses are often found on large farms. In the old days, maids and servants would sleep in the buildings.





H0 gauge: 11.5 x 6.9 cm 7.2 cm high N gauge: 6.3 x 3.8 cm 3.9 cm high





# Ghosts in the Attic and Vampires in the Cellar! Whooo!

### Laser-Cut Kit Haunted House with micro-sound Ghost Howling and Light Effects







This villa looks like it has sprung straight out of a horror film! But it's not the appearance of the dilapidated façade that gives you goose bumps:

ghosts haunt the interior! Four small (more or less) scary ghosts are illuminated by light effects; flashing and phosphorescent effects are truly "spooktacular!" Eerie sighs, groans and many other horrible sounds are emitted from the enclosed micro-sound chip.

The building itself is covered with specially developed laser engravings that make the façade look as though it is weather-beaten and crumbling.

Lovingly created details such as the balconies and verandas testify to better times before ghosts and spectres moved into the villa.

The technical components of the Haunted House are completely ready to use. The connection is made via a standard 16 V model railway transformer. Suitable for AC and DC power.

The model is limited to 1,000 pieces. A numbered certificate as well as detailed instructions are included.

#### **Product Highlights:**

- · 4 Ghost figures included
- Scary light effects: flashing electronics with 3 UV LEDs
- · Electronics pre-assembled, ready for use
- · micro-sound ghost howling
- Limited to 1,000 pieces

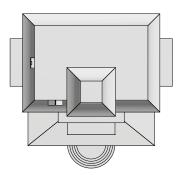


Four ghosts and spectres are supplied with the Haunted House and inhabit it!









16 x 15 cm, 18 cm high

#### Ideal for designing the »neighbourhood«





HO

15801 Vampires





10 16714 Hearse Coach



Wowee! »Last Resting Place?« No Way! There's a lot Going on Here!

Structured Hard Foam Creepy Graveyard with lots of Accessories

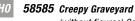
There are rumours that the Graveyard is haunted by night! Is that true? The model is anything but terrifying in any case! Walls, tombs and mausoleums are carefully carved by modelling artist Manfred Luft and painted by hand. The model also includes some gravestones, tomb monuments and two withered trees, as well as some fallen leaf foliage to help you decorate your Creepy Graveyard.





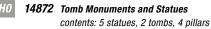
#### Info Tip: Suitable Accessories

On page 183, you'll find figures to match this theme: Zombies (ref. 15800) and Vampires (ref. 15801). Suitable accessories are Tomb Monuments and Statues (ref. 14872) and Funeral Accessories (ref. 14874).



(without figures) Contents: Carefully painted graveyard, made of structured hard foam ready-made model 19 x 13.5 cm, 9 cm high 2 withered trees Fallen leaves yellow and red 7 tomb monuments and tombstones







14874 Funeral Accessories

contents: coffin carriage with coffin, adorned with flowers sandstone sarcophagus, 2 coffins with flowers



### Roll the Cameras!

#### micro-motion Open-Air Film Festival





Enjoy watching your favourite films with the NOCH Figures on your model landscape.

The 4.3-inch display is simply connected to an output device, e.g. a DVD player or tablet via an RCA plug. The sound can also be played back via the model's built-in loudspeaker. The mono loudspeaker is also connected via an RCA plug.

The most practical thing about it is that RCA plugs are in standard use worldwide and there are adapter cables for connecting SCART, USB or HDMI ports (available separately from electrical retailers) to RCA plugs. This guarantees that your device can also be connected to the NOCH micro-motion Open-Air Film Festival, allowing you to watch your films. The model's built-in colour and brightness controls allow you to easily adjust the screen for a perfect 1:87 cinema experience!

The Cinema Stage is supplied pre-mounted and ready to be connected. Projection Box and Ticket Booth are included as a kit. The connection is

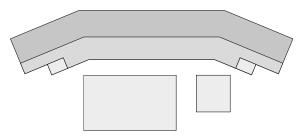
made via a standard 16 V model railway transformer. Suitable for AC or DC power connection. The model is limited to 1,000 pieces. Includes a numbered certificate, detailed instructions and special adhesive.

#### **Product Highlights:**

- · 4.3-inch display with colour and brightness settings
- · Built-in loudspeaker
- Can be connected to any video playback device via RCA plug (video line in, audio line-in mono)
- Cinema Stage pre-mounted and ready to be connected
- · Projection Box and Ticket Booth kits included
- · Limited to 1,000 pieces



The connection is made via two RCA plugs. Adapters from RCA to other connectors, such as SCART, are available separately from electrical retailers. Pictured DVD player and RCA/SCART adapters not supplied.



Dimensions of the Cinema Stage: 23.2 x 5.4 cm, 11.8 cm high Dimensions of the Projection Box: 7.2 x 4.3 cm, 4 cm high Dimensions of the Ticket Booth: 2.3 x 2.7 cm, 3.5 cm high







66822 micro-motion Open-Air Film Festival

## Bigger, Better, Louder! Let's Rock Again!

#### Laser-Cut micro-motion Rock Festival





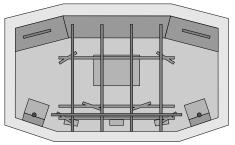


A few years ago, we presented our micro-motion Rock Concert (ref. 66821).

The model was a huge success and completely sold out before delivery. Since it was limited to 1,000 pieces, some rock fans were unfortunately left without a model. We have also received many suggestions on how we can further improve it, and so we started again in 2017 with »Rock Concert 2.0« - the ultimate rock festival! The laser-cut ready-made model is equipped with a 3.5 mm stereo jack, which can be plugged into any player. This allows you to listen to your own music on the rock stage, e.g. from your MP3 player or smartphone. Two loudspeakers are responsible for a great mini sound system, providing some »oomph!« The sound experience is supported visually by a light console that flickers to the beat of the music. The stage is lit up blue in standby mode. The stars on the rear wall and »Let's Rock 'n' Roll« text are also illuminated. That's where the rock festival atmosphere comes in! The technical components of the Rock Festival are fully operational. The connection is made via a standard 16 V model railway transformer. Suitable for AC and DC power. The model is limited to 1,000 pieces. A numbered certificate and detailed instructions are included.

#### Highlights of the micro-motion Rock Festival:

- Connection to any music player, e.g. MP3 player or smartphone via standard 3.5 mm stereo jack
- · Play your favourite music via two built-in model loudspeakers
- · Controlled by micro-processor lighting console
- NOCH Figures Set »Music Band« (ref. 15839) included
- · Illuminated stars on the rear wall and »Let's Rock 'n' Roll« text
- · Blue stage lighting in standby mode
- 16 LEDs included
- Electronics are pre-assembled, ready to be connected and installed
- · Limited to 1,000 pieces



16.8 x 10.3 cm 9.6 cm high



Simply plug the stereo jack into a playback device and let the music play!





66823 micro-motion Rock-Festival

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This band makes for the perfect atmosphere at your rock festival! Supplied: NOCH Figures Set »Music Band« (ref. 15839)

### Get Started with these Essentials!

#### Laser-Cut Scenery Sets

LASER CUT Everything you need to get started right away is included in these themed sets. Starting with the Laser-Cut Kit, through to the suitable figures and

finishing with decorating materials, everything you need to create a nice little scene is here. Even the right glue is included in the set. The crafting fun can start immediately.







65611 Scenery Set »Track Construction«

Contents: Laser-Cut Kit »Workshop«
Figures Set »Track Workers« (ref. 15277, 6 figures)
2 x Cable Rolls
8 x Fences

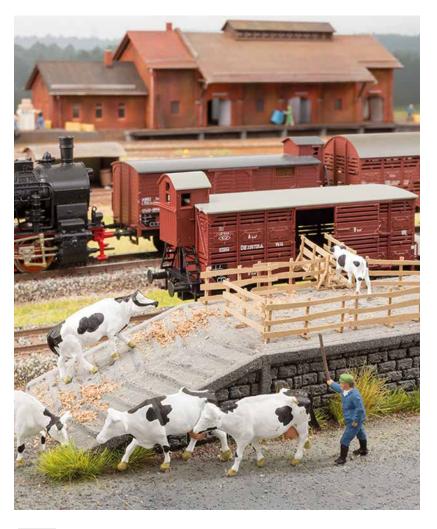


#### 65614 Scenery Set »Cattle Transport«

Contents: Goods ramp, 2 parts, made of hard foam variable assembly possible, 21 x 11.9 cm, 2.3 cm high 2 Laser-Cut » Cattle Loading Ramps« 2.5 x 1.8 cm, 1.2 cm high Laser-Cut » Gaters«, 2.2 x 0.5 cm, 1.1 cm hig Figures Set » Drovers and Cows« (ref. 15724, 5 cows 2 farmers) Scatter Material brown 42 g (ref. 08440) 20 Grass Tufts

**Note:** the 2.3 cm high goods ramp is made of hard foam and can easily be reworked with a saw. This makes it equally suitable for track beds (e.g. Märklin® C track) and for tracks without beds (e.g. Märklin® K track). It consists of two parts that can be arranged in various ways.





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HO 65613 Scenery Set »Takeaway Kiosk«

Contents: Laser-Cut Kit »Takeaway« Figures Set »At the Coffee Shop« (ref. 15833, 6 figures and tables) 3xFlowers in Pots Laser-Cut »Paved Place«, 10x8 cm

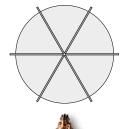
8 4

8.9 x 4.5 cm 4.3 cm high



65606 Scenery Set »Forest Lodge«

Contents: Laser-Cut »Forest Lodge«
Figures Set »Hunters and Lumberjacks«
(ref. 15060 6 figures)
Scatter Grass »Forest Floor« (ref. 08350)
2 x Woodpile, Laser-Cut minis »Stinging Nettles«



Barbecue Hut: 5.7 x 5.8 cm, 5.3 cm high

Grill: 2 x 2 cm 0.6 cm high





65612 Scenery Set »Barbecue Hut«

Contents: Laser-Cut Kit »Barbecue Hut with Grill« Figures Set »Family Meier at Barbecue« (ref. 15587, 6 figures) 4xFence, 20 Grass Tufts





H0 gauge: 9.7 x 6 cm, 4 cm high N gauge:  $5 \times 3$  cm, 2 cm high

#### 65616 Scenery Set »Alp«

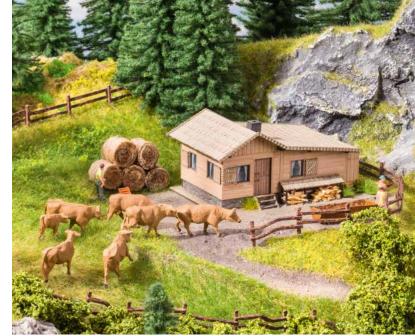


Contents: Laser-Cut Kit »Chalet« with Water Trough Field Fence (ref. 13030, 6 pieces) Figures Set »Cows« (ref. 15727, 7 animals) Scatter Grass »Alpine Meadow« (ref. 08360)

#### 63616 Scenery Set »Alp«



Contents: Laser-Cut Kit »Chalet« with Water Trough Field Fence (ref. 33030, 6 pieces) Figures Set »Cows« (ref. 36722, 9 animals) Scatter Grass »Alpine Meadow« (ref. 08360)





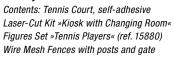


5.9 x 3.8 cm 3 cm high



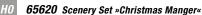


#### 65615 Scenery Set »Tennis Court«



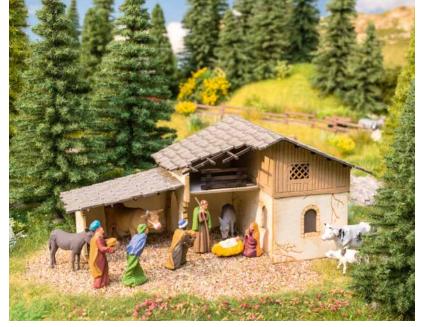








Contents: Laser-Cut Kit »Christmas Manger«, 11 x 6 cm, 5 cm high »Manger Figures« (ref. 15922, 11 figures) Scatter Material brown, 42 g (ref. 08440) 20 Grass Tufts, green Mini Grass Mats, green, 28 x 22 cm







#### Laser-Cut minis Kits

By now, the Laser-Cut minis from NOCH have become a »little institution.« The Kits have been very varied in recent years and many new ideas from our enthusiastic customers have reached us. We are therefore constantly expanding our range with new Laser-Cut minis for HO, TT and N gauges. The kits are available for a low price, and they will surely find a place on every model railway layout.

Just let yourself be inspired by our wide range of subjects!

More Laser-Cut minis can be found in this catalogue, starting from page 109.







3 pieces, diameter 1.8/1.5/1.2 cm

14438 Cable Rolls 3 pieces, diameter 1.3/1.1/0.9 cm

14638 Cable Rolls 3 pieces, diameter 1.1/0.9/0.7 cm



6 Shelves, each 2 Shelves à 1.4 x 0.7 cm, 2.1 cm high 2.7 x 0.7 cm, 2.1 cm high 1.4 x 0.7 cm, 1.5 cm high



14211 Gravestones 10 pieces



14214 Piles of Planks 8 Piles with Wooden Planks each 2 Piles of 2.5 x 0.8 cm

> 14428 Piles of Planks 8 Piles with Wooden Planks each 2 Piles of 1.8 x 0,8 cm

2.5 x 1.3 cm 4 x 0.8 cm, 4 x 1.3 cm

1.8 x 1.3 cm 2.9 x 0.8 cm, 2.9 x 1.3 cm 14628 Piles of Planks 8 Piles with Wooden Planks

each 2 Piles of 1,4 x 0,8 cm 1.4 x 1.3 cm 2.2 x 0.8 cm, 2.2 x 1.3 cm



14218 Drain Covers and Gully 25 pieces

14432 Drain Covers and Gully 25 pieces

14632 Drain Covers and Gully 25 nieces



14219 Kerbs 16 pieces, total length 200 cm



14221 Flagstones

128 pieces, 0.1 cm high (diverse assorted) 1.4 x 1.2 cm, 2.3x1.2cm 1.4x0.6cm, 3.5x1.1cm

14431 Flagstones

128 pieces, 0.1 cm high (diverse assorted) 1.0 x 0.9 cm 1.7 x 0.9 cm 1.0 x 0.4 cm, 2.5 x 0.8 cm

14631 Flagstones

128 pieces, 0.1 cm high (diverse assorted), 0.8 x 0.7 cm 1.3 x 0.7 cm, 0.8 x 0.3 cm, 1.9 x 0.6 cm



14224 House Boat

8 x 3.4 cm 3 cm high

14437 House Boat

5.8 x 2.5 cm 2.2 cm high

14637 House Boat

4.4 x 1,8 cm 1.6 cm hoch 14222 Small Footbridge

6x2.2cm

1.3 cm high

14620 Small Footbridge

3.3 x 1.2 cm 0.8 cm high



14223 Footbridge НО

9.5 x 1.8 cm max. 3 cm high



14229 Pergola

5 elements each approx. 2.5 cm wide 3.2 cm high



14230 Timber Fence

42 cm 1.5 cm high



14233 Railing

approx. 31 cm long 1.3 cm high



with Brick Columns  $8.6 \times 0.5 \, \mathrm{cm} \, 5 \, \mathrm{cm} \, \mathrm{high}$ 



14235 Fence with Brick Columns

5 brick columns und 5 fence elements overall dimension: 21.3 x 0.5 cm 2.5 cm high



HO 14236 Coping Stones
5 pieces made of structured hard foam
9.8 x 1 cm, 0.4 cm high



14239 Avalanche Barrier
5 elements
variable setup
max. length approx. 7.9 cm



**Note:** the Carriage is a very delicate modelling kit for advanced hobbyists.

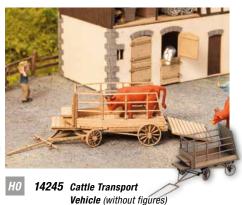


**Note:** the Wooden Carriage is a very delicate modelling kit for advanced hobbyists.



**Note:** the Coach is a very delicate modelling kit for advanced hobbyists.

8 x 2.4 cm, 2.5 cm high



**Note:** the Cattle Transport Vehicle is a very delicate modelling kit for advanced hobbyists.

7.5 x 2.7 cm, 2.6 cm high



14246 Cattle Loading Ramp mobile, 6.8 x 2.3 cm, 2.6 - 3.1 cm high (adjustable)



14247 Cattle Loading Bridges with Gates
2 loading bridges dimension
2.5x 1.8 cm, 1.2 cm high
8 gates 2.2x 0.5 cm, 1.1 cm high



**14250** Drying Frame with 8 racks 6.1 x 2.6 cm, 3.2 cm high



14251 Hay Racks 44 pieces, (diverse assorted) 0.8 x 0.7 cm, 1.7 cm high

2.5 x 2.5 cm, 2 cm high



14300 Milestones 20 milestones in 100 metre steps. Milestones can be mainly found along non-electrified branch lines. The upper number informs the engine driver about the track section and the lower one about the 100 metre mark.



14303 St Andrew's Crosses 8 pieces



14304 Level Crossing 11.8 cm x 4 cm

14422 Level Crossing 8.6 x 2.9 cm

14622 Level Crossing 6.5x 2.2cm



14305 Wooden Plank Crossing 5.6 x 8 cm

14424 Wooden Plank Crossing 4.1 x 5.8 cm

14624 Woodan Plank Crossing 3 x 4.4 cm

Note: each supplied without St Andrew's cross and crossing barrier.





14307 Railway Gates with St Andrew's Crosses

2 gates, each 6 cm long 4 diagonal crosses



6.1 x 4.5 cm, 5.7 cm high

14440 Small Track House 4.4 x 3.3 cm, 3.4 cm high

14640 Small Track House 3.3 x 2.4 cm, 2.5 cm high





4.6 x 2.8 cm, 2.6 cm high 3 cm mounting depth

14412 Underpass

3.3 x 1.8 cm, 2.6 cm high 2.2 cm mounting depth

14612 Underpass

2.5 x 1.5 cm, 1.4 cm high 1,6 cm mounting depth



14313 Cable Ducts

8 cable ducts 9.2 cm x 0.4 cm 10 corner cover plates 0.5 x 0.5 cm

14442 Cable Ducts

8 cable ducts 6.7 x 0.3 cm 10 corner cover plates 0.4 x 0.4 cm



14335 Bakery

3.8 x 4.2 cm 3.2 cm high

14488 Bakery

2.8 x 3 cm 2.3 cm high

14688 Bakery 2.1 x 2.3 cm 1.7 cm high





4.2 cm high



3 x 3 cm, 5.4 cm high

14433 Raised Hide

2.1 x 2.3 cm, 4 cm high

14633 Raised Hide 1.6 x 2.1 cm, 3 cm high



14434 Forest Lodge 4.7 x 3.7 cm, 2.8 cm high

14634 Forest Lodge 3.5 x 2.8 cm, 2.2 cm high

#### Hard Foam Signal Base and Signal Niche



Masoned Hard Foam Signal Base and Signal Niche. Suitable for signals with underfloor compact drive.



embankment, individually adjustable for sloped areas.

58304 Signal Base, small

2 pieces, 5 x 3.7 cm, 3 cm high size of installation surface: 3.3 x 3.1 cm

34304 Signal Base, small

2 pieces, 2.7 x 2.1 cm, 1.6 cm high size of installation surface: 2x1.7cm



58305 Signal Base, big

2 pieces, 9 x 3.5 cm, 6 cm high size of installation surface: 7.8 x 3.1 cm

34305 Signal Base, big

2 pieces, 4.9 x 2.1 cm, 3.3 cm high size of installation surface: 4.3 x 1.8 cm



58306 Signal Niche

2 pieces, 5 x 4 cm, 3 cm high size of installation surface: 3.8 x 3.4 cm

34306 Signal Niche

2 pieces, 2.7 x 2.2 cm, 1.6 cm high size of installation surface: 2 x 1.8 cm

#### Laser-Cut minis Kits







14349 Self-Supporting Carport 6.5 x 3.5 cm, 3.4 cm high

14354 Corrugated Shed 5.3 x 3.8 cm 3.5 cm high



14476 Self-Supporting Carport 4.7 x 2.5 cm, 2.5 cm high

14676 Self-Supporting Carport  $3.5 \times 1.9 \, \mathrm{cm}, \, 1.8 \, \mathrm{cm} \, \mathrm{high}$ 







14436 Outhouse 2 pieces, 1.3 x 1.5 cm, 2 cm high

14636 Outhouse 2 pieces, 1 x 1.1 cm, 1.5 cm high



5.4 x 5.2 cm 3.3 cm high

77 **14435 Garden Plot Shed** 3.9 x 3.8 cm 2.4 cm high

N 14635 Garden Plot Shed 2.9 x 2.8 cm 1.8 cm high



10 14366 Resting Place

1 bench with roof 3.6 x 3.9 cm 3.7 cm high 1 bench without roof 3.3 x 2.2 cm, 0.9 cm high

14474 Resting Place
1 bench with roof 2.6 x 2.8 cm,
2.7 cm high 1 bench without roof
2.4 x 1.6 cm, 0.7 cm high

14674 Resting Place
1 bench with roof 2x2.1 cm,
2 cm high 1 bench without roof
1.8x1.2cm, 0.5 cm high



NEW



3 pieces kennel 1: 2x1.9 cm, 0.9 cm high kennel 2: 1.4x1.3 cm, 1 cm high kennel 3: 1.3x1.2 cm, 0.9 cm high



HO 14367 Adventure Playground
11 x 3.7 cm

**Note:** the Adventure Playground is a very delicate modelling kit for advanced hobbyists.

4.5 cm high



3 pieces, roundabout: 2.2x2.2cm, 1.1 cm high seesaw: 4.2x6cm, 1.5 cm high swing: 2.1x0.2cm, 2.3 cm high



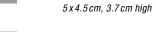
14369 Barbecue Place with Swings 6.8 x 5.9 cm 2.7 cm high



N **14670 Winepress** 3.3 x 3.3 cm 3.4 cm high



3.6 x 3.3 cm, 2.7 cm high



14475 Well

14675 Well 2.7 x 2.4 cm, 2 cm high



NEW

14378 Chicken Shed 5.5 x 4.0 cm, 3.5 cm high

14478 Chicken Shed 4.1 x 3 cm, 2.4 cm high

14678 Chicken Shed 3.2x2.2cm, 1.9cm high



14379 Cattle Shelter 6.2x4.2cm, 3.0cm high

14479 Cattle Shelter 4.5 x 3.1 cm, 2.2 cm high

14679 Cattle Shelter 3.5 x 2.4 cm, 1.8 cm high



14489 Bus Stop

3.6 x 2.3 cm, 3.1 cm high

14689 Bus Stop  $2.7\,x\,1.8\,cm,\,2.3\,cm\;high$ 



14397 Sauna with View (without figures) 8.9 x 4.3 cm, 3.5 cm high





2 goals each 5 x 1.2 cm 2.3 cm high 4 corner flags each 1.7 cm high



14413 Station Kiosk 4.1 x 3.2 cm, 2.5 cm high

14613 Station Kiosk 3.1 x 2.4 cm, 2 cm high



14627 Small Shed 2.9 x 1.8 cm, 1.5 cm high

#### Christmas Laser-Cut minis Kits





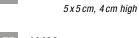






6x4cm, 3cm high





14393 Mulled Wine Stall



14482 Christmas Market Stall

14483 Mulled Wine Stall 4x4cm, 3cm high

14682 Christmas Market Stall 4.5 x 3 cm, 2 cm high



14683 Mulled Wine Stall 3x3cm, 2.5cm high



#### Decoration Test Set »Laser-Cut«

Convince yourself of the quality of NOCH's laser-cut products:



67190 Decoration Test-Set »Laser-Cut«

Laser-Cut »Cabin« 1 Tree 2 Figures 1 Hard Foam Base-Plate Laser-Cut Plants Grass Lake Film Laser-Cut Adhesive





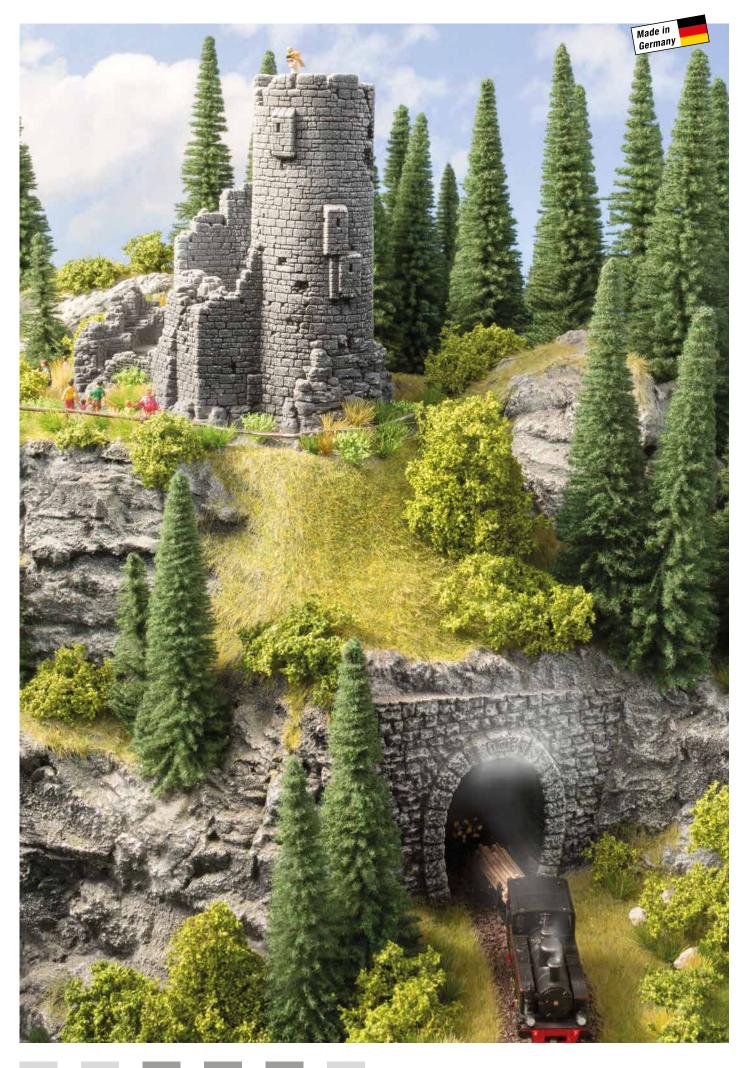
Info Tip: Laser-Cut Adhesive easy to apply in exact doses

14395 Christmas Market Pyramid

4.5 x 4.5 cm, 9 cm high

NOCH Laser-Cut Adhesive is perfect for building high-grade model Laser-Cut Kits. The adhesive is very easy to apply in exact doses thanks to its tip. Even the smallest parts can therefore be stuck together cleanly. When glueing larger surfaces together. It is recommended that the adhesive is spread with a paintbrush. Its special formula ensures a strong, long-lasting bond.





G O HO TT N

# Fascinatingly Realistic!

#### Structured Hard Foam Castle Ruins



NOCH Castle Ruins are true eye-catchers in every model landscape! Castle towers, derelict fortifications, castle courtyards: all mediaeval walls in the NOCH range are absolutely realistic.



Combination option: ref. 58600 and 58605 Castle Ruins can be made into











58605 Castle Ruin 20 x 16.3 cm, 16.5 cm high













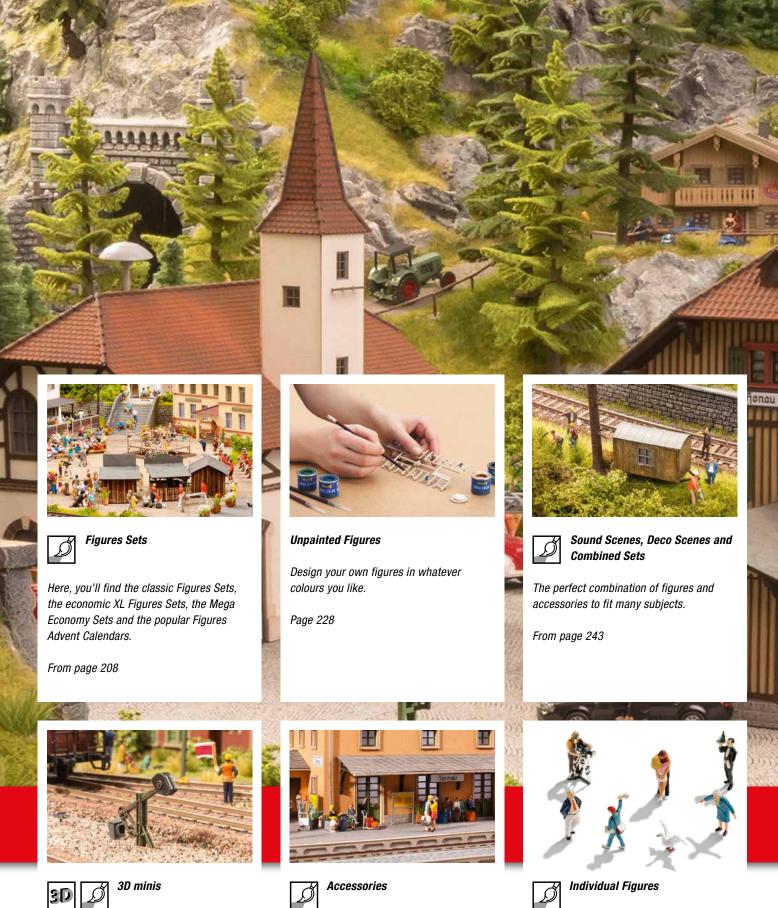
Background Info: Modellbau Luft





Modellbau Luft · Steinäckerweg 5 · D-89173 Lonsee · www.modellbauluft.de · kontakt@modellbauluft.de

Anyone who thinks of high-quality plaster models in Germany thinks of Modellbau Luft. Manfred Luft is an absolute artist with plaster, who always attracts attention with plaster models moulded by hand. Including at Miniatur Wunderland in Hamburg, where, amongst others, he has modelled castles, jousting tournaments and Pompeii. We are delighted that Manfred Luft produced the master patterns for the Castles (ref. 58600, 58605 and 58609), as well as the master pattern for the Creepy Graveyard (ref. 58585, page 184 of this catalogue) for NOCH. Further information on Modellbau Luft can be found at: www.modellbauluft.de.





»Fine scale« series: delicate accessories, 3D-printed and hand-painted.

Pages 252-254



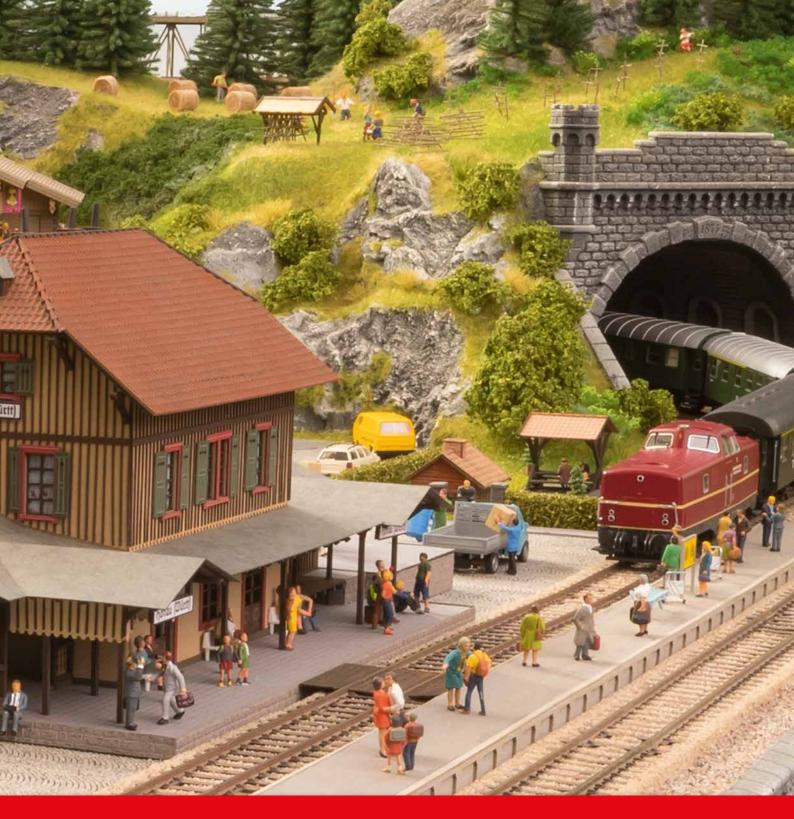
Here, you'll find accessory sets, carriages, small utility vehicles, boats and fences.

From page 231



Do you want to put together your own favourite figures? Here, you'll find a large selection of individual figures.

From page 262



# Figures and Decorations

### Populate Your Entire Little World!

Nothing animates a model scene as much as model figures. You'll find a huge selection of different figures in the NOCH range.

To give you a quick introduction to the large assortment of NOCH Figures, you'll find a small overview on the page to the left.

## These Pictures Cut a »Fine Figure!«

#### Winners of the 2017/2018 Photo Competition

Here they are: the winners of the Photo Competition that NOCH organised on the occasion of the Figures' 20th anniversary in 2017. Since 1997, the figures have been available in 1:87 scale, H0 gauge, in the NOCH range. Figures for N, TT, Z and brand new 0 gauges also came later. That makes NOCH one of the biggest providers of model figures.

You can learn more about our range on the following pages.

You also have the possibility to order individual figures on the internet from www.modellfiguren.de.

And as you can see in the photos, the model figures are not only real eye-catchers on a model railway or model landscape; these »little people« can also be artistically posed for photos.

Congratulations to the winners!





# Working Life



HO 15021 Fire Brigade

(black protective clothes)

N 36021 Fire Brigade

(black protective clothes)



HO 15022 Fire Brigade

(orange protective clothes)

36022 Fire Brigade

(orange protective clothes)





HO 15025 THW Technical Aid Agency



HO 15029 City Cleaning

TT 45029 City Cleaning

NEW

N 36029 City Cleaning



77 **45031** Workers



HO 15038 Warehousemen

TT 45038 Warehousemen

N 36038 Warehousemen



HO 15042 Miners



HO 15051 Carpenters



HO 15052 Chimney Sweepers

N 36052 Chimney Sweepers



HO 15053 Bakers











Z



HO 15054 Bricklayers



HO 15056 Painters





- HO 15094 Paramedics
- TT 45094 Paramedics
- N 36094 Paramedics



- HO 15108 Auto Mechanics
- 77 45108 Auto Mechanics



- HO 15055 Bricklayers
- 77 45055 Bricklayers
- N 36055 Bricklayers



- HO 15060 Hunters and Lumberjacks
- 77 45060 Hunters and Lumberjacks
- N 36060 Hunters and Lumberjacks



NEW

- HO 15070 Service Staff
- 77 45070 Service Staff
- N 36070 Service Staff



HO 15096 Gangsters & Policemen



- HO 15110 Construction Workers
- TT 45110 Construction Workers
- N 36110 Construction Workers



#### **European Postmen and Police Officers**





HO 15088 German Postmen





HO 15074 Austrian Police Officers



HO 15075 Swiss Police Officers



- HO 15076 Police Officers GDR
- 77 45076 Police Officers GDR



N 36082 German Traffic Policemen



N 36083 Traffic Policemen (blue uniform)



- HO 15090 German Police Officers
- N 36090 German Police Officers



- HO 15099 German Police Officers
- N 36099 German Police Officers



- HO 15091 Police Officers (blue uniform)
- 45091 Police Officers (blue uniform)
- N 36091 Police Officers (blue uniform)



N 36100 Police Officers (blue uniform)

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*T1* 

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Z

## At the Railway Station



- HO 15218 Passengers
- TT 45218 Passengers
- N 36218 Passengers



HO 15219 Passengers



HO 15224 Passengers



- HO 15226 Business Travellers
- TT 45226 Business Travellers
- 36226 Business Travellers



- HO 15240 Passengers (without Benches)
- TT 45240 Passengers (without Benches)
- N 36240 Passengers (without Benches)



- HO 15242 Passengers (without Benches)
- TT 45242 Passengers (without Benches)
- N 36242 Passengers (without Benches)





- HO 15220 Passengers
- TT 45220 Passengers
- N 36220 Passengers (9 Figures)



HO 15225 Passengers



HO 15227 Business People (without Bench)



- HO 15241 Passengers (without Legs, without Benches)
- N 36241 Passengers (without Legs, without Benches)





15243 Bus Driver and Passengers (without Legs)



15244 Lorry Drivers and Co-Drivers (without Legs)



15245 Farewell

45245 Farewell

36245 Farewell



15250 Sitting Passengers (without Legs, without Benches)





15275 Shunters

45275 Shunters

36275 Shunters



15276 Railway Construction Group

45276 Railway Construction Group

36276 Railway Construction Group



15277 Track Workers

45277 Track Workers

36277 Track Workers



15278 Sitting Workers (without Benches)



15280 Railroad Staff

45280 Railroad Staff

36280 Railway Staff (9 Figures)



15281 Engine Drivers Steam Loco

36281 Engine Drivers Steam Loco



15282 Engine Driver & Shunters, Epoch 3

45282 Engine Driver & Shunters, Epoch 3

36282 Engine Driver & Shunters, Epoch 3



**15283 Engine Drivers Electric Loco** (without Legs, without Benches)

HO



### European Railway Officials





- 15265 German Railway Officials
- 45265 German Railway Officials
- 36265 German Railway Officials









15267 Austrian Railway Officials



15269 French Railway Officials



15270 Spanish Railway Officials



15271 British Railway Officials



15272 Italian Railway Officials

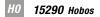


15274 Danish Railway Officials

# People in all Situations









15400 Nuns (without Bench)



15401 Monks (without Bench)



15410 Priest and Altar Servers

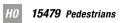


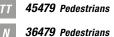
15470 Market





\* FARA







15510 Lovers

36510 Lovers



15478 Pedestrians

45478 Pedestrians

36478 Pedestrians



15480 Pedestrians



15518 Shopping

















HO 15520 Pedestrians



- HO 15530 Sitting People (with one Bench)
- 77 45530 Sitting People (with one Bench)
- N 36530 Sitting People (with one Bench)



- HO 15532 Sitting People (without Benches)
- 77 45532 Sitting People (without Benches)
- N **36532 Sitting People** (without Benches)



- HO 15533 Sitting People (without Benches)
- 77 45533 Sitting People (without Benches)
- N 36533 Sitting People (without Benches)



**45535 Sitting People** (without Benches)



HO 15536 Sitting People (without Benches)



- HO 15540 Sitting People (without Benches)
- N 36540 Sitting People (without Benches)



HO 15551 Senior Citizens



HO 15558 Group of Regulars



- HO 15560 Toilet Stories
- TT 45560 Toilet Stories
- N 36560 Toilet Stories



HO 15565 City Scenes



HO 15567 Spring Clean



HO 15563 Street Musicians (without Bench)

TT 45563 Street Musicians (without Bench)

N 36563 Street Musicians (without Bench)



NEW

HO 15570 Watering the Flowers

**Tip:** this Figures Set can also be placed by windows and on balconies.



HO 15571 Photographers

N 36571 Photographers



HO 15573 Camera Crew



HO 15574 People with Cell Phones (without Bench)



HO 15575 People reading



HO 15577 Churchgoers



HO 15578 People in traditional costume



HO 15580 Music band

TT 45580 Music Band

N 36580 Music Band



HO 15589 Grandparents & Grandchildren

G |









Ζ







TT 45590 Parents & Children

N 36590 Parents & Children



15595 Washday



HO 15592 Parents & Children



15596 Model Railroaders

# Zombies & Vampires



HO 15800 Zombies





10 **15801** Vampires



# Country Life

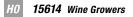




15613 Harvesters







36614 Wine Growers



15617 Farmers





15618 Mountain Farmers



15619 Hay Harvest



15628 Tractor Drivers (without Benches)



Example of use



15629 Farmers

45629 Farmers

36629 Farmers



15630 Riders

45630 Riders

36630 Riders



15632 Horse Care



15634 Stable Work

36634 Stable Work



15635 Pony Riding



HO 15711 Farm Animals (12 Figures)

TT 45711 Farm Animals (10 Figures)

N **36711 Farm Animals** (10 Figures)



HO 15712 Pigs

N 36712 Pigs



TT 45715 Dogs & Cats



HO 15719 Dogs



HO 15722 Cows, dark-brown

N 36722 Cows, dark-brown (9 Figures)

#### Animals







HO 15713 Farm Animals

N 36713 Farm Animals



HO 15717 Dogs

N 36717 Dogs





HO 15721 Cows, black-white

TT 45721 Cows, black-white

N 36721 Cows, black-white (9 Figures)



HO 15723 Cows, brown-white

N 36723 Cows, brown-white (9 Figures)



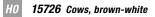
HO 15724 Drover and Cows



HO 15725 Cows, black-white











15727 Cows, brown





- 15730 Deers
- 45730 Deers
- **36730 Deers** (9 Figures)



15740 Roe Deers



- 15731 Hunting
- 45731 Hunting
- 36731 Hunting



15742 Alpine Animals



- **15745** Forest Animals (12 Figures)
- 45745 Forest Animals (9 Figures)
- 36745 Forest Animals (9 Figures)



15748 Sheep and Shepherd





HO 15749 Sheep





- 45750 Shepherd and Sheep
- 36750 Shepherd and Sheep



15752 Goats



- 15761 Horses
- **45761** Horses
- 36761 Horses















HO 15772 Chicken and Geese

HO 15774 Swan and Ducks



H0 15775 Birds



#### Rural Scenes



It's off to nature we go! This series consists of lovingly designed rural scenes, which show people and animals in typical rural environs. The artistically modelled figures are elaborately hand-painted.



