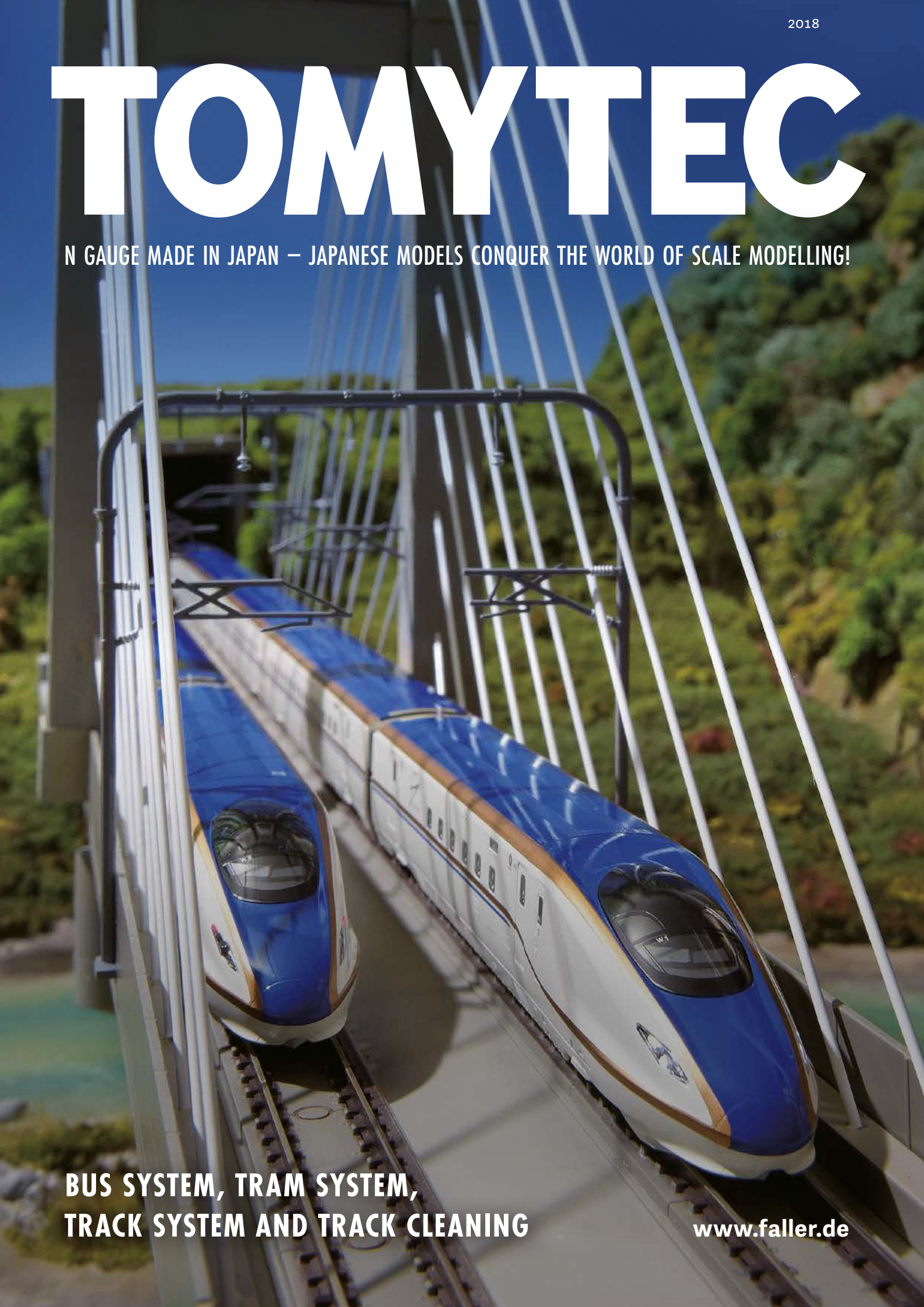
2018

TOMYTEC

N GAUGE MADE IN JAPAN – JAPANESE MODELS CONQUER THE WORLD OF SCALE MODELLING!



TOMYTEC

Scale modelling inspired by Japanese and European originals

TOMYTEC is well known far beyond the frontiers of Japan as a manufacturer of high-quality model railway products and a comprehensive range of accessories focusing on the N track gauge.

That wide range offers tracks in various designs, points, crossings, and of course matching accessories such as transformers and speed controllers, connecting cables and signals, cleaning rails or turntables.

The bus system also brings a lot of movement in the streets. Bus models, which can be made mobile with motorizable chassis, offer a particular eye-catching feature on a model railway installation. There is also a tram system to match which is accurately adapted to the radii of curves of the bus system. Thus both systems make it possible to reproduce city scenes with tram and road traffic very realistically.

Another highlight in that range of products are track cleaning carriages. Although of simple technical design, they thoroughly serve their purpose: cleaning tracks by the wet or dry process, vacuuming and grinding them, if required.

The wide range of Japanese high-speed trains, building models that are easy to assemble as well as accessories and decoration parts complement the production programme.

On the following pages you will find all the interesting facts about our track cleaning carriages.

CONTENTS

TRACK CLEANING CARRIAGE

The right way to maintain your tracks!

TOMYTEC's track cleaning carriage offers various ways of maintaining tracks, whether they are hardly accessible, dirty or corroded.

It sucks up dust and lightweight dirt through an extractor and collect them in a bin. Quickly replace the suction attachment with the grinding or polishing wheel using the special tool supplied, and track maintenance just goes on. For wet cleaning a cleansing agent may be used that is poured into a small tank located within the vehicle.

Extractor and polishing/grinding wheel are operated by their own motor – while the vehicle itself requires a railway engine to drag the cleaning trailer.

The track cleaning carriage is supplied complete with suction attachment, three polishing and three grinding wheels, mounting tool, sponge and brush as well as detailed instructions in several languages.

Operating the track cleaning vehicle is recommended only on analogue circuits! Accessories to buy separately include the polishing and grinding wheels as well as springs for the rotating ring.

Track cleaning carriage, blue
Art. 976425

With suction attachment, three polishing and three grinding wheels, mounting tool, sponge and brush. Perfect to clean, grind and polish all commercially available N tracks. A railway engine is required to trail it.

Track cleaning carriage, transparent
Art. 976426

With suction attachment, three polishing and three grinding wheels, mounting tool, sponge and brush. Perfect to clean, grind and polish all commercially available N tracks. A railway engine is required to trail it.

Spare attachments for track cleaning carriage
Art. 976423

Three polishing and three grinding wheels, one brush and one sponge.

Spare attachments for track cleaning carriage
Art. 976424

20 polishing and 10 grinding wheels.

Spare springs for track cleaning carriage
Art. 971263

Spare springs for current input in the bogies of track cleaning carriage, 4 pieces, 7.5 mm long.

BUS SYSTEM

Fascinatingly simple!

Assemble ready-made road elements as you wish without any difficulty, switch the vehicles on, and the fun begins!

A great number of functions (stop points, bus stops and intersections) are a source of much fun and pleasure. Tomytec's bus system is fascinatingly simple. Roads are ready-made and provided with a wire that guides the vehicles. There are bus stops and branch-off junctions to actuate manually. Road elements are 6 mm high and 37 mm wide. And are available in various lengths, radii and designs. Moreover, roads perfectly match TOMYTEC's tram system – thus allowing to create fantastic city scenes with tram and bus traffic.

Buses – like trams – are available as stationary models. Such models can be made mobile by retrofitting using a chassis powered by two round cells of type LR44 (the new European types also accomodating LIPO rechargeable batteries that can be charged via a USB port). Conversion is easy: without requiring any tool, the base is taken out of the bus and the chassis is pressed in – it's ready!