- HO 16650 Bull transport
- TT 46650 Bull Transport





HO 16652 Calf transport



HO 16656 Pig transport



HO 16658 Cows at Water Trough

# Games, Hobbies and Leisure Time







HO 15810 Playing Children



- HO 15809 Children
- TT 45809 Children
- N 36809 Children



- HO 15815 Children
- N 36815 Children



HO 15820 Mother and Baby



HO 15832 Beer Garden



HO 15833 At the Coffee Shop



HO 15834 Beverage Bar



HO 15838 Restaurant



HO 16732 Ice Cream Trailer



- HO 15839 Music Band
- N 36839 Music Band

G

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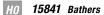
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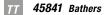
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Z







36841 Bathers



15842 Bathers



**15843** Nudists

36843 Nudists



**15844** Nudists



15850 Bathers



15857 Dancing People



15860 Wedding



**15861** Love Story



15863 Country Love



15869 Joggers



15870 Wanderers

36870 Wanderers



15871 Mountaineers

36871 Mountaineers

45871 Mountaineers















HO 15872 Wanderers

HO 15873 Wanderers





HO 15874 Mountain Hikers with Cross

HO 15880 Tennis Players

45874 Mountain Hikers with Cross







HO 15885 Golfers

HO 15886 Paragliders





15887 Modellers

HO 15892 Fishing











NEW

HO 15893 Fishing

HO 15899 Mountainbikers

G



HO

TT

П

N

Z



- 15898 Cyclists
- 45898 Cyclists
- 36898 Cyclists



- 15905 Motorcyclists
- 45905 Motorcyclists
- 36905 Motorcyclists



- 15904 Motorcyclists
- 45904 Motorcyclists
- 36904 Motorcyclists



- 15910 Scooter Drivers
- 36910 Scooter Drivers





15912 BMW R60 with Sidecar



15913 Moto Guzzi 850 Le Mans



15914 Kreidler Florett RS



15915 BMW R90/6



15916 NSU Supermax



15917 BMW R60



Sales Support for our Dealers



112 hooks for maximum 560 Figures Sets; diameter approx. 45 cm, height approx. 110 cm



152 hooks for maximum 760 Figures Sets; diameter approx. 45 cm, height approx. 187 cm



#### Footballers and Fans



- HO 15965 German Football Team
- TT 45965 Football Team
- N 36965 Football Team



HO 15966 German Fans



- HO 15979 Austrian Football Team
- TT 45967 Football Team
- N 36967 Football Team



HO 15980 Austrian Fans



HO 15969 Danish Football Team



HO 15970 Danish Fans



HO 15971 English Football Team



HO 15972 English Fans



HO 15973 French Football Team



HO 15974 French Fans



HO 15975 Italian Football Team



HO 15976 Italian Fans



HO 15977 Dutch Football Team



HO 15978 Dutch Fans

G

0

HO

TT

N

Z







15968 Belgian Fans



15981 Portuguese Football Team



15982 Portuguese Fans



15983 Spanish Football Team



15984 Spanish Fans



15985 Swiss Football Team



15986 Swiss Fans



15987 Czech Football Team



15988 Czech Fans



15989 Referees and Trainers



14986 Unpainted Footballers and Fans, 17 pieces

# Design Your Favourite Team!

You can design your favourite team yourself with the Unpainted Footballers and Fans kit. It doesn't matter whether it's a well-known club team or a home team on the playing field. Your model football pitch will become a personal highlight with your own club!

**Unpainted Footballers and Fans** 

# Bring Colour into Play!

#### **Unpainted Figures**

Easily paint your figures yourself. We offer selected, unpainted NOCH Figures in favourable economy packs. The figures can simply be painted with commercial synthetic paints directly on the sprue.

#### Highlights:

- Budget bulk packs
- Easy to paint on the sprue
- Figures in one piece no assembly required



#### »Passengers« Sprue



#### »Pedestrians« Sprue



#### »Sitting People« Sprue



HO 14985 Unpainted Figures 72 pieces

72 pieces

**35985 Unpainted Figures** 72 pieces

#### Contents:

- · 4 sprues, each with 12 »Passengers figures
- 4 Sprues, each with 12 »Pedestrians figures«
- 4 Sprues, each with 12 Sitting People« figures
- 8 matt Revell® Paints, each 14 ml White (05), Black (08), Yellow (15), Flesh (35)
   Carmine Red (36), Sea Green (48), Blue (56), Leather Brown (84)
- 3 fine paint brushes

\*Numbers in brackets Revell® Farbcodes

#### **Unpainted Footballers and Fans**





14986 Unpainted Footballers and Fans, 17 pieces

G





TT





### In the Winter





15819 Children in Snow

45819 Children in Snow

36819 Children in Snow





15826 Snowboarders



15827 Skiers



15828 Skiers

36828 Skiers





15829 Skiers



15920 Santa Claus and Angels



15926 Christmas Market

36926 Christmas Market





15928 Winter Work

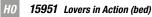


15930 Family Meier in Wintertime

#### »Sexy Scenes«

The »Sexy Scenes« are definitely the most exciting figures in our assortment. Each »Sexy Scenes« pack consists of a pair of model lovers and matching accessories, such as a bed, desk, etc. Since these products are quite »exceptional, « we've decided not to show them here. Instead, you can see an illustration. The rest we leave to your imagination...







15952 Lovers in Action (armchair)



15953 Lovers in Action (desk)



15956 Lovers in Action (chair)





15960 Lovers in Action (bed)



15961 Lovers in Action (bench)



36953 Lovers in Action (desk)

15962 Lovers in Action (love seat)





15957 Sexy Ladies



75116 Figures Container Contents: 198 figures 75120 Figures Container Contents: 198 figures 75118 Figures Container Contents: 198 figures

15958 Nude Models



15959 Ladies of the Night





#### Figures Container



198 lovingly hand-painted NOCH Figures are looking for a new home! The miniature figures, individually sealed in small plastic bags, are available for H0, TT and N gauges. Look out for your favourite figure at your local NOCH dealer.





# Enjoying a Ride

#### Carriages and Coaches



Carriages, horse and ox carts were the most common means of transport only a few decades ago. Such scenes can therefore be

found on many model landscapes. Extend your authentic fleet of vehicles with a couple of really impressive models.



HO 16701 Brewery Carriage

N 37701 Brewery Carriage



HO 16706 Wedding Carriage



16708 Hackney Cab Victoria



HO 16714 Hearse Coach

#### Laser-Cut minis Kits

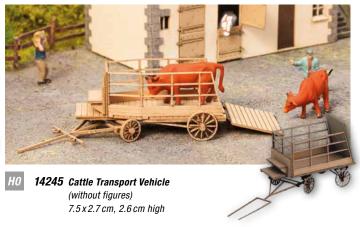


The Laser-Cut minis »Carriages and Coaches« are very delicate model kits. We recommend these models only be used by advanced hobbyists.



H0 14243 Wooden Carriage
(without load)
7.8 x 2.1 cm, 2.3 cm high





#### Small Utility Vehicles



The small utility vehicles with figures enrich many model scenes. In forests and fields, in villages and cities, on building sites, industrial estates or farms: these small popular models liven up the scenery everywhere.

**Note:** these vehicles are stationary and for decorative purposes only. The wheels do not turn.















16755 Tractor Allgaier



16756 Tractor Fahr



16758 Scythe Mower & Accessory



16770 Fork-lift Truck



16772 Electric Trolley

## Get Connected!

#### Telegraph Poles



To this day, telegraph (or telephone) poles characterise railway embankments and lines. They can still be found alongside

the tracks and enable reliable communication over



The poles are hand-painted and their level of detailing is captivating. Enclosed with the product is a special 2 m-long, flexible cable.

13160 Telegraph Poles 4 pieces incl. 2 m line

















#### HO 16824 Sailing Boat



HO 16800 Rowing Boat



HO 16809 Kayaks

N 37809 Kayaks



HO 16815 Dinghy

N 37815 Dinghy



HO 16820 Motorboat

#### **Boats**



The small, beautiful H0 and N crewed boats are a highlight of the NOCH range. Liven up your model waters with these lovely, realistic models. Come aboard!

**Note:** the boats do not float.





HO 16805 Canoe





16810 Pedal Boat



HO 16818 White Water Rafting



HO 16822 Fishing Boat

37822 Fishing Boat

## XL Figures Sets for Your Little World!

#### XL Figures Sets



Design your model landscape however you like with the XL Sets!







16101 XL Figures Set »Travellers« 24 Figures



16109 XL Figures Set »At Work« 24 Figures



16121 XL Figures Set »At the Station« 24 Figures



16130 XL Figures Set Sitting People 24 Figures (without Benches)

# Perfect Sales Support for our Dealers

#### **NOCH Figures Display Stands**

The Figures Display Stands are ideal for presenting NOCH Figures in your specialist store. The sturdy, revolving Figures Counter Display for up to 560 figures sets is meant to sit on your shop counter.

The revolving Figures Floor Display holds a maximum of 760 figures sets. Thanks to its five castors, it can be used in your shop in particularly flexible ways. Two castors are lockable. For the Figures Floor Display, the bottom six rows are for large boxes; for the Figures Counter Display, the bottom five rows.





#### 71194 Figures Counter Display

112 hooks for maximum 560 Figures Sets; diameter approx. 45 cm, height approx. 110 cm



152 hooks for maximum 760 Figures Sets; diameter approx. 45 cm, height approx. 187 cm

#### **Combined Figures Sets**

The popular combined figures sets contain figures and the accessories to match each scene. So you can liven up your model landscape in the prettiest way!





HO 15086 Postmen and Accessories



HO 15109 Garage and Accessories



HO 15111 Workers & Tools



HO 15531 Passengers and Accessories



HO 15830 Beer Garden



10 15922 Manger Figures

# Populate Your Model World!

#### Mega Economy Figures Sets



With the Mega Economy Figures Sets, you can bring train platforms, cities, carriages and the landscape to life for a favourable price.

The figures are lovingly hand-painted; some of the sets even contain accessories for designing the model scenes.

There are no limits to your imagination – create your own little world!



H0 160

**16041 Mega Economy Set »At the Station«** 30 Figures



НО

**16043** Mega Economy Set »In the City« 30 Figures



HO

**16045** Mega Economy Set »Sitting People« 30 Figures, without Benches



HO

**16047** *Mega Economy Set »At Work«* 24 Figures and Accessories



HO

**16049 Mega Economy Set »Animals«** 36 Figures



HO

16050 Mega Economy Set »Passengers«

30 Figures, without Legs, without Benches

G

0

H0

TT

N

Z

#### Join the Hustle and Bustle!

#### Mega Economy Figures Sets



It has never been easier nor more favourable to breathe life into your model scenes. Each set contains 60 elaborately hand-painted sitting or standing figures.





The figures lend themselves perfectly to the brightening up of railway station or city scenes.





HO 16070 Mega Economy Figures Set 60 Figures, without Benches

77 46070 Mega Economy Figures Set 60 Figures, without Benches

37070 Mega Economy Figures Set 60 Figures, without Benches





16071 Mega Economy Set »Sitting People« 60 Figures, without Benches

46071 Mega Economy Set »Sitting People«
60 Figures, without Benches

37071 Mega Economy Set »Sitting People«
60 Figures, without Benches

# Simply Painted for a Budget Price! NOCH Hobby Figures

NOCH Hobby Figures are the first choice when it comes to populating reasonably-priced squares, platforms, parks, carriages, etc. The Hobby Figures are painted in a simpler way than the »normal« NOCH Figures which is reflected in the very favourable price. The figures are available for the common gauges of H0, TT and N.



The particularly reasonably-priced NOCH Hobby Figures can be recognised by their red packaging.





47100 Pedestrians

N 38100 Pedestrians



HO 18101 Pedestrians

77 47101 Pedestrians

N 38101 Pedestrians



HO 18115 Passengers

TT 47115 Passengers

N 38115 Passengers



HO 18116 Passengers (without Benches)

77 47116 Passengers (without Benches)

N 38116 Passengers (without Benches)



HO 18130 Sitting People (without Benches)

77 47130 Sitting People (without Benches)

N 38130 Sitting People (without Benches)



HO 18131 Sitting People (without Benches)

77 47131 Sitting People (without Benches)

N 38131 Sitting People (without Benches)



HO 18000 Police Officers



HO 18010 Railway Officials



HO 18117 Passengers



HO 18132 Sitting People (without Benches)



HO 18210 Shepherd and Sheep



H0 18215 Horses











Z

#### Hobby Figures Mega Economy Set



It doesn't get more economic than this! Each Hobby Figures Mega Economy Set contains 60 hand-painted model railway figures. The painting of the Hobby Figures is less detailed compared to the normal NOCH Figures. These particularly economical figures are perfect for designing village or city squares.





HO 18402 Mega Economy Set »Sitting People«
60 Figures, without Benches

47402 Mega Economy Set »Sitting People«
60 Figures, without Benches

38402 Mega Economy Set »Sitting People« 60 Figures, without Benches NEW

NEW

NEW





HO 18401 Mega Economy Figures Set 60 Figures, without Benches

**47401 Mega Economy Figures Set** 60 Figures, without Benches

**38401 Mega Economy Figures Set** 60 Figures, without Benches



# Great Joy for the »Smallest Ones«!



Friends of Z gauge can start celebrating, because there are also figures in 1:220 scale in the large NOCH range.





Z 44200 German Railway Officials



Z 44201 Travellers

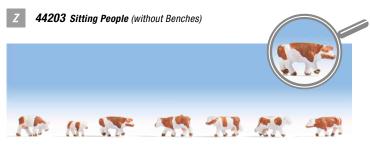


Z 44202 Pedestrians

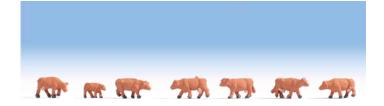




Z 44250 Cows, black-white



Z 44251 Cows, brown-white



Z 44252 Cows, brown

G



HO

7

4





# The »Big Ones« are Finally Available! O Gauge Figures

Since more and more railway modellers have switched to the large 0 gauge in recent years, we have always been confronted with the desire for suitable figures. With Engine Drivers & Firemen, Passengers, Shunters and Railway Officials, we gladly cater to your wishes!



NEW



17810 Engine Drivers Steam Locomotive

0 17860 Sitting People

17820 Shunters

NEW

NEW

17800 Railway Officials

# **New figures** every year!

**Cover picture:** the diorama spreads Christmassy anticipation.

Paste the Temporary Glue on the figure and briefly allow to dry.



For a »change of scene,« simply take the figure off...



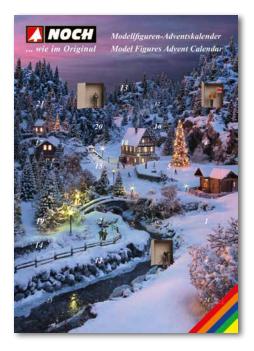
When the glue is transparent, stick the figure onto the desired spot.



...and place it on another spot again.

#### Model Figures Advent Calendar

Despite all the mince pies and chocolate, you can watch your figure with our Advent Calendar! Behind each door are lovingly designed NOCH Figures waiting to be placed on your model landscape – a great gift for every railway modeller! The Advent Calendar comes in A3 format.



15991 Figures Advent Calendar 28 Figures

45991 Figures Advent Calendar





36991 Figures Advent Calendar 28 Figures



#### Temporary Glue

NOCH Temporary Glue allows you to optimally fix small parts onto your landscape - and take them off again!

NOCH Temporary Glue is water-soluble, dries out transparent and leaves no residue on the surface. That's why it is ideal for affixing figures, cars, houses and many more.



61121 Temporary Glue 30 g

#### Let's Make Some Sound!

#### Sound Scenes





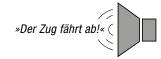
Breathe some life into your model landscape! Due to the compact design of the electronics and loudspeakers, the sound in the NOCH Sound Scenes

originates from the same place as in the real thing. The electronics, which come ready to be connected, can thus be installed in churches, or the building block for street musicians can be placed directly in a city building next to the band. You will be surprised how realistic a noise sounds when it's in the middle of the action. The connection is via a standard 16 V model railway transformer. The sound lasts approx. 20 seconds. Suitable for AC and DC power supply.



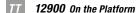


The following typical platform noises and sounds are heard: train whistle, squeaking brakes, locomotive noises and the announcements »Beware of the approaching train!« and »This train will now depart!« **Note:** announcements only in German.











A typical barrel organ piece is heard.



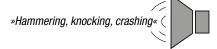


HO 12820 Street Musicians

TT 12905 Street Musicians

N 12955 Street Musicians

The following industry-typical noises and sounds are heard: factory noise, welding, machine punching and hammering.





12840 In the Industry





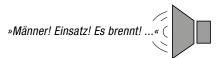






HO 12841 On the Construction Site

A telephone rings, the foreman calls his men and shortly afterwards the siren goes off. **Note:** announcements only in German.





HO 12842 Fire Brigade Operation



A chainsaw with a starter is heard cutting down a tree.





HO 12843 Felling Trees



The following typical farm noises and sounds are heard: cows mooing, birds tweeting, sheep baaing and hens clucking.





HO 12850 On the Farm

77 12910 On the Farm

V 12960 On the Farm













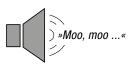






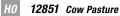






The mooing of »happy cows« in a meadow is heard.









A typical church bell rings.





HO 12860 At the Church



The melody of the traditional German Christmas carol »Alle Jahre wieder« is played by a brass band.





HO 12897 Christmas





A typical »sexy sound« is heard – let yourself be surprised!





12899 Sexy Sounds



# Small Scenes, Great Effects!

#### Deco Scenes





NOCH's Deco Scenes make your model landscape look even more realistic. Whether it's a

building site, bus stop, allotment or forest, the Deco Scenes liven up every model landscape. Each set contains a small, ready-made laser-cut building as well as figures to match the theme.



#### **Highlights**

- · High-quality Laser-Cut Kits
- Completely pre-assembled, ready-to-use
- · With elaborately hand-painted figures





















HO 12011 Track Construction





HO 12015 At the Bus Stop





- HO 12020 On the Platform
- TT 12520 On the Platform
  - N 12720 On the Platform







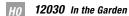
12025 At the Kiosk





12026 At the Christmas Market









12031 Garden Party





12035 In the Garden Plot

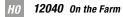




12036 At the Pond







12540 On the Farm

12740 On the Farm













12041 In the Country





12042 Cattle Shelter

12542 Cattle Shelter





12045 In the Forest

12545 In the Forest

12745 In the Forest







12046 Forest Work





12050 On the Alpine Pasture



# For the Perfect Decoration

#### **Ornamental Plants**

The elaborately hand-crafted ornamental plants are lovely decorative objects for parks, buildings, pedestrian zones, gardens and much more.





14012 Ornamental Plants in Pots 9 flower pots

14080 Ornamental Plants in Pots (illustration similar) 9 flower pots



14014 Ornamental Plants in Tubs 3 flower tubs



14020 Ornamental Plants in Tubs 3 flower pots



14021 Thuja 6 pieces







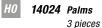








NEW





14082 Ornamental Plants in Tubs 9 flower tubs



14031 Flowers in Pots 9 flower pots

14084 Flowers in Pots 9 flower pots







# HO 13215 Tomato Plants 3 cm x 6 cm, 6 plants



# Gardening can be so Easy! Deco Minis

These Deco Minis are small, prefabricated vegetable plots with different plants. Whether tomatoes, cauliflower, white or red cabbage, the mini decorations allow you to »conjure up« realistic flower beds and allotments at the drop of a hat. Just remove the mini decoration from its packaging and stick it in the appropriate spot on your model landscape.





10 13216 Cauliflower 3 cm x 6 cm, 16 plants









**13218** Red Cabbage 3 cm x 6 cm, 16 plants



HO 13219 Pumpkin 3 cm x 6 cm, 8 plants



# Welcome to the Future! The NOCH Innovation: 3D Printing Series Production







Anyone following the current reporting in modelling trade magazines and interested in technology will already have heard of it: 3D printing is revolutionising production. As

with the introduction of laser-cut products, NOCH is a pioneer in this innovative production technology and one of the first to offer new 3D minis: models that set new standards in detailing - a »fine scale« series! As they are already finished and realistically painted, you can place the 3D minis directly onto your model landscape. And the best thing is that the price-performance ratio is also right. Convince yourself of the advantages of 3D-printed models.



#### Info Tip:

3D Printing - what you should know

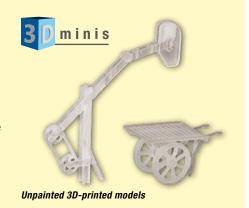
3D printing is currently revolutionising a wide range of industries. As incredible as it may sound to the layperson, it is possible to print in almost any kind of material: from plastics to metals.

There are a variety of different technical processes, depending on which material is used and what resolution the printed product should have Cost-effective printers, such as those already available for home use, use the so-called FDM (fused deposition modelling) process. In this process, a plastic is melted and the model to be printed is built up layer by layer.

However, the resolution of the printed objects is very rough, so these printers are not suitable for small

model railway scales. NOCH relies on a special, very high-resolution process that requires professional industrial printers.

The resolution is so high that the human eye only perceives a smooth surface, as we otherwise only know from injection-moulded plastic products. The advantage of the 3D printing process used by NOCH over conventional injection moulding is, however, that even finer details and filigree structures can be represented.



#### Highlights:

- New, innovative production technology
- · Extremely delicate and detailed
- · Highest »fine scale« quality
- · Realistically hand-painted
- Great value for money



2.8 x 0.4 cm 2.7 cm high

13800 Manual Point Lever

2x0.3cm 2 cm high

13900 Manual Point Lever

1.5 x 0.2 cm 1.5 cm high



13601 Manual Signal Leve 3.6 x 0.3 cm

3.5 cm high

13801 Manual Signal Lever

2.6 x 0.2 cm 2.5 cm high

13901 Manual Signal Lever 2x0.2cm

1.9 cm high





1 pressing roller case 2 single roller supports

2 double roller supports



13620 Indusi Track Magnet

5 pieces 1.2 x 0.6 cm 0.2 cm high



13621 Public Address System Set

3 wall mounted public speakers 0.2x0.3cm, 1cm high 2 speakers on stands 0.2x0.3cm, 1.9cm high













3D Printing – the future has begun!



13622 Electrical Connection 2 pieces including cables 0.8 x 0.3 cm, 1.1 cm high



13626 Wheel Blocks

1 rack with 3 shoe drags 2 single shoe drags Dimensions of shoe drag rack: 1.3 x 0.3 cm, 2.6 cm high



13640 Rail Works Set

1 Rail Drilling Machine 1.2 x 0.5 cm, 0.6 cm high 1 Rail Hack Saw 0.8 x 0.5 cm, 0.7 cm high



13642 Hydraulic Clip Machine

with fold-out cross-trolley 0.7 x 2.1 cm 0.8 cm high



13641 Track Work Set

1 Sleeper Screwing Machine 1.3 x 0.6 cm, 0.9 cm high 1 Rail Profile Grinder 1.7 x 0.7 cm, 0.8 cm high



13643 Track Turning Machine

1.0 x 2.9 cm 1.1 cm high



13644 Track Lifting Device

1.7 x 2.2 cm 1.2 cm high





13752 Drainage Pump 0.9 x 2.3 cm 1.5 cm high



13820 Platform Trolley 1.6 x 0.9 cm 0.7 cm high

13920 Platform Trolley  $1.2 \times 0.7 \, cm$ 0.5 cm high

13723 Hay Harvest Set





2.1 x 1.0 cm, 1.3 cm high

1.1 x 0.5 cm 0.7 cm high

13822 Grain Scale 1.5 x 0.7 cm, 0.9 cm high

Hay Cart 1.4 x 0.4 cm, 0.5 cm high Grindstone 0.9 x 0.4 cm 1.2 cm high Scythe and Sickle 13922 Grain Scale



13724 Turnip Harvest Set Turnip Chopper 0.9x0.8cm 1cm high Hand Cart 2.3 x 0.67 cm, 0.7 cm high



NEW



13725 Dairy Farming Set Milk Float 2.3 x 0.7 cm 0.9 cm high 10 Milk Cans, 2 Shovels



1 Wood Splitter 0.8 x 1.4 cm, 1.1 cm high 1 Circular Saw 1.0 x 0.7 cm, 1.6 cm high



13750 Hydrants 3 pieces 0.5 x 0.4 cm, 1 cm high



#### **Accessory Sets**

If you value designing realistic theme-based scenes, you'll find a ton of ideas in the NOCH range: from children's playgrounds to furniture to different flowerpots. Each set contains a variety of hand-painted accessories on every theme.

Liven up your model landscape with the accessory sets from NOCH – because it's often the little things that can have the biggest effect!







HO 14800 Garden Tools

Contents: Clothes Line, Carpet-Beating Stand, various Plant Tubs and Watering Cans Hedge Clippers, Hand Saw, Wheelbarrow, Shovel, Lawnmower, Garden Hose, Rake Spade, Hoe, Scythe and Broom





HO 14805 Road Building Tools

Contents: Mound of Sand, Jackhammer, Warning Signs, Cones, Lane Closure Signals Tamper, Pickaxe, Wheelbarrow, various Brooms and Shovels, Bucket





14810 Train Station

Contents: Noticeboard, Bench, various Suitcases, Backpacks, Bags, Luggage Trolley Baskets, Hand Luggage



но

14814 Playground Accessories

Contents: Table Tennis Table, Climbing Mushroom, Slide, Tent, Pram, Children's Tractor, Push Scooter and Bicycle





HO

14815 Auto Workshop

Contents: Gas Bottles, Cart for Gas Bottles, Drum Pump, Hand Carts, Car Jack Bucket, Fire Extinguisher, Watering Can, Tool Kit, Toolboxes, Oil Drums Oxygen Cylinders, Wheel, Tyres, Sack Barrow, Roll Plate and Car Battery





HO

14817 Beer Garden Accessories

Contents: 12 Beer Benches, 6 Beer Tables and 3 Parasols





H0

14822 Restaurant

Contents: 8 Chairs, 5 Tables and 1 A-Board





НО

14824 Coffee Shop

Contents: 8 Chairs, 4 Tables and 1 Ice Cream Counter















10 14825 Waste Containers & Ashcans

Contents: 2 Dustbins, various Rubbish Bins, Bottle Bank, Metal Recycling Bin and Skip





HO 14832 Furnitures

Contents: Living Room Cabinet, Sofa, Television, Kidney-Shaped Table, 2 Armchairs Painting, Wardrobe, Bed, Dressing Table and Bedside Table





HO 14833 Furnitures

Contents: Refrigerator, Kitchen Sideboard, Gas Stove, Electric Stove, Oven Washing Machine, Kitchen Cupboard, Dining Table and 3 Chairs





HO 14848 Benches

Contents: 4 Green Benches, 2 Red Benches and 3 Wasterpaper Baskets

77 46848 Benches

Contents: 4 Green Benches, 2 Red Benches and 3 Wasterpaper Baskets

N 35848 Benches

Contents: 4 Green Benches, 2 Red Benches and 3 Wasterpaper Baskets





HO 14849 Benches

Contents: 6 Benches

TT 46849 Benches

Contents: 6 Benches

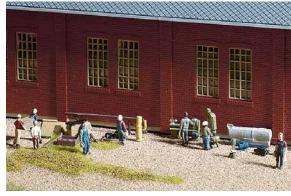
N 35849 Benches

Contents: 6 Benches



HO 14850 Workshop Accessories

Contents: Drill Press, Band Saw, Distribution Unit, Lathe, Crate with Cylinder Heads Wooden Box, various Pallets, Plastic Injection Moulding Machine Iron Girder with Motor, Motor and Pump





HO 14851 Benches

Contents: 4 Benches, 1 Circular Bench





HO 14870 Christian Symbols

Contents: 2 Roadside Shrines, 3 Crosses, 1 Statue





HO 14871 Gravestones

Contents: 6 Gravestones





HO 14872 Tomb Monuments and Statues

Contents: 5 Statues, 2 Tombs, 4 Pillars



















14874 Funeral Accessories

Contents: Coffin Carriage with Coffin, adorned with Flowers Sandstone Sarcophagus, 2 Coffins with Flowers







HO 14885 Flowerpots

Contents: 27 Flowerpots and Troughs

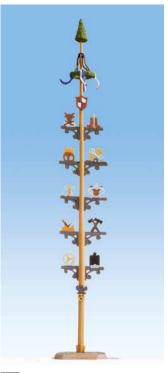




HO 14886 Flowepots

Contents: 18 Flowerpots and Troughs





0 14890 Maypole 21 cm high

### Figures to Match:



HO 15578 People in traditional costume



HO 15832 Beer Garden



HO 15857 Dancing people

#### **Painted Fences**

With nine different versions of wooden and metal fences, you'll find a nice selection of hand-painted fences from us. Thanks to their careful painting, the models look as detailed as the originals! You can put into effect a wide variety of fence shapes with these elements, which can be combined in multiple ways.

Depending on the type of fence, you can find straight pieces, garden gates, drives, crumbled fence parts and much more. Some of the most beautiful fence models that we have are also available for fans of TT and N gauges.







HO 13010 Field Fence

18 pieces, 1.2 cm high in total approx. 100 cm long

N 33010 Field Fence

18 pieces, 0.7 cm high in total approx. 58 cm long





13015 Rail Fencing

18 pieces, 1.4 cm high in total approx. 97 cm long





HO 13030 Field Fence

12 pieces, 1.3 cm high in total approx. 100 cm long

TT 43030 Field Fence

12 pieces, 0.9 cm high in total approx. 80 cm long

33030 Field Fence

12 pieces, 0.7 cm high in total approx. 60 cm long





13040 Field Fence

13 pieces, 1.3 cm high in total approx. 100 cm long





HO 13060 Abandoned Fence

24 pieces, 1.6 cm high in total approx. 91 cm long

T 43060 Abandoned Fence

24 pieces, 0.9 cm high in total approx. 65 cm long





HO 13070 Garden Fence

22 pieces, 1.2 cm high in total approx. 91 cm long

TT 43070 Garden Fence

22 pieces, 0.9 cm high in total approx. 71 cm long

N 33070 Garden Fence

22 pieces, 0.7 cm high in total approx. 55 cm long





13080 Garden Fence

18 pieces, 1.3 cm high in total approx. 97 cm long





HO 13100 Residential Fence

14 pieces, 3.1 cm high in total approx. 84 cm long





13140 Wrought Iron Fence

13 pieces, 2.0 cm high in total approx. 82 cm long



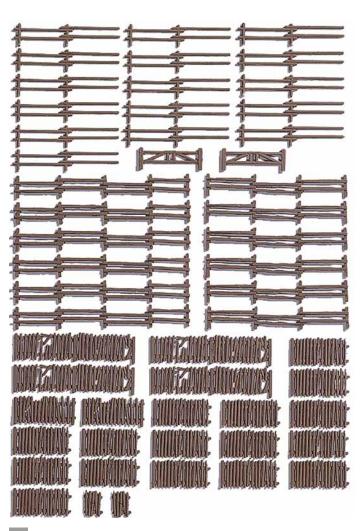
### Fences Economy Packs

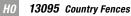
The popular, high-quality NOCH Fences are also available unpainted in the cost-effective economy packs. Each H0 set contains fences with a total length of over 250 cm (TT set over 200 cm; N set over 150 cm). Equipping your model railway with realistic-looking model fences has never been so economic!



Best

value!





TT 43095 Country Fences

N 33095 Country Fences					
Fences E	conomy Packs				
Ref.	Description	Contents	Gauge		
13095	Country Fences	53 sections; total length approx. 290 cm	H0		
43095	Country Fences	53 sections; total length approx. 220 cm	TT		
33095	Country Fences	53 sections; total length approx. 170 cm	N		

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Tatalana Januara Januara
Wille Wille Wille

HO 13096 Garden Fences

TT 43096 Garden Fences

N 33096 Garden Fences

Fences Economy Packs			
Ref.	Description	Contents	Gauge
13096	Garden Fences	72 sections; total length approx. 270 cm	Н0
43096	Garden Fences	72 sections; total length approx. 200 cm	TT
33096	Garden Fences	72 sections; total length approx. 150 cm	N

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Ø

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HO 1502902 City Cleaner »Friedrich«



1502903 City Cleaner »Beppo«



HO 1502904 City Cleaner »Benjamin«



1502905 City Cleaner »Karl«



1502906 City Cleaner »Walter«



HO 1505201 Chimney Sweeper »Oskar«



HO 1505202 Chimney Sweeper »Felix«



HO 1505203 Chimney Sweeper »Marius«



HO 1505204 Chimney Sweeper »Tim«



HO 1505301 Baker »Hermann«



HO 1505302 Baker »Jaques«



H0 1505303 Baker »Reto«



HO 1505304 Baker »Anton«



0 1505305 Baker »Klaus«



HO 1505501 Bricklayer »Kümmel«



1505502 Bricklayer »Kalle«



0 1505503 Bricklayer »Horst«



HO 1505504 Bricklayer »Ekki«



1506001 Hunter »Hubertus«



HO 1506002 Lumberjack »Joseph«



1506003 Lumberjack »Lukas«



1506004 Lumberjack »Elias«



HO 1506005 Lumberjack »Jonas«



HO 1507001 Service Staff »Sigmar«



1507002 Service Staff »Walter«



1507003 Service Staff »Freya«



1507004 Service Staff »James«



HO 1507005 Service Staff »Bernd«



HO 1507006 Service Staff »Fran«











Z



HO 1508201 Traffic Policeman »David«



1508202 Traffic Policeman »Marcel«



1508203 Traffic Policeman »Rudolf«



**1508204 Traffic Policeman** »Otto«



0 1508205 Traffic Offender »Hugo«



1508206 Traffic Policeman »Hannes«



HO 1508301 Traffic Policeman »Timo«



1508302 Traffic Policeman »Marco«



HO 1508303 Traffic Policeman »Florian«



1508304 Traffic Policeman »Julius«



HO 1508305 Traffic Offender »Oscar«



1508306 Traffic Policeman »Bernd«



HO 1508501 Postman »Herbert«



HO 1508502 Postman »Emil«



HO 1508503 Postman »Friedrich«



1508504 Postman »Gabriel«



0 1508505 Postman »Hubert«



1508506 Postman »Claudius«



HO 1508801 Postman »Manfred«



1508802 Postman »Leo«



HO 1508803 Postman »Ferdinand«



1508804 Postman »Magnus«



HO 1508805 Postman »Urs«



1509002 Police Officer »Liam«



HO 1509003 Police Officer »Eva«



HO 1509004
Police Officer
»Karla«



1509005 Police Officer »Dirk«



**1509006 Police Officer**»Georg«



1509007 Police Officer »Konstantin«



**1509102 Police Officer** »Luis«



HO 1509103 Police Officer »Karoline«



1509104 Police Officer »Birgit«



1509105 Police Officer »Arne«



0 1509106 Police Officer »Volker«



1509107 Police Officer »Paul«



HO 1510801 Motor Mechanic »Rolf«



1510802 Motor Mechanic »Hans«



1510803 Motor Mechanic »Arnold«



1510804 Motor Mechanic »Markus«



HO 1510805 Motor Mechanic »Frank«



1510806 Motor Mechanic »Alex«















HO 1511001 Construction Worker »Hans«



1511002 Construction Worker »Otto«



0 1511003 Construction Worker »Karl«



HO 1511004 Construction Worker »Egon«



0 1511005 Construction Worker »Franz«



1511006 Construction Worker »Klaus«



HO 1521801 Passenger »Anne«



1521802 Passenger »Ewald«



1521803 Passenger »Margret«



HO 1521805 Passenger »Tom«



1521806 Passenger »Hans«



HO 1521901 Passenger »Käthe«



HO 1521902 Passenger »Pierre«



0 1521903 Passenger »Lola«



HO 1521904 Passenger »Daniel«



HO 1521905 Passenger »Helga«



0 1521906 Passenger »Lukas«



HO 1522001 Passenger »Sofia«



HO 1522002 Passenger »Peter«



HO 1522003 Passenger »Moni«



HO 1522004 Passenger »Martin«



HO 1522005 Passenger »Susi«



HO 1522006 Passenger »Rudi«



HO 1522501 Passenger »Hubert«



HO 1522502 Passenger »Mia«



1522503 Passenger »Aaron«



HO 1522504 Passenger »Lena«



HO 1522505 Passenger »Joshua«



HO 1522506 Passenger »Vanessa«



HO 1522601 Business Traveller »Linus«



HO 1522602 Business Traveller »Robin«



HO 1522603 Business Traveller »Samuel«



1522604 Business Traveller »Tim«



1522605 Business Traveller »Christian«



H0 1522606 Business Traveller »Jonas«



HO 1522701 Business Man »Malte«

Z











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HO 1522702 Business Man »Steffen«



1522703 Business Man »Jens«



HO 1522704 Business Woman »Klara«



HO 1522705 Business Man »Lars«



HO 1522706 Business Man »Simon«



1523301 Young Voyager »Joe«



HO 1523302 Young Voyager »Milena«



HO 1523303 Young Voyager »Janick«



HO 1523304 Young Voyager »Gordian«



1523305 Young Voyager »Mary«



HO 1523306 Young Voyager »Jakob«



1524001 Passenger »Peter«



HO 1524002 Passenger »Ralf«



HO 1524003 Passenger »Siglinde«



HO 1524005 Passenger »Leopold«



1524006 Passenger »Josef«



HO 1524101 Passenger »Nils«



HO 1524102 Passenger »Susann«



HO 1524103 Passenger »Kay«



HO 1524104 Passenger »Saskia«



HO 1524105 Passenger »Irena«



HO 1524106 Passenger »Helmut«



HO 1524201 Passenger »Johnny«



0 1524202 Passenger »Edith«



HO 1524203 Passenger »Viktor«



HO 1524204 Passenger »Gertrud«



HO 1524205 Passenger »Johann«



HO 1524206 Passenger »Erik«



HO 1524301 Bus Driver »Konstantin«



1524303
Passengers
»Conny« & »Nele«



1524304 Passenger »Heinrich«



0 1524305 Passenger »Jörg«



HO 1524306 Passenger »Simone«



1524401 Truck Driver »Mateo«



HO 1524402 Truck Driver »Johannes«



1524403 Co-Driver »Janis«













1524404

Truck Driver



Co-Driver

»Martin«



1524406

Co-Driver

»0li«

HO 1526501 Railway Official

»Nicolai«



1526502
Railway Official
»Erika«

H0 1526503
Railway Official
»Vinzent«







1526505 Railway Official »Sven«



1526506 Railway Official »Edmund«



HO 1527501 Shunter »Adrian«



**1527502 Shunter** »Hermann«



1527503 Shunter »Milan«



1527504 Shunter »Laurenz«



1527505 Shunter »Richard«



1527506 Shunter »Timo«



HO 1527601 Rail Worker »Oscar«



0 1527602 Rail Worker »Leander«



HO 1527603 Rail Worker »Lennart«



HO 1527604 Rail Worker »Pascal«



HO 1527605 Rail Worker »Ewald«



0 1527606 Rail Worker »Mike«



HO 1527701 Track Worker »Björn«



1527702 Track Worker »Julien«



HO 1527703 Track Worker »Finn«



1527704 Track Worker »Detlef«



1527705 Track Worker »Silas«



HO 1527706 Track Worker »Lorenz«



HO 1527801 Sitting Worker »Karl«



1527802 Sitting Worker »Albert«



HO 1527803 Sitting Worker »Dirk«



1527804 Sitting Worker »Jan«



1527805 Sitting Worker »Uwe«



HO 1527806 Sitting Worker »Klaus«



HO 1528101 Engine Driver Steam Locomotive »Lukas«



HO 1528102 Engine Driver Steam Locomotive »Jim«



HO 1528103 Engine Driver Steam Locomotive »Paul«

G



7

1

Z









Info Tip: How to order NOCH Individual Figures

Order the figures directly from your local NOCH dealer or online at www.modellfiguren.de.



HO 1528104 Engine Driver Steam Locomotive »Michael«



1528105 Engine Driver Steam Locomotive »Thomas«



HO 1528106 Engine Driver Steam Locomotive »Axel«



1528201 Shunter Epoch III »Ole«



HO 1528202 Shunter Epoch III »Patrick«



1528203 Shunter Epoch III »Felix«



HO 1528204 Shunter Epoch III »Benjamin«



HO 1528205 Shunter Epoch III »Tobias«



HO 1528206 Shunter Epoch III »Nico«



1528301 Engine Driver Electric Locomotive »Moritz«



HO 1528302 Engine Driver Electric Locomotive »Georg«



1528303 Engine Driver Electric Locomotive »Philipp«



HO 1528304
Engine Driver
Electric Locomotive
»Markus«



0 1528305 Engine Driver Electric Locomotive »Tommy«



HO 1528306 Engine Driver Electric Locomotive



H0 1529001 Hobo »Alfred«



HO 1529002 Hobo »Kurt«



**1529003 Hobo** »Alfons«



HO 1529004 Hobo »Bernd«



**1529005 Hobo** »Sam«



H0 1529006 Hobo »Hugo«



HO 1540001 Nun »Theresa«



HO 1540002 Nun »Maria« with »Ben«



0 1540003 Nun »Sarah«



10 1540004 Nun »Jana« & »Paul«



1540101 Monk »Jakobus«



HO 1540102 Monk »Markus«



HO 1540103 Monk »Johannes«



HO 1540104 Monk »Thomas«



0 1540105 Monk »David«



1540106 Monk »Abraham«



1547801 Pedestrian »Michael«



1547802 Pedestrian »Bettina«



1547803 Pedestrians »Robert« & »Max«



1547805 Pedestrian »Hanni«



1547806 Pedestrian »Jürgen«

Note: all figures on this double page are supplied without a bench.













1547901 Pedestrian »Valentin«



1547902 Pedestrian »Stefanie



HO 1547903 Pedestrian »Christoph«



HO 1547904 Pedestrian »Ute« & »Simon«



HO 1547906 Pedestrian »Bernd«



HO 1548001 Pedestrian »Max«



HO 1548002 Pedestrian »Anna«



HO 1548003 Pedestrian »Benni«



HO 1548004 Pedestrian »Sabrina«



HO 1548005 Pedestrian »Steffi«



0 1548006 Pedestrian »Alex«



HO 1551001 Lovers »Helen« & »Steven«



HO 1551801 Shopping »Gerd«



1551802 Shopping »Julia«



HO 1551803 Shopping »Franzi«



HO 1551804 Shopping »Conny«



1551805 Shopping »Emilie«



HO 1551806 Shopping »Sandra«



HO 1553001 Sitting »Kevin«



HO 1553002 Sitting »Lena«



HO 1553003 Sitting »Nadja«



HO 1553004 Sitting »Sabine«



0 1553005 Sitting »Mario«



HO 1553006 Sitting »Victor«



HO 1553201 Sitting »Laura«



HO 1553202 Sitting »Hermann«



HO 1553203 Sitting »Georg«



HO 1553204 Sitting »Berta«



HO 1553205 Sitting »Luise«



HO 1553206 Sitting »Manuel«



1553301 Sitting »Elisabeth«



1553302 Sitting »Maria«



1553303 Sitting »Roland«



1553304 Sitting »Silvia«



HO 1553305 Sitting »Lucia« with »Jan«



1553601 Sitting »Joachim«



HO 1553602 Sitting »Marie«



HO 1553603 Sitting »Hannah«



HO 1553604 Sitting »Kilian«



1553605 Sitting »Charlotte«



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HO 1553606 Sitting »Emanuel«



HO 1554001 Sitting »Magnus«



H0 1554002 Sitting »Manuela«



HO 1554003 Sitting »Silvana«



HO 1554004 Sitting »Jakob«



1554005 Sitting »Raphaela«



HO 1554006 Sitting »Felix«



HO 1555101 Senior Citizen »Martha«



HO 1555102 Senior Citizen »Udo«



HO 1555103 Senior Citizen »Luis«



HO 1555104 Senior Citizen »Willi«



1555105 Senior Citizen »Heidi«



1555801 At the Regulars Table »Roland«



1555802 At the Regulars Table »Axel«



HO 1555803 At the Regulars Table »Kornelius«



1555804 At the Regulars Table »Ruben«



1555805 At the Regulars Table »Richard«



»Elsa«

HO 1556301 Street Musician »Max«



1556302 Street Musician »Charles«



HO 1556303 Street Musician »Freddy«



1556304 Street Musician »Jonny«



HO 1556305 Street Musician »Jaques«



1556306 Street Musician »Charlie«



HO 1557101 Photographer »Carmen«



HO 1557102 Photographer »Nico«



HO 1557103 Photographer »Andreas«



HO 1557104 Photographer »Kurt«



HO 1557105 Photographer »Sabine«



**1557106 Photographer** »Pepe«

HO



0 1557401 Calling »Lisa«



0 1557402 Calling »Vincent«



0 1557403 Calling »Lea« & »Frank«



1557405 Calling »Horst«



1557406 Calling »Miriam«



**1557501 Reading**»Anke«

# Livening up Your Model Landscape

#### **NOCH Tunnels**

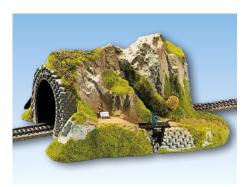
A railway route without tunnel is like a loco without carriages! If you want to liven up your railway route in a very simple way, tunnels are the best solution. It is always fascinating to see a train disappear from one side and reappear on the other! NOCH Tunnels make this especially easy for you: they are hand-painted in natural colours, covered with grass, and usually additionally decorated.