LIPO batteries are charged via a USB connector. Approximately 20 minutes of charging time are sufficient for about 2 hours of running time.

Bus system, Mercedes Citaro Set
Art. 970356

Bus system, with vehicle (Citaro in silver), USB charging cable, roads, links, spare tyres and bus stop.

Bus system, GMC Set
Art. 975799

Bus system, with vehicle type GMC, USB charging cable, roads, links, spare tyres and bus stop.

Bus system, Citaro DB
Art. 974545

Bus system, Citaro bus of Deutsche Bahn. Ready-made model, expandable for operation on TOMYTEC's road system by installing a chassis 976297.

Bus system, Citaro HVV
Art. 974552

Bus system, Citaro bus of Hamburg football club HVV. Ready-made model, expandable for operation on TOMYTEC's road system by installing a chassis 976297.

Bus system, Citaro PTT
Art. 974569

Bus system, Citaro bus of Swiss postal service PTT. Ready-made model, expandable for operation on TOMYTEC's road system by installing a chassis 976297.

Bus system, Citaro Silver
Art. 974576

Bus system, Citaro bus, neutral in silver. Ready-made model, expandable for operation on TOMYTEC's road system by installing a chassis 976297.

Bus system, GMC bus Yellow
Art. 976433

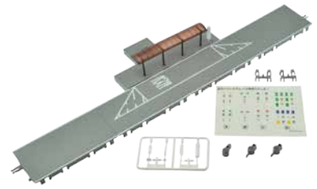
Bus system, GMC bus Yellow. Bus system, American GMC bus in yellow. Ready-made model, expandable for operation on TOMYTEC's road system by installing a chassis 974583.

Bus system, GMC bus Orange
Art. 976434

Bus system, GMC bus Orange. Bus system, American GMC bus in orange. Ready-made model, expandable for operation on TOMYTEC's road system by installing a chassis 974583.

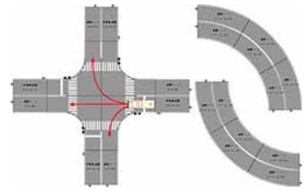
Bus system, GMC bus Green
Art. 976435

Bus system, GMC bus Green. Bus system, American GMC bus in green. Ready-made model, expandable for operation on TOMYTEC's road system by installing a chassis 974583.



Bus system, Bus stop
Art. 973211

Bus stop composed of 4 road elements each 70 mm long, waiting shelter with decoration, stop function and magnets.



Bus system, Intersection Set
Art. 975422

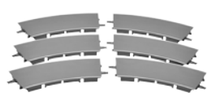
4 x straight with stop function, 4 x straight, 6 x curve C177, 6 x curve 214. Two-lane, change of direction manually switchable.

Bus stop, right-hand side (Europe)
Art. 976479

Bus stop for left-hand drive, bus stop on the right side.

Bus system, 6 straights
Art. 975418

Width 37 mm, length 70 mm. For TOMYTEC's bus system.

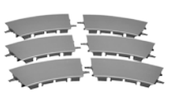


Bus system, 6 curves, Ø 30, r 177 mm
Art. 973190

Width 37 mm. For TOMYTEC's bus system.

Bus system, 6 curves, Ø 30, r 214 mm
Art. 973191

Width 37 mm. For TOMYTEC's bus system.

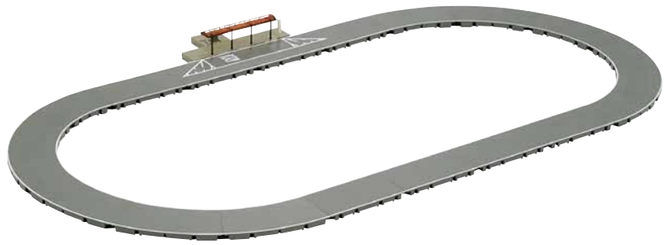


Bus system, 6 curves, Ø 30, r 140 mm
Art. 973188

Width 37 mm. For TOMYTEC's bus system.

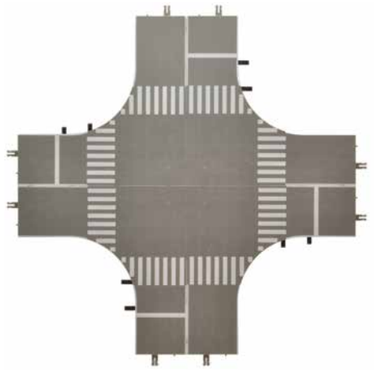
Bus system, 6 curves, Ø 30, r 103 mm
Art. 973187

Width 37 mm. For TOMYTEC's bus system.



Bus system, Track Set A
Art. 975417

For an oval, including stop point, base surface area 563 x 281 mm.

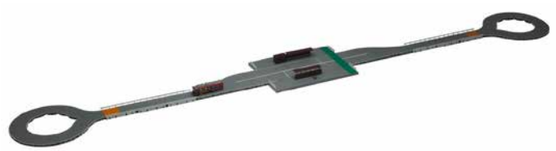


Bus system, Intersection, left-hand traffic
Art. 977115

Intersection composed of four parts, and matching links.

Bus system, Start Set A
Art. 972823

Motorized chassis for buses, bus body like Hino Osaka Bus, bus stop with stop function, road oval composed of 6 curves with 103 and 140 mm radius respectively, 8 straights of 70 mm, bus stop.



Bus system, Set A
Art. 975689

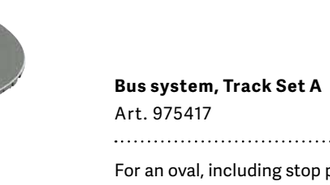
1 x motorized chassis, 2 bus bodies (1 x printed and 1 x unprinted), 2 bus stops with stop function and shelters, various road parts and small parts allowing to build a circuit with 1400 x 170 mm area.

Bus system, 6 curves, Ø 30, r 66 mm
Art. 973186

Width 37 mm. For TOMYTEC's bus system.

Bus system, 4 straights with manual stop function
Art. 975419

Width 37 mm, length 74 mm, with manual stop function for TOMYTEC's bus system.



Bus system, 4 straights
Art. 975829

Width 37 mm, length 70 mm. For TOMYTEC's bus system.

Bus system, Power chassis WMB-L02, Citaro
Art. 976297

Power chassis for Citaro buses, including 2 spare tyres, USB charging cable and assembly instructions.

Bus system, Power chassis WMB-L01, GMC
Art. 974583

Power chassis for GMC buses, including 2 spare tyres, USB charging cable und assembly instructions.

Bus system, Spare tyres 6.5 x 12 mm, 50 pieces
Art. 975078

Spare tyres for buses.

Bus system, Spare tyres 6.2 x 12 mm, 50 pieces
Art. 975085

Spare tyres for buses.

BUS SYSTEM

TRAM SYSTEM

Tramways

Simply versatile – it's TOMYTEC's tram system!

Design your scenes and installations with realistic tram operation! Diverse vehicle and track variants ensure plenty of action and activity. And the radii of rails are exactly those of the bus system – which thus allows to design city scenes with tram and bus traffic. The structure of vehicles is similar to that of the bus system: the base of stationary models can just be removed without using any tool, and the motorized chassis is pressed in – ready! Chassis are provided with flywheel mass, motor and current input on all axles.

Tracks for the trams are easy to assemble and dismantle. There are various lengths, radii of curves and surface finish such as concrete surface, pavement or simply ecological grass covering. Of course tram tracks can be combined with the range of rails so that points and signals can be used, while control procedures are ensured via transformers and speed controllers from TOMYTEC's range of products. Power supply is safe and easy through connectors. Rail height up to top edge is 6 mm. You will find all details on the topic Tracks on pages 17 to 31.

Tram system, Start Set, Munich
Art. 970143

With 3-piece Munich Tram, motorized chassis, selection of tracks for an oval (420 x 280 mm), transformer, connection cable and plug adapter for European users.

Tram system, Munich Tramway, type 2000
Art. 974260

Stationary model of a three-carriage tram of Munich public transport company, with piece of track. Model can be motorized using chassis 978710.

Tram system, Berlin Tramway, type 1000
Art. 974253

Stationary model of a three-carriage tram of Berlin public transport company, with piece of track. Model can be motorized using chassis 978710.

Motorized chassis, TM-LRT04,
for three-carriage trains, trams
Art. 978710

Motorized chassis for tram stationary model with three carriages. Pivot pitch 118.2 mm, axle base 12 mm. Not suitable for Super Mini Tracks.

Tram system, Stationary model, Santram, type T102
Art. 975656

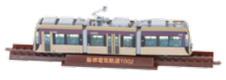
Stationary model, can be converted into a mobile model for tram system with chassis TM-LRT02.

Tram system, Stationary model, Toyohashi Rail Road, type T1001
Art. 975658

Stationary model, can be converted into a mobile model for tram system with chassis TM-LRT02.

Tram system, Stationary model, Hiroshima Electric LRT Piccola
Art. 975538

Stationary model, can be converted into a mobile model for tram system with chassis TM-LRT03.



Tram system, Stationary model, Hankai Tramway, type 1001
Art. 975657

Stationary model, can be converted into a mobile model for tram system with chassis TM-LRT02.

Tram system, Stationary model, Kumamoto City, type 5000
Art. 976445

Stationary model, can be converted into a mobile model for tram system with chassis TM-LRT03.

Tram system, Stationary model, Hankai Tramway MO, type 161 green
Art. 976582

Stationary model, can be converted into a mobile model for tram system with chassis TM-TR04.

Tram system, Stationary model, Hankai Tramway MO, type 161 Nankai
Art. 976597

Stationary model, can be converted into a mobile model for tram system with chassis TM-TR04.

Tram system, Stationary model, IyoRailway, type 2000 MOHA
Art. 976695

Stationary model, can be converted into a mobile model for tram system with chassis TM-TR01.

Tram system, Stationary model, Toyama Tramway LRT, type T100
Art. 977266

Stationary model, can be converted into a mobile model for tram system with chassis TM-LRT02.

Tram system, Stationary model, Hankai Tramway LRT, type 1001
Art. 977267

Stationary model, can be converted into a mobile model for tram system with chassis TM-LRT02.

Motorized chassis, TM-LRT02, for trams
Art. 975468

Motorized chassis for trams, pivot pitch 62.8 mm, axle base 12 mm, length 108 mm, height 18 mm, width 15 mm. With motor, flywheel mass, rotary articulation, drive on four axles.

Motorized chassis, TM-LRT03, for trams
Art. 975469

Motorized chassis for trams, pivot pitch 62.8 mm, axle base 12 mm, length 108 mm, height 18 mm, width 15 mm. With motor, flywheel mass, rotary articulation, drive on four axles.

Motorized chassis, TM-LRT01, for trams
Art. 975977

Motorized chassis for trams, pivot pitch 61 mm, axle base 12 mm, length 120 mm. With motor, flywheel mass, rotary articulation, drive on four axles.

Motorized chassis, TM-LRT03, for Tram Piccola
Art. 975979

Motorized chassis for trams, pivot pitch 76 mm, axle base 12 mm. With motor, flywheel mass, rotary articulation, drive on four axles.

Motorized chassis, TM-TR01, for trams
Art. 975981

Motorized chassis for trams, axle base 9.2 mm. With motor, flywheel mass, rotary articulation, drive on four axles. Pivot pitch can be adjusted between 36/38.6 and 41.2 mm.

Motorized chassis, TM-TR03, for trams
Art. 976448

Motorized chassis for trams, pivot pitch 72 mm, axle base 9.2 mm, length 118 mm. With motor, flywheel mass, rotary articulation, drive on four axles. Front bogie adjustable in various positions.

Motorized chassis, TM-TR04, for trams
Art. 976596

Motorized chassis for tram stationary models. Axle base 46.4 mm.

TRACKS

Tomix tracks offer the greatest diversity!

TOMYTEC has about 150 different tracks in its range of products!

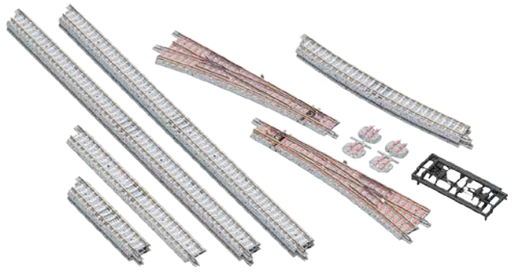
TOMYTEC's track system offers a large, most varied choice and is compatible with nearly all tracks of other manufacturers as well as the current N gauge vehicles. With more than 150 different designs Tomix Tracks offer the greatest diversity in the trade. Tracks are easy to assemble thanks to their plug-in system. Points, buffer stops, curves with superelevation, bridges and many others more complement the product line. Tracks are suitable for both, digital and analogue drive, digital drive requiring the right decoder for the points. The following track types are available:

1. Ballasted, **narrow track bedding, sleepers made of wood,** straight and curved.
2. Ballasted, narrow track bedding, **sleepers made of concrete,** straight and curved.
3. Ballasted, **broad track bedding, sleepers made of concrete,** straight and curved, curved tracks also available with superelevation.
4. Tracks in **viaduct bedding, concrete,** straight and curved, two-track and single-track.
5. Tracks in **viaduct bedding, ballasted,** straight and curved, two-track and single-track.
6. **Tram tracks in concrete bedding,** straight and curved.

The advantages are, among others:
The different radii of the tracks allow an accurate fit on double-track lines. This also makes it possible to represent realistic curves by means of a superelevation. Very small radii are possible with »Super-Curved-Tracks«.