NOCH Tunnels are also ideal landscape pieces for first model landscapes.



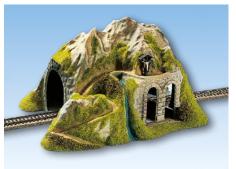
HO

02120 Tunnel
single track, straight
18 x 17 cm, 16 cm high
Headroom 9.3 cm



10 02200 Tunnel

single track, straight 34 x 27 cm, 16 cm high Headroom 9.3 cm



10 **02220** Tunnel

single track, straight 34 x 26 cm, 16 cm high Headroom 9.3 cm



02221 Tunnel

single track, straight 34x25cm, 19cm high Headroom 9.3cm



**02430** Tunnel

double track, straight 30 x 28 cm, 17 cm high Headroom 9.3 cm



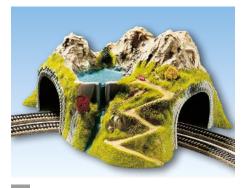
05130 Corner Tunnel

single tack, curved 41 x 37 cm, 19 cm high Headroom 9.3 cm Suitable for R1 or R2



**05170** Corner Tunnel

single track, curved 41 x 37 cm, 22 cm high Headroom 9.3 cm Suitable for R1 or R2



0

**05180** Corner Tunnel

double track, curved 43 x 41 cm, 23 cm high Headroom 9.3 cm Suitable for R1 or R2



67660 Tunnel

single track, straight 38 x 32 cm, 30 cm high Headroom approx. 23.5 cm



77 48670 Corner Tunnel
single track, straight
31 x 18 cm, 14 cm high
Headroom 5.6 cm



TT 48730 Tunnel
single track, curved
37 x 33 cm, 16 cm high
Headroom 5.6 cm



34640 Tunnel single track, straight 18 x 16 cm, 10 cm high Headroom 4.7 cm



34660 Corner Tunnel
single track, curved
25 x 25 cm, 12 cm high
Headroom 4.7 cm
Suitable for R1 or R2



N 34730 Corner Tunnel
double track, curved
23 x 22 cm, 12 cm high
Headroom 4.7 cm
Suitable for R1 or R2



44670 Tunnel
single track, curved
17 x 13 cm, 8 cm high
Headroom 3.2 cm
Suitable for R1 or R2



NOCH Preformed Layouts can be set up in a short amount of time without any specialised knowledge. The »landscape«, a flexible plastic model that is mounted on a sturdy wooden frame, is realistically designed, painted and flocked with grass. Tunnel portals and mounting holes on the sides are bored and tunnel bases cut to size.

Many Layouts are supplied with a complete bridge kit. Track plans are also included. You can also download them all from www.noch.com

Every Preformed Layout (excluding extensions and structured hard foam layouts) is accompanied by the »Preformed Layout« DVD guide. It tells you everything you need to know about assembling a NOCH Preformed Layout.

When laying the tracks, track plans (supplied) help to reflect how the rails of various model railway brands are laid out and to convey information about how electrical connections are made. To get the most true-to-life decoration possible for your layout, we have put together a list of special accessories for you.

Of course, you can also equip the layout according to your own taste.

Even if you want to extend your railway, that's no problem. Almost all NOCH Preformed Layouts correspond to special standardisation. This means that you can choose whichever extensions you like the most or combine several preformed layouts together.

Thus, you can expand to the left, right and front. If the finished layout is temporarily not in use, the \*lightweight\* layout can be effortlessly transported and stored upright.

G O HO TT N Z



# Preformed Layouts

#### The Easiest Way to Achieve Your Dream Layout

If you are dreaming of a model railway but have little time and space, or want to acquire the craftsmanship first, you do not have to miss out on having your own layout. NOCH offers a wide range of Preformed Layouts.

**Note:** various radii are installed on all NOCH Preformed Layouts. The smallest radius 1 is used in inner and outer circles, which can lead to problems when using longer trains and carriages. For example, it is possible that trains or carriages may scrape against bridge railings or tunnel portals. Please pay attention to the manufacturer's information regarding the minimum radius of your trains and waggons.

### Assembling a Preformed Layout - Your Own Model Railway in 4 Steps!

Using the example of our »Schönmühlen« layout (also see page 281), we show you how easily and quickly a NOCH Preformed Layout can be built.

In just eight hours, a beautiful layout is created, which can be developed even more to your heart's content.





Step 1: off we go!

The Preformed Layout »Schönmühlen« is ready for assembly. The tunnel bases and bridge are included, as well as detailed instructions.



#### Step 2: laying tracks.

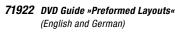
First, the tunnel bases are glued onto the preformed landscape from underneath. Then, the bridge is assembled and installed. The layout is now ready for tracks to be laid and connected up. The fun times can begin once this step has been completed. Finally, the roads and squares are inserted (see page 62 onwards). Time required: approx. 4 hours.





#### »Preformed Layouts« DVD Guide

To make assembling a NOCH Preformed Layout as simple as possible, the »Preformed Layouts« DVD Guide is included with every layout (excluding extensions and structured hard foam layouts). You will learn in three films how easy it is to build a realistically beautiful and unique NOCH Preformed Layout.





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Step 3: glueing on houses.

Next, the buildings (see page 160 onwards) are stuck onto the layout and ballast (see page 20 onwards) is sprinkled over any remaining gaps.

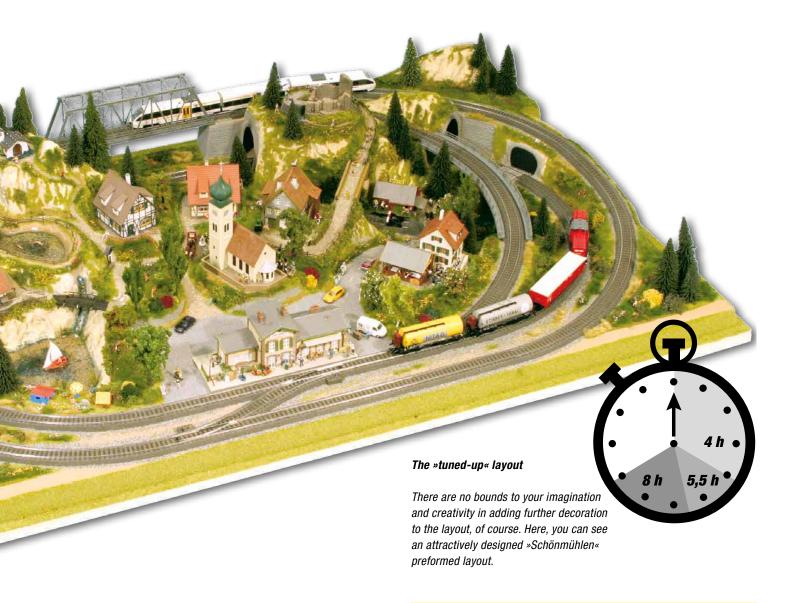




Step 4: adding plants & people.

Trees and bushes (see page 132 onwards) and model railway figures, accessories and vehicles (see page 204 onwards) are now glued on.







### Mountain Idyll for the Home

#### »Mühltal« Preformed Layout

There's a lot going on in the Mühltal display: the trains run on two circuits and locos and carriages can be shunted along four sidings. The large curved bridge is an eye-catcher, and the double track tunnel section through the mountain landscape allows for realistic train operation. »Mühltal« is pure railway modelling pleasure: Alpine character and sophisticated technology - everything the railway modeller needs.

#### Supplied:

- · Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- · H0 bridge kit
- · Track plans for all systems listed in the table
- · »Preformed Layouts« DVD Guide

#### **Expansion options:**

Illustrations and descriptions of the extensions can be found following the preformed layouts.

#### 62200 Aluminium Frame

Aluminium Frame suitable for Preformed Layout »Mühltal« . The Aluminium Frame (ref. 62200) is the ideal support system for the Preformed Layout »Mühltal«. A detailed description of the system can be found on page 294.

#### 48800 Scale Replacement

double track, reduces the tunnel portal from H0 gauge to TT gauge 2 pieces, 14 x 10.5 cm

One set is required for assembling in TT gauge.

The H0 bridges can be used for assembling in TT gauge.

Note: please also pay attention to the information on pages 272 and 273. The BRAWA funicular railway pictured on the layout is no longer available.



#### »Mühltal« Preformed Layout

200 x 100 cm, approx. 32 cm high



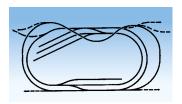


81660

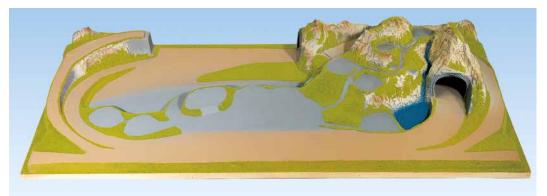
2 railway circuits

Assembly in HO gauge: Märklin® plastic/C track, Fleischmann® Modell / Profi track, Roco® Line, Roco® geoLine, TRIX® C track, PIKO A track

Assembly in TT gauge: TT Model track



H0 track diagram with C track



Supplied basic layout



## Fun with Trains at the Foothills of the Alps

#### »Mittenwald« Preformed Layout

The Preformed Layout »Mittenwald« is a top model in the NOCH range, which maintains its Alpine character through an impressive mountain mass on its right-hand side.

#### Supplied:

- · Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- · H0 bridge kit
- · Track plans for all systems listed in the table
- »Preformed Layouts« DVD Guide

#### Expansion options:

Illustrations and descriptions of the extensions can be found following the preformed layouts. When expanding with extension (ref. 81970), one Foam Ramp (ref. 99360) is required.

#### 62200 Aluminium Frame

Aluminium Frame suitable for Preformed Layout »Mittenwald«. The Aluminium Frame (ref. 62200) is the ideal support system for the Preformed Layout »Mittenwald«. A detailed description of the system can be found on page 294.

48790 Scale Replacement

single track, reduces the tunnel portal from HO gauge to TT gauge 2 pieces, 14 x 10.5 cm

48800 Scale Replacement

double track, reduces the tunnel portal from HO gauge to TT gauge 2 pieces, 14 x 10.5 cm

For assembling in TT gauge, 4 x ref. 48790 and 1 x ref. 48800 are required.

Note: please also pay attention to the information on pages 272 and 273.

#### »Mittenwald« Preformed Layout

200 x 120 cm, approx. 41 cm high

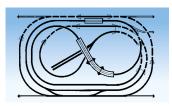
81610

2 railway circuits

#### Assembly in HO gauge:

Märklin® metal / plastic / C track, Fleischmann® Modell / Profi track, Piko A track, Roco® Line, Roco® geoLine, TRIX® C track

Assembly in TT gauge: TT Model track



HO Track diagram basic layout











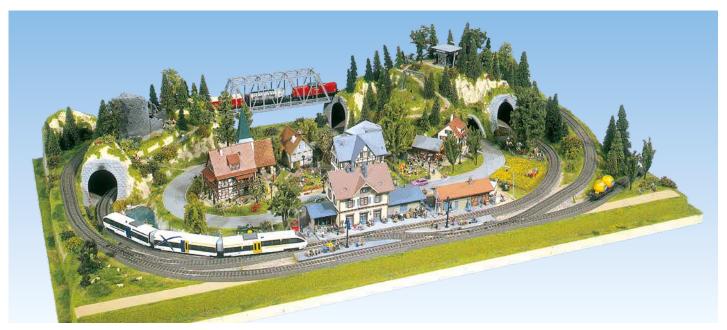
Supplied basic layout and extensions (with extensions shown in grey)

### Realistic Background

To achieve an optimum 3D effect for your NOCH Preformed Layout, we recommend customised photo backgrounds from JoWi.

Please send an e-mail to jowi@modellbahn-hintergrund.de for further information. If you mention the keyword »NOCH Catalogue«, you will receive your JoWi background for a discounted price.





»Rosenheim« Preformed Layout, built in HO

# It's so Easy to Get Your Own Model Railway Started

### »Rosenheim« Preformed Layout

The Preformed Layout »Rosenheim« offers pure railway modelling and playing pleasure on 160 x 100 cm.

The trains make their rounds on two railway circuits around a beautiful small town. Two long tunnels and an impressive bridge make for an interesting drive. A road leads round the centre of town and invites you to play. With a little craftsmanship, this road can also be fitted out with the (single lane) FALLER Car System. Thanks to the standardisation of the NOCH system, the Preformed Layout »Rosenheim« can also later be expanded at any time.

Together with the layout comes the track plans for all listed track systems and a detailed parts list for assembly.

#### Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- Pre-cut tunnel bases
- H0 bridge kit
- Track plans for all systems listed in the table
- · »Preformed Layouts« DVD guide

#### Expansion options:

Illustrations and descriptions of the extensions can be found following the preformed layouts.

### 62160 Aluminium Frame

Aluminium Frame suitable for Preformed Layout »Rosenheim«. The Aluminium Frame (ref. 62160) is the ideal support system for the Preformed Layout »Rosenheim«. A detailed description of the system can be found on page 294.

Bestseller

#### TT

#### 48790 Scale Replacement

single track, reduces the tunnel portal from H0 gauge to TT gauge 2 pieces, 14x10.5cm

Two sets are required for assembling in TT gauge.

**Note:** please also pay attention to the information on pages 272 and 273. The BRAWA funicular railway pictured on the layout is no longer available.

#### »Rosenheim« Preformed Layout

160 x 100 cm, approx. 23.5 cm high

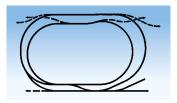


81600

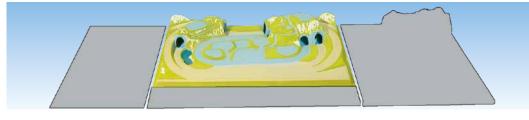
2 railway circuits

Assembly in H0 gauge: Märklin® plastic/C track, Fleischmann® Profi track, TRIX® C track, PIKO A track, Roco® geoLine

**Assembly in TT gauge:** TT Model track



HO Track diagram basic layout



Supplied basic layout and extensions (with extensions shown in grey)

















»Schönmühlen« Preformed Layout, built in HO

#### »Schönmühlen« Preformed Layout

160 x 100 cm, approx. 25 cm high



81710

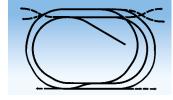
2 railway circuits

#### Assembly in HO gauge:

Märklin® metal/plastic/ C track Fleischmann® Modell/Profi track Piko A track, Roco® Line, Roco® geoLine, TRIX® C track

Assembly in TT gauge:

TT Model track



HO Track diagram basic layout

### Our Medium-Sized Highlands Railway

#### »Schönmühlen« Preformed Layout

»Schönmühlen« is a popular medium-sized layout with an interesting route that leads over two bridges and through two tunnels. Its special charm derives from a lovely small town with a church, railway station and goods shed, as well as a small lake and a country road with an open level crossing. However, the real eve-catcher is a functioning watermill, whose water wheel is operated by a hydrological cycle with a pump. In addition, two railway circuits, a siding and a passing loop allow for a varied train drive.

#### Expansion options:

Illustrations and descriptions of the extensions can be found following the preformed layouts.

#### Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- · H0 bridge kit
- Track plans for all systems listed in the table
- · »Preformed Layouts« DVD Guide

#### 62160 Aluminium Frame

The Aluminium Frame (ref. 62160) is the ideal support system for the Preformed Layout »Schönmühlen«.

A detailed description of the system can be found on page 294.

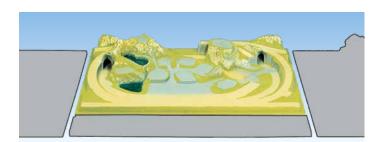


#### 48790 Scale Replacement

single track, reduces the tunnel portal from H0 gauge to TT gauge 2 pieces, 14 x 10.5 cm

Two sets are required for assembling in TT gauge.

**Note:** please also pay attention to the information on pages 274 and 275.



Supplied basic layout and extensions (with extensions shown in grey)



»Königsfeld« Preformed Layout, built in HO

### Train Ride Through Central Franconia

#### »Königsfeld« Preformed Layout

The Preformed Layout »Königsfeld« presents an idyll in the best model railway format. The interesting guided track runs through a central mountainous region with many tourist attractions: a small mediaeval town with a church, a castle atop a mountain, a flowing brook with a lake, an old brick station with goods sheds and, last but not least, a tunnel and pretty, curved bridge.

Two railway circuits and a siding make for an interesting train drive.

- · Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- · H0 bridge kit
- · Track plans for all systems listed in the table
- · »Preformed Layouts« DVD Guide

#### **Expansion options:**

Illustrations and descriptions of the extensions can be found following the preformed layouts.

#### 62160 Aluminium Frame

Suitable for Preformed Layout »Königsfeld«. The Aluminium Frame (ref. 62160) is the ideal support system for the Preformed Layout »Königsfeld«. A detailed description of the system can be found on page 294.

#### 48790 Scale Replacement

single track, reduces the tunnel portal from HO gauge to TT gauge 2 pieces 14 x 10.5 cm

One set is required for assembling in TT gauge.

Note: please also pay attention to the information on pages 272 and 273. The BRAWA funicular railway pictured on the layout is no longer available.

#### »Königsfeld« Preformed Layout

160 x 100 cm, approx. 24 cm high



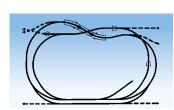
81580

2 railway circuits

#### Assembly in HO gauge:

Märklin® metal/plastic/C track, Fleischmann® Modell/Profi track, Piko A track, Roco® Line, Roco® geoLine, TRIX® C track

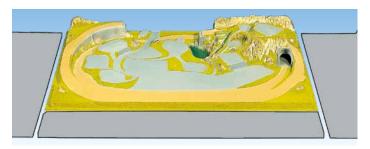
Assembly in TT gauge: TT Model track



HO Track diagram basic layout

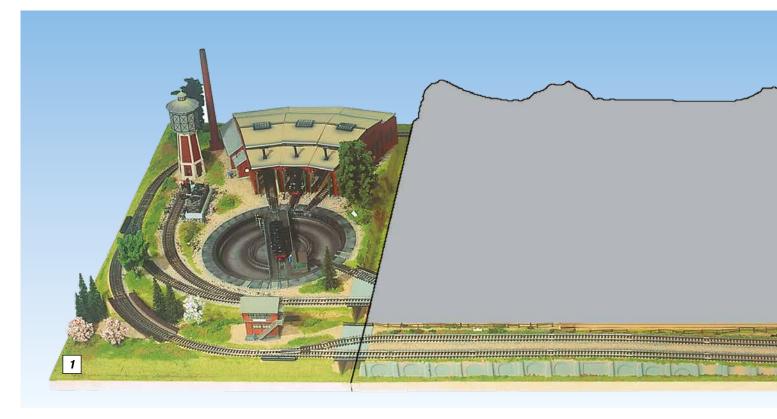






Supplied basic layout and extensions (with extensions shown in grey)





**1** H0

#### 81950 Left Extension Layout »Turntable«

70 x 120 cm, can be shortened to 70 x 100 cm Extension can be used either with a turntable or as an industrial area offering various shunting options.

**Note:** if you shorten the extension ref. 81950 to the length of 100 cm, the aluminium frame must also be reduced to this size.

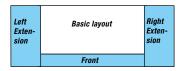
#### Expand with whatever you want, whenever you want!

You can expand your preformed layout at any time.

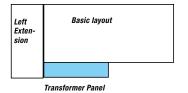
The preformed layouts and extensions rest on a sturdy wooden frame and are secured with the enclosed mounting straps.

Left Exten- sion	-	Right Exten- sion

Some extensions deeper than 100 cm can be shortened to 100 cm in order to be added to a basic layout with this depth.



The total depth is 120 cm if the basic layout is expanded on both sides and on the front.
For basic layouts with a depth of only 100 cm, the Front Extension (ref. 81980) can be attached to the front.



A transformer panel can be mounted if, for example, a basic layout with a depth of 100 cm is extended with a non-shortened extension. The transformer panel is described on page 294.

#### 62070 Aluminium Frame

70 cm deep, 120 cm long 78 cm high

#### TT 48790 Scale Replacement

single track, reduces the tunnel portal from HO gauge to TT gauge 2 pieces, 14x10.5cm

One set is required for assembling the basic layout in TT gauge.

### **2** H

#### 81980 Front Extension Layout

200 x 20 cm, shortable Extension with incline combines the left and right extension.

The transformer panel is screwed on at the front if the space for transformers and control consoles is insufficient. This item is described in more detail on page 294.



Basic layouts of the same depth can be placed directly next to one another. In this way, model railway layouts of different lengths arise, which can then be extended further with extensions. Transformer panels can be added as desired.

This overview shows the numerous options for expanding the basic layout to the left, right, front and front with ready-made extension pieces.

Ref.	Basic layout	Size in cm	Left 81950	Right 81970	Front 81980
81580	»Königsfeld«	160 x 100	•	•	•
81600	»Rosenheim«	160 x 100	•	•	•
81610	»Mittenwald«	200 x 120	•	•	
81660	»Mühltal«	200 x 100	•	•	•
81710	»Schönmühlen«	160 x 100	•	•	•

G

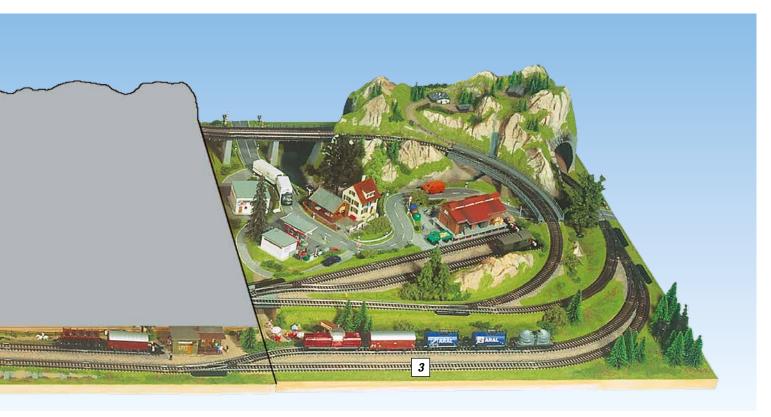


H0

71

Ν

Z





#### 81970 Right Extension

100 x 120 cm, approx. 26 cm high, can be shortened to 100 x 100 cm. Extension with a charming landscape scene, a long tunnel stretch as well as shunting options.

**Note:** if you want to use the extension on a preformed layout with a depth of 120 cm, you will also need one Foam Ramp (ref. 99360).

#### Supplied:

- All extensions are hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- H0 bridge kit (as required)
- · Track plans and mounting straps

**Note:** please also pay attention to the information on pages 272 and 273.

#### 62100 Aluminium Frame

120 x 100 cm, 78 cm high



#### 48790 Scale Replacement

single track, reduces the tunnel portal from H0 gauge to TT gauge 2 pieces,  $14 \times 10.5 \, \mathrm{cm}$ 

Two sets are required for assembling in TT gauge.

**Note:** if you shorten the extension ref. 81970 to the length of 100 cm, the aluminium frame must also be reduced to this size.

#### Track plans (valid for all extensions)

#### Assembly in HO gauge:

Märklin® metal/plastic/C track, Fleischmann® Modell/Profi track, Roco® Line, Roco® geoLine, TRIX® C track, PIKO A track

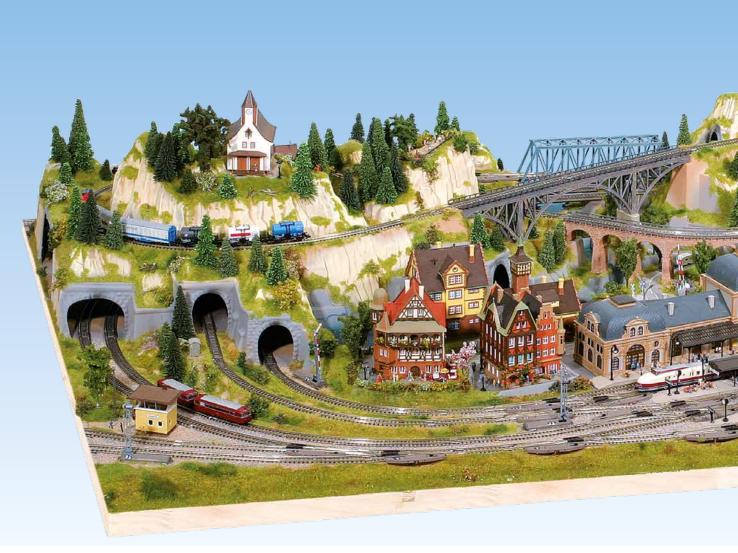
#### Assembly in TT gauge:

Extensions are suitable for TT, track plans not available

Ref.	Basic layout	Size in cm	Left 81950	Right 81970	Front 81980
80690	»Grafenweiler«	150 x 100	•	•	•
81500	»Mindelheim«	220 x 120	•	•	
81550	»Salzburg«	200 x 120	•	•	
81560	»Eschenbach«	160 x 100	•	•	•
81570	»Röthenbach«	160 x 100	•	•	•
81590	»Steigerwald«	150 x 100	•	•	•
81600	»Waldburg«	140 x 100	•	•	•
81604	»Tannau«	160 x 100	•	•	•
81620	»Altmühl«	200 x 100	•	•	•
81630	»St. Peter«	160 x 100	•	•	•
81640	»Rheingau«	150 x 100	•	•	•
81650	»Badgastein«	150 x 100	•	•	•
81660	»Breisgau«	175 x 100	•	•	•
81670	»Arosa«	160 x 100	•	•	•
81670	»Seeblick«	160 x 100	•	•	•
81680	»Seeberg/ Simmental«	150 x 100	•	•	•

The extensions also fit discontinued layouts from our range, such as:					
Ref.	Basic layout	Size in cm	Left 81950	Right 81970	Front 81980
81700	»Lahnstein«	160 x 100	•	•	•
81700	»Münsterland«	140 x 100	•	•	•
81710	»Frankenalb«	150 x 100	•	•	•
81710	»Althausen«	150 x 100	•	•	•
81720	»Freiburg«	160 x 100	•	•	•
81720	»Kurpfalz«	150 x 100	•	•	•
81730	»Wildbad«	160 x 100	•	•	•
81750	»Wiesensteig«	140 x 100	•	•	•
81750	»Brauneck«	140 x 100	•	•	•
81760	»Odenwald«	150 x 100	•	•	•
81760	»Kirchberg«	150 x 100	•	•	•
81770	»Weilheim«	160 x 100	•	•	•
81770	»Schönblick«	140 x 100	•	•	•
81780	»Mühlhausen«	140 x 100	•	•	•

**Note:** all available track plans for current and previous preformed layouts can be found at www.noch.com.



»Baden-Baden« Preformed Layout, built in N

## Big Railway Station, Tall Bridges!

#### »Baden-Baden« Preformed Layout

»Baden-Baden« is a particularly attractive large model with a lot of possibilities for operating trains, and thus meets the demands of technically-advanced railway modellers.

A romantic spa town lies in this very realistic-looking lower mountainous region, whose main attraction is the impressive railway station with five through lines and two platforms. Alongside it are a railway rolling-stock division with six sidings and a double incline. Long trains can be placed without any difficulty on the particularly spacious route. Six tunnels, four staggered bridges and a mountain route with a branch line station

make for an extremely realistic train drive. In addition, there is a fully functioning level crossing and a small lake with a flowing brook and weir.

#### N gauge and Z gauge:

Four railway circuits and seven sidings. When assembling in Z gauge, longer, doubled-headed trains (two locomotives) must be in operation along the mountain route.

#### Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- Pre-cut tunnel bases
- N/Z bridge kit
- Track plans for all systems listed in the table
- · »Preformed Layouts« DVD Guide

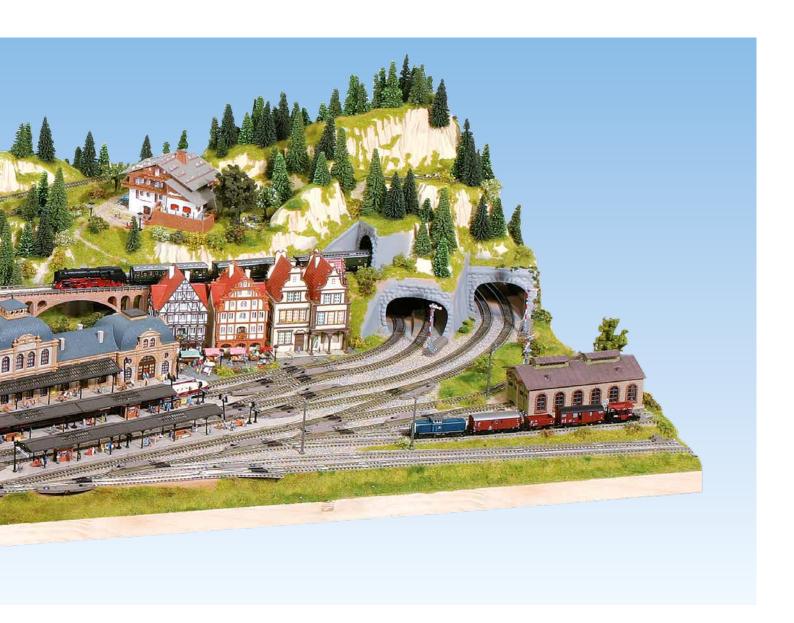
#### **Expansion options:**

Illustrations and descriptions of the extensions can be found following the preformed layouts.

#### 62475 Aluminium Frame

Aluminium Frame suitable for »Baden-Baden« Preformed Layout. The Aluminium Frame\* (ref. 62475) is the ideal support system for the NOCH »Baden-Baden« Preformed Layout. A detailed description of the system can be found on page 294.

G O HO TT N Z



#### »Baden-Baden« Preformed Layout

175 x 100 cm, approx. 31 cm high



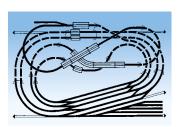
Z 84830

4 railway circuits

Assembly in N gauge: Arnold®, Fleischmann® piccolo, Minitrix®

Assembly in Z gauge:

Märklin® mini-club, ROKUHAN



N Track diagram basic layout





Supplied basic layout and extensions (with extensions shown in grey)

Z 44790 Scale Replacement single track, reduces

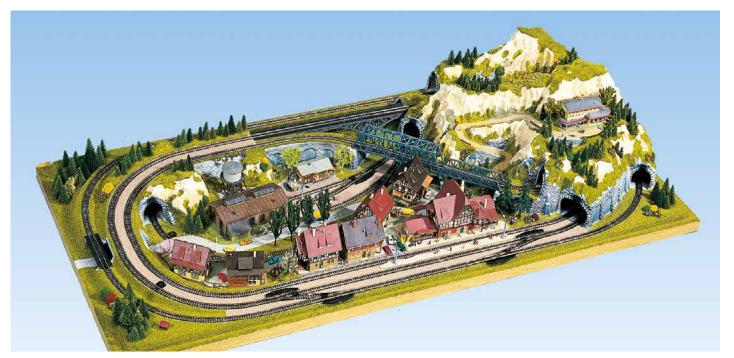
the tunnel portal from N gauge to Z gauge, 9x7cm

Z 44800 Scale Replacement

double track, reduces the tunnel portal from N gauge to Z gauge, 9x7cm

For assembling in Z gauge, 4 x ref. 44790 and 3 x ref. 44800 are required.

**Note:** please also pay attention to the information on pages 272 and 273.



»Staufen« Preformed Layout, built in N

## A lot of Fun with Trains in N Gauge!

### »Staufen« Preformed Layout

The beautifully reproduced lower mountainous landscape, with its spacious mountain guesthouse, gives the »Staufen« layout special charm. But the timber-framed style of the station district, tightly packed against the rails, lets the imagination run free. The lavishly developed network of N-gauge railway track comprises an imposing station, some large bridges and three sidings.

#### Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- Mounted on sturdy wooden frame
- Pre-cut tunnel bases
- Bridge kit
- Track plans for all systems listed in the table
- »Preformed Layouts« DVD Guide

#### Expansion options:

Illustrations and descriptions of the extensions can be found following the preformed layouts.

#### 62440 Aluminium Frame

The Aluminium Frame (ref. 62440) is the ideal support system for the NOCH »Staufen« Preformed Layout. A detailed description of the system can be found on page 294.

**Note:** please also pay attention to the information on pages 272 and 273.

#### »Staufen« Preformed Layout

140 x 69 cm, approx. 27 cm high

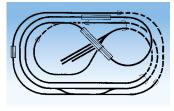


83870

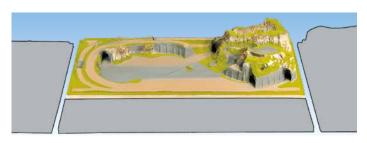
2 railway circuits

#### Assembly in N gauge:

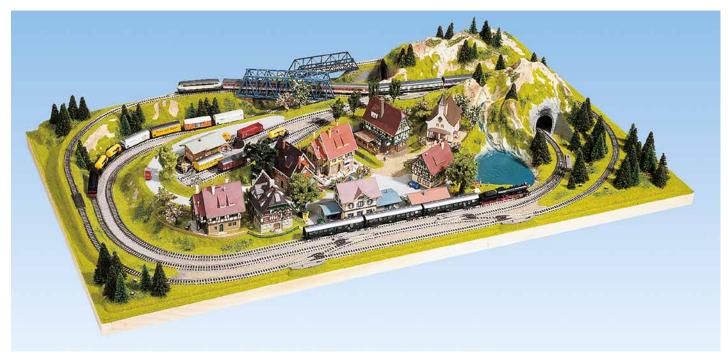
Arnold®, Fleischmann® piccolo, Minitrix®



Track diagram basic layout



Supplied basic layout and extensions (with extensions shown in grey)



»Traunstein« Preformed Layout, built in N

# Amongst the Foothills of the Bavarian Alps...

# »Traunstein« Preformed Layout

»Traunstein« Preformed Layout

125 x 69 cm, approx. 18 cm high





N gauge: 2 railway circuits

Z gauge: 3 railway circuits

## Assembly in N gauge:

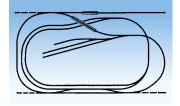
Arnold®, Fleischmann® piccolo, Minitrix®

**Assembly in Z gauge:** Märklin® mini-club, ROKUHAN The foothills of the Alps in the perfect size! The »Traunstein« layout is the ideal size for fascinating driving. With two railway circuits (or three in Z gauge), two bridges and four sidings, »Traunstein« lets you enjoy a varied model railway scene.

The small mediaeval town, the small goods station and the flowing brook with a lake, lend the layout an appealing Alpine flair. This preformed layout can be expanded with all fitting extensions.

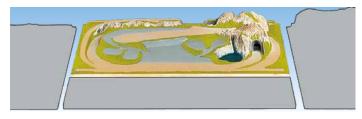
#### Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- N/Z bridge kit
- Track plans for all systems listed in the table
- · »Preformed Layouts« DVD Guide

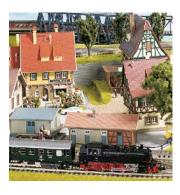


N Track diagram basic layout





Supplied basic layout and extensions (with extensions shown in grey)





## Expansion options:

Illustrations and descriptions of the extensions can be found following the preformed layouts.

## 62425 Aluminium Frame

The Aluminium Frame (ref. 62425) is the ideal support system for the NOCH »Traunstein« Preformed Layout. A detailed description of the system can be found on page 294.



## 44800 Scale Replacement

double track, reduces the tunnel portal from N gauge to Z gauge 2 pieces, 9x7cm

One set is required for assembling in Z gauge.

**Note:** please also pay attention to the information on pages 272 and 273.



»Bergün« Preformed Layout, built in N with KATO Unitrack tracks

# Aiming High into the Swiss Mountains!

# »Bergün« Preformed Layout

We are pleased to present this layout, specially made for the mountaineering trains of the »Rhätische Bahn« and where the Glacier Express, for example, really comes into its own.

This small preformed layout has it all: nowhere else is there so much track on such a little area, with a striking interaction between mountains and valleys, as well as a gradient of up to 5%.

#### Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- · Laser-Cut Bridge Kit
- Hard Foam Quarrystone Viaduct (ref. 34860)
- Track plan for assembly with KATO Unitrack
- »Preformed Layouts« DVD Guide Expansion options:

Due to the Bergün Preformed Layout's varying dimensions, the layout cannot be expanded by NOCH standard extensions.

# 62420 Aluminium Frame

The Aluminium Frame (ref. 62420) is the ideal support system for the »Bergün« Preformed Layout. A detailed description of the system can be found on page 294.

## »Bergün« Preformed Layout

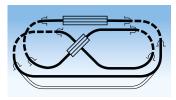
125 x 60 cm, approx. 34 cm high



83860

1 railway circuit

Assembly in N gauge: Only with KATO Unitrack, min. radius 150



Track diagram basic layout

#### Important:

Construction is only possible with KATO Unitrack tracks, since the smallest radius is R150. The layout is designed for KATO Rhätische Bahn® series locomotives and carriages, as well as for trains whose driving characteristics allow for a tight radius and 5% incline. Please note the manufacturer's information when operating with other locomotives and carriages!

More offers; KATO N gauge Unitrack system		
Ref.	Description	
83860 + 7079840	»Bergün« Preformed Layout + KATO Tracks Pack	
7079840	Single KATO Tracks Pack	



Supplied layout

## Note:

Further information on the KATO Unitrack system and the KATO Glacier Express, as well as the KATO Allegra, can be found from page 310 onwards.

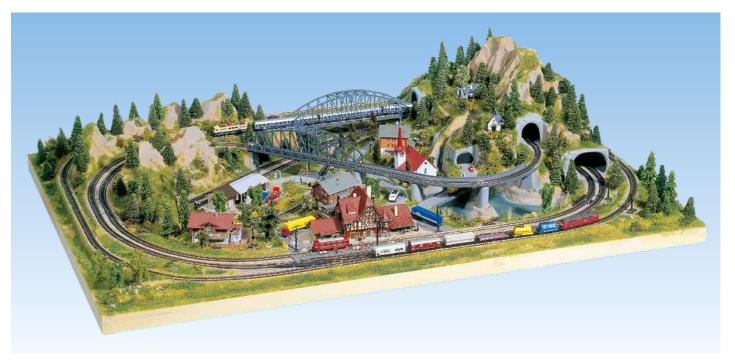
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»Cortina« Preformed Layout, built in Z

## »Cortina« Preformed Layout

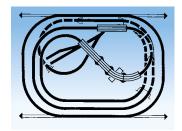
100 x 69 cm, approx. 21 cm high



85880

2 railway circuits

**Assembly in Z gauge:** Märklin® mini-club, ROKUHAN



Track diagram basic layout

# Scaling New Heights!

# »Cortina« Preformed Layout

The interplay between mountain and valley, rock and water, makes for a charming landscape, which is also traversed by an interesting railway route: the Preformed Layout »Cortina« in Z gauge. Detachable mountain peaks facilitate installation. Two sidings and a large lake with a flowing brook round off the layout, which is incidentally also compatible with a functioning catenary system.

#### Bridge Kit

According to the enclosed parts list, Märklin® bridges are required for assembly.

## Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- · Track plans
- · »Preformed Layouts« DVD Guide

## Expansion options:

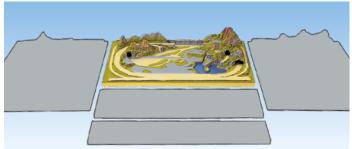
Illustrations and descriptions of the extensions can be found following the preformed layouts.

#### 62400 Aluminium Frame

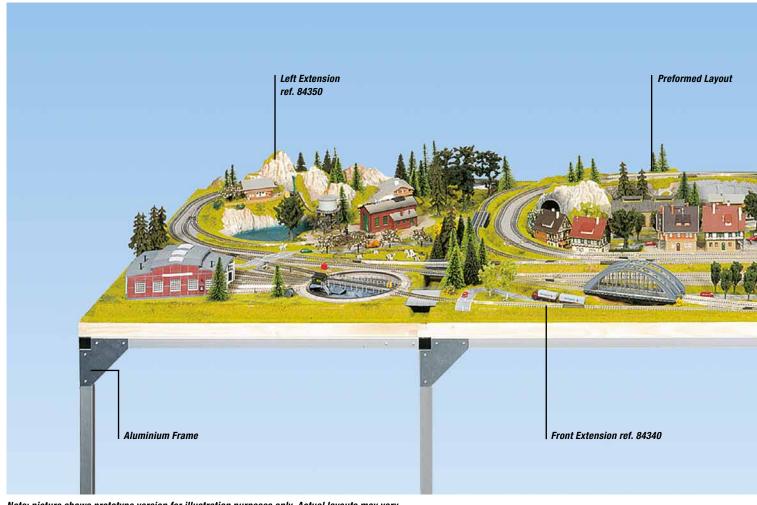
The Aluminium Frame (ref. 62400) is the ideal support system for the »Cortina« Preformed Layout. A detailed description of the system can be found on page 294.

**Note:** please also pay attention to the information on pages 272 and 273.





Supplied basic layout and extensions (with extensions shown in grey)



Note: picture shows prototype version for illustration purposes only. Actual layouts may vary.

## **Expansion Options**

You can immediately or subsequently expand your N- or Z-gauge preformed layout with extensions (excluding the »Bergün« Preformed Layout and Structured Hard Foam Preformed Layouts).

The extensions match the preformed layouts in colour and realistic flocking, with support frames and, where necessary, a bridge kit and tunnel bases. Each extension is equipped with a set of mounting straps.

Preformed Layouts with a width of 69 cm can be lengthened to a width of 100 cm with the help of the Front Extension (ref. 84340). The right or left extensions can then be installed.

For the »Cortina« Preformed Layout, the special Front Extension (ref. 85340) is required.

## Applicable to all extensions: Assembly in N gauge:

Arnold®, Fleischmann® piccolo, Minitrix®

## Assembly in Z gauge:

Märklin® mini-club, (ROKUHAN in preparation)

## Supplied:

- · Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Pre-cut tunnel bases
- N/Z bridge kit, track plans and mounting straps.

## 62369 Aluminium Frame

The ideal support system for all extension layouts shown here

## 84350 Left Extension Layout

69 x 100 cm approx. 16 cm high

## 84340 Front Extension Layout

140 x 31 cm can be shortened to 125 cm

# 85340 Front Extension Layout

100 x 30 cm Compatible only with the preformed layout ref. 85880 »Cortina«

84320 Right Extension Lavout

> 69 x 100 cm approx. 21 cm high

44790 Scale Replacement

single track, reduces the tunnel portal from N gauge to Z gauge 2 pieces, 9x7cm

Two sets are required for assembling the right extension layout in Z gauge.