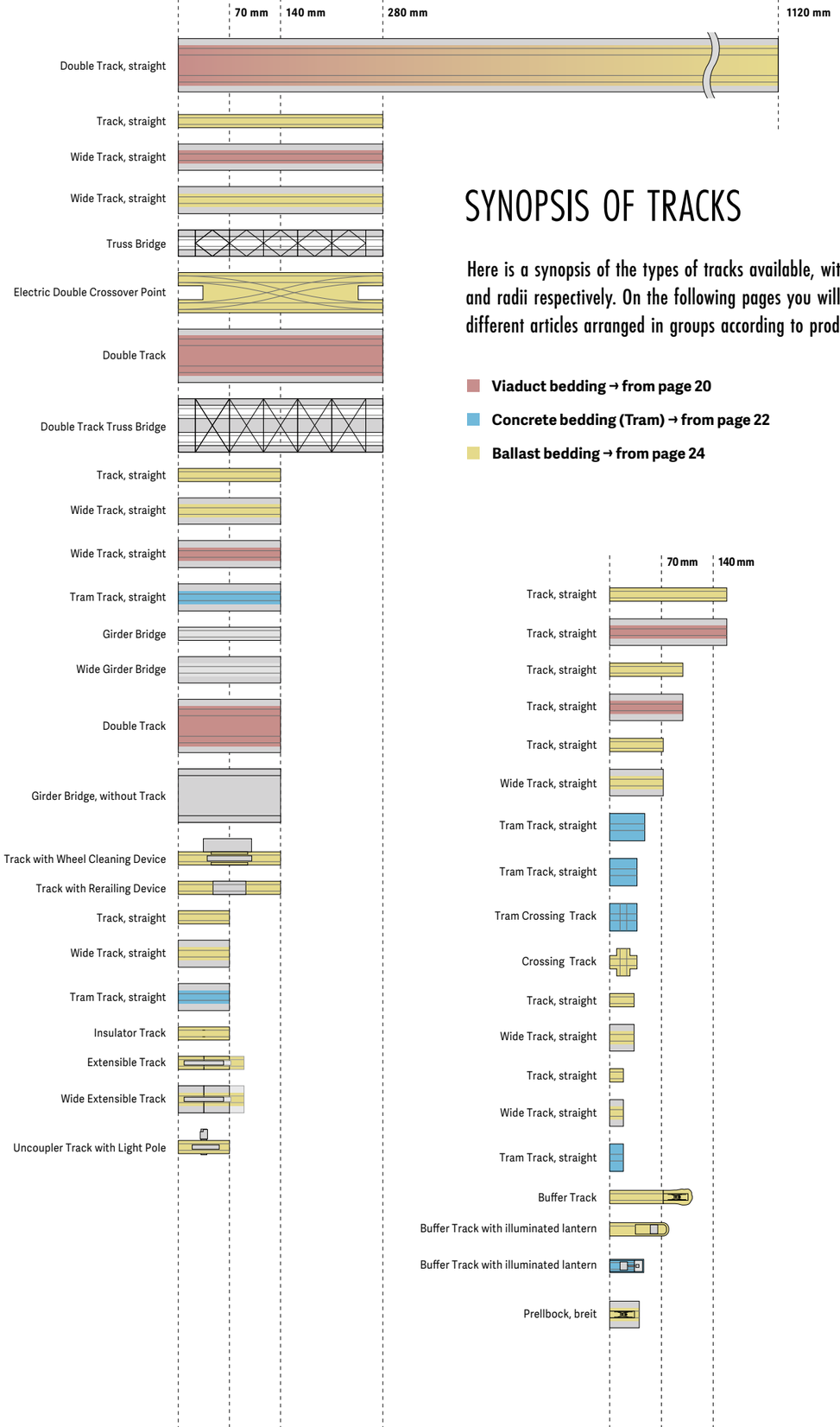
GOOD TO KNOW!

Standard track, straight: 5-1/2" 140 mm
Standard track, curved: 11" 280 mm radius, 45°
Spacing from centre to centre, double tracks: 37 mm
Material: nickel silver
Track code: 80
Bedding height up to top edge rail: 6 mm
Basic grid: 70 mm



Track Set for an oval, concrete sleepers
Art. 970251

Track set for a turnout. With 2 points, 4 straights 280 mm, 1 straight 140 mm, 2 straights 72.5 mm and 2 curves: radius 541 mm/angle 15°.

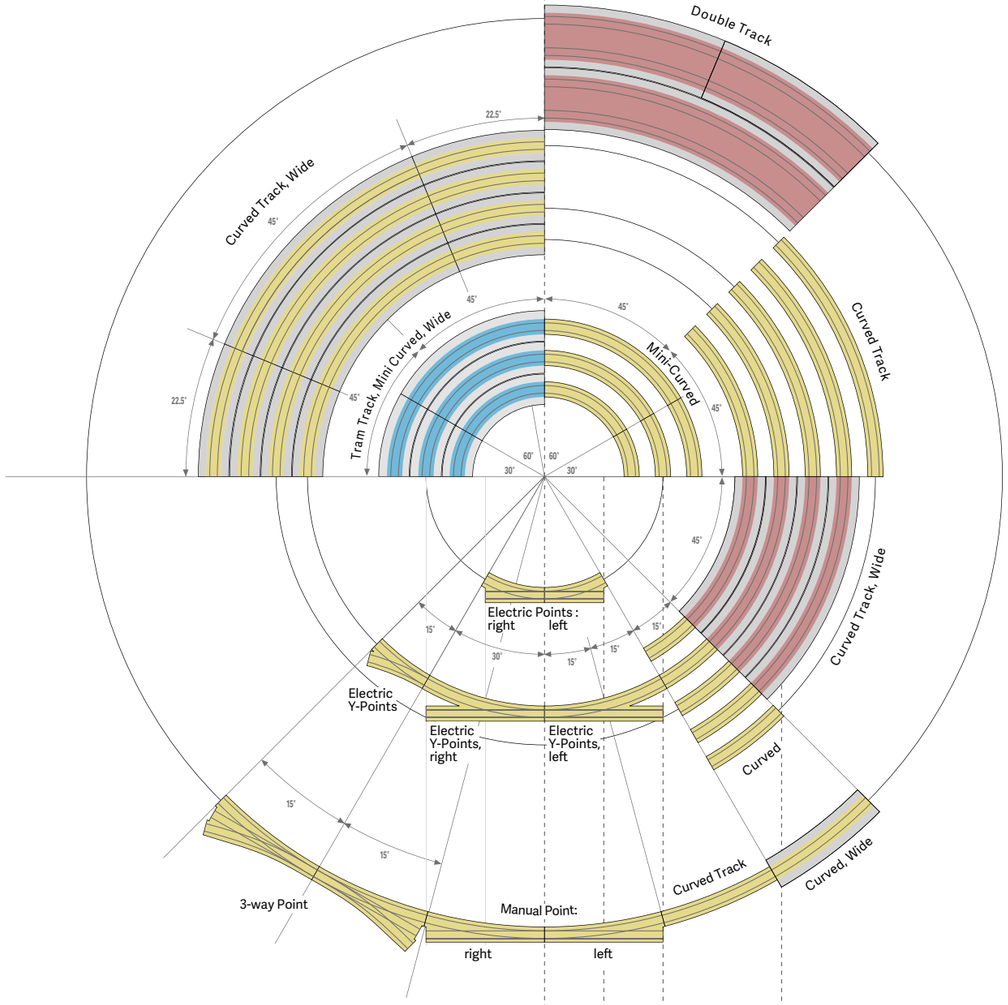


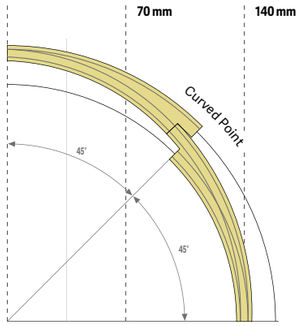
SYNOPSIS OF TRACKS

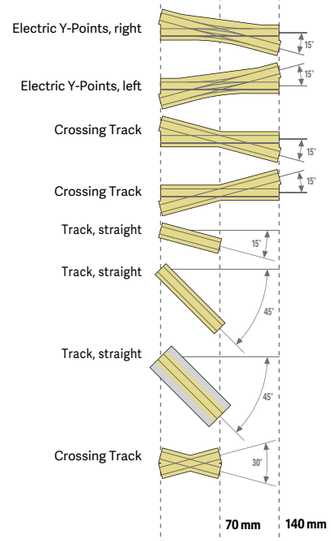
Here is a synopsis of the types of tracks available, with lengths and radii respectively. On the following pages you will find the different articles arranged in groups according to product lines

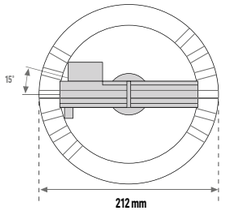
- **Viaduct bedding → from page 20**
- **Concrete bedding (Tram) → from page 22**
- **Ballast bedding → from page 24**

TOMYTEC









Platform with Control Unit

VIADUCT BEDDING:

Tracks in viaduct bedding, ballasted or with concrete slabs.