Ref.	Model	Size in cm	84350 Left Extension	84340 Front Extension	85340 Front Extension	84320 Right Extension
84810	»Traunstein«	125 x 69	•	•		•
83870	»Staufen«	140 x 69	•	•		•
84830	»Baden-Baden«	175 x 100	•			•
85880	»Cortina«	100 x 69	•		•	•
Extension	s also fit discontinued n	nodels from our ran	ge, such as:			
83640	»Jura«	175 x 100	•			•
83740	»Hochgrat«	150 x 100	•			
84820	»Kaiserstuhl«	160 x 100	•			•
84840	»Kufstein«	125 x 69	•	•		•
84850	»Immental«	125 x 69	•	•		•
84860	»Kitzbühel«	140 x 69	•	•		•
84860	»Schluchsee«	140 x 69	•	•		•
84900	»Silbertal«	125 x 69	•	•		•

#### **Aluminium Frames**

If you want to give your model railway layout a firm footing, then the NOCH Aluminium Frame is ideal. The aesthetically pleasing aluminium frame is a very sturdy and yet lightweight support system made of anodised aluminium profiles. It can be mounted under NOCH Preformed Layouts as well as under your own layout. In the table below, you can see which preformed layout or size of layout fits the aluminium frame.

## How the frames are supplied:

Tailor-made aluminium profiles and connecting elements for assembly, including instructions. Height 78 cm.



#### Aluminium Frame:

Sturdy yet lightweight frame made of anodised aluminium forms an aesthetically pleasing support structure for your model landscape.

# Aluminium Frame for NOCH Preformed Lavouts

Aluminium Frame for NOCH Preformed Layouts			
Ref.	Length in cm	Width in cm	
62070	70	120	
62100	100	120	
62150	150	100 + 20*	
62160	160	100 + 20*	
62200	200	100 + 20*	
62220	220	140	
62420	125	60	
62520	220	120	
62550	250	140	
62580	180	100	

<sup>\*</sup> Width up to 120 cm possible



## Transformer Panel and Aluminium Frame

With the help of the Transformer Panels (ref. 50303 and 50305), you can install transformers, control panels and switches on the front of your layout. Among other things, it can be attached to any NOCH Preformed Layout or your own unique layout.

For added stability, the Aluminium Frames (ref. 62600 and 62660) are also available as support systems for the transformer panels.



100 x 20 cm, including legs suitable for Transformer Panel Kit ref. 50305

### 62660 Aluminium Frame

60 x 20 cm, including legs suitable for Transformer Panel Kit item 50303



### 50303 Transformer Panel

60 x 20 cm contents: with 2 angle-irons screws adhesive

### 50305 Transformer Panel

100 x 20 cm contents: with 2 angle-irons screws and adhesive





TT

N

Z

# **Quotation** request

Please give me a quotation for an Aluminium Frame with the following measurements (for complex layouts, e.g. corner layouts, please enclose sketch with exact measurements):

wiatii Giii	Dept

My NOCH dealer: .....

Building or street:

Height: 78 cm (fixed)

City/Country: .....



#### **Customised Aluminium Frames**



We deliver a support system that is an absolutely perfect fit for your model railway's requirements. Even with complex layouts, stabilising the NOCH Aluminium Frame is no problem - even when

installing a hidden storage yard later on. Fill in the adjoining quotation request and send it to us. You will then receive a quotation with which to order the customised support system from your trade dealer. The Aluminium Frame can be delivered to your NOCH dealer or directly to you. If you don't know if there's a dealer in your area, we will search for the nearest specialist store based on your postcode - or you can search online for your nearest dealer at www.noch.com.

# Foam Train Service Tray

Often, it is the little things that determine whether or not a job is fun. The NOCH Foam Train Service Tray is such a »little thing«. Model railway vehicles can be effortlessly and comfortably maintained and repaired with its help. The vehicle is simply inserted and does not have to be held. Both hands are free to work; it cannot tip over and get damaged. Small parts lie safely in a hollow with a magnetic disc, accessible at all times.



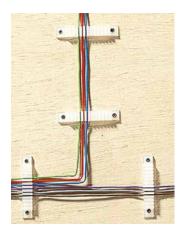


25 cm long (without train and accessories)

99353 Foam Train Service Tray

12 cm long (without train and accessories)

## Cable Ties and Mounting Clips



## 60160 Cable Ties

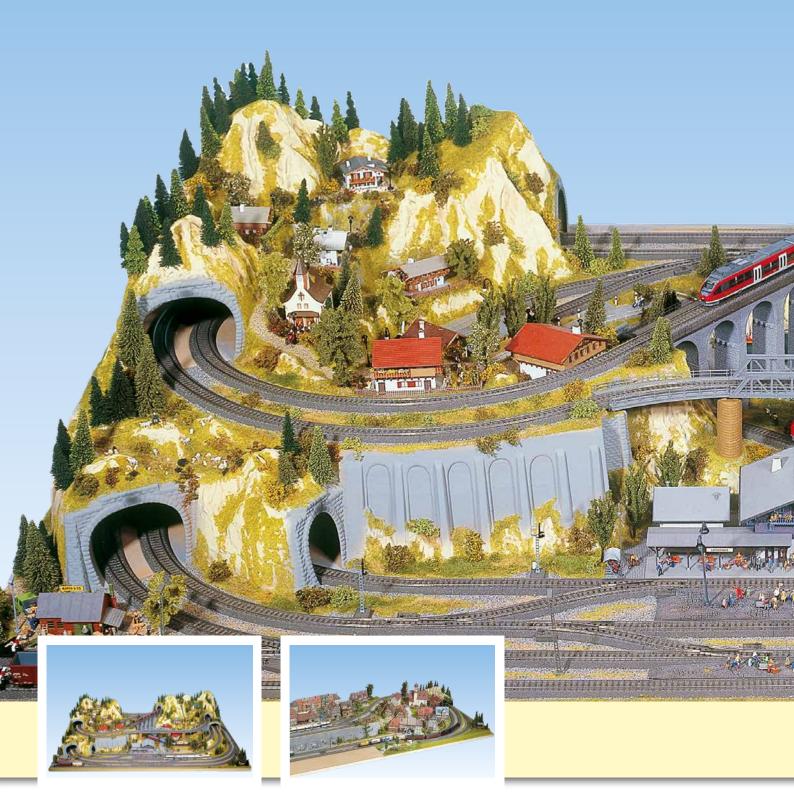
10 clamping strips for each 12 cables, simply stick or nail under the layout and click the cables into the clamps



## 60180 Mounting Clips

20 pieces, simply stick or nail under the layout and pull the cable through the clip





## »Silvretta«

- Basic dimensions: 220 x 140 cm
- Expansion of up to 460 x 180 cm possible through extensions

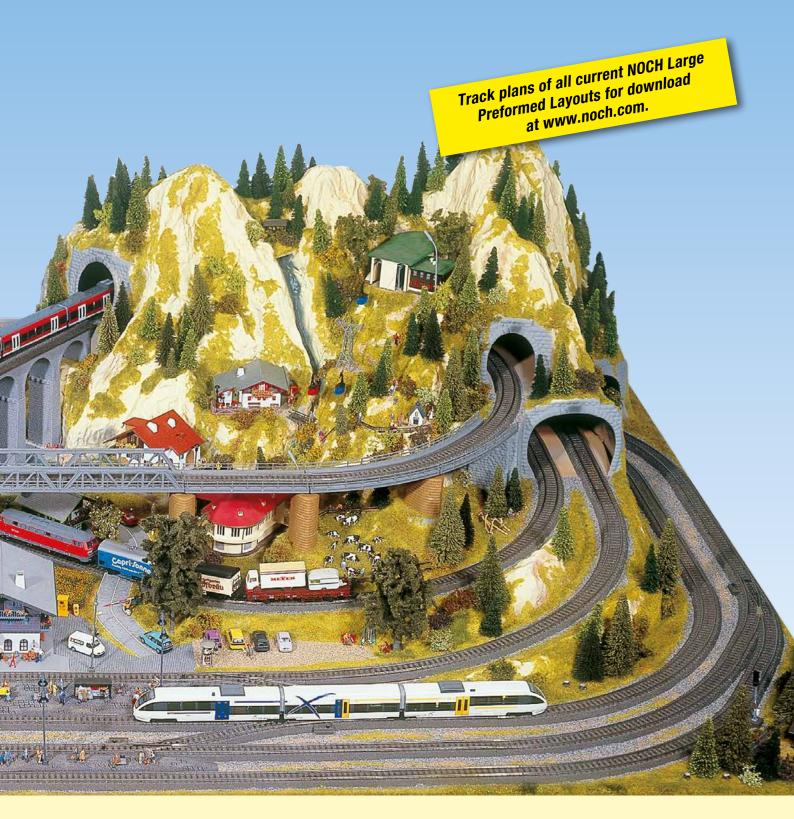
From page 298

# »Heidelberg«

- Modular large layout made of individual modules that can be joined up however you like
- Easy implementation of a long layout and corner solutions

From page 302

G O HO TT N

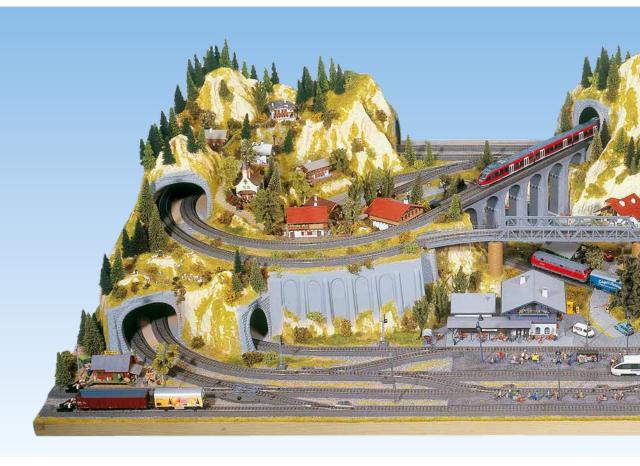


# Large Preformed Layouts

# Layouts for Particularly Exacting Railway Modellers

NOCH Large Preformed Layouts are model landscapes with commanding dimensions. The Large Preformed Layout »Silvretta« offers driving fun on huge tracks, over bridges, through tunnels and along beautiful

landscapes. With the modular layout »Heidelberg«, you can customise your layout from six different modules. The shape and size can be freely adjusted as per your wishes.



»Silvretta« Large Preformed Layout, built in HO

# An Impressive Format!

# »Silvretta« Large Preformed Layout

Full of exciting contrasts — that is how the exquisite area of Silvretta presents itself in real life. And the model version is in no way inferior! Just like the original, the NOCH Large Preformed Layout »Silvretta« shows off an impressive mountainous landscape with the typical reservoirs and flowing brooks. Three independently driving trains, numerous bridges and tunnels, as well as stations with sufficient sidings, leave no railway modeller's wish unfulfilled.

# Supplied:

- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- Mounted on sturdy frame structure
- · Built-in tunnel bases
- H0 bridge kit
- Track plans for all systems listed in the adjacent table (except TT gauge)
- · »Preformed Layouts« DVD Guide

## 62220 Aluminium Frame

The Aluminium Frame (ref. 62220) is the ideal support system for the NOCH Large Preformed Layout »Silvretta«. A detailed description of the system can be found on page 294.

**Note:** please also pay attention to the information on pages 272 and 273.

## »Silvretta« Large Preformed Layout

220 x 140 cm, approx. 52 cm high

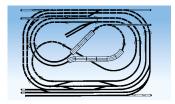


80100

3 railway circuits

Assembly in H0 gauge: Märklin® metal/plastic/C track, Fleischmann® Modell/Profi track, Roco® geoLINE, TRIX® C track

**Assembly in TT gauge:** Suitable for TT



Track diagram basic layout



Supplied basic layout

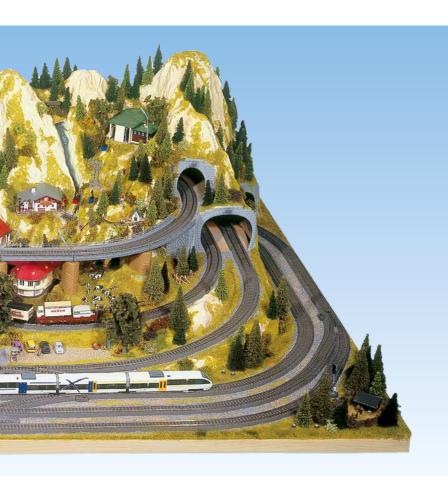
G



H0

TT

N



Track plans of all current NOCH Large Preformed Layouts for download at www.noch.com.







# Expansion Options for the Large Preformed Layout »Silvretta«:

# **Version A**

Step 1 of extension:

HO 80120 »Turntable« Left Extension Layout

<b>80120</b> 100 cm	#3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
------------------------	--

### Step 2 of extension:

HO 80150 Right Extension Layout

80120	Basic layout	80150
100 cm	₹ 220 cm	120 cm

## Step 3 of extension:

НО	80101	Front Extension Layo	ut
----	-------	----------------------	----

HO	H0 80121	Front Extension Layout
		for »Turntable« Extension

HO 80131 Front Extension Layout for Right Extension

<b>80120</b> 100 cm	Basic layout 80100 220 cm	<b>80150</b> 120 cm
80121	O 80101	80131

**Note:** Bridge kits, tunnel bases, mounting straps and track plans are supplied with the extensions. Descriptions of the extensions can be found from page 300 onwards.

# **Version B**

# Step 1 of extension:

HO	80140	»Industrial Harbour«
		Right Extension Layou
HO	<i>8</i> 0101	Front Extension Lavou

140 cm	Basic layout 80100 220 cm	80140	180 cm
40	80101	120 cm	

## Step 2 of extension:

40	00120	»Turntable«		F !	
11/1/11	OUIZU	»Iurntadie«	Len	Extension	Lavout

НО	80121	Front Extension Layout
		for "Turntable" Extension

<b>80120</b> 100 cm	Basic layout 80100 220 cm	<b>80140</b> mo 081
80121	04 <b>80101</b>	120 cm



## Info Tip: Substructure

Using a stable substructure is recommended when assembling and expanding a large preformed layout. The NOCH Aluminium Frame (see page 294) is particularly helpful for this.

# Expansion Options for the NOCH Large Preformed Layout »Silvretta«

A set of specially conceived extensions make it possible to expand your basic layout »Silvretta«. The extensions fit exactly onto the basic layout and are supplied along with: a frame substructure, bridge kits (as required), tunnel bases, mounting straps, machined tunnel portals and mounting holes as well as track plans.

The basic layout and extensions can be lengthened by 40 cm at the front with front extensions. We recommend the NOCH Aluminium Frame as a stable substructure for the basic layout and extensions.

# HO 80150 Right Extension Layout

120 x 140 cm, approx. 46 cm high Assembly in H0: Märklin® plastic / C track Fleischmann® Modell / Profi track Roco® geoLINE. Assembly also suitable for TT.

80120	Basic layout	80150
100 cm	₹ 220 cm	120 cm
80121	9 <b>80101</b>	80131
		-

**62212 Aluminium Frame** 120 x 140 cm

 T. A. T.
110

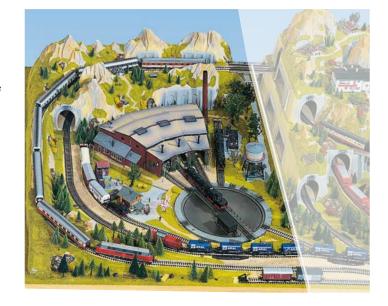
#### 80120 Left Extension Layout »Turntable«

100 x 140 cm, approx. 26 cm high Assembly in H0: Märklin plastic / C track Fleischmann® Modell / Profi track Roco® Line, Trix® C track. Assembly also suitable for TT.

**62210 Aluminium Frame** 100 x 140 cm

80120	E Basic layout	80150
100 cm	220 cm	120 cm
80121	Q 80101	80131

**Note:** the »Silvretta« track plan includes the track plan for the left extension.



## HO 80140 Right Extension Layout »Industrial Harbour«

120 x 180 cm, approx. 30 cm high Assembly in H0: Märklin® metal / plastic / C track, Fleischmann® Modell / Profi track, Assembly also suitable for TT.

**62218** Aluminium Frame 120 x 180 cm

<b>80120</b> 100 cm	Basic layout 220 cm	<b>80140</b> wo 081
80121	04 <b>80101</b>	120 cm

The mountain landscape on the basic layout is expanded to the right by the industrial harbour extension. This results in an interesting contrast.

Two sections of track are led over a double girder bridge. In the harbour area, four sidings provide a realistic shunting operation. To install the »Industrial Harbour« Extension, you will need the Front Extension (ref. 80101) to extend the basic layout to the required 180 cm.

**Note:** the »Industrial Harbour« extension and the right extension include track plans for the front extension.



O H

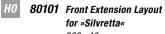
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7 |

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Z



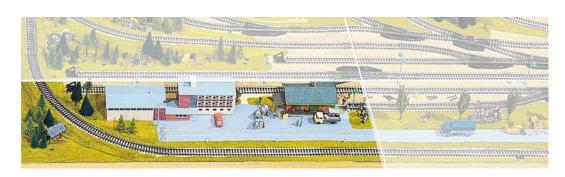


220 x 40 cm

80120	Basic layout	80150
100 cm	0 <del>4</del> 220 cm	120 cm
80121	<sup>9</sup> 80101	80131

62240 Aluminium Frame

220 x 40 cmm



HO 80121 Front Extension
Layout for »Turntable«
Extension
100 x 40 cm

with access ramp

80120	Basic layout	80150
100 cm	04 220 cm	120 cm
80121	9 80101	80131

# 62230 Aluminium Frame

100 x 40 cm



80131 Front Extension Layout for Right Extension

120 x 40 cm

80120	Basic layout	80150
100 cm	220 cm	120 cm
80121	0 <sub>7</sub> 80101	80131

**62231 Aluminium Frame** 120 x 40 cm

	Tan Tanan		
HEHEN C			
	2	The state of the s	10
	minimum.		

Aluminium Frame for NOCH Large Preformed Layouts + Extensions*				
Ref.	Length in cm	Width in cm	Suitable for Preformed Layouts and Extensions	
62220	220	140	»Silvretta«, »Luzern«	
62210	100	140	Left Extension »Turntable«	
62240	220	40	Front Extension ref. 80101	
62230	100	40	Front Extension ref. 80121	
62231	120	40	Front Extension ref. 80131	
62212	120	140	Right Extension	
62218	120	180	»Industrial Harbour«	

<sup>\*</sup> Frames for extensions are not free-standing.

Only to be used as a mounting frame for the frames in conjunction with the basic model.

# Aluminium Frame System

It is very important for large layouts in particular to use a stable and torsion-resistant substructure. This is guaranteed with the Aluminium Frames from NOCH.

A detailed description of the system can be found on page 294.



»Heidelberg«, built in H0 (ref. 80310, 80330 and 80320)

# Everything Fits Together, Almost by Itself!

# »Heidelberg« – the Modular Large Preformed Layout

Fulfil your dream of a model railway layout tailor made to your tastes with the Modular Large Preformed Layout »Heidelberg«. The modular system offers many possibilities. Whether the layout is rectangular or L-shaped, the »Heidelberg« large layout's individual modules can be combined as desired to make up your imagined landscape. Our sketches on the next page show you three examples out of numerous possible ones.

**Note:** the basis for the set-up of the »Heidelberg« is always a combination of the left, right and the station module. The gradient of the inner track is approx. 5.2%; that of the outer track 4.7%.













- 1 Left Module
- 2 Right Module
- 3 Station Module, built as a city railway station with a Transformer Panel
- 4 Station Module, built as a goods station
- 5 Straight Module
- 6 Corner Module

»Heidelberg« Modular Large Preformed Layout, HO gauge			
Ref.	Basic Layout	Size in cm	
80310	Left Module	120 x 100, approx. 22.5 high	
80320	Right Module	120 x 100, approx. 22.5 high	
80330	Station Module	120 x 80, approx. 16 high	
80340	Straight Module	60 x 80, approx. 14 high	
80350	Corner Module	100 x 100	
50303	Transformer Panel	60 x 20	
50306	Transformer Panel	120 x 20	



## Supplied:

- · Deep-drawn thermoform layout
- Basic layout hand-painted and electrostatically flocked (Scatter Grass 2.5 mm, shade summer meadow)
- · Mounted on sturdy wooden frame
- · Built-in tunnel bases
- Track plans for all systems listed in the table

#### Aluminium Frame System

The Aluminium Frame is the ideal support system for the Modular Large Preformed Layout »Heidelberg«. A detailed description of the system can be found on page 294. We would be pleased to provide you with an Aluminium Frame to fit your personal configuration of the »Heidelberg« layout.

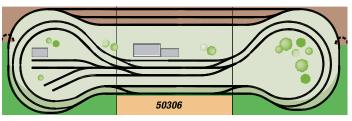
**50303 Transformer Panel** 60 x 20 cm

**50306** Transformer Panel 120 x 20 cm

Suitable for the cut-out section in front of the Station Module (plastic panel on wooden frame, including mounting straps and furniture connectors).

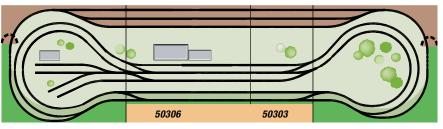
**Note:** please also pay attention to the information on pages 272 and 273.





Alternative A: 80310 - 80330 - 80320





Alternative B: 80310 - 80330 - 80340 - 80320

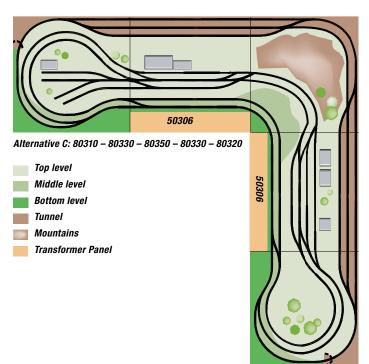


#### »Heidelberg« Modular Large Preformed Layout

2 railway circuits

#### Assembly in HO gauge:

Märklin® plastic/C track, Fleischmann® Profi track, Roco® Line, TRIX® C track





# **Briefcase Layouts**

- The model railway layout in a convenient format
- Safely protected by the shock-resistant aluminium case

From page 306

# **Preformed Layouts**

All briefcase layouts are also available as preformed layouts (flocked with grass or snow and painted)

From page 306

## Christmas Layout

- Pre-mounted with track, ready-to-use
- Including candles

Page 309

G O HO TT N Z



# Model Railway in a Briefcase

# For Model Railway Pleasure – Anytime and Anywhere

Never miss your beloved hobby when travelling, thanks to NOCH. Packed suitably for travel, in a conveniently small format that remains fully functional, the model railway simply layout comes with you in its briefcase.

All Z gauge briefcase layouts and the Z gauge Christmas layout can be ordered with either ROKUHAN Z gauge tracks or with Märklin® mini-club® tracks.

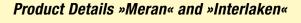






This beautiful Z gauge summer layout offers a lot of driving pleasure in a small space. The varied railway line leads over an imposing viaduct and through an avalanche barrier. In the centre of the layout is a small, pretty village with four illuminated houses.

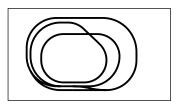
Thanks to the two railway circuits, trains can be controlled independently of each other. The layout is operated either with a 9 V block battery or with the enclosed power supply.



- Ready-to-use model railway layout in an aluminium case (outer dimensions of the case: 79.5 x 54.5 cm, 16 cm high)
- · Fully decorated structured hard foam layout
- · Two railway circuits pre-mounted with track, ready for use
- · Control panel with two speed controllers
- Four illuminated buildings (and lighted Christmas tree in the »Interlaken« model); lights can be individually controlled and set on automatic mode
- Special driving functions:
- adjustable slow speed setting for each track
- adjustable speed synchronisation between the railway circuits
- · Battery compartment for a 9 V block battery
- · Connection for external power supply (supplied)

Track diagram

All briefcase layouts shown on this double page are supplied without locomotives, carriages and block batteries.





Z 88305 »Interlaken« Briefcase Layout with Märklin® tracks





NEW

The snow-covered Z gauge winter layout offers a lot of driving fun.

The romantic route leads through an imposing viaduct and under an avalanche barrier. The visual highlight lies in the centre of the layout: four illuminated houses and a lighted Christmas tree.

Thanks to the two railway circuits, trains can be controlled independently of each other. The layout is operated either with a 9 V block battery or with the enclosed power supply.

# »Meran« and »Interlaken« Preformed Layouts

- Dimensions: 75 x 50.5 cm, approx. 13 cm high
- · Includes track plan
- · Laser-Cut Bridge Kit and Avalanche Barrier included



Z 87000 »Meran« Layout
made of Structured Hard Foam





Z 87005 »Interlaken« Layout
made of Structured Hard Foam







TT

N

Z





88310 »Serfaus« Briefcase Layout with Märklin® tracks



»Serfaus« Briefcase Layout with Rokuhan® tracks



The small, beautiful Z gauge summer layout impresses with its varied route over a bridge and through a tunnel. The four buildings on the layout are illuminated.

The Z gauge layout can be operated either with a 9 V block battery or with the enclosed power supply.



88315 »St Anton« Briefcase Layout with Märklin® tracks



88316 »St Anton« Briefcase Layout with Rokuhan® tracks



The small Z gauge winter layout impresses with its thrilling route over a bridge and through a tunnel. The four houses and lighted Christmas tree are illuminated on the romantic, snowy layout.

The Z gauge layout can be operated either with a 9 V block battery or with the enclosed power supply.

# »Serfaus« and »St Anton« **Preformed Layouts**

- Dimensions: 53.5 x 40.5 cm, approx. 12 cm high
- · Includes track plan
- · Bridge supplied



87010 »Serfaus« Layout

made of Structured Hard Foam



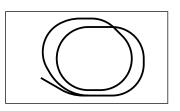


87015 »St Anton« Layout made of Structured Hard Foam



## Product Details »Serfaus« and »St Anton«

- · Ready-to-use model railway layout in an aluminium case (outer dimensions of the case: 57.5 x 43 cm, 16 cm high)
- · Fully decorated structured hard foam layout
- · One railway circuit pre-mounted with track, ready for use
- · Control panel with one speed controller
- · Four illuminated buildings (and lighted Christmas tree in the »St Anton« model); lights can be individually controlled and set on automatic mode
- · Adjustable slow speed setting
- · Battery compartment for a 9 V block battery
- Connection for external power supply (supplied)
- · Note on train arrangement: due to the narrow radii, the carriages used should not be longer than 8.5 cm. In addition, locos with more than four axles (two bogies) should not be used. Locos with leading wheels are increasingly prone to derailment.



Track diagram





88400 »Berchtesgaden« Briefcase Layout with Minitrix® tracks



88401 »Berchtesgaden« Briefcase Layout with Fleischmann® tracks



In the centre of this nice little N gauge layout is a typical Alpine village with four illuminated houses. The varied route leads through a tunnel and over a bridge.

The trains make their rounds on two railway circuits, independently of each other. Power is provided by a power supply device (included).



88405 »Garmisch« Briefcase Layout with Minitrix® tracks



88406 »Garmisch« Briefcase Layout with Fleischmann® tracks



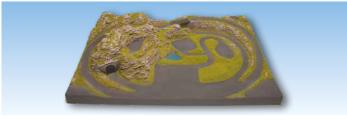
The small, snow-covered village, with its four illuminated houses and lighted Christmas tree, lies in the centre of this romantic N gauge layout. The wintery ride in the mountains leads over a bridge and through a tunnel. The trains make their rounds on two railway circuits, independently of each other. Power is provided by a power supply device (included).

## Product Details »Berchtesgaden« and »Garmisch«

- · Ready-to-use model railway layout in an aluminium case (outer dimensions of the case: 79.5 x 54.5 cm, 16 cm high)
- · Fully decorated structured hard foam layout
- · Two railway circuits pre-mounted with track, ready for use
- · Control panel with two speed controllers
- · Four illuminated buildings (and lighted Christmas tree in the »Garmisch« model); lights can be individually controlled and set on automatic mode
- · Special driving functions:
  - adjustable slow speed setting for each track
  - adjustable speed synchronisation between the railway circuits
- Connection for external power supply (supplied)
- · Note on train arrangement: due to the narrow radii, the carriages used should not be longer than 9 cm

# »Berchtesgaden« and »Garmisch« **Preformed Layouts**

- Dimensions: 75.5 x 51 cm, approx. 13 cm high
- · Includes track plan
- · Bridge supplied

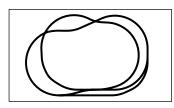


87040 »Berchtesgaden« Layout made of Structured Hard Foam



Track diagram

All briefcase layouts shown on this page are supplied without locomotives and carriages.





87045 »Garmisch« Layout

made of Structured Hard Foam









# Speed Controller and Power Supply

The electronic speed controller has two dials with which two independent circuits can be controlled. Trains can be moved forwards and backwards via the dials; the speed dial has a central zero position.

The speed controller also has four on/off buttons that turn four continuous current outputs on or off. LEDs, for instance, can be connected, whose brightness can also be dimmed via the enclosed potentiometer.

A battery compartment for a 9 V block battery is supplied. This makes it

possible to operate Z gauge locomotives while mobile and on the road, without the need for a plugged-in power supply. (Warning: not suitable for N gauge locomotives!)

To be able to operate a Z gauge (briefcase) layout with the speed controller, the Power Supply (ref. 88171) is also required.

To be able to operate an N gauge (briefcase) layout with the speed controller, the Power Supply (ref. 88172) is also required.



88171 Power Supply for ref. 88163 Z

Z gauge: In combination with the speed controller (ref. 88163) suitable for the operation of Z gauge locomotives, e.g. in a NOCH Model Railway Briefcase gauge Z.

Input: 100-240 V, 50/60 Hz Output: 9 V DC, 1.2 A

output or bo, n.en

88172 Power Supply for ref. 88163 N

N gauge: In combination with the speed controller (ref. 88163) suitable for the operation of N gauge locomotives, e.g. in a NOCH Model Railway Briefcase, gauge N.

Input: 100-240 V, 50/60 Hz Output: 12 V DC, 1 A NEW

N Z

88163 Electronic Speed Controller Kit

# It's Time to Light the Advent Wreath!

# **NOCH Christmas Layout**

A model railway delight, Christmas decoration and the ultimate gift for any model railway fan — the lovely NOCH Christmas Layout »Winter Magic« is all of these things. The small village, heavily covered with snow, shines in Christmassy splendour: houses and Christmas trees are illuminated and the four Christmas tree candles make this little gem a real Advent highlight.

**Note:** to ensure the power supply to the buildings and Christmas tree is long-lasting and stable, a suitable Z gauge transformer is required for operation. The Christmas layout cannot be operated with a battery or rechargeable battery.



88060 »Winter Magic« Christmas Layout

35 x 35 cm, approx. 15 cm high, Winter layout made of structured hard foam, ready-to-use with Märklin® mini-club® Z gauge tracks, decorated, illuminated houses and lighted hristmas tree, incl. 4 Christmas tree candles, supplied without transformer, loco and carriages.

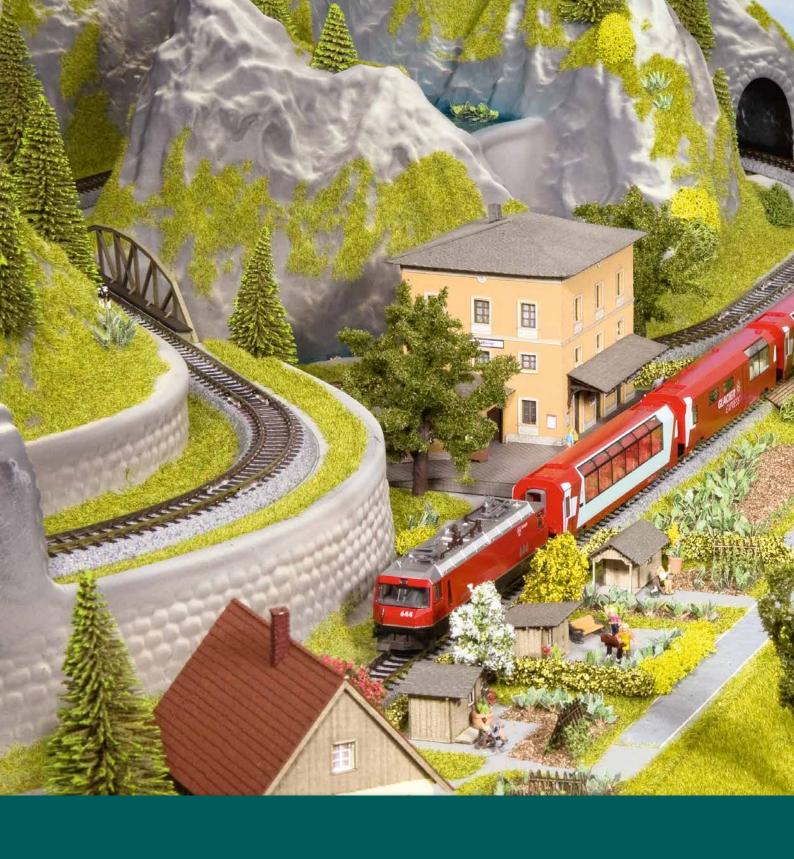
88061 »Winter Magic« Christmas Layout

35 x 35 cm, approx. 15 cm high, Winter layout made of structured hard foam, ready-to-use with Rokuhan Z gauge tracks, decorated, illuminated houses and lighted Christmas tree, incl. 4 Christmas tree candles. Supplied without transformer, loco and carriages.



Info Tip: Replacement Candles

Individual Replacement Christmas Tree Candles (ref. 88076) for the Christmas Layout can be exclusively ordered online at shop.noch.com.



## KATO Power Pack SX - The New, Innovative Model Railway Controller by KATO

The popular speed controller, now with a perfected control panel look for UNITRACK N-/HO-gauge and UNITRAM, thrills with its improved technology and individual power supply for N or H0 for even more driving pleasure on your model railway layout. The speed controller can of course be used in conjunction with tracks and locomotives from Fleischmann®, TRIX®, Roco® or other manufacturers.

Further information can be found on page 321.



Figure shows Power Pack Generation at the end of 2018



# KATO

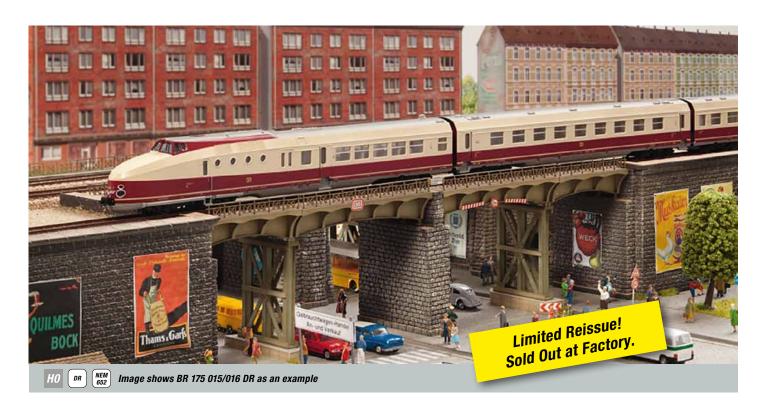
## KATO Locomotives and UNITRAM and UNITRACK Systems.

»Precision railroad models« — this KATO slogan is not an empty promise: it aptly describes the Japanese brand's qualities. Top quality, the highest level of realism and the finest technology have given the Japanese market leader KATO international renown. Particularly in the US, KATO models are enjoying ever greater popularity, and in Germany, the number of followers is growing steadily. This is reason enough for us to distribute these first-rate models from the Far East throughout Europe. In addition to the growing German range, you'll find numerous international models and an

abundance of American locomotives and carriages in the KATO portfolio. Also in the NOCH range — as well as other first-class KATO products — is the UNITRACK system for N and HO gauge. The innovative UNITRAM system also has a lot of fans here. A special feature of both systems is the fact that the tracks can easily be connected with each other and snap into place with an audible »click«.

Further info can be found at www.kato-unitrack.de

*KATO* 310/311



# The Legend has Returned! VT 18.16/BR 175 DR

The train set of the former GDR's East German Railways is back, with a new, high-powered engine, as promised.

The VT 18/BR 175 is a train that is known far beyond Germany's borders. It drove as the »Vindobona« on the Berlin-Vienna line, as the »Neptune« to Copenhagen and as the »Berlinaren« to Malmö. Get this limited edition of the popular legend.

VT 18.16 / BR 175 DR			
Ref.	Description	Gauge	
7073327	BR 175 007-4/008-2 DR, epoch IV 4 pieces, DC (sold out at factory)	но	
7073328	VT 18.16.08 DR, epoch III, 4 pieces, DC (sold out at factory)	HO	
7074885	Interior Lighting with warm white LEDs for analogue or digital operation (for one carriage)	НО	
7074894	FR11 DCC Light Function Decoder	но	

## SVT Rail route between 1963 and 1984

Ext NEPTUN Berlin - Kopenhaben 474 km Fahrzeit 8 h Trajektierung mit FS "Warnemünde"

Ext BERLINAREN Berlin - Malmö 431 km, Fahrzeit 8 h Trajektierung mit FS "SASSNITZ" oder "RÜGEN"

Ext VINDOBONA Berlin - Wien FJBf 737 km Fahrzeit 12 h

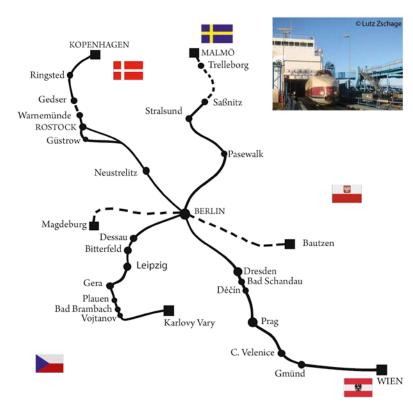
Ext KARLEX Berlin - Karlovy Vary 422 km Fahrzeit 8 h

Ext KAROLA Leipzig - Karlovy Vary 240 km Fahrzeit 4,5 h je Richtung

Dt Berlin - Magdeburg 148 km Fahrzeit 2,5 h (wurde nur im Winterabschnitt 1962/63 befahren)

Dt Berlin - Bautzen 271 km

Ext BERLIN - LEIPZIG als Messesonderzug (nach Verfügbarkeit der Züge)



### Model Features:

- · New high-torque engine
- · Flawless labelling and printing
- · Prototypical light change
- NEM digital interface (8-pin)
- · Prepared for easy retrofitting of interior lighting, compatible with FR11 DCC Light Function Decoder (optional)
- · Sufficient space for installing a sound decoder (optional)



Closed bellows ensure realistic driving





# A New Locomotive Joins the Rhätische Bahn Series: The BoBo, Ge 4/4 II



A new locomotive joins the popular Swiss Rhätische Bahn series. The Ge 4/4 II follows the SBB Re 4/4 in its construction and appearance, with the characteristic round corners and large side windows.

The Ge 4/4 II is the most frequently used loco in the Rhätische Bahn fleet and can thus be found on many routes, be it in passenger or freight traffic. In particular, it can be found towing the Glacier Express on the line from Disentis to St Moritz or the Bernina Express from Chur to St Moritz. The red and grey appearance of the Untervaz 631 corresponds to standard RhB colours and therefore also fits perfectly with the preexisting KATO Rhätische Bahn series.



#### Model Features:

- · Minimum radius: R150
- · Maximum incline: 5%
- · Directional headlight
- · Pre-mounted short coupling (N-gauge coupling enclosed)
- DCC-friendly e.g. digitisation with Board Replacement Decoder from Digitrax (not included)

Ge4/4 II	Glac	ier Express
<b>Ge4/4 II</b>	EW I / E	inheitswagen I
<b>Ge4/4 II</b>	Bern	ina Express
Ge4/4 II	Glacier Express 2 carriages	EW I / Einheitswagen I

Examples of Ge 4/4 II train formations

Ge 4/4 II Untervaz 631			
Ref. Description Gauge			
7074047	Ge 4/4 II Untervaz 631	N	
70DN63K4A DCC PCB Replacement Decoder from Digitrax N			

# »Hakone Tozan« Jubilee Locomotive + 2 EW I Coaches



With this new Ge 4/4 II Hakone Tozan Basic Set incl. two EW 1 coaches (new running numbers), the friendship between Swiss and Japanese railway companies is also honoured by KATO.

Following the Rhätische Bahn's Bernina line, the Japanese Hakone Tozan (mountain) railway network was developed, modelled on the Bernina line. To overcome the steep incline, the Haxone Tozan uses water for wheel rim lubrication. Water boxes, which wet the rails, are installed in the bogies for this purpose. This makes using cogs superfluous, even on the occasionally steep sections that provide access to the beautiful landscape. The partnership of the two railway companies, with their main focus of making beautiful mountain landscapes accessible, got the Ge 4/4 Il 622 a special Hakone Tozan paint job for the 40th anniversary of this friendship.

Ge 4/4 II			
Ref.	Description	Gauge	
7074048	Hakone Tozan + 2 EW I coaches, Rhätische Bahn	N	

# Einheitswagen I (EW I)

With more than 100 vehicles, the passenger cars known as EW I continue to form the largest series of rolling stock of the RhB. The first Einheitswagen I built by FFA and SIG (Swiss manufacturers) were put into operation at the end of 1963. Over a period of about ten years, the EW I stock grew steadily. After nearly three decades of operation, the RhB initiated a comprehensive modernisation programme for the EW I, so that today, a large proportion of vehicles can barely be distinguished from new

The EW I Sets from KATO, in the usual high quality, have been put together in such a way that the most varied, true-to-life train formations are possible.

#### Train formation: EW I with Ge 4/4 II and III

Basic Set A1223 B2347 B2343 B2352 Add-On Set A1241 B2357 B2292 A1227

Ge 4/4 Einheitswagen I















A1241 B2357 B2292



A1223 A1227 B2343 B2352 B2347 A1241 B2357 B2292











The RhB has been driving from Reichenau to Ilanz for 100 years. The 19 km-long route through the rough Anterior Rhine Gorge (Ruinaulta), with its 14 bridges and 3 tunnels, remains one of the masterpieces of engineering.

# **Model Features:**

- Minimum radius: R150/maximum incline: 5%
- Digitisation with Digitrax Decoder (ref. 70DN63K4A; optional)
- Short couplings (2 pcs Arnold replacement couplers as accessories)

# Comfort for Commuters & Tourists »Willem Jan Holsboer« ALLEGRA and Bernina **Express Train Set**

Allegra ABe 8/12 3501 and Bernina Express			
NOCH Ref.	KATO Ref.	Description	Gauge
7074035	10-1273	Allegra ABe 8/12 3501	N
7074036	10-025	Allegra ABe 8/12 Starter Set For contents, see 7074033 (p. 315)	N
7074041	10-1318	Bernina Express Basic-Set, 5 pieces (Allegra 3 pieces with new running number + 2 coaches)	N
7074042	10-1319	Bernina Express Expansion Set, 4-piece coach set	N



## Model Features:

- · Optional interior lighting possible with KATO Standard LED Kit (optinal - not included)
- · Pre-mounted short couplings
- Replacement coupler (2 x short coupler Ge 4/4 III, 2 x short coupler GEX coaches, 2 x bellows for coaches with short coupling)

Einheitswagen I – Passenger Coaches			
NOCH Ref.	KATO Ref.	Description	Gauge
7074044	10-1413	Basic Set - 4 coaches	N
7074045	10-1414	Add-On Set – 4 coaches incl. KATO bookcase box for 8 coaches	N
7074888	11-212	Interior Lighting with LEDs (6 pcs)	N
7074889	11-211	Interior Lighting with LEDs (single pack)	N



7074043 (3101) 100th Anniversary ALBULA and RUINAULTA



Matching accessories			
NOCH Ref.	KATO Ref.	Description	Gauge
7074888	11-212	Interior Lighting with LEDs, 6 pcs.	N
7074889	11-211	Interior Lighting with LEDs, single pack	N
7074894	29-353	Functions Decoder for Interior Lighting (only for Bernina coaches)	N

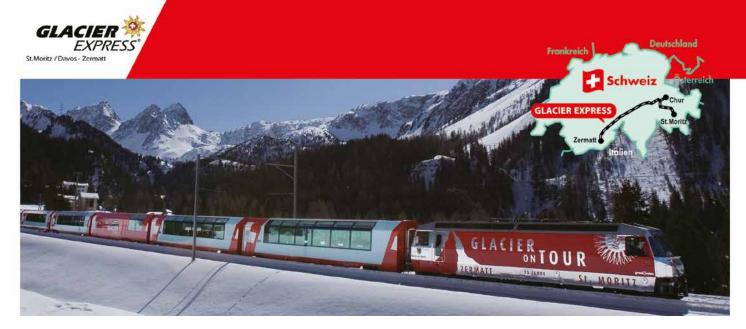








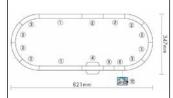




# Glacier on Tour Starter Set

All-in-one starter set! Simply unpack and build – done!





NOCH Ref.	KATO Ref.	Contents	Gauge
7074033	10-006	2 x Straight Track, 248 mm 2 x Straight Track, 124 mm 8 x Curved Track, R150-45° Open Railway Crossing, 124 mm Straight Track, 62 mm Straight Feeder Track, 62 mm Feeder Cable Rerailer Rail Joiner, Removal Tool Power Pack (speed controller) Locomotive Panorama Coaches	N

## KATO RhB Series





#### 7074040

»Die kleine Rote« (The little Red One) special model – exclusive limited edition

## 7074030 (10-1145)

3-piece basic set consists of:

- · Ge 4/4 III Loco
- · 1st Class Panorama Car
- · 2nd Class Panorama Car



# 7074031 (10-1146)

4-piece supplementary set consists of:

- · Panorama Bar Car
- · 1st Class Panorama Car
- · 2nd Class Panorama Car
- · 2nd Class Panorama Car

## Station and platform



**7023245 (23-245A)** Swiss Alps Glacier Express Station

**7074979 (23-129)** Glacier Express Platform

## **Optional accessories**

7074032 (28-186) Glacier Express Short Coupler and Bellows Set (26 pieces)

# 70DN63K4A

**DCC Decoder (Digitrax)** Board replacement decoder



# Commanding US Passenger and Freight Trains

# Milwaukee Road Olympian Hiawatha

Finally! The MILWAUKEE ROAD Olympian Hiawatha will soon also be available in N gauge! Another classic train set comes from KATO USA as well as the EMD FP7A Locomotive, based on new tools. Experience the commanding appearance of this 1952 train, with »Super Dome« and »Skytop Lounge« inscriptions on the cars. The Olympian Hiawatha joins the ranks of well-known US trains, such as the Morning Daylight, California Zephyr, Super Chief and KATO's »Signature Name Train« series!

From 1947 to 1961, the Milwaukee Road Olympian Hiawatha was operated as a tourist train by the Chicago, Milwaukee, St Paul's and Pacific Railroad Company and used between Chicago and the Pacific Northwest. In 1952, the first full-length Super Dome coach made its début, with over 68 dome carriage and 28 lounge carriage seats.

Milwaukee Road Olympian Hiawatha				
Ref.	Description	Gauge		
70106082	9-Car Set Contents of the pack: Baggage-Dormitory No. 1313 48-Seat Coach No. 524 48-Seat Coach No. 531 Super Dome Lounge No. 53 Diner No. 115 Mount St Helen's« 14-Section Touralux Sleeper No. 5746 Lake Pewaukee« 10-6-Sleeper No. 8 Ake Oconomowoc« 10-6-Sleeper No. 5 Coffee Creek« 8-Double Bedroom Lounge Observation No. 15	N		
701060430	Milwaukee Road EMD FP7A and F7B 2-Locomotive Set · FP7A No. 95A · F7B No. 95B (with »Winterization Hatch«)	N		
701762301	Milwaukee Road EMD FP7A No. 95C	N		
7011650	Alternate Number Boards for Milwaukee Road FP7A (Nos. 90A + 90C)	N		
Matching acc	essories			
7074888	Interior Lighting with LEDs (6 pcs.)	N		
7074889	Interior Lighting with LEDs (single pack)	N		

The Union Pacific City of Los Angeles			
Ref.	Description	Gauge	
701765317	E9A Union Pacific with Nose Herald No. 957	N	
701765317DCC	As above, with digital TCS Decoder	N	
701765318	E9A Union Pacific with Nose Herald No. 962	N	
701765318DCC	As above, with digital TCS Decoder	N	
701765354	E9B Union Pacific No. 957B	N	
701765354DCC	As above, with digital TCS Decoder	N	
701765355	E9B Union Pacific No. 962B	N	
701765355DCC	As above, with digital TCS Decoder	N	
70106087	11-Carriage Set (partly new tools)	N	



#### Model Features:

- Fully modified mechanics of the FP7 locomotive and new housing for the F7B to reflect the prototypical features of the Milwaukee Railroad Company
- · New tools for all Hiawatha train cars
- Each car is equipped with low flange wheels and KATO magnetic couplers
- The Super Dome and the characteristic end car, first used in 1952, are kitted out with an exclusive maroon interior and crystal clear windows
- · Option to retrofit KATO Interior Lighting





0 | HO | TT | N



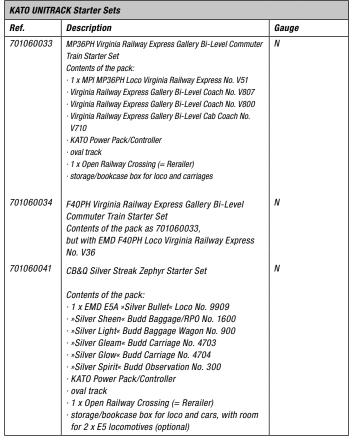


KATO UNITRACK Starter Sets			
Ref.	Description	Gauge	
701060031	MP36PH Chicago Metra Gallery Bi-Level Commuter Train Starter Set Contents of the pack:  1 x MPI MP36PH Loco Chicago Metra No. 416 Chicago Metra Gallery Bi-Level Coach No. 6004 Chicago Metra Gallery Bi-Level Coach No. 6034 Chicago Metra Gallery Bi-Level Cab Coach No. 8527 KATO Power Pack/Controller oval track 1 x Open Railway Crossing (= Rerailer) storage/bookcase box for loco and carriages	N	
701060032	F40PH Chicago Metra Gallery Bi-Level Commuter Train Starter Set Contents of the pack as 701060031, but with EMD F40PH Chicago Metra No. 137 Locomotive	N	





EMD SDP40F Locomotive			
Ref.	Gauge		
701769201	Amtrak Phase I No. 504	N	
701769202	Amtrak Phase I No. 505	N	
701769203	Amtrak Phase II No. 529	N	
701769204	Amtrak Phase II No. 535	N	



# EMD SDP40F Amtrak Phase I for N gauge

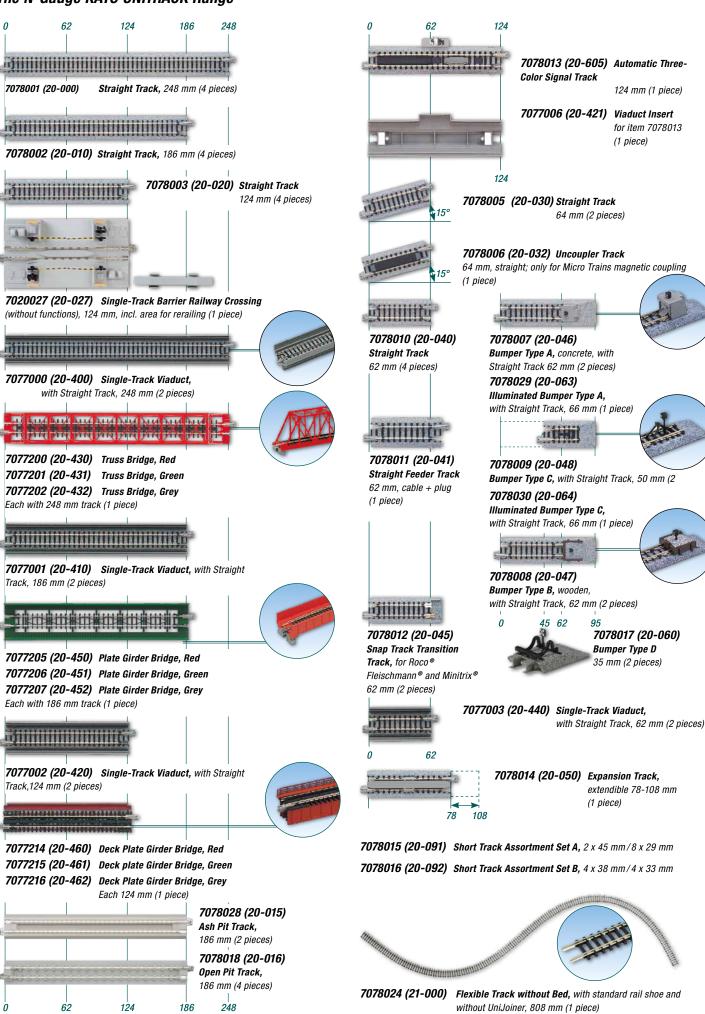
This realistic model version of the SDP40F was Amtrak's first commissioned locomotive to meet its own requirements for the line. The SDP40F is made to form a train with the »El Capitan« (formerly Santa Fe) double-decker passenger coach, which was a transcontinental passenger train until the arrival of the Superliner in 1979, as well as with the new »Southwest Limited« Coach Set. The SDP40F is thus a must-have for every die-hard N railway modeller.

## Model Features:

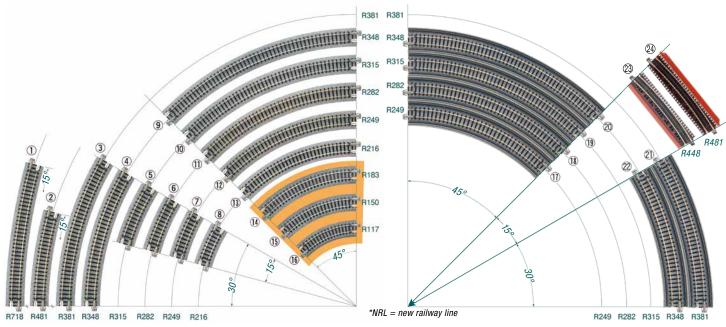
- · Structure as originally supplied
- Amtrak Phases I and II are the perfect complement to the »El Capitan« and »Southwest Limited« Sets
- · Equipped with KATO magnetic knuckle couplers
- Warm white LED directional headlights, as well as printed, illuminated running number plates
- High-powered 5-pole motor with current collection on all burnished wheels
- DCC-friendly

Matching car	sets	
Ref.	Description	Gauge
70106079	Amtrak »El Capitan« 10-Car Set	N
70106081	Amtrak »Southwest Limited« 8-Car Set	N

## The N-Gauge KATO UNITRACK Range



 $G \mid O \mid HO \mid TT \mid N \mid$ 



Curved Tracks						
	NOCH Ref.	KATO Ref.	Description			
1	7078108 (4 pcs.)	20-150	Curved Track R718-15°			
2	7078109 (4 pcs.)	20-160	Curved Track R481-15°			
3	7078107 (4 pcs.)	20-140	Curved Track R381-30°			
4	7078105 (4 pcs.)	20-130	Curved Track R348-30°			
5	7078104 (4 pcs.)	20-121	Curved Track R315-15°			
6	7078102 (4 pcs.)	20-111	Curved Track R282-15°			
7	7078110 (4 pcs.)	20-101	Curved Track R249-15°			
8	7078113 (4 pcs.)	20-171	Curved Track R216-15°			
9	7078106 (4 pcs.)	20-132	Curved Track R348-45°			
10	7078103 (4 pcs.)	20-120	Curved Track R315-45°			
11	7078101 (4 pcs.)	20-110	Curved Track R282-45°			
12	7078100 (4 pcs.)	20-100	Curved Track R249-45°			
13	7078112 (4 pcs.)	20-170	Curved Track R216-45°			
14	7078118 (4 pcs.)	20-172	Curved Track R183-45° (Compact Line)			
15	7078119 (4 pcs.)	20-174	Curved Track R150-45° (Compact Line)			
16	7078122 (4 pcs.)	20-176	Curved Track R117-45° (Compact Line)			

Cur	ved Tracks		
	NOCH Ref.	KATO Ref.	Description
17	7077100 (2 pcs.)	20-505	Single-Track Curved Viaduct, NRL*, R249-45°
18	7077101 (2 pcs.)	20-510	Single-Track Curved Viaduct, NRL*, R282-45°
19	7077102 (2 pcs.)	20-520	Single-Track Curved Viaduct, NRL*, R315-45°
20	7077105 (2 pcs.)	20-530	Single-Track Curved Viaduct, NRL*, R348-45°
21	7077104 (2 pcs.)	20-540	Single-Track Curved Viaduct, NRL*, R381-30°
22	7077103 (2 pcs.)	20-531	Single-Track Curved Viaduct, NRL*, R348-30°
23	7077311 (1 Set)	20-823	Curved Bridge Set (Green R448-60°), with Curved Tracks, 4 Deck Girder Curved Bridges of 15°, 5 Piers incl. Inspection Space Detail Pieces, 6 Warren Brace Catenary Poles incl. Pole Stands
24	7077312 (1 Set)	20-824	Curved Bridge Set (Red R481-60°), with Curved Tracks, 4 Deck Girder Curved Bridges of 15°, 5 Piers incl. Inspection Space Detail Pieces, 2 Half UniJoiners

## The Conversion Track by KATO UNITRACK

If you want to use UNITRACK in the future and have previously installed rails from another manufacturer, transitioning is no problem thanks to KATO's Transition Track.

The transition track's bed is recessed at one end and provided with a commercial rail shoe. Regardless of whether you use N-gauge tracks from Fleischmann-Piccolo®, Roco®, Arnold® or Minitrix®, the transition is easy, practical and reliable with the UNITRACK Transition Track!



# 2 pieces Stationary Decoder for UNITRACK

The DS51K1 is a special decoder for KATO DC turnouts. The Decoder is installed directly in the track bed.

Corresponding recesses already exist. The Decoder receives power directly from the turnout, i.e. from the railway circuit. Additional fiddly wiring is eliminated! The Decoder can be easily accessed and operated with your DCC/NMRA compatible, stationary and mobile turnouts controllers, or with wireless infrared controllers.



Track manufacturers from left to right: Arnold®, Fleischmann-Piccolo®, Minitrix® and Roco®

7078012 Snap-Track® Conversion Track



# Conversion between rails

Since Arnold® rails are offset, the longer end of the two rails must be shortened with a cutting wheel. The conversion to KATO UNITRACK can only be made when both ends are the same length.



Input voltage: max. 20 V; output power: max. 1 A; reaction time: 0.3 secs. Made by Digitrax.

7074893 Sationary Decoder DS51K1

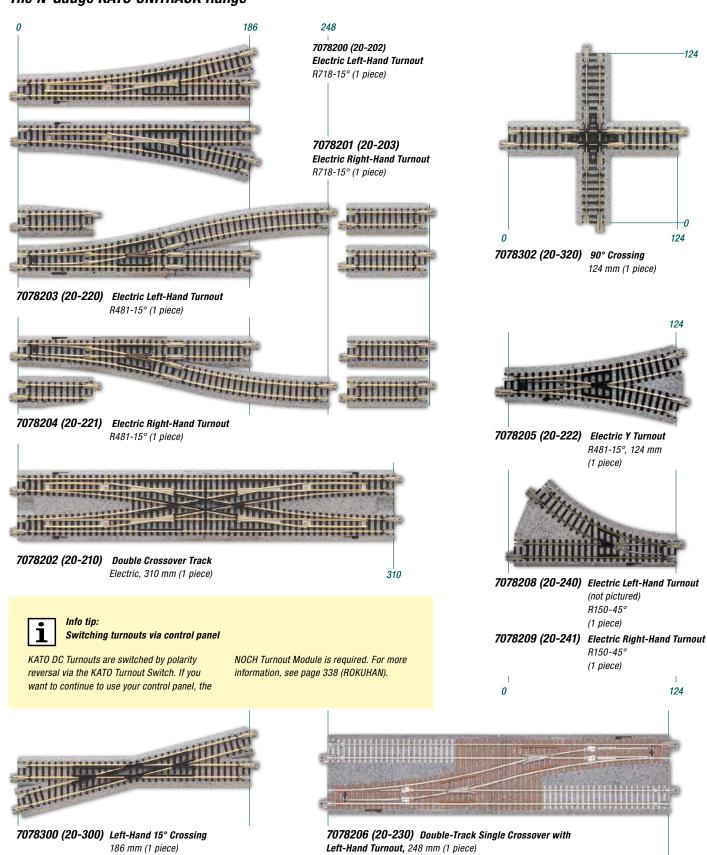
to be used with item 7078200, 7078201, 7078203 and 7078204

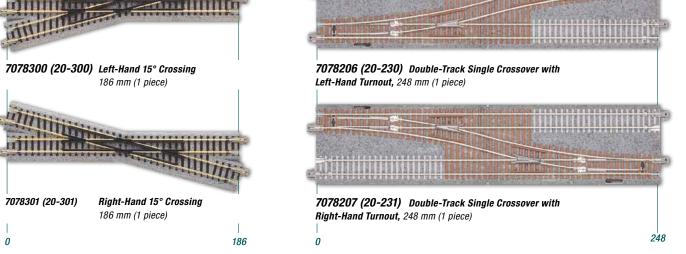
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7074896 Sationary Decoder DS52

to be used with Double Crossover Track 7078202 (no image available)

# The N-Gauge KATO UNITRACK Range







**7078507 (24-815) UniJoiner** (20 pieces)



**7078508 (24-816) Insulated UniJoiner** (20 pieces)



**7077508 (24-818) Terminal UniJoiner,** blue & white, 90 cm



**7077509 (24-825) Extension Cord**, blue & white, for all DC connectors



**7077510 (24-826) Extension Cord,** brown & white, for all AC connectors



**7077511 (24-827) 3-Way Extension Cord,** blue & white, with plug and cable



7077512 (24-828)
Feeder Cord for NRL\* Viaduct
(1 piece)



**7078502 (24-841) Turnout Extension Cord**red & black



**7078500 (24-840) Turnout Control Switch** (1 piece)



7078522 (24-829)
Accessory Adapter Power Pack
for connecting double coil magnet items
from other manufacturers to the Power
Pack



DC Converter (in connection with Turnout Switch 7078500) with AC power supply from other manufacturers

7078503 (24-842)



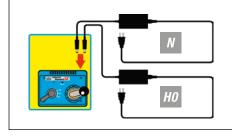
**7078501 (24-843) Terminal Adapter Cord,** blue & white for conversion to KATO plugs

\* NRL = New Railway Line



HO N

**7078535 Power Pack Standard SX** (22-018) Power Supply not included



N 7078536 Power Supply for Power Pack (22-082)



To meet the different power requirements for N and H0 gauge, there are now two different power supplies:

- N-gauge power supply with  $0\sim12~V-1.2~A$
- H0-gauge power supply with 0~16 V 1.2 A

The power supply must always be ordered separately from the Power Pack SX and the Portable Power Supply Distributor.



## Portable Power Supply Distributor:

- Has a separate on/off switch
- Has short-circuit overload protection to prevent damage to the accessories
- Includes control red/green LEDs for quick visualisation of faults
- Supplies output power of 12 V DC with the N-gauge power supply and 16 V DC with the H0-gauge power supply
- · Has a nominal current of 2 A

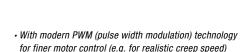
# Following the same principle as the Power Pack, this device supplies:

- •Turnout Switch (7078500)
- · Accessory Adapter (7078522)
- Signal Power Supply (7078504)
- · Automatic Signal Straight Track (7078013)
- SoundBox (7022101)

It can, however, be positioned anywhere from the Power Pack.

# The power connection is also via the new power supplies, which must be ordered separately.

- N-gauge power supply with 0~12 V 1.2 A
- H0-gauge power supply with  $0\sim16~V-1.2~A$



- Increased output power (1.2 A) for optimum DC power supply to the trains
- Optimised for constant continuous light supply in loco and car
- Control red/green LEDs on the device for quick visualisation of faults

Of course, still including the tried and tested master control lever and switch, as well as the side connections for installing turnout switches

**Note:** to connect double-coil magnet items from other manufacturers to the PowerPack, the Accessory Adapter (ref. 7078522) and the Adapter Cord (ref. 7078501) are required.

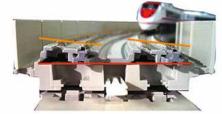
## N-Gauge Double-Track New Railway Line Viaduct

The Double-Track New Railway Line Viaduct track elements from KATO are unique in the world. The elements, which are really easy to lay, are ideal for modern routes and the operation of high-speed trains such as the ICE, TGV or Shinkansen.

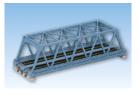
- The tracks can be combined with KATO Single Tracks without difficulty
- The Catenary Poles (ref. 7078520 and 7078521) can also be used
- Slots are already provided in the elements
- The track distance is 33 mm. The matching Double-Track Bridge Piers are 5 cm high

The unique Viaduct Station Set (ref. 7074931) impressively rounds off the range. The station, with a length of 124 cm, is certainly a highlight of your layout.



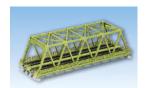


Double-track with concrete sleepers and superelevated rails



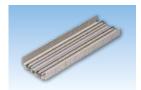
**7077210 (20-436) Truss Bridge, Light Blue** double-track with tracks, 248 mm

**7077213 (20-437)** (not pictured) **Truss Bridge, Silver** double-track with tracks, 248 mm



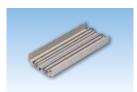
**7077212 (20-438)** (not pictured) **Truss Bridge, Black** double-track with tracks, 248 mm

**7077220 (20-439) Truss Bridge, Green** 2-gleisig mit Gleisen 248 mm

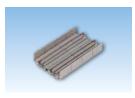


7077004 (20-401) NRL\* Viaduct double-track with straight track, 248 mm (2 pieces)

\*NRL = new railway line



7077005 (20-411) NRL\* Viaduct double-track with straight track, 186 mm (2 pieces)



7077007 (20-422) NRL\* Viaduct double-track with straight track, 124 mm (2 pieces)



**7077107 (20-545) NRL\* Viaduct**double-track with curved track,
R414/381-22.5°
(2 pieces)



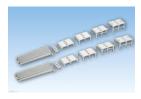
**7077106 (20-544) NRL\* Viaduct**double-track with curved track,
R414/381-45°
(2 pieces)



7077306 (23-019) Concrete Column Pier Set for bridges and NRL\* Viaduct, double-track, 50 mm high (6 pieces)



7077305 (23-020) Pier Set for bridges and NRL\* Viaduct, double-track, 50 mm high (6 pieces)

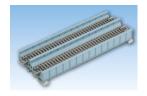


7077309 (20-048)
Viaduct Incline Basic Pier Set
for double-track viaduct tracks
+ ramp (variable heights)
(12-piece set)

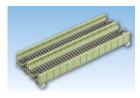


7077308 (20-049) Viaduct Incline Auxilliary Pier Set

Supplementary piers to set 7077309 (10-piece set)



7077217 (20-455) Plate Girder Bridge, Light Blue double-track, 186 mm



7077218 (20-456) Plate Girder Bridge, Light Green double-track, 186 mm



7077219 (20-457) Plate Girder Bridge, Grey double-track, 186 mm



**7077302 (23-017) Viaduct Pier Set** single-track, 50 mm high (5 pieces)



**7077300 (20-015) Incline Pier Set**15-50 mm



7077301 (20-016) Gradual Single Track Incline Pier Set Supplementary piers to set 7077300



**7077310 (23-047) Pier Set**single-track, 50 mm (5 pieces)



**7077304 (24-817) S-Joiner** for securing NRL Viaducts (20 pieces)





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**7078019 (20-004) Straight Track**, double-track with concrete sleepers, 248 mm (2 pieces)



**7078020 (20-012) Straight Track**, double-track with concrete sleepers, 186 mm (2 pieces)



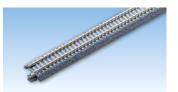
**7078021 (20-023) Straight Track**, double-track with concrete sleepers, 124 mm (2 pieces)



**7078022 (20-042) Straight Track,** double-track with concrete sleepers, 62 mm (2 pieces)



**7078023 (20-043) Straight Feeder Track**, double-track with concrete sleepers, 62 mm (1 piece)

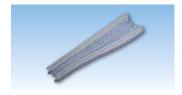


**7078025 (20-875) Straight Track,** for Platforms and Stations, with concrete sleepers, 248 mm (4 pieces)



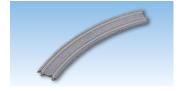
7078026 (20-051)

Double Track Widening Section Left,
310 mm, double-track with concrete
sleepers (1 piece)

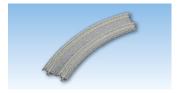


7078027 (20-052)

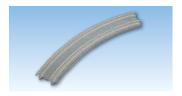
Double Track Widening Section Right,
310 mm, double-track with concrete
sleepers (1 piece)



7078120 (20-185) Superelevated Curve Track, double-track, with concrete sleepers, R480/477-45° (2 pieces)



**7078116 (20-183) Superelevated Curve Track,** double-track, with concrete sleepers, R315/282-45° (2 pieces)



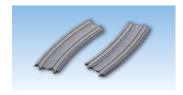
7078114 (20-181) Superelevated Curve Track, double-track, with concrete sleepers, R414/381-45° (2 pieces)



7078117 (20-184) Track Easement Curve Track, Left + Right, double-track with concrete sleepers, R315/282-22.5° (2 pieces)



7078115 (20-182) Track Easement Curve Track, Left + Right, double-track with concrete sleepers, R414/381-22.5° (2 pieces)



7078121 (20-186) Track Easement Curve Track, Left + Right, double-track with concrete sleepers, R480/477-22.5° (2 pieces)

# KATO N-Gauge Slab Track

With the arrival of high-speed trains, the demands on the rails likewise continues to increase. The so-called »ballastless tracks« were thus developed. KATO takes you into this new era of rails.



7078647 Variations-Set V17 (Set)
(20-877) Oval Double Slab Track Set, R414/853
outer dimensions: 1476 x 853 mm



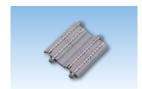
**7078400 (20-006) Double-Track Concrete Slab,**straight, 248 mm (2 pieces)



**7078401 (20-014) Double-Track Concrete Slab,**straight, 186 mm (2 pieces)



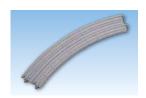
**7078402 (20-025) Double-Track Concrete Slab,**straight, 124 mm (2 pieces)



7078405 (20-044) Double-Track Concrete Slab, straight, 62 mm (2 pieces)



7078406 (20-049) Double-Track Concrete Slab Feeder Track (1 piece)

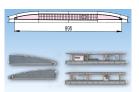


7078403 (20-187) Double Track Superelevated Curve Track, R414/381, 45° (2 pieces)

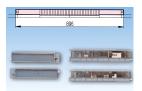


7078404 (20-188) Double Track Easement Curve Track left + right, R414/381, 22.5° (1 piece of each)

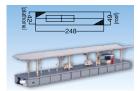
# N-Gauge Platforms, Buildings and Catenary Poles



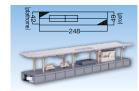
7078509 (20-806) Island Platform Complete Set B, 896 mm, without tracks



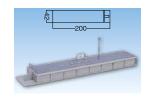
7078510 (20-815) Island Platform Complete Set A, 896 mm, without tracks



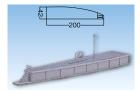
7074915 (23-100) Island Platform A 248 x 42 mm, roofed, with kiosk



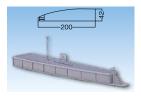
7074916 (23-101) Island Platform B 248 x 42 mm, roofed, with waiting room



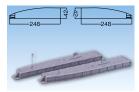
7074918 (23-102) Island Platform End 1 straight bay platform with steps, 42 x 200 mm



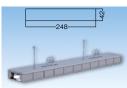
7074919 (23-103) Island Platform End 2 curved one-sided platform, 42 x 200 mm



7074920 (23-104) Island Platform End 3 curved one-sided platform, 42 x 200 mm



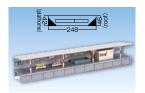
7074921 (23-105) Island Platform End 4, set, R481-15°, 248 x 42 mm



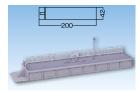
7074917 (23-106) Island Platform D not roofed, 42 x 248 mm



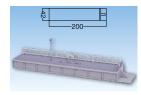
7074922 (23-110) One-Sided Platform A with kiosk, 248 mm



7074923 (23-111) One-Sided Platform B with waiting room, 248 mm



7074924 (23-112) One-Sided Platform End 1 right bay platform, 200 x 42 mm



7074925 (23-113) One-Sided Platform End 2 left bay platform, 200 x 42 mm



7074926 (23-200) Overhead Station Set, 1 platform on lower level



7078517 (23-210) Suburban Station (A)



7023211 (23-211) Suburban Station



7023212 (23-212) Accessories for Suburban Station, for 23-211, 23-126 & 23-127



7074943 (23-234) Suburban Overhead Stairway



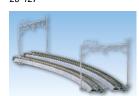
7078520 (23-056) Catenary Pole Base Set without poles (16 pieces)



7078518 (23-057) Modern Double-Track Catenary Set, with curved poles (6 pieces)



7078519 (23-059) Single-Track Catenary Poles without bases (16 pieces)



7078521 (23-060) **Double-Track Catenary Poles** without bases (8 pieces)



7078524 (23-061) Extra Wide Catenary Poles for superelevated double-track tracks (10 pieces)



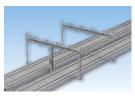
7078525 (23-062) Wide Modern Catenary Poles double-track (10 pieces)



7078526 (23-063) **Truss Catenary Poles** double-track (6 pieces)



7074953 (23-401) **Electricity Pylons Kit** height 198 mm, 3 pylons



7078527 (23-064) Four-Track Catenary Poles (10 pieces)



7074972 (23-122) Modern Overhead Transit Station

284 x 149 mm (matching with 7074976-978 and 7023114-117)



7074973 (23-123) Modern Overhead Transit Station Expansion Set 248 mm x 149 mm

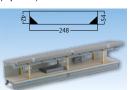


7074968 (23-120) Island Flag Stop Platform. roofed, 638 x 61 mm (8 pieces)

You'll bring your model railway layout to life with these simple kits and ready-made models from KATO! Simple plug-in systems and accessories (where available) make the models easy to adjust and provide an impressive setting.



**7074975 (23-121) One-Sided Platform Set**roofed, 638 x 54 mm
(8 pieces)



7023115 (23-115)
Modern One-Sided
Platform B, Left
suburban one-sided platform



**7074931 (23-125) Viaduct Station Set**1,240 mm, incl. 7074932-934 (5 pieces)



**7074928 (23-300) Long 2-Stall Engine House Kit**187 x 96 mm

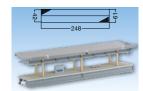


7074938 (23-132) Rural Platform Accessory Set, decorations, signals

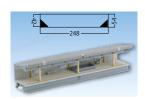


**7074963 (23-226) Yard Buildings Kit** (5 houses), 24 x 34 mm to 40 x 101 mm





**7074976 (23-107) Modern Island Platform**roofed, 248 x 61 mm



7023116 (23-116) Modern One-Sided Platform B, Right suburban one-sided platform



**7074932 (23-230) Viaduct Station Entrance** with exit steps, 248 mm (1 piece)



**7074929 (23-310) Industrial Building,** 3-storey
150 x 75 mm

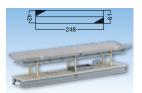


**7074936 (23-220) Rural Station,** basic set 248 x 123 mm



7074964 (23-229) Steam Engine Service Facility Set (7 pieces)





**7074977 (23-108) Modern Island Platform**roofed, with exit steps,
248 x 61 mm



7023117 (23-117) Modern One-Sided Platform End B, Left + Right suburban one-sided platform



7074927 (23-231) Viaduct Station Shops with shopping centre underneath, 248 mm (1 piece)



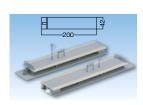
**7074930 (23-315) Station & Signal Tower Kit Set**61.5 x 40/58 x 28 mm



**7074939 (23-221) Rural Freight Platform Kit Set,**278 x 41.5 mm and buildings



**7074965 (23-233) Wooden Station Buildings Set**33 x 42 mm to 48 x 84 mm
(10 pieces)



**7074978 (23-109) Modern Island Platform Ends**200 x 42 mm (2 pieces)



7074974 (23-118) Modern Platform Accessory Set 8 pcs, e.g. waiting room kiosk. lift



7074934 (23-232) Viaduct Platform Extension Set 248 mm (2 pieces)



7074935 (23-130) Rural Station Platform Kit Set, 124 mm, multipiece set incl. shelters, etc.

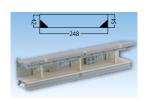


7074941 (23-224) Rural Overhead Stairway Bridge, covered, 98 x 79 mm



7074969 (23-126) Suburban Station for Double-Track Plate 275 x 248 mm, with platform,

248 mm



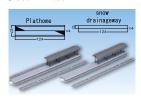
**7023114 (23-114) Modern One-Sided Platform A** suburban one-sided platform



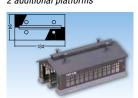
**7023239 (23-239)** Shinkansen Platform Parts Set



**7023240 (23-240) Roundhouse**depth 200 mm, ø 496 mm front,
ø 896 mm back



7074937 (23-131) Rural Station Platform Extension Set, 2 additional platforms



7074962 (23-225) Wood 2-Stall Engine House



7074970 (23-127) Suburban Platform for 7074969 Suburban Station 4 x 248 mm, on 2 base plates

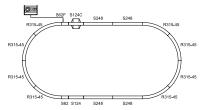
Further information can be found at www.kato-unitrack.de

# Ideal for Quick Starts and Extensions!

## **UNITRACK N-gauge Master and Variation Sets**

## M1

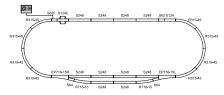
Ref. 7078620 M1 Basic Oval w/ Kato Power Pack/KATO 20-850



Contents: 4 x Straight Track, 248 mm · 1 x Straight Track, 124 mm 1 x Railway Crossing Without Barrier, 124 mm · 1 x Straight Track, 62 mm · 1 x Feeder Track, 62 mm · 8 x Curved Track, R315 mm 45° · 1 x Power Pack for UNITRACK with mains adapter · 1 x Rerailer/UniJoiner Remover (UniJoiner = Track Connector)

## M2

Ref. 7078621 M2 Basic Oval and Siding w/ Kato Power Pack/KATO 20-851



Contents: 10 x Straight Track, 248 mm · 2 x Curved Track, R718 mm 15° · 1 x Straight Track, 124 mm · 1 x Electric Left-Hand Turnout, R718 mm 15° · 1 x Railway Crossing Without Barrier, 124 mm · 1 x Electric Right-Hand Turnout, R718 mm 15° · 2 x Straight Track, 64 mm · 1 x Power Pack for UNITRACK with mains adapter · 1 x Straight Track, 62 mm · 1 x Feeder Track, 62 mm · 2 x Turnout Switch · 8 x Curved Track, R315 mm 45° · 1 x Rerailer and UniJoiner Remover (UniJoiner = Track Connection)

#### V1

Ref. 7078631, Variation Set V1 / KATO 20-860,

Mainline Passing Siding Set Attach a small station and enjoy parking and overtaking

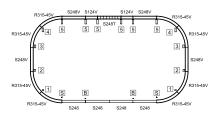
trains.



**Contents:** 6 x Straight Track, 248 mm  $\cdot$  2 x Straight Track, 64 mm  $\cdot$  2 x Curved Track, R718 mm 15°  $\cdot$  1 x Electric Left-Hand Turnout, R718 mm 15°  $\cdot$  1 x Electric Right-Hand Turnout, R718 mm 15°  $\cdot$  2 x Turnout Switch

## V2

Ref. 7078632, Variation Set V2 / KATO 20-861 Single-Track Viaduct Set

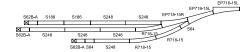


Contents: 4 x Straight Track, 248 mm · 1 x Girder Bridge, silver, with 248 mm track · 4 x Single-Track Straight Vladuct, 248 mm · 2 x Single-Track Straight Vladuct, 124 mm · 8 x Single-Track Curved Vladuct, R315 mm · 45° · 1 x Pier Set (ascending and descending), 16 pieces

#### V3

Ref. 7078633. Variation Set V3 / KATO 20-862.

Rail Yard Switching Set Use this Set to create a goods station with sidings and shunting tracks.



Contents: 6 x Straight Track, 248 mm · 2 x Straight Track, 186 mm · 2 x Straight Track, 64 mm · 3 x Straight Bumper Track, 62 mm · 3 x Curved Track, 718 mm 15° · 2 x Electric Left-Hand Points, R718 mm 15° · 3 x Points Switch



Ref. 7078634, Variation Set V4/KATO 20-863,

Switching Siding Set

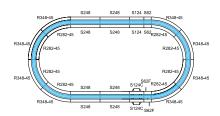
Create a station or signal point to allow trains to overtake.



Contents: 4 x Straight Track, 248 mm · 1 x Straight Track, 62 mm · 2 x Straight Track with left cut, S60L mm · 2 x Straight Track with right cut, S60R mm · 2 x Curved Track, R481 mm 15° · 1 x Electric Left-Hand Points, R481 mm 15° · 1 x Electric Right-Hand Points, R481 mm 15° · 2 x Points Switch

#### V5

Ref. 7078635, Variation Set V5 / KATO 20-864, Inside Loop Track Set, fitting to Master Set M1 For building parallel lines quickly and easily.



**Contents:** 4 x Straight Track, 248 mm  $\cdot$  1 x Straight Track, 124 mm  $\cdot$  1 x Railway Crossing Without Barrier, 124 mm

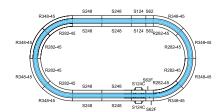
1 x Straight Track, 62 mm · 1 x Feeder Track, 62 mm · 8 x Curved Track R282 mm 45°

1 x Rerailer/UniJoiner Remover (UniJoiner = Track Connector) · outer dimensions: 1.271 mm x 611 mm



Ref. 7078636, Variation Set V6 / KATO 20-865,

Outside Loop Track Set, fitting to Master Set M1 For building parallel lines quickly and easily.



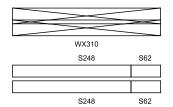
**Contents:** 4 x Straight Track, 248 mm  $\cdot$  1 x Straight Track, 124 mm  $\cdot$  1 x Railway Crossing Without Barrier, 124 mm

1 x Straight Track, 62 mm · 1 x Feeder Track, 62 mm · 8 x Curved Track, R348 mm 45° · 1 x Rerailer/UniJoiner Remover (UniJoiner = Track Connector) · outer dimensions: 1,403 mm x 743 mm

## V7

Ref. 7078637, Variation Set V7 / KATO 20-866

Double Crossover Track Set Set the points for a change of track!



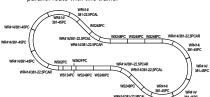
**Contents:** 2 x Straight Track, 248 mm  $\cdot$  2 x Straight Track, 62 mm  $\cdot$  1 x Double Crossover, 310 mm

1 x Turnout Switch

#### V11

Ref. 7078641, Variation Set V11 / KATO 20-870,

Double-Track Set with modern concrete sleepers and cambered track around the curves. Enjoy the advantage of a parallel route with two trains.

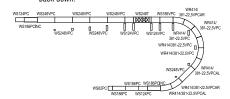


Contents: 7 x Double-Track Straight Concrete Sleeper Track, 248 mm 1 x Double-Track Straight Concrete Sleeper Track, 124 mm · 1 x Double-Track Straight Concrete Sleeper Track, 62 mm · 1 x Double-Track Straight Concrete Sleeper Freder Track, 62 mm · 8 x Double-Track Curved Concrete Sleeper Track, R414/381 mm 45°, cambered · 4 x Double-Track Curved Concrete Sleeper Track, R414/381 mm 22.5°, cambered, left-hand · 4 x Double-Track Curved Concrete Sleeper Track, R414/381 mm 22.5°, cambered, left-hand · 4 x Double-Track Curved Concrete Sleeper Track, R414/381 mm 22.5°, cambered, right-hand · 1 x 78514 Rerailer/UniJoiner Remover (UniJoiner = Track Connector) · outer dimensions: 2,335 mm x 1,261 mm

#### V12

Ref. 7078642, Variation Set V12 / KATO 20-871, Double-Track Viaduct Set

With this Set, you can go up a level, across a bridge and

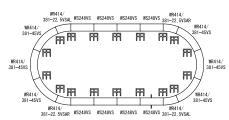


Contents: 2 x Double-Track Straight Concrete Tie Track, 186 mm · 2 x Double-Track Straight Concrete Sleeper Track, 124 mm · 1 x Double-Track Straight Concrete Sleeper Track, 62 mm · 6 x Double-Track Straight Track, 248 mm with concrete sleepers · 1 x Double-Track Viaduct Straight Track, 186 mm with concrete sleepers · 2 x Double-Track Viaduct Straight Track, 186 mm with concrete sleepers · 1 x Double-Track Track Straight Track, 124 mm with concrete sleepers · 1 x Double-Track Track Straight Track, 124 mm with concrete sleepers · 2 x Double-Track Wiaduct Curved Track, R414/381 mm 22.5°, cambered, left-hand with concrete sleepers · 2 x Double-Track Viaduct Curved Track, R414/381 mm 22.5°, cambered, left-hand with concrete sleepers · 2 x Double-Track Viaduct Straight Track, 186 mm ascending with concrete sleepers · 13 x Double-Track Pier · 23 x S-Joiner for Piers · 1 x Rerailer/UniJoiner Remover (UniJoiner = Track Connector)

#### V13

Ref. 7078643, Variation Set V13 / KATO 20-872,

Double-Track Elevated Loop Set



Contents: 8 x Double-Track Straight Track, 248 mm with concrete bases · 6 x Double-Track Curved Concrete Sleeper Track, R414/381 mm 45°, cambered · 2 x Double-Track Curved Concrete Sleeper Track, R414/381 mm 22.5°, cambered · 2 x Double-Track Curved Concrete Sleeper Track, R414/381 mm 22.5°, cambered, right-hand · 18 x Double Viaduct Pier · 2 x Viaduct Double-Track Feeder Cable · 1 x Rerailer/UniJoiner Remover (UniJoiner = Track Connector)

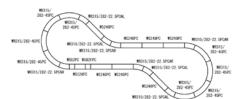
2

V14

Ref. 7078644, Variation Set V14 / KATO 20-873,

Double-Track Inner Loop Set
With modern concrete sleener

With modern concrete sleepers and cambered track around the curves and viaduct piers. Inner oval for V11.