The version with ballast is mainly used for bridges. The version with concrete slabs, in contrast, rather for high-speed trains. The originals of the socalled slab tracks or ballastless tracks (tracks without any ballast) are nearly maintenance-free, require little mounting depth, ensure high reliability and present better noise and vibration characteristics.

Track spacing 37 mm. Bedding height up to top edge rail 6 mm, basic grid 70 mm.

2 Double tracks, straight, in ballasted viaduct bedding, each 1120 mm
Art. 971069

Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

2 Tracks, straight, in concrete viaduct bedding, each 99 mm
Art. 971075

Track spacing 37 mm. Bedding height up to top edge rail 6 mm, basic grid 70 mm.

2 Double tracks, straight, in concrete viaduct bedding, each 280 mm
Art. 971067

2 Double tracks, straight, in concrete viaduct bedding, each 140 mm
Art. 971066

2 Double tracks, straight, in concrete viaduct bedding
Art. 971070

4 Double tracks, straight, in concrete viaduct bedding, each 140 mm
Art. 971047

With concrete sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

4 Tracks, straight, in concrete viaduct bedding, each 140 mm
Art. 971821

4 Tracks, straight, in concrete viaduct bedding, each 280 mm
Art. 971822

4 Tracks, straight, in concrete viaduct bedding, each 99 mm
Art. 971825

4 Tracks, straight, in concrete viaduct bedding, each 99 mm
Art. 971826

4 Tracks, straight, in concrete viaduct bedding, each 99 mm
Art. 971871

Track spacing 37 mm. Bedding height up to top edge rail 6 mm, basic grid 70 mm.

2 Double tracks, curved, in concrete viaduct bedding, 45°, r 465 mm
Art. 971168

2 Double tracks, curved, in concrete viaduct bedding, 45°, r 465 mm
Art. 971169

With concrete sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

4 Tracks, curved, in concrete viaduct bedding, 45°, r 317 mm
Art. 971872

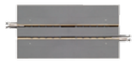
4 Tracks, curved, in concrete viaduct bedding, 45°, r 243mm
Art. 971873

With concrete sleepers. With curve superelevation. You need Art. 1753 as start track.

4 Tracks, curved, in concrete viaduct bedding, 45°, r 345 mm
Art. 971874

CONCRETE BEDDING:

Tracks in concrete beddings are used for trams. Additionally there are also versions with grass covering and others with pavement.

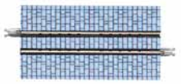


4 Tram tracks, straight, each 70 mm long, in concrete bedding
Art. 971792

4 Tram tracks, straight, each 70 mm long, in concrete bedding.

4 Tram tracks, straight, each 140mm long, in concrete bedding
Art. 971793

Tracks for tram system in concrete design, 4 tracks with link.



4 Tram tracks, straight, 70 mm, pavement
Art. 971794

Tracks for tram system in pavement design, 4 tracks.

4 Tram tracks, curved, Super Curved, with broad concrete bedding
Art. 971795

4 pieces, 2 x 30° angle, 2 x 60° angle. Radius 103 mm.

4 Tram tracks, curved, Mini Curved, with broad concrete bedding
Art. 971796

4 pieces, 2 x 30° angle, 2 x 60° angle. Radius 140 mm.

4 Tram tracks, curved, Mini Curved, with broad concrete bedding
Art. 971797

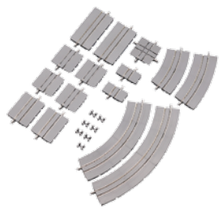
4 pieces, 2 x 30° angle, 2 x 60° angle. Radius 177 mm.

4 Tram tracks, straight, in concrete bedding
Art. 971798

4 pieces, 18.5, 47.5 mm and 2 x 37 mm long.

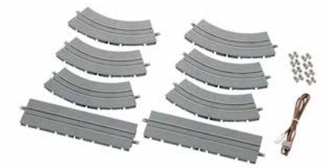
Tram system, 90° intersection
Art. 971799

Tram tracks, intersection. With joining clips and an intersection. 2 straights of each: 18.5 mm and 47.5 mm as well as 4 straights 37 mm.



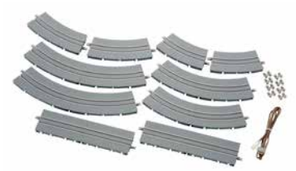
Tram tracks, Basic set
Art. 971088

Tram tracks with joining clips and an intersection. One curve each with radius 140 mm/angle 30°, radius 140 mm/angle 60°, radius 177 mm/angle 60°, radius 177 mm/angle 30°, 2 straights of each: 18.5, 47.5 and 70 mm and 4 straights 37 mm.



Tram Tracks, Basic set
Art. 971085

8 Tram tracks, supply terminal and joining clips for bedding. Version: 2 x 140 mm, 6 curves: radius 103 mm/angle 60°, with street bedding.

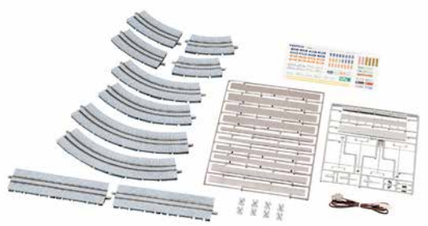


Tram Tracks, Basic set
Art. 971086

10 Tram tracks, supply terminal and joining clips for bedding. Version: 2 x 140 mm, 2 curves with each radius 177 mm/angle 60°, radius 177 mm/angle 30°, radius 140 mm/ angle 40°.

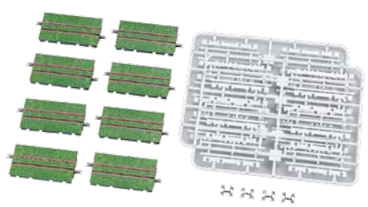
Tram system, Track link
Art. 970113

For TOMYTEC trams, 32 pieces, made of plastic.



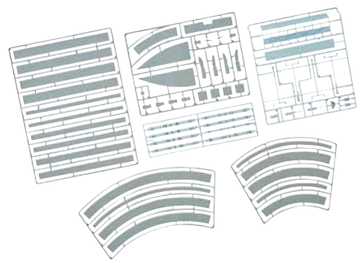
Tram tracks, Basic set pavement
Art. 971084

Tram tracks for an oval 495 x 365 mm, in pavement version. 2 curves with each radius 140 mm/angle 30°, radius 140 mm/angle 60°, radius 177 mm/angle 60°, radius 177 mm/angle 30°, 2 straights 140 mm. Including bus stop, connection cable and holding clips.



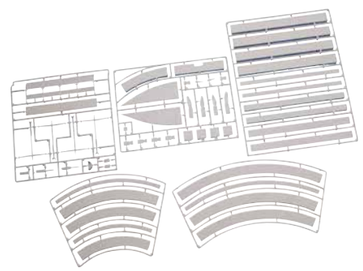
8 Tram tracks, straight, 70 mm, grass
Art. 971789

Tracks for tram system in grass-covered version, 8 tracks with link.



Tram system, Filling pieces
Art. 973076

Filling pieces for respectively a semicircle in radius 103 mm, 144 mm or 177 mm, for four straight tracks 140 mm, as well as points 1231 and points 1232, and parts for a tram stop. In pavement version.