Contents: 4 x Straight Track, 248 mm · 1 x Straight Track, 124 mm 1 x Railway Crossing Without Barrier, 124 mm · 1 x Straight Track, 62 mm · 1 x Feeder Track, 62 mm · 8 x Curved Track R315 mm 45° · 1 x Power Pack for UNITRACK with mains adapter · 1 x Rerailer/UniJoiner Remover (UniJoiner = Track Connector)



Ref. 7078645, Variation Set V15 / KATO 20-874, Double-Track Set for Station Approach



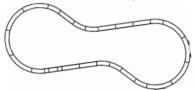
**Contents:** 2 x Double-Track Station Approach, right + left  $\cdot$  4 x Single-Track Track, 124 mm  $\cdot$  4 x Single-Track Track, 248 mm  $\cdot$  2 x Catenary Pole Dummy  $\cdot$  2 x Platform Segment

#### V16

Ref. 7078646, Variation Set V16 / KATO 20-876, Double-Track Outer Loop Set, with new double-to

Double-Track Outer Loop Set, with new double-track radius R480-45° and R447-45°

The new V16 is the outer oval for fitting to the V11. In turn, the V11 fits to the V14. Thus three ovals can be built inside each other. The V16 includes the new radii R480 and R447. The double-track rails are cambered around the curves and fitted with modern concrete sleepers.

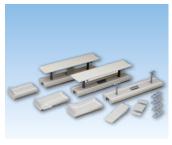


Contents: 7 x Double-Track Straight Track, 248 mm · 1 x Double-Track Straight Track, 124 mm · 1 x Double-Track Straight Track, 62 mm · 1 x Double-Track Straight Feeder Track, 62 mm · 8 x Double-Track Curved Track, cambered R480/447 mm 45° · 4 x Double-Track Curved Track, R480/447 22.5° mm, left camber · 4 x Double-Track Curved Track, R480/447 22.5° mm, right camber · 1 x Rerailer and UniJoiner Remover

## KATO Compact Line Track Sets

Sets with small radii are very space-saving and ideal for locos and carriages with short axles (e.g. KATO RhB Series or Pocket Line). This Set additionally perfectly complements the UNITRAM System and the CV-3

fits perfectly on the Glacier on Tour Starter Set (ref. 7074033) as an outer oval.



**7074979 (23-129) Glacier Express Platform Kit**with timetable Rhätische Bahn (R) (1 set)

### 7078668 (20-890)

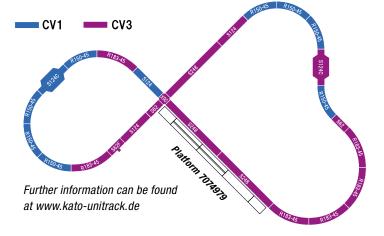
CV1 Compact Oval Set

325 x 573 mm

#### 7078681 (20-891) CV2 Multi-purpose Turnout Set

2 Turnouts (one left + right hand) 2 Curved Tracks, R150-45° mm 2 Turnout Switches, 2 Cords (1 set)

**7078682 (20-892) CV3 Compact Oval Set with Crossing**1011 x 413 mm
(1 Set)



## N-Gauge Electric Turntable

A turntable is a reminder of the good old days, when steam locomotives ruled the rails. But even today, a turntable is still the eyecatcher of every layout. With a height of just 12 mm, i.e. just 5 mm higher than a KATO N-Gauge Track, KATO has again set the standards in the model railway industry. Thus, the Turntable is not only suitable for operating on the kitchen table, but is also optimally suited to (subsequent) installation in your model railway layout — all this without having to massively change

the substructure. The Turntable Bridge has a length of 160 mm. With an offset of 10° each, up to a total of 36 track connections can be individually approached. Even the Basic Set contains everything needed for driving pleasure and can be customised by adding the Extension Set.



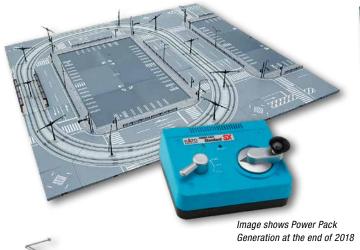
Electric Tu	Electric Turntable			
NOCH Ref.	KATO Ref.	Contents	Gauge	
7020283	20-283	1 x Turntable with Bridge 1 x Bridge Reinforcement 1 x Control Box incl. AC Adapter 1 x Ribbon Connector Cable 1 x Bridging Cable 4 x Straight Feeder Track 6 x Bumper Bed 12 x Bumper Rail 6 x Half UniJoiner 2 x Insulated UniJoiner 1 x UniJoiner Remover	N	
7020284	20-284	Retrofitting Kit for 7020285 (for converting a track into a feeder track), 3 pieces	N	
7020285	20-285	Extension Track Set (Straight)	N	
7020286	20-286	Extension Track Set (Curved)	N	
7020287	20-287	Ribbon Cable Extension, 150 cm	N	
7024850	24-850	Power Feed Control Switch	N	
7024851	24-851	Power Direction Control Switch	N	

#### The Tram System for N-Gauge Railway Modellers

KATO, the N-gauge specialist from Japan, introduced the UNITRAM system for the first time in 2010 and has been consistently developing it ever since. Thanks to its innovative modular system, UNITRAM can be set up quickly, easily and compactly on a table or any other solid surface. UNITRAM produces a whole inner city in N gauge — for railway modellers who want to bring their city to life.

Individual road and rail modules can be combined individually. Three different connecting elements — TramJoiner, PlateJoiner A and B, and UniJoiner — provide the necessary support and stability. The various Expansion Sets include additional accessories, such as stops, fences, streetlamps, catenary poles and the like. Now just add a few houses and figures, and you'll have a model railway road layout that gives you lots of pleasure in no time at all!







#### 7078660 UNITRAM Tram Starter Set

(40-900) With KATO Power Pack and PORTRAM Tram, 682 x 620 mm

2 x Straight Track Module (124 mm), 2 x Curved Track Module (R180 mm),

- 1 x Road Module (124 mm), 2 x Central Road Piece for Crossing,
- 2 x Corner Road Piece for Crossing.

Additionally included: tram stops, stickers, traffic island, catenary poles, fences, signal dummies, traffic lights, streetlamps, rerailer, power connections, joiners.

#### 7078661 UNITRAM V50 Tram Rails Basic Set

**(40-800)** The UNITRAM V50 contains the same number of rails as the Starter Set (7078660). Not included: Power Pack (transformer) and PORTRAM Tram.



#### 7078669 UNITRAM V51 Figure-Eight Crossing Expansion Set (40-801)

The set contains 21 UNITRAM elements with which you can start building customised tram themes or expand on existing sets.

#### The 21-piece set contains:

- 1 x 90° Crossing
- 2 x Curved Tram Track R180-45°
- 4 x Straight Tram Track, 186 mm
- various road elements, streetlamps, traffic lights and fences



# 7078670 UNITRAM V52 Double-Wide Straight Track Expansion Set (40-802)

The set contains 18 UNITRAM elements with which you can start building customised tram themes or expand on existing sets.

#### The 18-piece set contains:

- 2 x Straight Tram Track, 186 mm
- 4 x Straight Tram Track, 124 mm
- various road elements, streetlamps, traffic lights and fences



# **7078671** UNITRAM V53 Street track to Concrete Tie Double Track Expansion Set (40-803)

The set contains 18 UNITRAM elements.
The Transition Tracks are the perfect basis for KATO
UNITRACK connections. The track combines the tram
system's 25-mm parallel track distance with the KATO
UNITRACK geometry's 33-mm parallel track distance.

#### The 18-piece set contains:

- 2 x Straight Tram Track, 186 mm
- 2 x Straight Transition Track, 124 mm
- 2 x Straight Transition Track, 62 mm
- various road elements, streetlamps, traffic lights and fences

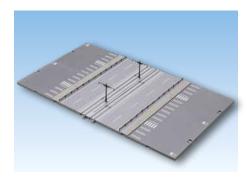
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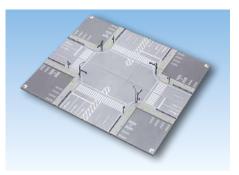
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7078662 UNITRAM V54 Expansion Set
(40-804) straight tram element, incl. streetlamps, catenary poles, fences & tram elements (248 x 434 mm)



7078663 UNITRAM Street Corner Expansion Set
(40-821) road crossing incl. streetlamps, traffic lights
& fences (372 x 434 mm)



7078664 UNITRAM Street Expansion Set
(40-820) road elements incl. streetlamps, traffic
lights & fences (186 x 620 mm)



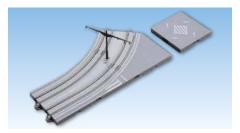
**7078672 Tram Track (40-031)** straight, 62 mm (2 pieces)



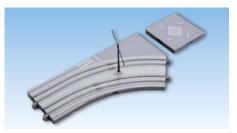
**7078673 Tram Track (40-020)** straight, 124 mm (2 pieces)



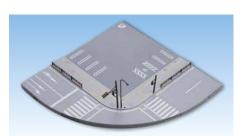
**7078674 Tram Track (40-010)** straight, 186 mm (2 pieces)



**7078675 Tram Track (40-101)** curved, R180 mm-45°, left



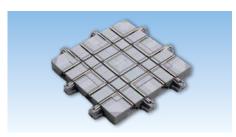
**7078676 Tram Track (40-102)** curved, R180 mm-45°, right



7078680 Road Plate
(41-100) quarter circle inner road plate



7078677 Tram Track Electric Tournout (40-210) Left Hand, R180 mm 7078678 Tram Track Electric Tournout (40-211) Right Hand, R180 mm



**7078679 UNITRAM Tram Platform Set (40-300)** 90°, 62 mm

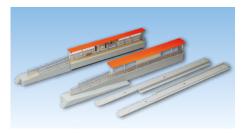


7078684 Tram Track Conversion to Unitram (40-021) Double Track (2 pieces)



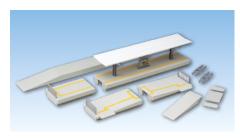
**7078665 UNITRAM Tram Stop Set (43-730)** (186 x 13 mm, 28 mm high)

**7078667 Tram Track Power Feeder Cable (44-847)** 87 cm



**7074980 UNITRAM Tram Platform Set (23-140)** (229 x 30 mm)

7078666 UNITRAM Catenary Pole Set
(43-731) 4 Poles for straight tracks (45 x 47 mm)
6 Poles for curved tracks (69 x 47 mm)

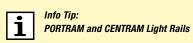


**7074981 UNITRAM Low Platform Set (23-141)** (202 x 20 mm)

## N-Gauge PORTRAM and CENTRAM Light Rail

KATO's Light Rail models make all N railway modellers' hearts beat faster. The models and engines are finely tuned and ingeniously designed. They have pre-installed interior lighting as well as driving lights. The drive unit is mounted low down in the bogies. Each Tram has two engines (1 engine per bogie).





Please note that the light rails may only be operated with max. 10-12 V driving voltage.

PORTRAM	PORTRAM and CENTRAM Light Rail				
NOCH Ref.	KATO Ref.	Description	Gauge		
70148011	14-801-1	PORTRAM TLR0601 (Red)	N *		
70148012	14-801-2	PORTRAM TLR0607 (Purple)	N *		
70148014	14-801-4	PORTRAM TLR0661 (Blue)	N *		
70148015	14-801-5	PORTRAM TLR0605 (Green)	N *		
70148016	14-801-6	PORTRAM TLR0603 (Yellow)	N *		
70148018	14-801-8	PORTRAM TLR0605 (ECO Green)	N		
70148021	14-802-1	CENTRAM 9000 (White)	N		
70148022	14-802-2	CENTRAM 9000 (Silver)	N		
70148023	14-802-3	CENTRAM 9000 (Black)	N		

<sup>\*</sup> Models and technology are constantly in development at KATO. Some trams are therefore currently unavailable or only available in limited quantities.

## **N-Gauge Buildings**

When designing your inner city, we recommend houses from the KATO DIO-TOWN range.

Buildings			
NOCH Ref.	KATO Ref.	Description	Gauge
70234311	23-431A	4-Floor Office Building, Brick, 81 x 62 mm	N
70234312	23-432B	6-Floor Office Building, brown, 81 x 81 mm	N
70234331	23-433A	6-Floor Department Store, blue, 81 x 81 mm	N
70234341	23-434A	6-Floor Office Building, grey, 81 x 81 mm	N
70234351	23-435A	6-Floor Office Building, ivory, 81 x 62 mm	N

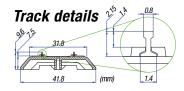
Buildings				
NOCH Ref.	KATO Ref.	Description	Gauge	
70234352	23-435B	6-Floor Office Building, grey, 81 x 62 mm	N	
7023436	23-436	Broadcasting Building, beige, 112 x 112 mm	N	
7023437	23-437	5th Avenue Building (@101), white, 112 x 112 mm	N	
7023438	23-438	Boutique and Office Building, white, 112 x 112 mm	N	
7023439	23-439	Corporate Office Building, beige, 112 x 112 mm	N	

## **HO-Gauge KATO Track**

This track not only attracts railway modellers with large layouts, but also those who look forward to seeing their railway after work or at weekends and who are grateful for effortless assembly and disassembly. Stability as well as secure and particularly durable plug connections are as self-evident in the H0 track as in its smaller brother – the N-gauge track.

HO Straight Tracks				
NOCH Ref.	KATO Ref.	Description	Gauge	
7002180 (4 pcs)	2-180	Straight Track, 369 mm	H0	
7002150 (4 pcs)	2-150	Straight Track, 246 mm	Н0	
7002151 (1 pc.)	2-151	Straight Feeder Track, 246 mm	Н0	
7002160 (2 pcs)	2-160	Straight Track, 227 mm	Н0	
7002130 (4 pcs)	2-130	Straight Track, 174 mm	Н0	
7002193 (2 pcs)	2-193	Straight Track, 149 mm	Н0	
7002140 (4 pcs)	2-140	Straight Track, 123 mm	H0	
7002120 (4 pcs)	2-120	Straight Track, 114 mm	Н0	
7002111 (2 pcs)	2-111	Straight Track, 94 mm	H0	
7002105 (4 pcs)	2-105	Straight Track, 60 mm	Н0	
7002170 (2 pcs)	2-170	Straight Track with Bumper, 109 mm	Н0	
HO Curved Track	(S			
7002290 (2 pcs)	2-290	Curved Track, R867-10°	Н0	
7002250 (4 pcs)	2-250	Curved Track, R790-22.5°	Н0	
7002240 (4 pcs)	2-240	Curved Track, R730-22.5°	Н0	
7002230 (4 pcs)	2-230	Curved Track, R670-22.5°	H0	
7002220 (4 pcs)	2-220	Curved Track, R610-22.5°	Н0	
7002210 (4 pcs)	2-210	Curved Track, R550-22.5°	H0	
7002270 (4 pcs)	2-270	Curved Track, R490-22.5°	Н0	
7002260 (4 pcs)	2-260	Curved Track, R430-22.5°	но	
7002280 (4 pcs)	2-280	Curved Track, R370-22.5°	H0	
HO Crossing				
7002401 (1 pc.)	2-401	90° Crossing, 60 mm	H0	

A special bonus is that even the necessary accessories have been taken from the N track and it is also possible to drive »double-tracked« if desired.



NOCH Ref.	KATO Ref.	Description	Gauge
7002181 (4 pcs.)	2-181	Concrete Sleeper Straight Track, 369 mm	НО
7002152 (4 pcs.)	2-152	Concrete Sleeper Straight Track, 246 mm	но
7002153 (1 pc.)	2-153	Concrete Sleeper Feeder Track, 246 mm, straight, with cable & plug	но
7002141 (4 pcs.)	2-141	Concrete Sleeper Straight Track, 123 mm	но
HO Curved Track	s with co	ncrete sleepers	
7002251 (4 pcs.)	2-251	Superelevated Curve Track Concrete Sleeper, R790-22.5°	Н0
7002252 (2 pcs.)	2-252	Easement Track, Curved, Concrete Sleeper, Right + Left R790-22.5°	Н0
7002241 (4 pcs.)	2-241	Superelevated Curve Track Concrete Sleeper, R730-22.5°	но
7002242 (2 pcs.)	2-242	Easement Track, Curved, Concrete Sleeper, 1 x Right + Left R730-22.5°	но

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HO Powered Turnout			
NOCH Ref.	KATO Ref.	Description	Gauge
7002850	2-850	Powered Left-Hand Turnout 246 mm with R550-19° curve	НО
7002851	2-851	Powered Right Turnout 246 mm with R550-19° curve	HO
7002860	2-860	Powered Left-Hand Turnout 492 mm with R867-10° curve	но
7002861	2-861	Powered Right Turnout 492 mm with R867-10° curve	НО

HO Manual Turnouts				
NOCH Ref.	KATO Ref.	Description	Gauge	
7002840	2-840	Manual Left-Hand Turnout 246 mm with R490-22.5° curve	Н0	
7002841	2-841	Manual Right-Hand Turnout 246 mm with R490-22.5° curve	H0	
7002862	2-862	Manual Left-Hand Turnout 492 mm with R867-10° curve	HO	
7002863	2-863	Manual Right-Hand Turnout 492 mm with R867-10° curve	H0	
Turnout Machine	(Use with I	Manual Turnout)	'	
7002503 (1 pc.)	2-503	Left Hand DC Turnout Machine	НО	
7002504 (1 pc.)	2-504	Right Hand DC Turnout Machine	HO	

HO and N access	HO and N accessories				
NOCH Ref.	KATO Ref.	Description	Gauge		
7002502 (1 pc.)	2-502	HO Rerailer with UniJoiner Remover	НО		
7078507 (20 pcs)	24-815	UniJoiner	HO/N		
7078508 (20 pcs)	24-816	Insulated UniJoiner	HO/N		
7077508 (1 pc.)	24-818	Terminal UniJoiner 1 pair, 88 cm	H0/N		
7077509 (1 pc.)	24-825	Extension Cable for all DC connectors, 88 cm	HO/N		
7077510 (1 pc.)	24-826	Extension Cable for all AC connectors, 88 cm	H0/N		
7077511 (1 pc.)	24-827	3-Way Extension Cord, with plug and cable	H0/N		
7077515 (1 pc.)	24-84TC	Replacement Points Cable for 7078203-205, 7002860-61	H0/N		
7078500 (1 pc.)	24-840	Turnout Switch	HO/N		
7078502 (1 pc.)	24-841	Extension Cable, 90 cm points connection	HO/N		
7078503 (1 pc.)	24-842	DC Converter (Used to connect turnout switches to a non-Kato Power pack via the accessory output)	HO/N		
7078504 (1 pc.)	24-844	Signal Power Supply	HO/N		
7078501 (1 pc.)	24-843	Adapter Cord (for conversion to KATO plugs from third-party transformers)	H0/N		
7078522 (1 pc.)	24-829	Accessory Adapter (for connecting double coil magnet items, e.g. signals)	HO/N		
7078530 (1 pc.)	24-848	Signal Switch	HO/N		
7024039 (1 pc.)	24-039	UNITRACK Ballast (200 g): suitable for UNITRACK Track Beds	HO/N		
7078535 (1 pc.)	22-018	Power Pack SX – see page 321 for details	HO/N		

## HO Starter and Expansion Sets



(3-103)

7003103 Unitrack WGH Plan Set

cars and off you go!





7003104 HM1 R670 Basic Oval Track Set

(3-104)with Power Pack

> A set full of driving fun, with a large Oval, Passing Track, Siding and much more, for a more demanding start with KATO UNITRACK.





7003111 HV1 R730 Outer Oval Track Set

(3-111)Oval track suitable as outer oval for the HM1 Starter Set, incl. Feeder Cable for power supply to the track and connection to the KATO Power Pack (optional; not included in pack).





Starter Set with Oval Track, incl. Power Pack

and Rerailer. All you need is a locomotive and

#### 7003112 HV2 Passing siding track set

(3-112)With Manual Turnouts R867-10°. With this set, you have everything you need to install a passing track.





## 7003115 HV5 R550 Basic Oval Track Set

(3-115)With the HV5 Set, you can create an oval track on an area of approx. 100 x 200 cm - a good basis for driving pleasure or for further expansion. The Set includes a Rerailer, a Feeder Track for the power supply and a Feeder Cable for connecting to third-party transformers.





## 7003113 HV3 Interchange Track Set

(3-113) With Electric Turnouts R550-19°. This track connection facilitates quick transition to a parallel track. Incl. Turnout Switch and 3-fold Distributor Panel.





### 7003131 HV21 Automatic 3-Colour Signal Set

(3-131) 2 x Automatic Signal Straight Track, 123 mm 3-Colour Signal

2 x Straight Track, 123 mm

1 x Signal Switch (7078530)

1 x Power Supply for 3 signals (7078504)

1 x Accessory Adapter (7078522)

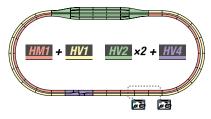
2 x Extension Cable





#### 7003114 HV4 Interchange Track Set

(3-114)With Electric Turnouts R867-10°. This track facilitates quick transition to a parallel track. Incl. Turnouts Switch and 3-fold Distributor Panel.



#### Example of options for combinations

This combination of the Starter and Expansion Sets creates a complex track layout with two speed controllers and gives you a lot of driving pleasure.

#### Parts list:

1 x 7003104 HM1 1 x 7003111 HV1

1 x 7003114 HV4 1 x KATO Power Pack

2 x 7003112 HV2



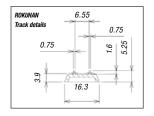
#### Simply Brilliant – Brilliantly Simple! ROKUHAN Z-Gauge Track System with Track Beds

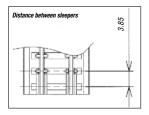
The track is beautifully shaped, robust, extremely stable and easy to lay. The body of the bed consists of flexible plastic; the rails are finished in nickel silver. The individual rails can be easily and securely fastened together via special rail connectors. The metal fishplates are supported by plastic clips on the underside of the rails, which snap into place with an audible and perceptible click.



#### Track details:

- Gauge: 6.55 mm
- Rail profile height: 1.6 mm
- Rail profile width: 0.75 mm
- Bed width: 16.3 mm
- · Bed height: 3.9 mm
- Total height: 5.25 mm
- · Distance between sleepers: 3.85 mm





#### 181.2 Series - The True European Loco

Enjoy the first German locomotive from ROKUHAN with its extraordinary details and optimal running characteristics due to an iron-free, maintenance-free engine. Six fantastic variants are available.

Intrigued? More information can be found on page 334.



#### No connection? Not with Us! The Track that Leads to ROKUHAN

If you want to use the ROKUHAN track in the future and have so far used rails from another manufacturer, the transition is as simple and precise as Swiss clockwork, thanks to the »Conversion Joiner« (ref. 7297414)! Simply attach the joiner, place the track without a bed on and then adjust for the height difference — that's it!









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# **ROKUHAN**

## Quality and Precision in Track Construction.

ROKUHAN have managed to make a name for themselves amongst fans of Z gauge in a very short space of time. And not by chance – the quality and precision of their products have convinced railway modellers of this.

ROKUHAN are incredibly happy about this level of enthusiasm and have thanked their followers with an even wider range and many new products. Your dealer will be pleased to advise you.



Info Tip:

ROKUHAN Z-Gauge Track System

Further information can be found online at www.rokuhan.de. Request two of the revolutionary Z-gauge tracks directly from us! Simply send an e-mail to

info@noch.de with the keywords »ROKUHAN Z-gauge sample track« and we'll send you two free sample tracks for a flat rate of only  $\in$  4.50 for postage. Let yourself be convinced that this is the Z track of the future.

ROKUHAN 332 / 333

## 181.2 Series - The True European Loco

In 1960, DB had already begun testing multi-frequency locomotives, with which they wanted to save the time-consuming changeover of locomotives at the borders with France and with Belgium. But they only achieved success with the E 310 built in 1966/67 (from 1968, BR 181.0 and 181.1) for the German and French electricity grid, showing the way to the 25 BR 181.2 series locomotives delivered from 1974 onwards. That no more were produced was due to the great deal of effort involved and was also reflected in the price.





181 211-4 LORRAINE

181 208-0



181 214-8 Mosel

181 219-7



181 217-1

#### Model Features:

- · Minimum radius: R145 (long coupling), R195 (short coupling)
- Max. incline 4%
- Outer dimensions: 81 x 14.2 x 17 mm (height incl. pantograph 21.5 mm)
- · Weight: 30 g
- Drive: 0~9 V operating voltage (DC)
- · Maintenance-free, iron-free engine
- · Couplings: without, for better optics (accessories: Märklin®, as well as knuckle coupler)
- · Lighting: warm white LED directional headlights (constant lighting in combination with ROKUHAN train controller)
- · Pantographs: movable, non-functional

Class 181.2			
NOCH Ref.	ROKUHAN Ref.	Description	
7297101	T950-1	181 211-4 LORRAINE, German Federal Railway Epoch IV – ocean blue & beige (sold out)	
7297102	T950-2	181 219-7, Deutsche Bahn AG Epoch V – traffic red	
7297103	T950-3	181 208-0, German Federal Railway Epoch V – Orient red	
7297104	T950-4	181 206-4, German Federal Railway Epoch IV – steel blue	
7297105	T950-5	181 214-8 MOSEL, Deutsche Bahn AG Epoch VI – traffic red	
7297106	T950-6	181 217-1, Deutsche Bahn AG Epoch V – ozean blue & beige	
Replacen	nent parts		
NOCH Ref.	ROKUHAN Ref.	Description	
7297448	A048	Pantograph – German version of BR 181.2 in grey (2 pcs)	

## Type 500 Shinkansen

The symbol of Japan's economic boom in the post-war era: the Shinkansen high-speed train. On 1st October 1964, the first track section of around 515 kilometres between the capital and Osaka was opened to the Olympic Games in Tokyo. The Shinkansen, meaning »New Mainline« in English, heralded the era of high-speed trains. This Japanese success was later

to spread to many European countries. ROKUHAN thus presents its first, perfectly executed, high-speed train, heralding its ROKUHAN Shinkansen era. Recommended minimum radius: 195 mm.



Type 500 Shinkansen



Type 500 Shinkansen EVA



Type 500 Shinkansen



E6 Shinkansen Komachi

Shinkansen		
NOCH Ref.	ROKUHAN Ref.	Description
7297745	T013-1	Type 500 Shinkansen Basic Set (3 pcs)
7297746	T013-2	Type 500 Shinkansen Extension Set (5 pcs)
7297637	T013-4	Shinkansen EVA Basic Set (3 pcs)
7297638	T013-5	Shinkansen EVA Extension Set (5 pcs)
7297675	T029-1	E6 Shinkansen Komachi Basic Set (3 pcs)
7297676	T029-2	E6 Shinkansen Komachi Extension Set (4 pcs)

Matching accessories			
NOCH Ref.	ROKUHAN Ref.	Description	
7297432	A030	Interior Lighting, Front/Rear Carriage	
(1 pc)			
7297433	A031	Interior Lighting, Middle Carriage	
(1 pc)		for Type 500, incl. EVA	
7297409	A009	Interior Lighting, Middle Carriage	
(1 pc)		for E6 Komachi	

## »Cold District Type« DD51 Diesel Locomotive, Era: 1962-1978



The DD51 is a B2B hydraulic diesel locomotive. A total of 649 locomotives were manufactured by Kawasaki Saryo, Hitachi and Mitsubishi. The loco was used for both freight and passenger trains.

#### Model Features:

- · Minimum radius: 95 mm
- Two traction tyres on the left and right for inclines of up to 4%

- DD51 Diesel Locomotive for passenger and freight trains NOCH ROKUHAN Description Ref. Ref. 7297700 (1 pc) T002-1 DD51 - Cold District Type, red 7297702 (1 pc) T002-2 DD51 - Cold District Type, blue DD51 - Cold District Type, red/grey 7297703 (1 pc) T002-3 DD51 - Cold District Type, Hokkaido Colour 7297706 (1 pc) T002-4 DD51 - Cold District Type, Engine Design 7297707 (1 pc) T002-5 T002-6 7297708 (1 pc) DD51 - Cold District Type, Euro Liner Colour DD51 - Cold District Type, JNR Colour 7297709 (1 pc) T002-7 DD51 – Hokutosei Double Heading 7297773 (1 pc) T002-8
- Powerful bell-type armature engine with special magnet for exceptional low-speed features
- · Photo-etched details, such as handrails
- · Directional headlight
- Constant lighting when using the ROKUHAN »RC02« Compact Controller (ref. 7297304) or »RC03« Train Controller (ref. 7297305)
- · With Märklin® exchange coupling

#### C11 Steam Locomotive



C11 Steam Locon	C11 Steam Locomotive	
NOCH Ref.	ROKUHAN Ref.	Description
7297756	T019-1	JNR C11 #178 – 3rd edition
7297757	T019-2	JNR C11 #325
7297758	T019-3	JNR C11 #165
7297759	T019-4	JNR C11 #200

The C11 is a small steam locomotive, which is ideally suited to shunting and for small, local passenger and goods traffic. 400 locomotives were produced for the JNR (Japan National Railway) and other private railway companies in around the 1930s. Today, a total of five C11s are in service.

## C57 Steam Locomotive





C57 Steam Lo	C57 Steam Locomotive		
NOCH Ref.	ROKUHAN Ref.	Description	
7297796	T027-1	C57 #19 - First Version Standard Type (Nitu engine shed)	
7297797	T027-2	C57 #111 - Montetsu Smoke Deflectors	
7297798	T027-3	C57 #1 - Royal Train	

Known by its nickname »Lady«, this steam locomotive is one of the most popular 20th century locomotives. It was built from 1937 to 1953 for Japan National Railway based on the C55 and is one of the 2C1 (or 4-6-2) »Pacific Style« models. A total of 201 locomotives were built. In 1975, this series was taken out of passenger service, but they have been operating in restored state here and there in local railway traffic in Japan since 1979.

#### Model Features:

- · Directional headlight
- · Includes Arnold couplings for double heading connection
- Minimum radius: R145
- Deflectors and flagpole (only with the T027-3 version) are made with etched parts for a realistic appearance in 1:220 scale!

## EF66 Electric Locomotive Era: from 1966







**Model Features:** four axles are driven by two bogies with a central motor. This allows the EF66 locomotive to tow up to fifteen passenger or freight cars on an incline of up to 4 % – that's amazing!

#### EF66 Locomotive NOCH ROKUHAN Ref. Ref. Description 7297726 T008-1 Early Version 7297727 T008-2 Trail Color Version 7297728 T008-3 Later Version Renewed Design 7297729 T008-4 Later Version New Renewed Design 7297730 T008-5 Later Version

## Passenger Cars



## Freight Cars



#### Starter Sets

Whether you're a beginner or an expert, the starter sets give you everything you need to have a good time driving, no ifs or buts.

As well as the sets listed here, you'll find more at your trade dealer's or at www.rokuhan.de.



#### Note: ROKUHAN Minimum Radius

The min. radius for locomotives and all cars is R095 unless otherwise stated.

# Looking for a Connection?

ROKUHAN have taken care of this by offering compatible exchange coupler for their carriages and locomotives. This is how ROKUHAN's locomotives and carriages always find the right connection.

Tips on how to use these can be found on the YouTube channel »ROKUHAN65« with »ROKUHAN coupler sets«

#### 7297409 (A009) Interior Lighting Type A

for passenger cars and motor train sets up to T006-4 (1 piece)

## 7297415 (A015) Interior Lighting Type B

for motor train sets from T009-1 upwards (1 piece)

JNR Passenger Cal	INR Passenger Cars Type 14	
NOCH Ref.	ROKUHAN Ref.	Description
7297704 (4 pcs)	T006-1	Basic Set, blue
7297705 (2 pcs)	T006-2	Add-On Set, blue
7297717 (6 pcs)	T006-3	European Set
7297718 (4 pcs)	T006-4	Resort Set

Freight Cars	Freight Cars		
NOCH Ref.	ROKUHAN Ref.	Description	
7297719 (2 pcs)	T007-1	Koki 106 Container Flat Car, blue	
7297711 (2 pcs)	T005-1	Seki 3000 JNR Series, Tender Coal Car	
7297721 (2 pcs)	T005-3	Seki 6000 Nishi JNR Series, Stone Car	
7297731 (2 pcs)	T004-1	Taki-1000 Japan Oil Transport Colour Set	
7297732 (2 pcs)	T004-2	Taki-1000 Japan Oil Terminal Colour with Line Set	
7297733 (2 pcs)	T004-3	Taki-1000 Japan Oil Terminal Colour with Eco Rail Mark Set	
7297735 (2 pcs)	T004-5	Taki-1000 Japan Oil Terminal Colour with Yabane Mark Set	

Starter Set	tarter Set	
NOCH Ref.	ROKUHAN Ref.	Description
7297804	G004-1	Type 500 Shinkansen, 3 pcs (incl. 1 motorised car)
7297639	G004-2	Type 500 Shinkansen EVA, 3 pcs (incl. 1 motorised car)
7297805	G005-1	E6 Shinkansen Komachi, 3 pcs (incl. 1 motorised car)
7297806	G006-1	Tobu Limited Express Type 500, Revaty Kegon (incl. 1 motorised car)

Included in the aforementioned Starter Sets:

8 x Curved Track R170-45°, 2 x Straight Track 220 mm, 1 x Compact Controller RC02, 1 x Rerailer, 1 x Connection Cable (Power Feed) **Note:** use 8 AAA batteries to operate or the ROKUHAN AC Adapter ref.

7297411 (both not included in delivery).

Coupler			
NOCH Ref.	ROKUHAN Ref.	Description	
7297419 (6 pcs)	A019	Knuckle Coupler (short), 7 mm	
7297420 (6 pcs)	A020	Knuckle Coupler (long), 11 mm	
7297421 (6 pcs)	A021	Märklin® Coupler (short), 11 mm	
7297422 (6 pcs)	A022	Märklin® Coupler (long), 13 mm	
7297424 (6 pcs)	A024	Arnold Coupler (short), 7 mm	
7297425 (6 pcs)	A025	Arnold Coupler (long), 9 mm	

## Train Controller and Electricity Supplier

You'll have everything under control with the stylish »RCO3« Train Controller or the »RCO2« Compact Controller. You'll have the »RCO3« connected to the feeder track and wired in the turnouts in no time. Thanks to an additional battery compartment (8 x AA batteries) on the underside of the controller, the transformer can even be operated without having to be plugged in, so you can use it while on the go.

The »RC02« is the right choice (8 x AAA batteries) for the thrifty person. Optinal AC Adapter for both Controller ref. 7297411 (see page 339)

7297304 Compact Controller (RC02)

Output: 10 V, 800 mA (900 mA from 2017 production)

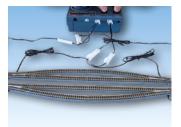
7297305 Train Controller with Constant Lighting (RC03)



RCO3 Train Controller with Constant Lighting



»RC03« battery compartment



Connecting 4 points onto the »RCO3« with the help of the Y Cable (ref. 7297405)



Control Switches on »RC03«

#### »RC03« technical information and features:

- Input: AC 100-240 V Output: 10 V, 900 mA
  Sensitive potentiometer
- · Short-circuit proof
- Directional switch (forwards, backwards, zero setting)

- · Plug-in connections on the side for additional control switches
- Dimensions of the RC03 Controller: 153 x 96 x 49 mm
- Constant lighting (driving lights, interior lighting)
- Two integrated turnout switches, i.e. two or four turnouts can be connected up to the controller (via the Y Cable) and switched

#### **Turnout Switches**

The turnout switches from ROKUHAN are true all-rounders with their many connection possibilities. Thanks to the plug-in connectors, the turnouts can be easily and quickly »wired into« the turnout switches. Fiddly soldering or the use of strip connectors is a thing of the past. The switches are simply connected to the sides of the ROKUHAN »RCO3« Train Controller or »RCO2« Compact Controller with plug-in connectors. Simply attach it on and you're done! The switches can also be operated

directly via an additional AC Adapter (ref. 7297411; see page 339) – a connection socket is available at the switch.

If you're using a Märklin® or other Z-gauge transformer, you'll need the AC Cable (ref. 7297410; see page 339).



Turnout Switch with »RC03« Train Controller



Turnout Switch to transformer from another manufacturer (here: Märklin®)



Turnout Switch with direct power supply via an additional AC Adapter (ref. 7297411)

## Reverse Loop Switch and Insulated Rail Joiner

Electrically separate tracks can be easily and safely installed with the Insulated Rail Joiner. To do so, the regular rail joiners are removed and replaced with the Insulated Rail Joiners.

It's very easy to reverse the polarity of the positive and negative pole with the plug-in Reverse Loop Switch: simply stop the train before the second insulation point, turn the Reverse Loop Switch and turnout and then your train can continue on its journey. Very easy!



7297303 Reverse Loop Switch



**7297413 Insulated Rail Joiner** 2 pieces

#### Feeder Track

ROKUHAN has come up with a unique and clever solution to the problem of how to ensure a power connection. The bed under the straight tracks has a piece integrated into its body that can be removed to expose the rail for connecting it to a power supply (see Fig. 1).

The Feeder Cable's (ref. 7297408) plug is designed so that it can be inserted directly into this position (see Fig. 2.). And voilà – the connection is done!

This method can be carried out without much effort and soldering work, and electricity can be fed through to places later, as desired.



You'll find a vast number of helpful videos on the subject of ROKUHAN (including instructions for assembling, installing and renovating) on the YouTube channel www.youtube.com/user/Rokuhan65.





## Turnouts- Clever Technology and Handling

In ROKUHAN's track geometry, there are three turnout sizes: R490-13° with a length of 110 mm, R127-26° with a length of 55 mm and a curved point R195/220-30° with a length of 112.8 mm. The turnout can be operated manually or electrically. The drives are housed directly in the track bed.

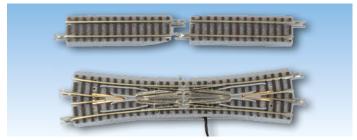
The frogs are conductors and made of metal. The intelligent stop points of the power routing system work against the collision of the trains (the

stop points function can be deactivated very easily by inserting two little screws at the bottom). The strongest available neodymium magnets provide pulling power and long-term reliability. The parallel track distance after installing the opposite curve is 25 mm.

More information at www.rokuhan.de



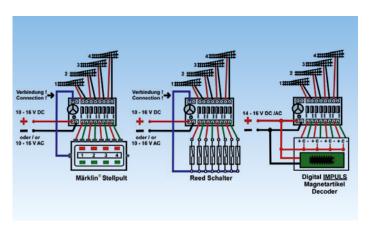
Turnout drives integrated in the bed with the strongest neodymium magnets currently available guarantee pulling power.



Because it often gets narrow in the transition area around the opposite curve, ROKUHAN provides an appropriately cut track, so that the turnouts can be laid easily and quickly. Picture to the left shows double slip turnouts with feeder track on the left.

#### **Turnout Module**

#### Switching ROKUHAN and KATO turnouts is now even easier – digital as well as analogue!



Points Module	
NOCH Ref.	Description
60264	Turnout Module for KATO H0- and N-gauge as well as ROKUHAN Z-gauge turnouts

Whether you are just getting started or want to use your existing system, the Turnout Module can be used with 2 x 4-button control panels, e.g. from Märklin® and other control panels with button functions for controlling KATO and ROKUHAN turnouts. A total of 4 turnouts can be switched with each Turnout Module. The turnouts, the control panel and the power supply are connected via screw terminals. Furthermore, switching digitally and with reed contacts is possible with an added solenoid accessory decoder. Soldering is not necessary.

The connection is made via AC or DC with 10 to 16 V.

The NOCH Turnout Module can also be connected to a solenoid accessory decoder. On the output side, some decoders on the common terminal have negative potential and others positive potential. The NOCH Turnout Module requires positive potential at the common terminal (often called \*\*terminal C\*\*), at the decoder's respective switching output. Such decoders are, for example: LENZ LS100 (ref. 1110) and ESU Switch Pilot V 2.0 4 x Solenoid Accessory Decoder (ref. 51820).

Pay particular attention to the manufacturer's information on the decoder.





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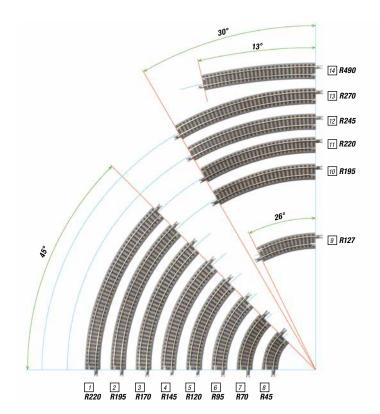
## Controllers, Switches, Cables, Track Accessories, LED Lighting (Houses)

Controllers, sw	Controllers, switches, cables, track accessories, LED lighting (houses)		
NOCH Ref.	ROKUHAN Ref.	Description	
7297304 (1 pc)	RC02	RCO2 Compact Controller, 94 x 71 x 37 mm, without AC Adapter, can also be operated with 8 AAA batteries (input AC 100–240 V; output max. 12 V, 800 mA)	
7297305 (1 pc)	RC03	RCO3 Train Controller with Constant Lighting, 153 x 96 x 49 mm, without AC Adapter, can also be operated with 8 AA batteries (input AC 100–240 V; output max. 10 V, 900 mA)	
7297302 (1 pc)	C002	Turnout Switch, 95 x 65 x 30 mm (compatible with RC02 and RC03)	
7297303 (1 pc)	C003	Reverse Loop Switch (compatible with RCO2 and RCO3)	
7297306 (1 pc)	C004	Switch for Accessories	
7297413 (2 pcs)	A013	Insulated Rail Joiner	
7297414 (2 pcs)	A014	Conversion Joiner, for third-party track systems	
7297402 (1 pc)	A002	Rerailer, 145 x 25 x 15 mm (not pictured)	
7297403 (1 pc)	A003	Extension Feeder, Cable 150 cm (not pictured)	
7297404 (1 pc)	A004	Extension Cable for Points Connection, 150 cm (not pictured)	
7297405 (10 pcs)	A005	Y Cable, for connecting two parallel points (not pictured)	
7297429 (1 pc)	A029	Y Power Feeder Cable, for connecting two parallel tracks	

Controllers, sw	Controllers, switches, cables, track accessories, LED lighting (houses)	
NOCH	ROKUHAN	
Ref.	Ref.	Description
7297408 (1 pc)	A008	T Feeder Cable, 70 cm (not pictured)
7297412 (10 pcs)	A012	Rail Joiners (not pictured)
7297410 (1 pc)	A010	AC Cable for Turnout Switches, for third-
		party transformers (not pictured)
7297411 (1 pc)	A011D	AC Adapter, compatible with ref.
		7297302, 7297304 and 7297305
7297306 (1 pc)	C004	Switch for Accessories
		e.g. home lighting (not pictured)
7297416 (1 pc)	A016	Accessory Power Terminal (not pictured)
7297417 (1 pc)	A017-1	LED Light, white (not pictured)
7297401 (1 pc)	A017-2	LED Light, orange (not pictured)



## **ROKUHAN Z-Gauge Track Assortment**



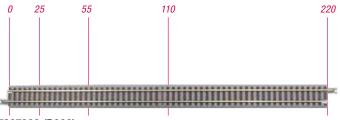


#### Note: ROKUHAN curved tracks

Radius smaller than R170 are only suitable for short, double-axle vehicles.