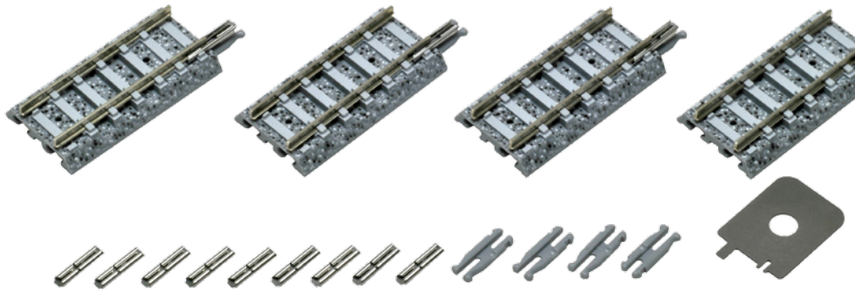
Tram system, Filling pieces
Art. 973079

Filling pieces for respectively a semicircle in radius 103 mm, 144 mm or 177 mm, for four straight tracks 140 mm, as well as points 1231 and points 1232, and parts for a tram stop. In asphalt version.

BALLAST BEDDING:

Tracks in ballast bedding with concrete or wooden sleepers.
The most common type of track.

Curved variants from page 26, matching points from page 28.



Transition track to other manufacturers: Sets with 4 transition pieces, each 35 mm long. Including 9 metal and 4 plastic links as well as a mounting tool. Transition to/from Kato, Roco, Fleischmann and Minitrix.

Transition track from/to Roco, Fleischmann, Kato, Minitrix.... Set with 4 straights of 35 mm. With 9 metal links, 4 plastic links and a mounting tool.

Transition track, 35 mm, 4 pieces

Wooden sleepers
Art. 971529

Concrete sleepers
Art. 971530

With concrete sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

12 Tracks, straight, in ballast bedding, each 280 mm
Art. 971093

4 Tracks, straight, in ballast bedding, each 140 mm
Art. 971011

4 Tracks, straight, in ballast bedding, each 280 mm
Art. 971012

4 straight tracks, 99 mm
Art. 970159

4 straight tracks, 158.5 mm
Art. 970166

Length 2 x 33 and 2 x 18 mm. With wooden sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

4 Tracks, straight, in ballast bedding
Art. 971099

With wooden sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

4 Tracks, straight, in ballast bedding, each 280 mm
Art. 971802

4 Tracks, straight, in ballast bedding, each 72.5 mm
Art. 971803

4 Tracks, straight, in ballast bedding, each 70 mm
Art. 971804

4 Tracks, straight, in ballast bedding, each 99 mm
Art. 971805

4 Tracks, straight, in ballast bedding, each 158.8 mm
Art. 971806

4 Tracks, curved, in ballast bedding, 45°, r 280 mm
Art. 971851

10 Tracks, straight, in ballast bedding, each 280 mm
Art. 971092

With concrete sleepers. Track code 80, Bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

2 Tracks, straight, with broad ballast bedding, each 280 mm
Art. 971732

2 Tracks, straight, with broad ballast bedding, each 140 mm
Art. 971739

4 Tracks, straight, with broad ballast bedding, each 140 mm
Art. 971769

Tracks, straight, with broad ballast bedding, 8 p.
Art. 977387

4 Tracks, straight, with broad ballast bedding, each 70 mm
Art. 977639

4 Tracks, straight, with broad ballast bedding, each 72.5 mm
Art. 977646

Two bends with each 30° and 60°.
With wooden sleepers.

4 Tracks, curved, Mini Curved, in ballast bedding, r 103 mm
Art. 971111

4 Tracks, curved, Mini Curved, in ballast bedding, r 140 mm
Art. 971112

4 Tracks, curved, Mini Curved, in ballast bedding, r 177 mm
Art. 971113

With wooden sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

2 Tracks, curved, in ballast bedding, 15°, r 541 mm
Art. 971123

2 Tracks, curved, in ballast bedding, 15°, r 317 mm
Art. 971127

2 Tracks, curved, in ballast bedding, 15°, r 243 mm
Art. 971143

With wooden sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

4 Tracks, curved, in ballast bedding, 15°, r 280 mm
Art. 971854

4 Tracks, curved, in ballast bedding, 45°, r 243 mm
Art. 971855

4 Tracks, curved, in ballast bedding, 45°, r 354 mm
Art. 971856

4 Tracks, curved, in ballast bedding, 45°, r 391 mm
Art. 971858

With concrete sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

4 Tracks, curved, in ballast bedding, 15°, r 280 mm
Art. 971941

4 Tracks curved, in ballast bedding, 45 Ø, r 317 mm
Art. 971192

4 Tracks, curved, in ballast bedding, 15 Ø, r 317 mm
Art. 971197

With concrete sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacinÅ g from centre to centre 37 mm.

4 Tracks, curved, in ballast bedding, 15°, r 279 mm
Art. 971863

TOMYTEC

With wooden sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

2 Tracks, curved, in ballast bedding, 45°, r 354 mm
Art. 971126

4 Tracks, curved, in ballast bedding, 45°, r 317 mm
Art. 971852

4 Tracks, curved, in ballast bedding, 15°, r 541 mm
Art. 971853

With concrete sleepers. Track code 80, bedding height up to top edge rail 6 mm, basic grid 70 mm, parallel spacing from centre to centre 37 mm.

2 Tracks, straight, with broad ballast bedding, each 140 mm
Art. 971739

2 Tracks, curved, with broad ballast bedding, 15°, r 541 mm
Art. 971740

2 Tracks, curved, with broad ballast bedding, 22.5°, r 354 mm
Art. 971753

4 Tracks, curved, with broad ballast bedding, 45°, r 345 mm
Art. 971773

4 Tracks, curved, with broad ballast bedding, 45°, r 280 mm
Art. 971781

4 Tracks, curved, with broad ballast bedding, 45°, r 354 mm
Art. 971782

4 Tracks, curved, with broad ballast bedding, 22.5°, r 345 mm
Art. 971783

4 Tracks, curved, with broad ballast bedding, 45°, r 280 mm
Art. 977714

4 Tracks, curved, with broad ballast bedding, 45°, r 317 mm
Art. 977721

4 Tracks, curved, with broad ballast bedding, 45°, r 391 mm
Art. 977746

4 Tracks, curved, with broad ballast bedding, 22.5°, r 280 mm
Art. 977813

4 Tracks, curved, with broad ballast bedding, 22.5°, r 317 mm
Art. 977820

4 Tracks, curved, with broad ballast bedding, 22.5°, r 391 mm
Art. 977844

Three-way points, left/right
Art. 971262

Length 140 mm, turnout angle 15°.

Three-way points, right/left
Art. 971261

Length 140 mm, turnout angle 15°, turnout radius 541 mm / 280 mm. With drive, 12 V DC.

Electric points, right
Art. 971231

Super-Mini electric points right, 70 mm long, turnout angle 30°, turnout radius 140 mm, with drive.

140 mm length, turnout angle 15°, turnout radius 541 mm. Manual operation.

Manual points, outgoing track, right
Art. 971215

Manual points, outgoing track, left
Art. 971216

Length 140 mm, turnout angle Ø 15, turnout radius 541 mm.

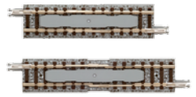
Electric points, right
Art. 971271

Electric points, left
Art. 971272

Outer radius 317 mm, bend 45°, turnout radius 280 mm, with drive.

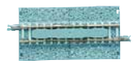
Electric bend points, right
Art. 971278

Electric bend points, left
Art. 971279



Variable track, 70–90 mm
Art. 975253

Telescopic, possible length between 70 and 90 mm.



Variable track, 70–90 mm, in broad ballast bedding, 2 pieces
Art. 975284

Telescopic, possible length between 70 and 90 mm.

Spare attachments for cleaning track
Art. 976413

2 spare attachments for TOMYTEC cleaning tracks.

Wheel cleaning track
Art. 976415

With concrete sleepers. 70 mm long.