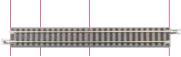
Cur	ved tracks		
	NOCH Ref.	ROKUHAN Ref.	Description
1	7297004 (4 pcs)	R004	Curved Track R220-45°
2	7297002 (4 pcs)	R002	Curved Track R195-45°
3	7297003 (4 pcs)	R003	Curved Track R170-45°
4	7297005 (4 pcs)	R005	Curved Track R145-45°
5	7297011 (4 pcs)	R011	Curved Track R120-45°
6	7297010 (4 pcs)	R010	Curved Track R95-45°
7	7297018 (4 pcs)	R018	Curved Track R70-45°
8	7297046 (4 pcs)	R046	Curved Track R45-45°
9	7297019 (2 pcs)	R019	Curved Track R127-26° (opposite curve)
10	7297032 (6 pcs)	R032	Curved Track R195-30°
	7297051 (6 pcs)	R051	As 7297032, but with concrete sleepers
11	7297033 (6 pcs)	R033	Curved Track R220-30°
	7297052 (6 pcs)	R052	As 7297033, but with concrete sleepers
12	7297014 (6 pcs)	R014	Curved Track R245-30°
	7297053 (6 pcs)	R053	As 7297014, but with concrete sleepers
13	7297015 (6 pcs)	R015	Curved Track R270-30°
	7297054 (6 pcs)	R054	As 7297015, but with concrete sleepers
14	7297012 (2 pcs)	R012	Curved Track R490-13° (opposite curve)
	7297059 (2 pcs)	R059	As 7297012, but with concrete sleepers

## ROKUHAN Z-Gauge Track Assortment



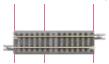
7297009 (R009) Straight Track, with slot for cable, 220 mm (4 pieces)

7297050 (R050) Straight Track, with slot for cable and with concrete sleepers, 220 mm (4 pieces)



**7297001 (R001) Straight Track,** with slot for cable, 110 mm (4 pieces)

7297049 (R049) Straight Track, with slot for cable and with concrete sleepers, 110 mm (4 pieces)

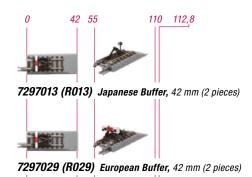


7297024 (R024) Straight Track, with slot for cable, 55 mm (2 pieces)

7297048 (R048) Straight Track, with slot for cable and with concrete sleepers, 55 mm (2 pieces)



7297030 (R030) Straight Track, 25 mm (4 pieces)



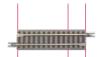
**ainemminimini** 

7297045 (R045) Straight Track, without track bed, 110 mm (2 pieces)



7297036 (R036) Straight Track, with slot for cable, 112.8 mm (2 pieces)

7297038 (R038) Straight Track, with slot for cable and with concrete sleepers, 112.8 mm (2 pieces)



7297037 (R037) Uncoupler Track, for Micro Train®, 55 mm, (1 piece)

7297077 (R077) Uncoupler Track Set Märklin® & Arnold, 55 mm (1 piece)

# 

7297083 (R083) Straight Track, with slot for cable, 440 mm (2 pieces)



7297016 (R016) Flexible Track, 330 mm (1 piece)

7297084 (R084) Straight Track, with slot for cable and with concrete sleepers, 440 mm (2 pieces)

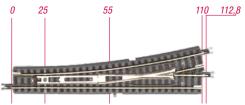


7297031 (R031) Adjustable Track, 100-120 mm (1 piece)

Straight tracks, s	Straight tracks, special tracks, track sets		
NOCH Ref.	ROKUHAN Ref.	Description	
7297064 (6 pcs)	R064	Super-Elevated Track, R195-30° (not pictured)	
7297065 (6 pcs)	R065	Super-Elevated Track, R220-30° (not pictured)	
7297066 (6 pcs)	R066	As 7297064, but with concrete sleepers (not pictured)	
7297067 (6 pcs)	R067	As 7297065, but with concrete sleepers (not pictured)	
7297073 (6 pcs)	R073	Super-Elevated Track, R245-30° (not pictured)	
7297074 (6 pcs)	R074	Super-Elevated Track, R270-30° (not pictured)	
7297075 (6 pcs)	R075	As 7297073, but with concrete sleepers (not pictured)	
7297076 (6 pcs)	R076	As 7297074, but with concrete sleepers (not pictured)	
7297786 (1 pc)	S045-1	Railway Crossing Japan (not pictured)	
7297787 (1 pc)	S045-2	Railway Crossing USA (not pictured)	
7297788 (1 pc)	S045-3	Railway Crossing Europe (not pictured)	
7297028 (1 set)	R028	Track Set A - Oval Set 8 Curved Tracks, R195-45°, 4 Straight Tracks, 110 mm	

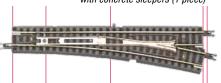
NOCH Ref.	ROKUHAN Ref.	Description
7297047 (1 set)	R047	Track Set B - Passing Track
		1 x each of Left + Right Electric Turnouts,
		R490-13°, straight, 110 mm,
		2 x Curved Track, R490-13°,
		2 x Straight Track, 110 mm
7297062 (1 set)	R062	Track Set C - Double Track Oval Set
		Overall dimensions approx. 460 x 900 mm
7297063 (1 set)	R063	Track Set D - Viaduct Set
, ,		Overall dimensions approx. 560 x 860 mm
7297079 (1 set)	R079	Track Set E - Mini Double Track Set
		8 x Curved Track R95-45°
		8 x Curved Track R120-45°
		2 x Straight Track 110 mm
		2 x Straight Track 55 mm
		2 x Right Points 55 mm (not pictured)
		Overall dimensions approx. 260 x 370 mm
7297080 (1 set)	R080	Track Set F - Oval Track with Sidings
		Overall dimensions approx. 1,155 x 485 mm

## **Turnouts and Crossings**



**7297039 (R039)** Left Electric Turnout, R490-13°, 110 mm, with 1 x cut Straight Track, 110 mm (1 piece)

**7297055 (R055)** Left Electric Turnout, R490-13°, 110 mm, with 1 x cut Straight Track, 110 mm, with concrete sleepers (1 piece)



**7297040 (R040)** Right Electric Turnout, R490-13°, 110 mm, with 1 x cut Straight Track, 110 mm (1 piece)

**7297056 (R056)** Left Electric Turnout, R490-13°, 110 mm, with 1 x cut Straight Track, 110 mm, with concrete sleepers (1 piece)



7297022 (R022) Left Electric Turnout, with 1 x cut Straight Track, 55 mm (1 piece)

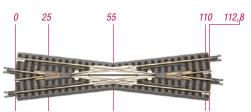


**7297023 (R023) Right Electric Turnout,** R127-26°, 55 mm, with 1 x cut Straight Track, 55 mm (1 piece)



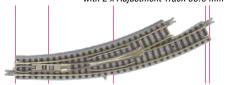
7297025 (R025) Crossing 90°, 25 mm (1 piece)





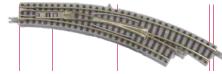
7297020 (R020) Crossing 13°, 112.8 mm,

with 2 x Adjustment Track 53.6 mm (1 piece)



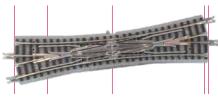
**7297026 (R026)** Left Curved Turnout, R220/195-30°, 112.8 mm, with 1 x cut Curved Track (1 piece)

**7297057 (R057)** Left Curved Turnout, R220/195-30°, 112.8 mm, with 1 x cut Curved Track and with concrete sleepers (1 piece)



**7297027 (R027) Right Curved Turnout,** R220/195-30°, 112.8 mm, with 1 x cut Curved Track (1 piece)

**7297058 (R058) Right Curved Turnout,** R220/195-30°, 112.8 mm, with 1 x cut Curved Track and with concrete sleepers (1 piece)



**7297034 (R034) Electric Double-Slip Turnout,** 112.8 mm 13° + 2x Straight Track cut left, 53.6 mm (1 piece)

**7297068 (R068) Electric Double-Slip Turnout,** 112.8 mm 13° + 2 x 53.6 mm Straight Track cut left, with concrete sleepers (1 piece)

**7297035 (R035) Electric Double-Slip Turnout,** 112.8 mm 13° + 2 x 53.6 mm Straight Track cut right (1 piece)

**7297069 (R069) Electric Double-Slip Turnout,** 112.8 mm 13° + 2 x 53.6 mm Straight Track cut right, with concrete sleepers (1 piece)



7297078 (R078) Double Crossover

220 mm, 25 mm track distance (1 piece)

#### 7297082 (R082) Double Crossover

220 mm, 25 mm track distance, with concrete sleepers (1 piece)



## Note:

#### **ROKUHAN Turnouts/Turnout Switches**

- The turnouts should only be operated with the COO2 ROKUHAN Turnout Switch or via RCO3 controller.
- To use control panels with a push button, please use the Turnout Module (NOCH ref. 60264; see page 338).
- Misuse of the turnouts (blade is not in the direction of travel) can cause a short circuit.



## Turntable and Round House

#### Turntable

Enjoy a technically sophisticated turntable from ROKUHAN – be it analogue or digital (DCC). You get 8 track connections in the basic set, which can be extended to a total of 24. The stepping motor's delicate controls allow an optimal run-up to the individual tracks and the attractive controller offers clear functionality that you will find pleasing.

#### Set consists of:

- 1 turntable
- 1 controller
- · 8 track connections
- 1 insulated rail joiner
- 1 instruction manual

Power supply via ROKUHAN AC Adapter (7297411 optional) or via the RCO2 or RCO3 controllers.

#### **Model Features**

- Length of turntable bridge:132 mm
- · Outer diameter: 169 mm
- · Mounting depth: approx. 23 mm



#### Round House

Complete your Turntable with this stylish Round House, which makes your model landscape even more impressive. The kit contains 2 different façades that you can use. This 3-piece segment can of course be extended as desired and can also be easily retrofitted with lighting (white 7297417 or orange 7297401 LED, distributor connection 7297416).

#### **Model Features**

- · Easy to mount kit
- · With 2 different façades to choose from
- · Can be extended

Electric Tu	Electric Turntable and Round House			
NOCH Ref.	ROKUHAN Ref.	Description		
7297613	S037	Electric Turntable		
7297614	S038	Round House		
7297615	A035	2 Track Connections, 2 Edge Segments without Track		
7297616	A036	Turntable Extension Cable (150 cm)		

## **Engine House**

- · 2 colour variants to choose from
- · Enclosed signs for you to attach
- Retrofit interior lighting with ref. 7297401 (see page 339)

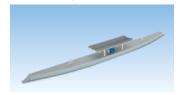


7297665 (\$051-1) Wooden Engine House

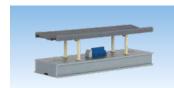


7297666 (S051-2) Wooden Engine House brown

## Platforms & railway stations



**7297632 Island Platform (S046-1) Basic Set**43 x 3.3 cm, 1.1 cm high

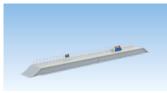


7297633 Island Platform (S046-2) Extension Set 11 x 3.3 cm, 1.1 cm high



**7297634 Station** (Blue Roof) **(S047-1)** 25.8 (22) x 8.1 cm

**7297635 Station** (Red Roof) **(S047-2)** 25.8 (22) x 8.1 cm



**7297636** One-Sided Platform Set (S048-1) 25.8 (22) x 2.4 cm, 1.1 cm high

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## Bridges, Bridge Piers and Viaduct Segments

In addition to the usual interesting bridges, ROKUHAN's modern viaduct segments are waiting for you. The easy-to-mount segments are supplied without a track, so you have a free choice of tracks to choose from:

rails with beds (wooden or concrete sleepers) and also without beds. ROKUHAN offers suitable bridge piers for crossings (e.g. in city areas).









Viaduct, single-track,

Double-track viaduct

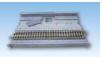
element with tracks

straight, 110 mm

Viaduct, double-track, straight, 110 mm



Elements are screwed onto the back of rails and aligned



Optional access hole for connecting cable (ref.



Transition to single- or double-track viaduct routes

# 4







	Suitable track: ref. 97045.)				
	NOCH Ref.	ROKUHAN Ref.	Description		
	7297041 (1 pc)	R041	Box Girder Bridge, dark green, single-track, 220 mm (not pictured)		
1	7297042 (1 pc)	R042	Box Girder Bridge, dark red, single-track, 220 mm		
	7297043 (1 pc)	R043	Box Girder Bridge, dark green, double-track, 220 mm (not pictured)		
2	7297044 (1 pc)	R044	Box Girder Bridge, beige, double-track, 220 mm		
3	7297060 (1 pc)	R060	Box Girder Bridge, brown, double-track, 220 mm		
	7297061 (1 pc)	R061	Box Girder Bridge, brown, single-track, 220 mm (not pictured)		
4	7297610 (1 pc)	S023	Plate Girder Bridge, brown, single-track, 110 mm		
5	7297070 (1 pc)	R070	Deck Girder Bridge, dark red, single-track with track, 110 mm		
	7297071 (1 pc)	R071	Deck Girder Bridge, green, single-track with track, 110 mm (not pictured)		
	7297072 (1 pc)	R072	Deck Girder Bridge, dark grey, single-track with track, 110 mm (not pictured)		
6	7297604 (10 pcs)	S017	Bridge Piers Set, ascending; height of highest bridge pier: 40 mm		
	7297605 (6 pcs)	S018	Bridge Piers Set, height 40 mm (not pictured)		

Viaduct Segments and Catenary Pylons (The Viaduct elements are supplied without tracks. Suitable tracks: ref. 7297001, 7297045 or 7297049.)

97408)

	NOCH Ref.	ROKUHAN Ref.	Description
1	7297600 (2 pcs)	S010	Viaduct, single-track, straight, 110 mm
	7297601 (3 pcs)	S011	Viaduct, single-track, curved, R195-30° (not pictured)
	7297602 (3 pcs)	S012	Viaduct, single-track, curved, R220-30° (not pictured)
	7297603 (3 pcs)	S013	Viaduct, double-track, curved, R195/220-30° (not pictured)
2	7297606 (2 pcs)	S019	Viaduct, double-track, straight, 110 mm
3	7297611 (2 pcs)	S035	Viaduct Step, single-track
3	7297612 (2 pcs)	S036	Viaduct Step, double-track
	7297607 (10 pcs)	S020	Catenary Pylon, single-track (not pictured)
	7297608 (10 pcs)	S021	Catenary Pylon, double-track (not pictured)
	7297609 (10 pcs)	S022	Beam for Catenary Pylon (e.g. for triple-track; not pictured)
	7297406 (10 pcs)	A006	Track & Pylon Base, single-track, 40 x 8 x 3 mm (for fixing tracks or installing catenary pylons; not pictured)
	7297407 (10 pcs)	A007	Track & Pylon Base, double-track, 80 x 8 x 3 mm (for fixing tracks or installing catenary pylons; not pictured)

 ${\it More \ bridges \ can \ be \ found \ at \ your \ trade \ dealer's \ or \ at \ www.rokuhan.de}$ 

#### Houses



7297217 Corner Shop Building A (\$034-1)

dealer's or at www.rokuhan.de



7297216 Office Building C (\$033-3)



7297627 Two-Storey House A (\$042-2)



**7297661 Convenience Store**, blue/grey **(S049-2)** 

#### **Containers**

Containers				
NOCH Ref.	ROKUHAN Ref.	Description		
7297510 (1 St.)	A101-5	Hapag-Lloyd 40' Container		
7297547 (2 St.)	A108-1	P&O 20' Container		
A large colection of	other lengths	and companies can be found at your trade		

# ₩ Hapag-Lloyd



## Is Something Still Missing?

A large selection of locomotives, train sets, passenger/goods carriages, over 40 different 12', 20', 31' or 40' containers, as well as traditional and modern Japanese buildings can be found at your trade dealer's or at www.rokuhan.de.



All Athearn Genesis Sound Locomotives in HO and N gauge as well as all Ready-to-Roll and Sound Locomotives have been equipped with the new sound decoders from SoundTraxx since 2017 and have the following features:



- 32-bit processor
- 16-bit sound with 16 polyphonic sound channels
- Up to 6 light outputs
- Over 40 signal tones
- Over 60 whistle sounds
- Up to 9 driving or 10 driveaway noises
- Echo and/or dynamic exhaust noises for steam Diesel or electric locomotives



- 32-bit processor
- 16-bit sound with 12 polyphonic sound channels
- Up to 6 light outputs
- 16 signal tones
- 16 whistle sounds
- Up to 5 driving or 5 driveaway noises
- Equaliser

The programming is very easily done on the programming track, but in exceptional cases can also be done on the main track. Depending on the model, the functions mentioned are only available to a limited extent in analog mode.

Further information and examples of sounds can be found at www.soundtraxx.com or at your specialist dealer's.

Isunami 2



Info Tip: Athearn



The range of products from the company Athearn, established in 1943, is divided into:

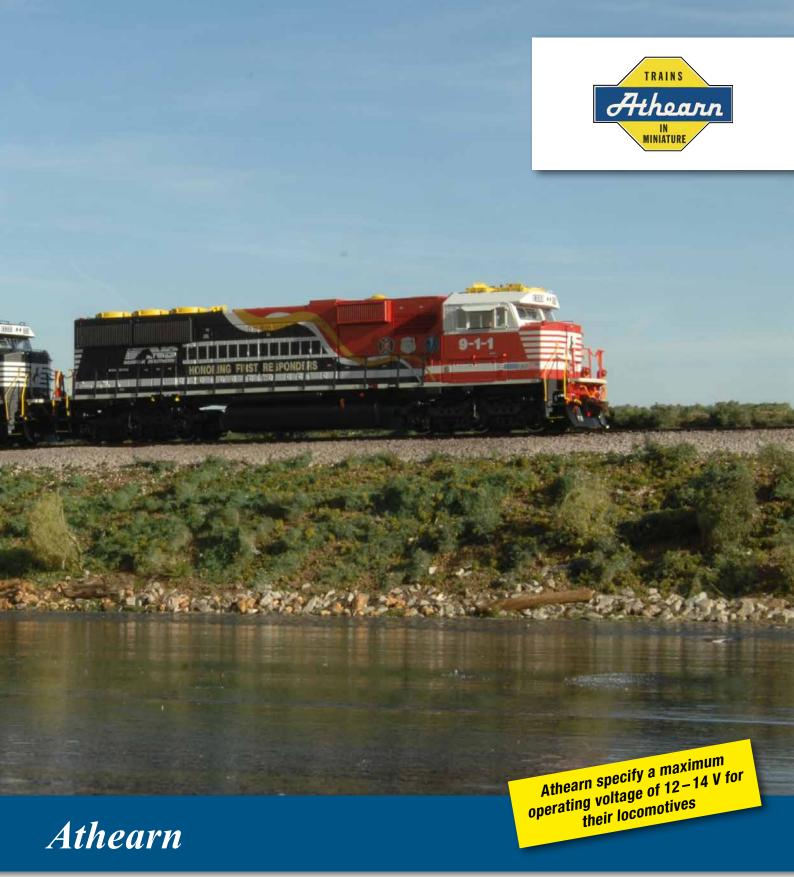
- The high-quality »Genesis« model line
- The excellently detailed »N Scale« model line
- The pre-fitted »Ready-to-Roll« model line
- · The »Roundhouse« brand

Our Athearn trade partners are informed monthly about new Athearn releases. Stay up-to-date with our Newsletter. Just go to the Newsletter on www.noch.de and in the next step, you can select the US Newsletter.









## America's Most Famous »Long-Distance Hauliers« at NOCH – Athearn: »The Biggest Little Railroad in America<sup>SM</sup>«

With over 1.5 million models sold every year, Athearn rightly claims to be "the biggest little railroad in America." We are therefore particularly proud to be an international distribution partner of Athearn and enable you to purchase all the models of this well-established US manufacturer through our trade partners.

Since 1943, when Irv Athearn began to build 0-gauge goods wagons in his mother's kitchen, the name has stood for quality and a very good price-performance ratio. These values formed the basis for success. Even today, Irv's legacy, in the shape of quality and value, can be found in every model. The models shown here are just a small excerpt of the extensive Athearn range. For updates, go to www.noch.de (enter Athearn in the brand name field) — or simply ask your local dealer.

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# American History







#### THE MONIKER

A Boeing B-17 was christened the Spirit of the Union Pacific in 1943, recognizing employees who funded it through war bond contributions. The Spirit of the Union Pacific was assigned to the 571st Bomber Squadron and shot down on its fifth mission during a raid on enemy installations in Münster, Germany.



## SD70ACe/SD70M-2 Diesel Locomotive

UP loco number 1943, The Spirit, is the 16th themed locomotive in the 155-year history of the Union Pacific company. Dedicated to the men and women of the US Armed Forces, this special locomotive was designed in collaboration with Union Pacific veterans. It intends to show the close connection between the railway and the thousands of veterans who helped build America over the centuries. The SD70ACe/SD70M-2 Diesel Locomotives are among the first Athearn locomotives to be fitted with LEDs for better lighting, as well as rubber hoses for multiple unit (MU) connections. Thus, their appearance is a bit more true-to-life and more ingenious than ever before.

#### **Model Features:**

- · First edition of this UP Heritage themed locomotive
- · Removable PTC antenna secured by magnet
- · LED headlights and rearlights
- Detailed and painted interior with driver's cab, display screens, driver's cab seat and optional level crossing camera
- · Fixed handrails
- · Photo-etch ventilation grilles
- · With Tsunami2 Sound Decoder or 21-pin interface for models without sound
- McHenry® scale knuckle spring couplers and much more
- Recommended radius 558 mm

Expected release: January 2019

SD70Ace Diesel Locomotive			
Ref. Ref. with sound		Description	Gauge
75G01943	75G19430	UP/Spirit of UP No. 1943	Н0





#### **SD60E Diesel Locomotive**



## **Model Features:**

- New
- 900-gallon EMD fuel tank
- NS designed snow plow
- Detailed and painted interior with driver's cab, display screens and driver's cab seat
- · Fine-scale handrails
- · Photo-etch ventilation grilles

- With Tsunami2 Sound Decoder or 21-pin interface for models without sound
- McHenry® scale knuckle spring couplers and much more
- · Recommended radius 558 mm

Expected release: June 2019

SD60E Diesel Locomotive				
Ref. Ref. Description with sound without sound			Gauge	
75G65254	75G65204	NS/Honoring Our Veterans No. 6920	НО	

#### SD70Ace Diesel Locomotive

#### **Model Features:**

- The models are peppered with details that vary depending on the model version and railway company:
- · LED lighting
- · Multiple unit (MU) rubber hoses with silver tips
- · GPS dome with antenna
- · Headlight on the bonnet or on the driver's cab
- · Detailed interior up to internal driver's cab video camera
- HTCR or HTSC bogies
- · Fine-scale handrails
- · Etched dynamic brake grille
- · Ventilators

- · Safety tread on the walkways
- With Tsunami2 Sound Decoder or 21-pin interface for models without sound
- Customised details depending on \*early\* or \*late\* version
- McHenry® scale knuckle spring couplers and much more
- Min. radius 457 mm; recommended radius 558 mm

Expected release: May 2019

SD70Ace Diesel	SD70Ace Diesel Locomotive				
Ref. with sound	Ref. without sound	Description	Gauge		
75G89842	75G89642	Progress Rail No. 4834	Н0		
75G89840	75G89640	Progress Rail No. 4831	H0		
75G89841	75G89641	Progress Rail No. 4843	H0		
75G89843	75G89643	CSX No. 4849	Н0		



CSX #4849

#### **GP50 Diesel Locomotive**

In 1980, EMD released the GP50, equipped with a 3,500 hp 16-cylinder engine of the 645F3B series. The first 15 units were built in 1980 for Chicago & North Western, 10 GP50 for Missouri Pacific and a further 10 for Burlington Northern. In 1981, a further 20 units each followed for Southern and Missouri Pacific, and 30 GP50 for Santa Fe. In 1985, Santa Fe acquired 15, and Burlington Northern 53 of these models. These phase II versions were the last of 278 GP50s built. Until the early 1990s, the GP50 could be found on all mainlines; often even in triple or quadruple traction. A few are still »in service« today due to the GP50's comparatively economical consumption.

#### Model Features:

- · LED lighting
- · Multiple unit (MU) rubber hoses
- · Finely detailed fuel tank
- · Fine-scale Celcon handrails
- With Tsunami2 Sound Decoder or 21-pin interface for models without sound
- · Model with sound can be operated in both DCC and DC
- · Heavy die-cast frame for greater traction and more pulling power
- McHenry® scale knuckle spring couplers and much more

Expected release: July 2019



GP50 Diesel Loc	comotive		
Ref. with sound	Ref. without sound	Description	Gauge
75G65795	75G65695	Union Pacific #57	Н0
75G65796	75G65696	Union Pacific #66	Н0
75G65797	75G65697	Union Pacific #74	H0
75G65798	75G65698	Union Pacific #78	H0
75G65805	75G65705	BNSF #3110	H0
75G65806	75G65706	BNSF #3125	H0
75G65807	75G65707	BNSF #3153	H0
75G65804	75G65704	Illinois Central #3140	H0
75G65800	75G65700	Indiana & Ohio #5007	H0
75G65801	75G65701	Indiana & Ohio #5012	H0
75G65802	75G65702	Toledo, Peoria & Western #5009	H0
75G65803	75G65703	Toledo, Peoria & Western #5010	H0

#### **Containers**

Containers have become indispensable to our transport industry today. The initial idea came from an American haulier, who was inspired by pulling a pack of cigarettes from a machine: just like the packs of cigarettes in the machine shaft, steel containers could be stacked and transported on top of each other. Today, the container has conquered the world. Virtually nothing is not transported in such steel containers. **Expected release:** July 2019.



Canadian Tire



CSX #1



**UMAX** 



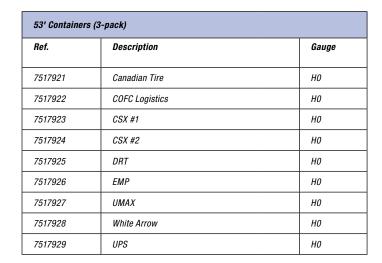
**COFC Logistics** 



CSX #2



White Arrow









**EMP** 













Bay Window Caboose			
Ref.	Description		
7507463	Western Pacific #474		
7574681	Western Pacific #444		
7590181	Western Pacific #429		
7590182	Western Pacific #435		
7590183	Western Pacific #448		
7590173	Georgia Railroad #2868		
7590174	Georgia Railroad #2869		
7574665	Southern Pacific #1776		
7574664	Southern Pacific #1741		
7590178	Southern Pacific #1474		
7590179	Southern Pacific #1500		
7590180	Southern Pacific #1527		
7574677	Erie Lackawanna #C354		
7590170	Erie Lackawanna #C326		
7590171	Erie Lackawanna #C336		
7590172	Erie Lackawanna #C338		
7590167	Conrail #21153		
7590168	Conrail #21152		
7590169	Conrail #21233		
7590175	Southern Railway #X262		
7590176	Southern Railway #X268		
7590177	Southern Railway #X271		

## **Bay Window Caboose**

The train staff in the Bay Window Caboose sit in the middle section of the car, which is recessed on both sides. This area is called "bay window", from which the brake van gets its name.

This extension allows the staff a better view of the train and replaces the former, customary observation dome, which was dangerous and repeatedly led to accidents.

The Baltimore and Ohio built all their cabooses in this design, based on a test model built in 1930.

Gradually, all railway companies took over this model, since its design made developing higher headroom in tunnels and viaducts superfluous. **Expected release:** July 2019.



PS-2 2600 Covered Hopper				
Ref. HO gauge	Ref. N gauge	Description		
7563762	7516311	MKT #1307		
7563763	7516312	MKT #1314		
7563764	7516313	MKT #1337		
7563765	7516314	CSX #225523		
7563766	7516315	CSX #225531		
7563767	7516316	CSX #225538		
7563768	7516317	GTW #138017		
7563769	7516318	GTW #138030		
7563770	7516319	GTW #138045		
7563771	7516320	CR #876267		
7563772	7516321	CR #876277		
7563773	7516322	CR #876289		
7563774	7516323	C&NW #95764		
7563775	7516324	C&NW #95778		
7563776	7516325	C&NW #95783		
7563777	7516326	GNOX #38002		
7563778	7516327	GNOX #38010		
7563779	7516328	GNOX #38030		

## PS-2 2600 Covered Hopper

The PS-2 2600 cu ft covered hopper first entered service in the 1960s. The car was popular for cement and sand service and could still be found in use well into the 2000s. The most common service was cement and sand. Occasionally used as buffer cars in instances were a bulk load was not protected by a bulkhead, for example an unprotected lumber load on flat car would require a buffer car between the load and the locomotive. Minimum radius for H0 gauge 457 mm or 248 mm for N gauge.

Expected release: June 2019



## Single-Door Box Cars

It was the mid-1970s when the boom with the »per diem box car« (closed freight cars rented for daily rates) began in the US. New freight cars in strikingly bright colours appeared almost overnight. Many had inscriptions of numerous shorthaul railway companies on them. FMC

(Food Machinery Corporation) was a major manufacturer of many of these

Minimum radius for H0 gauge 457 mm or 248 mm for N gauge.

Expected release: June 2019.



Single-Door Box Cars				
Ref. H0 gauge	Ref. N gauge	Description		
7518651	7504865	Railbox #37894		
7518652	7504866	Railbox #38143		
7518653	7504867	Railbox #37509		
7518654	7504868	Toledo, Peoria & Western #70127		
7518655	7504869	Toledo, Peoria & Western #70140		
7518656	7504870	Toledo, Peoria & Western #70141		
7518657	7504871	Green Mountain Railroad #24164		
7518658	7504872	Green Mountain Railroad #24176		
7518659	7504873	Green Mountain Railroad #24182		
7518660	7504874	CSX #142902		
7518661	7504875	CSX #142951		
7518662	7504876	CSX #149963		
7518663	7504877	Hartford & Slocomb #143593		
7518664	7504878	Hartford & Slocomb #143603		
7518665	7504879	Hartford & Slocomb #143619		
7518666	7504880	Hartford & Slocomb #143676		
7518667	7504881	CAI #3278		
7518668	7504882	CAI #3289		
7518669	7504883	CAI #3292		
7518670	7504884	Union Pacific #151058		
7518671	7504885	Union Pacific #151087		
7518672	7504886	Union Pacific #151092		





#### **Couplers**

For the best possible connection between US locomotives and cars with an NEM362 coupler pocket, we recommend the following top-quality Kadee Magne-Matic® Coupler Heads with swallow-tail shank.

US couplers compatible with NEM362			
Ref.	Description		
KD00017	NEM362 Coupler, S, 7.11 mm, 2 pairs/4 pieces	Н0	
KD00018	NEM362 Coupler, M, 8.63 mm, 2 pairs/4 pieces	H0	
KD00019	NEM362 Coupler, L, 10.76 mm, 2 pairs/4 pieces	НО	
KD00020	NEM362 Coupler, XL, 11.68 mm, 2 pairs/4 pieces	НО	



## Still haven't found a suitable model from Athearn? No problem!

Your local dealer regularly receives updated stocks from us, and so you can easily choose your model from this list, which your dealer then only needs to order from us. This also applies to the US products from KATO.

But don't forget: only while stocks last!









D-4	small selection from the current stock					
Ref.	Description		Gauge			
7514936	50'Single Door Box Car	Santa Fe #11996	H0			
7514938	50'Single Door Box Car	Santa Fe #12136	H0			
7514954	50'Single Door Box Car	Union Pacific #508507	H0			
7527965	20'Bevel Container 3-Pack	PIL	H0			
7573348	50'FMC Offset Double Door Box Car	Union Pacific #300362	H0			
7586598	Arch Roof Passenger Car	Coach Canadian Pacific #1339	H0			
7597586	Thrall High Side Gondola	Santa Fe #74909	H0			
75G22547	FP7 Locomotive Atlantic Coast Line #852,	ohne Sound	H0			
75G22549	FP7 Locomotive, without Sound	Atlantic Coast Line #878 & #885	H0			
75G22550	FP7 Locomotive, without Sound	Rock Island #409	H0			
75G22551	FP7 Locomotive, without Sound	Rock Island #404 & #405	H0			
75G22558	FP7 Locomotive, without Sound	Penn Central #4340 & #4362	Н0			
75G22635	F7A Diesel Locomotive PRR 9765A	with SoundTraxx Sound Decoder	Н0			
75G22637	F7A-F7A PRR 9820A-9821A	with SoundTraxx Sound Decoder	НО			
75G22645	FP7-F7B Diesel Locomotive S00 500A-B	with Sound	H0			
75G22657	FP7 Locomotive, with Sound	Penn Central #4341 & #4349	HO			
75G22658	FP7 Locomotive, with Sound	Penn Central #4340 & #4362	но			
75G40637	GP50 Diesel Locomotive Santa Fe 3853	with SoundTraxx Sound Decoder	но			
75G40786	GP40-2 Locomotive, without Sound	St. Louis – San Francisco #764	HO			
75G62735	G9P Diesel Locomotive B&O 6507	with SoundTraxx Sound Decoder	HO			
75G62736	G9P Diesel Locomotive B&0 6543	with SoundTraxx Sound Decoder	H0			
75G62778	GP7 Rock Island #1278	with Sound	HO			
75G66162	MP 15 AC, S00-Red & White #1	Genesis with Sound	H0			
75G66237	MP15AC Switcher Locomotive	with Sound	HO			
75G67128	SD45-2, without Sound	Santa Fe »Kodachrome« Scheme #5818	HO			
75G67132	SD45-2, without Sound	CSX #8972	HO			
75G67137	SD45-2, without Sound	Norfolk Southern »Patch« #1700	HO			
75G67139	SD45-2, without Sound	Norfolk Southern »Patch« #1705	HO			
75G67224	SD45-2, with Sound	Santa Fe Bicentennial #5701	HO			
75G67224 75G67229			HO			
	SD45-2, with Sound	Santa Fe »Kodachrome« Scheme #5826				
75G67230	SD45-2, with Sound	CSX #8262	HO			
75G67233	SD45-2, with Sound	Erie Lackawanna #3671	HO			
75G67237	SD45-2, with Sound	Norfolk Southern »Patch« #1700	HO			
75G68061	GP15-1 Locomotive, without Sound	Burlington Northern #1395	HO			
75G68510	SD70Ace Locomotive, without Sound	BNSF #9395	HO			
75G97005	Mt-4 Southern Pacific 4349 Steam Locomotive	with SoundTraxx Sound Decoder	HO			
75G97007	Mt-4 Southern Pacific 4360 Steam Locomotive	with SoundTraxx Sound Decoder	H0			
75G97204	4-8-8-4 Big Boy UP 4012	Coal Tender with Sound	HO			
75G97227	4-6-6-4 Challenger UP #3985	Museum-Locomotive with Sound	H0			
75G97235	4-6-6-4 Challenger Z-8 Class Northern Pacific #5148	with Sound	H0			
7506495	36 Old Time Wood Reefer	Santa Fe #20927	N			
7506989	50'PS-1 Single Door Box Car	New York Central / Peoria & Eastern #4522	N			
7522923	4-6-6-4 Challenger UP 3985, with Sound	Oil Tender, Museum Locomotive	N			
7522930	4-6-6-4 Challenger Northern Pacific #5138	Coal Tender with Sound	N			
7523666	40'Pfaudler Milk Car	Bordens #508	N			
7523693	40 Pfaudler Milk Car	New England Cream #782	l N			

# We Always Keep You Up-To-Date! NOCH US Newsletter

The full range from Athearn would actually justify creating a separate catalogue... Due to the monthly news announcements, though, this catalogue would quickly become irrelevant and out-of-date. The selection in this chapter is also only a short overview of the extensive range offered by Athearn.

Nevertheless, we always keep you up-to-date — with our US Newsletter! Just go to the Newsletter on www.noch.de and in the next step, you can select the US Newsletter. You are guaranteed not to miss out on new items any longer. In addition, you'll receive detailed info about the features and prototypes of the respective models. We also provide illustrations of the painted and printed variants as well as short product videos for one or two top new releases with the free US Newsletter.

We look forward to your visit at www.noch.de and your entry to the NOCH US Newsletter.



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00005	113	<b>07351</b> 95	<b>12841</b> 244	<b>14247</b> 193	<b>14832</b> 257	<b>15596</b> 217	<b>15973</b> 226	<b>21802</b> 141
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00012	112	<b>07402</b> 104 <b>07403</b> 105	12851 245	<b>14300</b> 194 <b>14303</b> 194	<b>14850</b> 258	15618 218	15977 226	<b>21829</b> 143
00020	112	<b>07420</b> 105	<b>12860</b> 245	<b>14304</b> 194	<b>14851</b> 258	<b>15619</b> 218	<b>15978</b> 226	<b>21833</b> 143
00080	112	<b>07421</b> 105	<b>12897</b> 245	<b>14305</b> 194	<b>14870</b> 258	<b>15628</b> 218	<b>15979</b> 226	<b>21834</b> 143
00090	112	<b>07442</b> 105	<b>12899</b> 245	<b>14306</b> 194	<b>14871</b> 258	<b>15629</b> 218	<b>15980</b> 226	<b>21911</b> 142
00230	112 112	<b>07450</b> 104 <b>07460</b> 90	<b>12900</b> 243 <b>12905</b> 243	<b>14307</b> 194 <b>14308</b> 194	<b>14872</b> 258 <b>14874</b> 259	<b>15630</b> 218 <b>15632</b> 218	<b>15981</b> 227 <b>15982</b> 227	<b>21914</b> 142 <b>21919</b> 143
00260 00265	112	<b>07460</b> 90 <b>08099</b> 98	<b>12905</b> 243 <b>12910</b> 244	<b>14308</b> 194 <b>14311</b> 194	<b>14874</b> 259 <b>14885</b> 259	15632 218 15634 218	15982 227 15983 227	<b>21919</b> 143 <b>21922</b> 143
00270	112	<b>08100</b> 88	<b>12950</b> 243	<b>14312</b> 195	<b>14886</b> 259	<b>15635</b> 218	<b>15984</b> 227	<b>21924</b> 144
00280	112	<b>08150</b> 88	<b>12955</b> 243	<b>14313</b> 195	<b>14890</b> 259	<b>15711</b> 219	<b>15985</b> 227	<b>21927</b> 144
00290	112	<b>08151</b> 88	<b>12960</b> 244	<b>14335</b> 195	<b>14985</b> 228	<b>15712</b> 219	<b>15986</b> 227	<b>21929</b> 145
00400	92	08152 88	13010 260	<b>14339</b> 195	<b>14986</b> 227	<b>15713</b> 219	<b>15987</b> 227 <b>15988</b> 227	<b>21965</b> 120
00402 00406	92 92	<b>08155</b> 88 <b>08157</b> 88	<b>13015</b> 260 <b>13030</b> 260	<b>14341</b> 195 <b>14342</b> 195	<b>15021</b> 208 <b>15022</b> 208	<b>15717</b> 219 <b>15719</b> 219	<b>15988</b> 227 <b>15989</b> 227	<b>21966</b> 120 <b>21971</b> 147
00410	92	<b>08200</b> 88	<b>13040</b> 260	<b>14343</b> 196	<b>15025</b> 208	<b>15721</b> 219	15991 242	<b>21981</b> 147
00412	92	<b>08212</b> 88	<b>13060</b> 260	<b>14345</b> 196	<b>15029</b> 208	<b>15722</b> 219	<b>16041</b> 236	<b>21995</b> 147
00416	92	<b>08214</b> 88	<b>13070</b> 260	<b>14346</b> 196	<b>15038</b> 208	<b>15723</b> 219	<b>16043</b> 236	<b>21996</b> 147
02120	270	<b>08300</b> 88	<b>13080</b> 260	<b>14349</b> 196	<b>15042</b> 208	<b>15724</b> 219	<b>16045</b> 236	<b>21997</b> 147
02200 02220	270 270	<b>08310</b> 88 <b>08312</b> 88	<b>13095</b> 261 <b>13096</b> 261	<b>14354</b> 196 <b>14355</b> 111	<b>15051</b> 208 <b>15052</b> 208	<b>15725</b> 219 <b>15726</b> 220	<b>16047</b> 236 <b>16049</b> 236	<b>21998</b> 147 <b>22010</b> 120
02221	270	08314 88	<b>13100</b> 260	<b>14357</b> 111	<b>15052</b> 208	<b>15727</b> 220	<b>16050</b> 236	<b>22020</b> 120
02430	270	<b>08320</b> 88	<b>13140</b> 260	<b>14358</b> 111	<b>15054</b> 209	<b>15730</b> 220	<b>16070</b> 237	<b>22110</b> 120
05130	270	<b>08321</b> 89	<b>13160</b> 232	<b>14359</b> 111	<b>15055</b> 209	<b>15731</b> 220	<b>16071</b> 237	<b>22120</b> 120
05170	270	<b>08322</b> 89	<b>13215</b> 107	<b>14361</b> 111	<b>15056</b> 209	<b>15740</b> 220	<b>16101</b> 234	<b>22130</b> 120
05180 07004	270 103	<b>08323</b> 89 <b>08324</b> 89	<b>13216</b> 107 <b>13217</b> 107	<b>14363</b> 111 <b>14364</b> 197	<b>15060</b> 209 <b>15061</b> 209	<b>15742</b> 220 <b>15745</b> 220	<b>16109</b> 234 <b>16121</b> 234	<b>23100</b> 134 <b>23102</b> 135
07010	103	08330 88	<b>13218</b> 107	<b>14365</b> 197	<b>15070</b> 209	<b>15748</b> 220	16130 234	<b>24500</b> 148
07014	103	<b>08350</b> 88	<b>13219</b> 107	<b>14366</b> 197	<b>15074</b> 210	<b>15749</b> 220	<b>16650</b> 221	<b>24501</b> 148
07015	103	<b>08360</b> 88	<b>13600</b> 252	<b>14367</b> 197	<b>15075</b> 210	<b>15752</b> 220	<b>16652</b> 221	<b>24510</b> 148
07016	103	<b>08370</b> 93	13601 252	<b>14368</b> 197	<b>15076</b> 210	<b>15761</b> 220	<b>16656</b> 221	<b>24511</b> 148
07022 07024	103 103	<b>08371</b> 93 <b>08372</b> 93	<b>13610</b> 252 <b>13620</b> 252	<b>14369</b> 197 <b>14370</b> 197	<b>15086</b> 235 <b>15088</b> 210	<b>15772</b> 221 <b>15774</b> 221	<b>16658</b> 221 <b>16701</b> 231	<b>24520</b> 148 <b>24521</b> 148
07024 07025	103	<b>08372</b> 93 <b>08373</b> 93	13620 252 13621 252	<b>14370</b> 197 <b>14375</b> 198	<b>15086</b> 210 <b>15090</b> 210	15774 221 15775 221	<b>16701</b> 231 <b>16706</b> 231	<b>24521</b> 148 <b>24530</b> 148
07026	103	<b>08375</b> 93	<b>13622</b> 253	<b>14378</b> 198	<b>15091</b> 210	<b>15800</b> 183	<b>16708</b> 231	<b>24531</b> 148
07027	103	<b>08376</b> 93	<b>13626</b> 253	<b>14379</b> 198	<b>15094</b> 209	<b>15801</b> 183	<b>16714</b> 231	<b>25070</b> 152
07028	103	<b>08400</b> 93	<b>13640</b> 253	<b>14389</b> 198	<b>15096</b> 209	<b>15809</b> 222	<b>16732</b> 222	<b>25075</b> 121
07032 07034	103 103	<b>08401</b> 93 <b>08410</b> 93	<b>13641</b> 253 <b>13642</b> 253	<b>14392</b> 123 <b>14393</b> 123	<b>15099</b> 210 <b>15108</b> 209	15810 222 15815 222	<b>16750</b> 232 <b>16755</b> 232	<b>25086</b> 152 <b>25087</b> 121
07034 07035	103	<b>08410</b> 93 <b>08411</b> 93	13643 253	<b>14394</b> 123	15109 235	15819 124	16756 232	<b>25087</b> 121 <b>25088</b> 152
07036	103	<b>08420</b> 93	<b>13644</b> 253	<b>14395</b> 123	<b>15110</b> 209	15820 222	<b>16758</b> 232	<b>25090</b> 153
07037	103	<b>08421</b> 93	<b>13700</b> 254	<b>14397</b> 198	<b>15111</b> 235	<b>15826</b> 124	<b>16770</b> 232	<b>25092</b> 153
07038	103	<b>08440</b> 93	<b>13706</b> 254	<b>14398</b> 198	<b>15218</b> 211	<b>15827</b> 124	<b>16772</b> 232	<b>25096</b> 153
07060	99	<b>08441</b> 93	<b>13720</b> 254 <b>13723</b> 254	<b>14399</b> 198	<b>15219</b> 211 <b>15220</b> 211	<b>15828</b> 124 <b>15829</b> 124	16800 233	<b>25098</b> 153
07065 07066	116 91	<b>08460</b> 93 <b>08470</b> 93	<b>13723</b> 254 <b>13724</b> 254	<b>14412</b> 195 <b>14413</b> 198	<b>15220</b> 211 <b>15224</b> 211	<b>15829</b> 124 <b>15830</b> 235	<b>16805</b> 233 <b>16809</b> 233	<b>25110</b> 149 <b>25111</b> 149
07069	85	<b>08600</b> 99	13725 254	<b>14422</b> 194	<b>15225</b> 211	15832 222	16810 233	<b>25111</b> 149
07071	91	<b>08610</b> 99	<b>13726</b> 254	<b>14424</b> 194	<b>15226</b> 211	<b>15833</b> 222	<b>16815</b> 233	<b>25113</b> 149
07072	92	<b>08620</b> 99	<b>13750</b> 254	<b>14427</b> 198	<b>15227</b> 211	<b>15834</b> 222	<b>16818</b> 233	<b>25114</b> 149
07073 07075	92 92	<b>08621</b> 99 <b>08630</b> 99	<b>13752</b> 254 <b>13800</b> 252	<b>14428</b> 191 <b>14431</b> 192	<b>15240</b> 211 <b>15241</b> 211	<b>15838</b> 222 <b>15839</b> 222	<b>16820</b> 233 <b>16822</b> 233	<b>25115</b> 149 <b>25120</b> 150
07076	92 92	<b>08750</b> 119	13801 252	<b>14431</b> 192 <b>14432</b> 191	<b>15241</b> 211 <b>15242</b> 211	15841 223	16824 233	<b>25130</b> 149
07077	92	<b>08752</b> 117	<b>13820</b> 254	<b>14433</b> 195	<b>15243</b> 212	<b>15842</b> 223	<b>17800</b> 241	<b>25140</b> 150
07079	92	<b>08754</b> 118	<b>13822</b> 254	<b>14434</b> 195	<b>15244</b> 212	<b>15843</b> 223	<b>17810</b> 241	<b>25150</b> 150
07090	90	<b>08756</b> 119	<b>13900</b> 252	<b>14435</b> 111	<b>15245</b> 212	<b>15844</b> 223	<b>17820</b> 241	<b>25170</b> 150
07091 07092	90 90	<b>08758</b> 118 <b>08760</b> 116	<b>13901</b> 252 <b>13920</b> 254	<b>14436</b> 111 <b>14437</b> 192	<b>15250</b> 212 <b>15265</b> 213	<b>15850</b> 223 <b>15857</b> 223	<b>17850</b> 241 <b>17860</b> 241	<b>25232</b> 150 <b>25234</b> 121
07094	90	<b>08810</b> 56	<b>13922</b> 254	<b>14438</b> 191	<b>15266</b> 213	<b>15860</b> 223	<b>18000</b> 238	<b>25410</b> 150
07095	90	<b>09161</b> 20	<b>14012</b> 106	<b>14440</b> 194	<b>15267</b> 213	<b>15861</b> 223	<b>18010</b> 238	<b>25420</b> 150
07096	90	<b>09163</b> 20	<b>14014</b> 106	<b>14442</b> 195	<b>15269</b> 213	<b>15863</b> 223	<b>18100</b> 238	<b>25432</b> 150
07097 07099	90 90	<b>09165</b> 20 <b>09167</b> 20	<b>14020</b> 106 <b>14021</b> 106	<b>14474</b> 197 <b>14475</b> 198	<b>15270</b> 213 <b>15271</b> 213	15869 223 15870 223	<b>18101</b> 238 <b>18115</b> 238	<b>25510</b> 149 <b>25511</b> 149
07100	90	<b>09172</b> 20	<b>14022</b> 106	<b>14476</b> 196	<b>15272</b> 213	15871 223	<b>18116</b> 238	<b>25513</b> 149
07101	90	<b>09174</b> 20	<b>14023</b> 106	<b>14478</b> 198	<b>15274</b> 213	<b>15872</b> 224	<b>18117</b> 238	<b>25520</b> 150
07102	90	<b>09202</b> 21	<b>14024</b> 106	<b>14479</b> 198	<b>15275</b> 212	<b>15873</b> 224	<b>18130</b> 238	<b>25525</b> 150
07106	90	<b>09203</b> 21	<b>14031</b> 106	<b>14482</b> 123	<b>15276</b> 212	<b>15874</b> 224	<b>18131</b> 238	<b>25860</b> 151
07110 07111	90 90	<b>09204</b> 21 <b>09214</b> 21	<b>14050</b> 108 <b>14052</b> 108	<b>14483</b> 123 <b>14488</b> 195	<b>15277</b> 212 <b>15278</b> 212	<b>15880</b> 224 <b>15885</b> 224	<b>18132</b> 238 <b>18210</b> 238	<b>25880</b> 151 <b>25895</b> 151
07112	90	<b>09216</b> 21	<b>14054</b> 108	<b>14489</b> 198	<b>15280</b> 212	15886 224	<b>18215</b> 238	<b>25950</b> 154
07116	90	<b>09226</b> 21	<b>14056</b> 108	<b>14604</b> 110	<b>15281</b> 212	<b>15887</b> 224	<b>18401</b> 239	<b>25952</b> 154
07125	102	<b>09228</b> 21	<b>14080</b> 106	<b>14606</b> 109	<b>15282</b> 212	<b>15892</b> 224	<b>18402</b> 239	<b>26801</b> 155
07127	103	<b>09230</b> 21 <b>09232</b> 21	<b>14082</b> 106 <b>14084</b> 106	<b>14608</b> 109 <b>14612</b> 195	<b>15283</b> 212 <b>15290</b> 214	<b>15893</b> 224 <b>15898</b> 225	<b>21310</b> 41 <b>21320</b> 41	<b>26806</b> 155 <b>26811</b> 156
07133 07135	103 103	<b>09232</b> 21 <b>09361</b> 20	<b>14084</b> 106 <b>14100</b> 109	<b>14612</b> 195 <b>14613</b> 198	<b>15290</b> 214 <b>15400</b> 214	15898 225 15899 224	21320 41 21330 41	<b>26811</b> 156 <b>26820</b> 156
07136	102	<b>09363</b> 20	<b>14102</b> 109	<b>14620</b> 192	<b>15401</b> 214	<b>15904</b> 225	<b>21340</b> 41	<b>26821</b> 156
07142	98	<b>09365</b> 20	<b>14104</b> 109	<b>14622</b> 194	<b>15410</b> 214	<b>15905</b> 225	<b>21350</b> 41	<b>26822</b> 156
07144	98	<b>09367</b> 20	<b>14107</b> 110	<b>14624</b> 194	<b>15470</b> 214	<b>15910</b> 225	<b>21400</b> 40	<b>26825</b> 157
07146	98	<b>09372</b> 20	<b>14109</b> 110 <b>14114</b> 110	<b>14627</b> 198	<b>15478</b> 214 <b>15479</b> 214	<b>15911</b> 225 <b>15912</b> 225	<b>21410</b> 40 <b>21420</b> 40	<b>26826</b> 157 <b>26827</b> 157
07152 07154	98 98	<b>09374</b> 20 <b>09376</b> 20	<b>14114</b> 110 <b>14118</b> 110	<b>14628</b> 191 <b>14631</b> 192	<b>15479</b> 214 <b>15480</b> 214	<b>15912</b> 225 <b>15913</b> 225	<b>21420</b> 40 <b>21512</b> 158	<b>26827</b> 157 <b>26828</b> 121
07167	98	<b>12010</b> 246	<b>14132</b> 110	<b>14632</b> 191	<b>15510</b> 214	15914 225	<b>21514</b> 158	<b>26830</b> 156
07168	98	<b>12011</b> 247	<b>14138</b> 110	<b>14633</b> 195	<b>15518</b> 214	<b>15915</b> 225	<b>21522</b> 158	<b>26831</b> 156
07202	94	<b>12015</b> 247	<b>14140</b> 110	<b>14634</b> 195	<b>15520</b> 215	<b>15916</b> 225	<b>21524</b> 158	<b>26901</b> 155
07204 07206	94 94	<b>12020</b> 247 <b>12025</b> 247	<b>14200</b> 110 <b>14202</b> 191	<b>14635</b> 111 <b>14636</b> 111	<b>15530</b> 215 <b>15531</b> 235	<b>15917</b> 225 <b>15920</b> 124	<b>21530</b> 146 <b>21532</b> 146	<b>26902</b> 155 <b>26906</b> 155
07223	94	12025 247 12026 247	<b>14202</b> 191 <b>14203</b> 191	<b>14637</b> 192	<b>15532</b> 215	15922 235	<b>21535</b> 146	<b>26911</b> 156
07225	94	<b>12030</b> 248	<b>14211</b> 191	<b>14638</b> 191	<b>15533</b> 215	<b>15926</b> 124	<b>21537</b> 146	<b>26920</b> 156
07227	94	<b>12031</b> 248	<b>14214</b> 191	<b>14640</b> 194	<b>15536</b> 215	<b>15928</b> 124	<b>21540</b> 146	<b>26921</b> 156
07241	94 04	12035 248	<b>14218</b> 191	<b>14670</b> 197	<b>15540</b> 215	<b>15930</b> 124	<b>21545</b> 146 <b>21550</b> 126	<b>26925</b> 157
07242 07270	94 96	<b>12036</b> 248 <b>12040</b> 248	<b>14219</b> 191 <b>14221</b> 192	<b>14674</b> 197 <b>14675</b> 198	<b>15551</b> 215 <b>15558</b> 215	<b>15951</b> 230 <b>15952</b> 230	<b>21550</b> 136 <b>21560</b> 136	<b>26926</b> 157 <b>26928</b> 121
07270 07271	96	12040 248 12041 249	<b>14221</b> 192 <b>14222</b> 192	<b>14676</b> 196	15560 215	15952 230 15953 230	<b>21570</b> 136	<b>26929</b> 121
07272	96	<b>12042</b> 249	<b>14223</b> 192	<b>14678</b> 198	<b>15563</b> 216	<b>15956</b> 230	<b>21600</b> 136	<b>26930</b> 156
07280	96	<b>12045</b> 249	<b>14224</b> 192	<b>14679</b> 198	<b>15565</b> 216	<b>15957</b> 230	<b>21640</b> 136	<b>32801</b> 155
07281	96	<b>12046</b> 249	<b>14228</b> 111	<b>14682</b> 123	<b>15567</b> 216	<b>15958</b> 230	<b>21641</b> 140	<b>32811</b> 156
07282 07290	96 97	<b>12050</b> 249 <b>12520</b> 247	<b>14229</b> 111 <b>14230</b> 111	<b>14683</b> 123 <b>14688</b> 195	<b>15570</b> 216 <b>15571</b> 216	<b>15959</b> 230 <b>15960</b> 230	<b>21642</b> 137 <b>21650</b> 137	<b>32820</b> 156 <b>32825</b> 157
07290 07291	97 97	12520 247 12540 248	<b>14230</b> 111 <b>14233</b> 192	<b>14689</b> 198	<b>15573</b> 216	15960 230 15961 230	<b>21660</b> 137 <b>21660</b> 137	<b>32828</b> 121
07292	97	<b>12542</b> 249	<b>14234</b> 192	<b>14800</b> 255	<b>15574</b> 216	<b>15962</b> 230	<b>21690</b> 137	<b>32830</b> 156
07300	97	<b>12545</b> 249	<b>14235</b> 192	<b>14805</b> 255	<b>15575</b> 216	<b>15965</b> 226	<b>21730</b> 137	<b>32901</b> 155
07301	97 05	12720 247	<b>14236</b> 193	14810 255 14814 256	<b>15577</b> 216	<b>15966</b> 226	<b>21760</b> 138	<b>32911</b> 156
07331 07332	95 95	<b>12740</b> 248 <b>12742</b> 249	<b>14239</b> 193 <b>14242</b> 193	<b>14814</b> 256 <b>14815</b> 256	<b>15578</b> 216 <b>15580</b> 216	<b>15967</b> 227 <b>15968</b> 227	<b>21761</b> 140 <b>21765</b> 139	<b>32920</b> 156 <b>32925</b> 157
07333	95	<b>12745</b> 249	<b>14243</b> 193	<b>14817</b> 256	<b>15589</b> 216	15969 226	<b>21770</b> 138	<b>33010</b> 260

<b>33030</b> 260	<b>36839</b> 222	<b>45967</b> 226	<b>58061</b> 48	<b>60823</b> 70	<b>63712</b> 180	<b>81980</b> 284	<b>70106087</b> 316
<b>33070</b> 260	<b>36841</b> 223	<b>45991</b> 242	<b>58062</b> 48	<b>60824</b> 70	<b>63800</b> 178	<b>83860</b> 290	<b>7011650</b> 316
<b>33095</b> 261	<b>36843</b> 223	<b>46070</b> 237	<b>58064</b> 48	<b>60825</b> 68	<b>63903</b> 175	<b>83870</b> 288	<b>70148011</b> 330
<b>33096</b> 261	<b>36870</b> 223	<b>46071</b> 237	<b>58065</b> 48	<b>60826</b> 68	<b>63906</b> 175	<b>84320</b> 292	<b>70148012</b> 330
<b>34070</b> 67	<b>36871</b> 223	<b>46650</b> 221	<b>58066</b> 48	<b>60829</b> 68	<b>65606</b> 189	<b>84340</b> 292	<b>70148014</b> 330
<b>34071</b> 67	<b>36874</b> 224	<b>46750</b> 232	<b>58067</b> 48	<b>60833</b> 16	<b>65610</b> 122	<b>84350</b> 292	70148015 330
<b>34090</b> 66	<b>36898</b> 225	<b>46848</b> 257	<b>58152</b> 59	<b>60835</b> 16	<b>65611</b> 188	<b>84810</b> 289	<b>70148016</b> 330
<b>34100</b> 66	<b>36904</b> 225	<b>46849</b> 257	<b>58247</b> 49	<b>60836</b> 16	<b>65612</b> 189	<b>84830</b> 287	<b>70148018</b> 330
<b>34111</b> 70	<b>36905</b> 225	<b>47100</b> 238	<b>58248</b> 49	<b>60840</b> 16	<b>65613</b> 189	<b>85340</b> 292	<b>70148021</b> 330
<b>34121</b> 70	<b>36910</b> 225	<b>47101</b> 238	<b>58250</b> 49	<b>60850</b> 81	<b>65614</b> 188	<b>85880</b> 291	70148022 330
<b>34150</b> 66	<b>36926</b> 124	<b>47115</b> 238	<b>58255</b> 49	<b>60855</b> 79	<b>65615</b> 190	<b>87000</b> 306	70148023 330
<b>34170</b> 67 <b>34200</b> 64	<b>36951</b> 230 <b>36953</b> 230	<b>47116</b> 238 <b>47130</b> 238	<b>58260</b> 49 <b>58270</b> 47	<b>60856</b> 79 <b>60858</b> 79	<b>65616</b> 190 <b>65620</b> 123	<b>87005</b> 306 <b>87010</b> 307	701762301 316 701765317 316
<b>34200</b> 64 <b>34201</b> 65	<b>36959</b> 230	<b>47131</b> 238	58270 47 58271 47	<b>60861</b> 81	65800 178	<b>87015</b> 307	701765317DCC 316
<b>34207</b> 63	<b>36965</b> 226	<b>47401</b> 239	58271 47 58272 47	<b>60862</b> 81	<b>66001</b> 164	<b>87040</b> 308	701765318 316
<b>34204</b> 65	<b>36967</b> 226	<b>47402</b> 239	58273 47	<b>60870</b> 77	<b>66003</b> 164	<b>87045</b> 308	701765318DCC 316
<b>34222</b> 64	<b>36991</b> 242	48051 44	<b>58274</b> 47	<b>60871</b> 77	<b>66007</b> 162	<b>88060</b> 309	701765354 316
<b>34224</b> 64	<b>37070</b> 237	<b>48052</b> 44	<b>58275</b> 47	<b>60872</b> 80	<b>66008</b> 165	<b>88061</b> 309	701765354DCC 316
<b>34240</b> 69	<b>37071</b> 237	<b>48054</b> 44	<b>58276</b> 47	<b>60873</b> 80	<b>66010</b> 165	<b>88163</b> 309	<b>701765355</b> 316
<b>34304</b> 46	<b>37701</b> 231	<b>48055</b> 44	<b>58277</b> 47	<b>60874</b> 80	<b>66103</b> 163	<b>88171</b> 309	701765355DCC 316
<b>34305</b> 46	<b>37750</b> 232	<b>48056</b> 45	<b>58290</b> 72	<b>60875</b> 77	<b>66106</b> 167	<b>88172</b> 309	<b>701769201</b> 317
<b>34306</b> 46	<b>37805</b> 233	<b>48057</b> 45	<b>58292</b> 72	<b>60880</b> 17	<b>66108</b> 166	<b>88300</b> 306	<b>701769202</b> 317
<b>34400</b> 53	<b>37809</b> 233	<b>48058</b> 45	<b>58294</b> 73	<b>60882</b> 17	<b>66110</b> 167	<b>88301</b> 306	701769203 317
<b>34410</b> 53	<b>37815</b> 233	<b>48059</b> 45	<b>58296</b> 73	<b>60890</b> 17	<b>66201</b> 165	<b>88305</b> 306	<b>701769204</b> 317
<b>34640</b> 271	<b>37822</b> 233	<b>48410</b> 66	<b>58300</b> 49	<b>60892</b> 17	<b>66260</b> 166	<b>88306</b> 306	<b>7020027</b> 318
<b>34660</b> 271	<b>38100</b> 238	<b>48430</b> 67	<b>58303</b> 46	<b>60918</b> 61	<b>66314</b> 168	<b>88310</b> 307	<b>7020283</b> 327
<b>34730</b> 271	<b>38101</b> 238	<b>48450</b> 67	<b>58304</b> 46	<b>60920</b> 17	<b>66316</b> 168	88311 307	<b>7020284</b> 327
<b>34790</b> 51 <b>34800</b> 51	<b>38115</b> 238 <b>38116</b> 238	<b>48470</b> 66 <b>48570</b> 67	<b>58305</b> 46 <b>58306</b> 46	<b>60980</b> 17 <b>60982</b> 17	<b>66380</b> 181 <b>66407</b> 170	<b>88315</b> 307 <b>88316</b> 307	<b>7020285</b> 327 <b>7020286</b> 327
<b>34840</b> 50	<b>38130</b> 238	<b>48580</b> 64	<b>58448</b> 57	<b>60990</b> 16	66409 174	<b>88400</b> 308	<b>7020287</b> 327
<b>34851</b> 44	<b>38131</b> 238	<b>48581</b> 65	<b>58451</b> 57	<b>60991</b> 16	<b>66412</b> 122	<b>88401</b> 308	<b>7023114</b> 325
<b>34852</b> 44	<b>38401</b> 239	<b>48583</b> 64	<b>58452</b> 57	<b>61104</b> 131	<b>66701</b> 176	<b>88405</b> 308	<b>7023115</b> 325
<b>34854</b> 44	<b>38402</b> 239	<b>48584</b> 65	<b>58462</b> 59	<b>61121</b> 242	<b>66703</b> 172	<b>88406</b> 308	<b>7023116</b> 325
<b>34855</b> 44	<b>43030</b> 260	<b>48586</b> 64	<b>58470</b> 58	<b>61130</b> 131	<b>66705</b> 179	<b>99150</b> 18	<b>7023117</b> 325
<b>34856</b> 45	<b>43060</b> 260	<b>48587</b> 65	<b>58480</b> 58	<b>61131</b> 131	<b>66707</b> 173	<b>99151</b> 18	<b>7023211</b> 324
<b>34857</b> 45	<b>43070</b> 260	<b>48589</b> 64	<b>58490</b> 58	<b>61133</b> 131	<b>66711</b> 173	<b>99155</b> 18	<b>7023212</b> 324
<b>34858</b> 45	<b>43095</b> 261	<b>48590</b> 65	<b>58585</b> 184	<b>61134</b> 20	<b>66712</b> 180	<b>99157</b> 18	<b>7023239</b> 325
<b>34859</b> 45	<b>43096</b> 261	<b>48592</b> 64	<b>58600</b> 201	<b>61135</b> 19	<b>66713</b> 169	<b>99158</b> 18	<b>7023240</b> 325
<b>34860</b> 36	<b>44070</b> 67	<b>48594</b> 64	<b>58602</b> 201	<b>61138</b> 131	<b>66801</b> 171	<b>99160</b> 18	<b>7023245</b> 315
<b>34861</b> 36	<b>44100</b> 66	<b>48600</b> 69	<b>58605</b> 201	<b>61140</b> 130	<b>66803</b> 174	<b>99161</b> 18	<b>70234311</b> 330
<b>34937</b> 49	<b>44150</b> 66	<b>48670</b> 271	<b>58609</b> 201	<b>61141</b> 130	66810 171	<b>99165</b> 18	<b>70234312</b> 330
<b>34938</b> 49	<b>44200</b> 240	<b>48730</b> 271	<b>58660</b> 36	<b>61151</b> 131	<b>66822</b> 185	<b>99167</b> 18	<b>70234331</b> 330
<b>34940</b> 49 <b>34942</b> 49	<b>44201</b> 240 <b>44202</b> 240	<b>48790</b> 51 <b>48800</b> 51	<b>58661</b> 36 <b>58664</b> 37	<b>61152</b> 130 <b>61162</b> 128	<b>66823</b> 186 <b>66825</b> 177	<b>99168</b> 18 <b>99348</b> 24	<b>70234341</b> 330 <b>70234351</b> 330
<b>35848</b> 257	<b>44202</b> 240 <b>44203</b> 240	<b>50190</b> 88	<b>58665</b> 37	61165 128	66826 177	99353 24	<b>70234351</b> 330 <b>70234352</b> 330
<b>35849</b> 257	<b>44250</b> 240	<b>50200</b> 88	<b>58668</b> 36	<b>61170</b> 129	<b>66827</b> 176	99354 24	<b>7023436</b> 330
<b>35985</b> 228	<b>44251</b> 240	<b>50210</b> 88	<b>58669</b> 36	<b>61171</b> 129	<b>66903</b> 175	99356 24	<b>7023437</b> 330
<b>36021</b> 208	<b>44252</b> 240	<b>50220</b> 88	<b>58670</b> 37	<b>61172</b> 129	<b>66906</b> 175	99358 24	<b>7023438</b> 330
<b>36022</b> 208	<b>44420</b> 53	<b>50303</b> 294	<b>58671</b> 37	<b>61173</b> 129	<b>66990</b> 183	<b>99359</b> 24	<b>7023439</b> 330
<b>36029</b> 208	<b>44430</b> 53	<b>50305</b> 294	<b>58675</b> 35	<b>61174</b> 129	<b>67010</b> 29	<b>99360</b> 24	<b>7024039</b> 331
<b>36038</b> 208	<b>44670</b> 271	<b>50306</b> 302	<b>58676</b> 35	<b>61175</b> 129	<b>67020</b> 29		<b>7024850</b> 327
<b>36052</b> 208	<b>44790</b> 51	<b>50410</b> 19	<b>58677</b> 35	<b>61176</b> 129	<b>67023</b> 31	KATO	<b>7024851</b> 327
<b>36055</b> 209	<b>44800</b> 51	<b>50412</b> 19	<b>58690</b> 40	<b>61177</b> 129	<b>67024</b> 30	<b>7002105</b> 330	<b>7073327</b> 312
<b>36060</b> 209	<b>44810</b> 45	<b>50416</b> 19	<b>60010</b> 53	<b>61188</b> 129	<b>67025</b> 30	<b>7002111</b> 330	<b>7073328</b> 312
<b>36070</b> 209	<b>44820</b> 45	<b>50460</b> 19	<b>60020</b> 53	<b>61189</b> 129	<b>67026</b> 30	<b>7002120</b> 330	<b>7074030</b> 315
<b>36082</b> 210	<b>44920</b> 45	<b>50462</b> 19	<b>60132</b> 87	<b>61190</b> 129	<b>67027</b> 28	<b>7002130</b> 330	<b>7074031</b> 315
<b>36083</b> 210	<b>44985</b> 228	<b>50490</b> 19	<b>60135</b> 87	<b>61191</b> 129	<b>67028</b> 28	<b>7002140</b> 330	<b>7074032</b> 315
<b>36090</b> 210	<b>45029</b> 208	<b>50492</b> 19	<b>60136</b> 87	<b>61192</b> 129	<b>67029</b> 30	<b>7002141</b> 330	<b>7074033</b> 315
<b>36091</b> 210 <b>36094</b> 209	<b>45031</b> 208	<b>50496</b> 19 <b>51202</b> 122	<b>60140</b> 25 <b>60142</b> 129	<b>61193</b> 129 <b>61194</b> 129	<b>67031</b> 31 <b>67032</b> 31	<b>7002150</b> 330	<b>7074035</b> 314
	<b>45038</b> 208					<b>7002151</b> 330	7074036 314
<b>36099</b> 210 <b>36100</b> 210	<b>45055</b> 209 <b>45060</b> 209	<b>53001</b> 23 <b>53004</b> 23	<b>60143</b> 129 <b>60156</b> 25	<b>61195</b> 129 <b>61196</b> 129	<b>67034</b> 31 <b>67038</b> 29	<b>7002152</b> 330 <b>7002153</b> 330	<b>7074040</b> 315 <b>7074041</b> 314
<b>36110</b> 209	<b>45070</b> 209	<b>53005</b> 23	60157 25	<b>61197</b> 129	67070 32	7002160 330	7074042 314
<b>36218</b> 211	<b>45076</b> 210	<b>53007</b> 23	<b>60158</b> 25	<b>61200</b> 129	67071 32	<b>7002170</b> 330	<b>7074043</b> 314
<b>36220</b> 211	<b>45091</b> 210	<b>53008</b> 23	<b>60159</b> 25	<b>61230</b> 60	<b>67190</b> 199	<b>7002180</b> 330	<b>7074044</b> 314
<b>36226</b> 211	<b>45094</b> 209	<b>53009</b> 23	<b>60160</b> 24	<b>61231</b> 60	<b>67350</b> 51	<b>7002181</b> 330	<b>7074045</b> 314
<b>36240</b> 211	<b>45108</b> 209	<b>53026</b> 23	<b>60180</b> 24	<b>61232</b> 60	<b>67360</b> 51	<b>7002193</b> 330	<b>7074047</b> 313
<b>36241</b> 211	<b>45110</b> 209	<b>53027</b> 23	<b>60264</b> 338	<b>61233</b> 60	<b>67660</b> 271	<b>7002210</b> 330	<b>7074048</b> 313
<b>36242</b> 211	<b>45218</b> 211	<b>53101</b> 23	<b>60312</b> 71	<b>61234</b> 60	<b>67700</b> 51	<b>7002220</b> 330	<b>7074885</b> 312
<b>36245</b> 212	<b>45220</b> 211	<b>53104</b> 23	<b>60314</b> 71	<b>61235</b> 60	<b>67760</b> 51	<b>7002230</b> 330	<b>7074888</b> 314
<b>36265</b> 213	<b>45226</b> 211	<b>53105</b> 23	<b>60316</b> 71	<b>61601</b> 15	<b>68010</b> 159	<b>7002240</b> 330	<b>7074889</b> 314
<b>36275</b> 212 <b>36276</b> 212	<b>45240</b> 211 <b>45242</b> 211	<b>53107</b> 23 <b>53108</b> 23	<b>60322</b> 71 <b>60324</b> 71	<b>61605</b> 14 <b>61620</b> 15	<b>68015</b> 159 <b>68020</b> 159	<b>7002241</b> 330 <b>7002242</b> 330	<b>7074893</b> 319 <b>7074894</b> 312
<b>36276</b> 212 <b>36277</b> 212	<b>45242</b> 211 <b>45245</b> 212	<b>53108</b> 23 <b>53109</b> 23	<b>60410</b> 66	<b>61620</b> 15 <b>61630</b> 15	<b>68020</b> 159 <b>68022</b> 159	7002242 330 7002250 330	<b>7074894</b> 312 <b>7074896</b> 319
<b>36280</b> 212	<b>45265</b> 213	<b>53126</b> 23	<b>60430</b> 67	<b>61640</b> 15	<b>68030</b> 159	7002250 330 7002251 330	<b>7074996</b> 319 <b>7074915</b> 324
<b>36281</b> 212	<b>45275</b> 212	<b>53127</b> 23	<b>60440</b> 67	<b>61650</b> 15	<b>68032</b> 159	<b>7002252</b> 330	7074916 324
<b>36282</b> 212	<b>45276</b> 212	<b>57320</b> 52	<b>60450</b> 67	<b>61660</b> 15	<b>71190</b> 113	<b>7002260</b> 330	<b>7074917</b> 324
<b>36478</b> 214	<b>45277</b> 212	<b>57324</b> 52	<b>60470</b> 66	<b>61670</b> 15	<b>71194</b> 225	<b>7002270</b> 330	<b>7074918</b> 324
<b>36479</b> 214	<b>45280</b> 212	<b>57328</b> 52	<b>60490</b> 66	<b>62070</b> 284	<b>71195</b> 225	<b>7002280</b> 330	<b>7074919</b> 324
<b>36510</b> 214	<b>45282</b> 212	<b>57329</b> 52	<b>60500</b> 66	<b>62100</b> 285	<b>71205</b> 113	<b>7002290</b> 330	<b>7074920</b> 324
<b>36530</b> 215	<b>45478</b> 214	<b>57425</b> 52	<b>60511</b> 70	<b>62150</b> 294	71904 14	7002401 330	7074921 324
<b>36532</b> 215	<b>45479</b> 214	<b>57475</b> 52	<b>60521</b> 70	<b>62160</b> 280	71905 14	7002502 331	7074922 324
<b>36533</b> 215 <b>36540</b> 215	<b>45530</b> 215 <b>45532</b> 215	<b>57510</b> 53 <b>57520</b> 53	<b>60550</b> 67 60 <b>570</b> 67	<b>62200</b> 276 <b>62210</b> 300	71910 14 71911 14	<b>7002503</b> 331 <b>7002504</b> 331	7074923 324
<b>36540</b> 215 <b>36560</b> 215	<b>45532</b> 215 <b>45533</b> 215	<b>57520</b> 53 57 <b>530</b> 53	<b>60570</b> 67 66 66	<b>62210</b> 300 <b>62212</b> 300	71911 14 71917 14	<b>7002504</b> 331 <b>7002840</b> 331	<b>7074924</b> 324 <b>7074925</b> 324
<b>36563</b> 216	<b>45535</b> 215	<b>57550</b> 53	<b>60620</b> 67	<b>62218</b> 300	71917 14 71922 274	7002841 331	7074925 324 7074926 324
<b>36571</b> 216	<b>45560</b> 215	57560 53	60700 64	<b>62220</b> 298	75116 230	7002850 331	7074927 325
<b>36580</b> 216	<b>45563</b> 216	<b>57570</b> 53	<b>60701</b> 65	<b>62230</b> 301	<b>75118</b> 230	<b>7002851</b> 331	<b>7074928</b> 325
<b>36590</b> 217	<b>45580</b> 216	<b>57700</b> 53	<b>60703</b> 64	<b>62231</b> 301	<b>75120</b> 230	<b>7002860</b> 331	<b>7074929</b> 325
<b>36614</b> 218	<b>45590</b> 217	<b>57710</b> 53	<b>60704</b> 65	<b>62240</b> 301	<b>76715</b> 113	<b>7002861</b> 331	<b>7074930</b> 325
<b>36629</b> 218	<b>45629</b> 218	<b>57720</b> 53	<b>60706</b> 64	<b>62369</b> 292	<b>80100</b> 298	<b>7002862</b> 331	<b>7074931</b> 325
<b>36630</b> 218	<b>45630</b> 218	<b>57730</b> 53	<b>60707</b> 65	<b>62400</b> 291	<b>80101</b> 301	<b>7002863</b> 331	<b>7074932</b> 325
<b>36634</b> 218	<b>45711</b> 219	<b>57740</b> 53	<b>60709</b> 64	<b>62420</b> 290	<b>80120</b> 300	<b>7003103</b> 331	<b>7074934</b> 325
<b>36711</b> 219	<b>45715</b> 219	<b>57750</b> 53	<b>60710</b> 65	<b>62425</b> 289	<b>80121</b> 301	<b>7003104</b> 331	<b>7074935</b> 325
<b>36712</b> 219	<b>45721</b> 219	<b>58026</b> 39	<b>60712</b> 65	<b>62440</b> 288	<b>80131</b> 301	<b>7003111</b> 331	<b>7074936</b> 325
<b>36713</b> 219	<b>45730</b> 220	<b>58027</b> 39	60714 65 60718 65	<b>62475</b> 286	<b>80140</b> 300	7003112 331	7074937 325
<b>36717</b> 219	<b>45731</b> 220 <b>45745</b> 220	<b>58030</b> 45	<b>60718</b> 65	<b>62520</b> 294	80150 300 80310 202	7003113 331	<b>7074938</b> 325 <b>7074939</b> 325
<b>36721</b> 219 <b>36722</b> 219	<b>45745</b> 220 <b>45750</b> 220	<b>58031</b> 45 <b>58032</b> 39	<b>60720</b> 65 <b>60722</b> 64	<b>62550</b> 294 <b>62580</b> 294	<b>80310</b> 302 <b>80320</b> 302	<b>7003114</b> 331 <b>7003115</b> 331	<b>7074939</b> 325 <b>7074941</b> 325
<b>36723</b> 219	<b>45761</b> 220	<b>58032</b> 39	60724 64	<b>62600</b> 294	<b>80330</b> 302	7003113 331 7003131 331	7074941 325 7074943 324
<b>36730</b> 220	<b>45767</b> 220 <b>45809</b> 222	<b>58040</b> 50	<b>60726</b> 65	<b>62660</b> 294	<b>80340</b> 302	701060031 317	7074943 324 7074953 324
<b>36731</b> 220	<b>45819</b> 124	58051 44	<b>60740</b> 69	<b>62810</b> 29	<b>80350</b> 302	701060031 317	7074962 325
<b>36745</b> 220	<b>45841</b> 223	58052 44	<b>60745</b> 69	<b>63003</b> 164	81580 282	701060033 317	<b>7074963</b> 325
<b>36750</b> 220	<b>45871</b> 223	<b>58054</b> 44	<b>60800</b> 85	<b>63010</b> 165	<b>81600</b> 280	701060034 317	<b>7074964</b> 325
<b>36761</b> 220	<b>45874</b> 224	<b>58055</b> 44	<b>60801</b> 84	<b>63380</b> 181	<b>81610</b> 278	<b>701060041</b> 317	<b>7074965</b> 325
<b>36809</b> 222	<b>45898</b> 225	<b>58056</b> 45	<b>60802</b> 84	<b>63407</b> 170	<b>81660</b> 277	<b>701060430</b> 316	<b>7074968</b> 324
<b>36815</b> 222	<b>45904</b> 225	<b>58057</b> 45	<b>60803</b> 85	<b>63616</b> 190	<b>81710</b> 281	70106079 317	<b>7074969</b> 325
<b>36819</b> 124	<b>45905</b> 225	<b>58058</b> 45	<b>60805</b> 13	<b>63703</b> 172	81950 284	70106081 317	<b>7074970</b> 325
<b>36828</b> 124	<b>45965</b> 226	<b>58059</b> 45	<b>60820</b> 68	<b>63707</b> 173	<b>81970</b> 285	<b>70106082</b> 316	<b>7074971</b> 325

7074972	324	<b>7078200</b> 320	<b>7297029</b> 340	<b>7297614</b> 342
7074973	324	<b>7078201</b> 320	<b>7297030</b> 340	<b>7297615</b> 342
7074974	325	<b>7078202</b> 320	<b>7297031</b> 340	<b>7297616</b> 342
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Andorra	Basar Valira	Phone:	00376 821 682 or 800 675
rinaorra	Carrer del Picó. 1-3	Fax:	00376 821 549
	AD700 Escaldes-Engordany		info@basarvalira.com
	3		www.basarvalira.com
China	Lee Kwon Hobbies Company	Phone:	00852 2397 5719
	Shop A, G/F.	Fax:	00852 2397 0455
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	Oulun Askartelu ja Kehys oy	E-Mail:	
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Great Britain	Gaugemaster Controls Ltd	Phone:	0044 (0)1 903 884321
	Gaugemaster House	Fax:	0044 (0)1 903 884377
	Ford Road	E-Mail:	sales@gaugemaster.co.uk
	GB - Arundel, West Sussex		www.gaugemaster.com
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	Via Zuretti, 5 I – 20125 Milano	Fax: E-Mail:	0039 02 6698 6679 info@corel-srl.it
	1 - 20125 WIIAIIO	E-IVIAII.	www.corel-srl.it
Japan	Sekisui Kinzoku Co., Ltd.	Phone:	0081 (0)3-3954-2534
	1-30-15, Nishi-Ochiai	Fax:	0081 (0) 3 3952 2363
KATO	Shinjuku-Ku		www.katomodels.com
	JP-161-0031 Tokyo		
Lithuania	Mini Pasaulis UAB	Phone:	0037 0 68721188
	Saltoniskiu str. 9 LT-08105 Vilnius	E-Mail:	info@minipasaulis.lt www.minipasaulis.lt
Ntherlands	<b>+</b>		· · · · · · · · · · · · · · · · · · ·
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	N - 0565 Oslo	E-Mail:	
			www.amundsenhobby.no
South Korea	HONG'S INTERNATIONAL	Phone:	0082 70 7867 1557
	46, # 501 Geumdang-ro Gunpo-si, Gyeonggi-do	Mobil: E-mail:	0082 10 5231 1557 hongsinternational1@gmail.com
	South Korea	L-man.	www.hongsintl.co.kr
Switzerland	MARCEL WEBER AG	Phone:	0041 (0) 61 821 8164
	Generalvertretungen	Fax:	0041 (0) 61 821 8166
	Rütiweg 9	E-Mail:	info@marcelweberag.ch
	CH - 4133 Pratteln		www.marcelweberag.ch

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you can find H0 Accessory Sets from page 254, the TT and N Sets from page 257.

\*Note: Narrow-Gauge Accessories for H0e and H0m are not included in this list. You will find these products on pages 28, 36 to 39 and 50.

## Reading aid:

Product fits for	
• all gauges	16
<ul> <li>specific gauges</li> </ul>	
(e.g. H0 and N)	12 12

# International Model Railroading Day

For generations, young and old have been thrilled by it, their eyes glittering and their hearts pounding: the model railway can look back at a long history. The world of model railways links the generations together.

The International Model Railroading Day on 2nd December (campaign 26th November – 2nd December 2018) will bring the small railways back into focus for people. On the first Sunday of Advent and the week before, miniature railways will be shown and exhibitions will be organised worldwide.

More info and all activities on offer can be found at www.tag-der-modelleisenbahn.de (in German).



#### What do we offer on International Model Railroading Day?

- Do you have questions or special requests for us? On Friday 30th November 2018, our management team will be answering all railway modeller friends' questions online.
- On Saturday, 1st December 2018, there'll be some special promotions and offers at NOCH headquarters in Wangen.

More specific information about the promotions available from November 2018 can be found at www.noch.com.

# Get to Know Us in Person at one of the Many Shows!



#### Info Tip: Shows

- modell-hobby-spiel, Leipzig 05.10.2018 – 07.10.2018
- Modellbau Messe, Vienna 25.10.2018 – 28.10.2018
- Hobby Poznan, Posen 27.10.2018 – 28.10.2018
- Faszination Modellbau, Friedrichshafen 01.11.2018 – 04.11.2018
- 35. Internationale Modellbahnausstellung, Cologne 15.11.2018 – 18.11.2018
- Modell und Technik, Stuttgart 22.11.2018 – 25.11.2018
- Intermodellbau, Dortmund 04.04.2019 – 07.04.2019
- Internationale Modellbahnausstellung und Märklintage, Göppingen
   13.09.2019 – 15.09.2019
- modell-hobby-spiel, Leipzig 03.10.2019 – 06.10.2019
- Modellbau Messe, Vienna October 2019
- Modell und Technik, Stuttgart November 2019
- Intermodellbau, Dortmund April 2020

Find more information about show participations at www.noch.com



Your NOCH dealer:





NOCH GmbH & Co. KG Lindauer Straße 49 D-88239 Wangen im Allgäu Tel.: +49 75 22 97 800

Fax: +49 75 22 97 80 80 E-mail: info@noch.de

www.noch.de and www.noch.com
f facebook.com/NOCH.Modell