Buffer stop, 99 mm
Art. 971421

With wooden sleepers.

Buffer stop with LED lamppost and silencer
Art. 971423

With track.

Buffer stop with broad ballast bedding, 1 piece
Art. 971424

With 40 mm track end piece, with wooden sleepers, 37 mm wide.

Buffer stop with broad ballast bedding, 2 pieces
Art. 971425

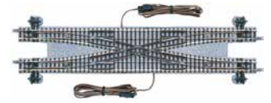
With 40 mm track end piece, with wooden sleepers, 37 mm wide.

Electric points, left
Art. 971232

Super-Mini electric points left, 70 mm long, turnout angle 30°, turnout radius 140 mm, with drive.

Electric Y-junction
Art. 971240

Length 70 mm, turnout angle 15°, turnout radius 280 mm. Including drive.



Double crossover, in ballast bedding
Art. 972474

Double crossover, with wooden sleepers.

With wooden sleepers, Mini-Curved, with a curved piece of track, connection cable and small parts.

Electric points, right, in ballast bedding
Art. 972313

Electric points, left, in ballast bedding
Art. 972320

With wooden sleepers.

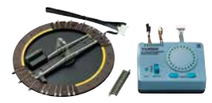
Electric points, right, in ballast bedding
Art. 972450

Electric points, left, in ballast bedding
Art. 972467

Length 140 mm, turnout angle 30°, turnout radius 280 mm.

Electric points, right
Art. 971273

Electric points, left
Art. 971274

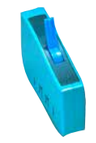


Turntable with control unit
Art. 971633

Ready-made model. Operates on 12 V DC. Overall dimension 212 mm, platform length 166 mm.

Points switch box, single
Art. 975531

For points and semaphores. With one port.



Points switch box, double
Art. 975532

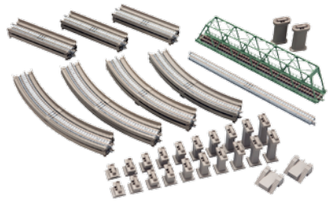
For points and semaphores. With two ports.

Buffer stop
Art. 971427

With piece of track, concrete sleepers, 70 mm long, buffer stop illuminated by LED.

START SETS – THE QUICK WAY!

Start Sets – the quick way! Track layouts are perfect to combine with one another.

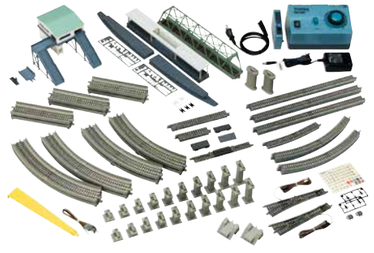


Track start set, oval, with bridge
Art. 970275

Start set tracks for an oval 613 x 1422 mm, with bridge, tracks in viaduct bedding.

Track start set, oval, with rerailing track
Art. 970282

Track set for oval 634 x 1614 mm. With 5 straights 280 mm, 1 straight 140 mm, rerailing track 140 mm, 6 curves: radius 317 mm/angle 45° and 4 curves: radius 541 mm/angle 15° as well as track connection cable.



Tracks start set for an oval
Art. 970946

Start set for an oval 814 x 2158 mm, including speed controller, mains power pack, points, platform, flyover, up and down ramps and bridge.

Tracks start set for an oval
Art. 970947

Track set for an oval, 560 x 1120 mm. With 3 straights 280 mm, 1 straight 140 mm, 1 rerailing track 140 mm, 8 curves: radius 280 mm/angle 45°, as well as speed controller, mains power pack and connection cable.

Start set Tracks D
Art. 970640

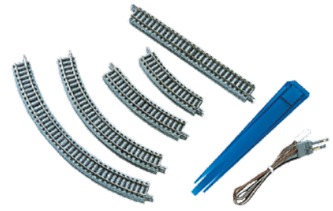
Track set for an oval, 634 x 1614 mm. With 2 straights 140 mm, 3 straights 280 mm, 8 curves: radius 317 mm/angle 45°, 4 curves: radius 541 mm/angle 15°, 1 double crossover, points box, connection cable.

Start set Tracks Y
Art. 970695

Track set for an oval, 55.5 x 1120 mm. With 4 straights 99 mm, 6 straights 72.5 mm, 2 straights 280 mm, 4 curves: radius 541 mm/angle 15°, 2 points, points box and connection cable.

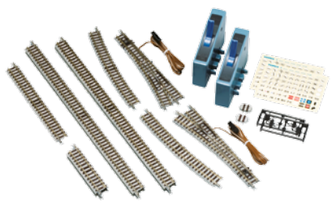
Track set, oval
Art. 971080

Track set for an oval, 206 x 346 mm. With 2 straights 140 mm and 6 curves: radius 103 mm/angle 60° as well as connection cable.



Track set, oval
Art. 971081

Track set for an oval, 317 x 457 mm. With 2 straights 140 mm, 4 curves: radius 140 mm/angle 60° and 4 curves: radius 177 mm/angle 30° as well as connection cable.

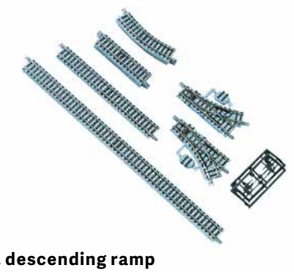


Start set Tracks B
Art. 970923

Contains 1 straight 140 mm, 4 straights 280 mm, 2 straights 72.5 mm, 2 curves, 2 points, 2 control boxes for the points. Floor space required 55.5 x 1120 mm.

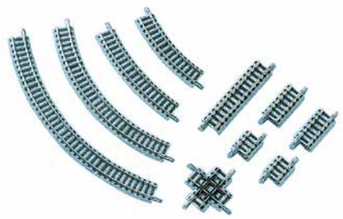
Tracks start set for an oval
Art. 970945

Start set for an oval 560 x 1120 mm, including speed controller, mains power pack, points and link.



Track set, descending ramp
Art. 971082

Track set for a turnout, 37 x 490 mm. With one straight 140 mm and one straight 280 mm, 2 straights 70 mm, 2 curves: radius 140 mm/angle 30° and 2 points.



Track set, oval
Art. 971083

Track set for an intersection, 273 x 440 mm. With one curve each with radius 140 mm/angle 30°, radius 140 mm/angle 60°, radius 177 mm/angle 60°, radius 177 mm/angle 30°, 2 straights 70 mm, 3 straights 33 mm, 4 straights 18.5 mm and an intersection.

SPEED CONTROLLERS

How to compute current consumption properly.

TOMYTEC's speed controllers are a must for realistic playing.
They are available in various versions. Power can be supplied through the European electric network without any difficulty, however a plug adapter is required.

EXAMPLES OF COMPUTATION

Art. no.	Art. name	Power
For Sets	Mains power pack N-400*	0.4 A (400 mA)
975507	TCS Mains power pack N-600	1.2 A (1000 mA)
975068	TCS Mains power pack N-1001-CL#	1.2 A (1200 mA)

***These mains power packs are fitted with a 2-position control system suitable for electric points.**

#What means CL?
CL means Constant Lightning system. Transformers with the abbreviation CL ensure permanently constant light within trains, irrespective of their speed, they may even be at rest.

EXAMPLES OF CONSUMPTION

Art.	regular consumption	when using
Railcar	max. 300 mA	per vehicle
Headlights	60 mA	per set
Rear lights	60 mA	per set
Inside lighting	max. 60 mA	per set
Inside lighting – LED	25 mA	per set
Buffer stop, LED	20 mA	per buffer stop
Electric points/Traffic lights	150 mA	independent of number
Electric signal light	max. 2 mA	per signal
TCS Signal*	10 mA	per signal
TCS Control unit*	45 mA – 85 mA	per unit
TCS Turntable*	140 mA	per piece
Track cleaning vehicle	max. 300 mA	per vehicle
Red cleaning track	max. 300 mA	per track

These are theoretical values: they may differ depending on the indicating devices used!

***What means TCS?**
The junction connector is used to wire and connect several products one after the other, such as signals, for instance. Such system is called Terminal Connection System TCS.

THEORETICAL COMPUTATION OF CURRENT CONSUMPTION

Using the chart on the preceding page you are in a position to calculate the current consumption induced by Tomix products. However, please note that these are only theoretical values! The actual values may differ due to soiling, wear and tear, and the different basic functions performed by the trains!

In the first example given you can use all speed controllers listed on page 32, in examples 2 and 3 you cannot use mains power pack N400 and N600 because they deliver too little power. The number of carriages in a train that can be operated together within the nominal power rating of speed controllers N-1001-CL is up to 8 waggons.

We recommend to use another power supply for products that only require current when trains are operating. In such a case connect the speed controller to the racks, and the other consuming devices such as illumination of the installation or any points to a separate power supply.

Please note that several mains power packs may not be connected to the same track circuit!

Example of calculation of current consumption when operating <u>one railcar with three carriages:</u>

Headlights	60 mA
Rear lights	60 mA
Railcar	300 mA
Inside lighting set for 3 carriages	180 mA
Total	**600 mA**

Example of calculation of current consumption when operating <u>one railcar with 13 carriages:</u>

Headlights	60 mA
Rear lights	60 mA
Railcar	300 mA
Inside lighting set for 13 carriages	780 mA
Total	**1200 mA**

Example of calculation of current consumption when operating <u>two railcars with six carriages:</u>

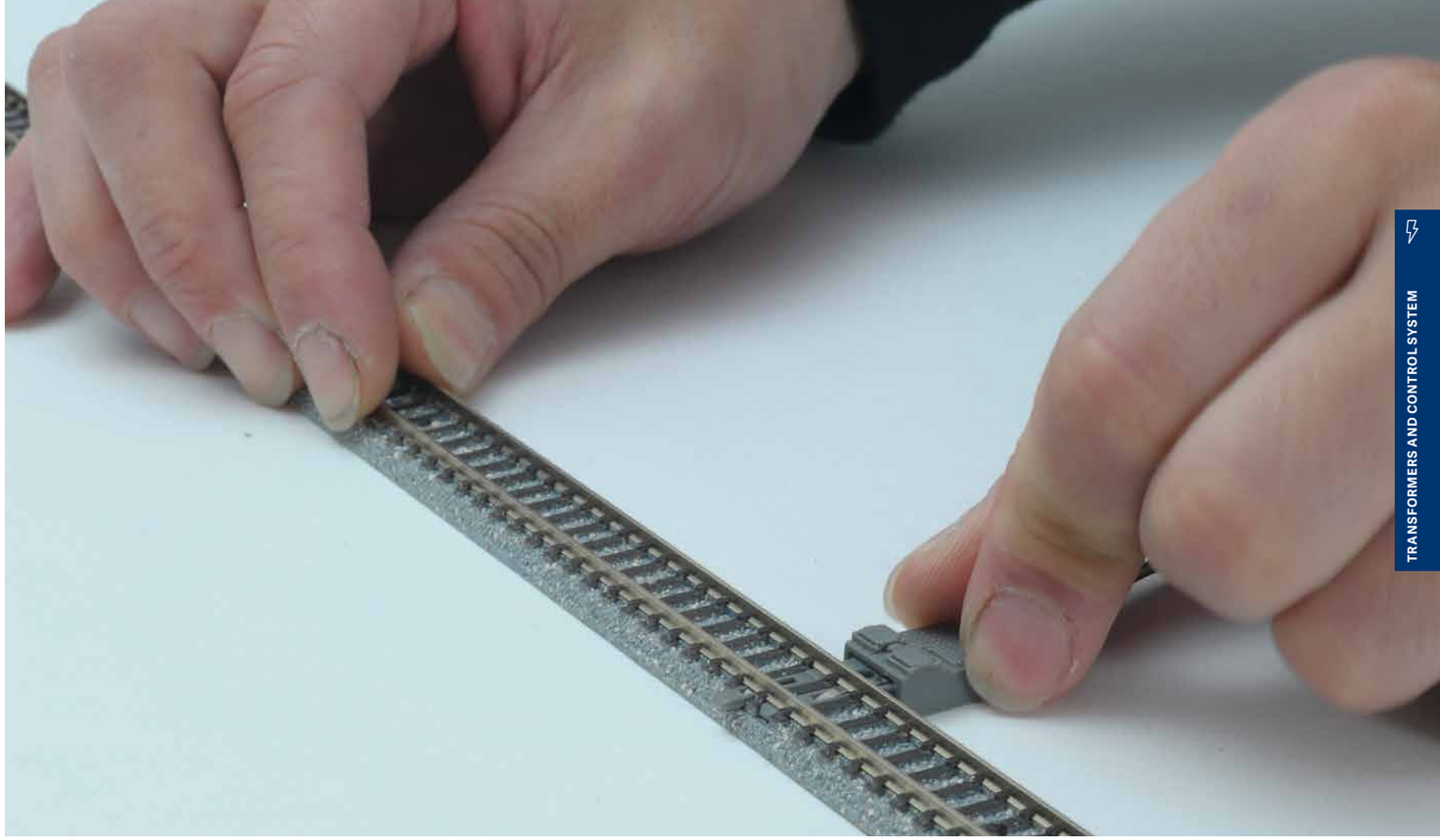
Headlights	60 mA
Rear lights	60 mA
2 Railcars	600 mA
Inside lighting set for 6 carriages	360 mA
Total	**1080 mA**

TRANSFORMERS AND CONTROL SYSTEM

Simple and, most important, safe!

Connection of tracks:
Connection of tracks to the speed controller and thus to the power supply is most simple. Nearly every track features a point of contact.
The connection cable is plugged here, the other end is connected to the speed controller, and there it goes!

Points control box:
It's just as easy to connect points to control boxes. Points, too, feature points of contact where one end of the connection cable is plugged; the other end is connected to the control box. Control boxes in their turn can be connected on one side of speed controllers. The switch box then allows to change the position of the points connected to it, by means of switches.



Speed controller, N600
Art. 975507

Speed controller for railway and tram. 153 x 89 x 71 mm, 12 V DC/1.0 A. Controls speed and direction. Connection possible on one side for the points box.

Speed controller, N-1001 CL*
Art. 975068

Speed controller for railway and tram. 153 x 89 x 71 mm, 12 V DC/1.0 A. Controls speed and direction. With CL function ensuring constant intensity of light. Connection possible on one side for the points box.

Reversed polarity cable for Tomix points
Art. 975817

150 cm long.

Control unit for automatic operation
Art. 975563

Control unit allowing automatic operation. With various programs ensuring the control of trains, points and so on. Also allows to alternate with manual operation. DC for 0.5 A, 0 to 12 V.

***What means CL?**
CL means Constant Lightning system. Transformers with the abbreviation CL ensure permanently constant light within trains, irrespective of their speed, they may even be at rest.

VEHICLES

Vehicles for model railway installation.

8 Bicycles
Art. 973581

Ready-made models.

8 Bicycles
Art. 973582

Ready-made models.

Fire engine Set B
Art. 974284

Fire engine set B, 1 x Hino Rising pump vehicle, 1 x Hino Ranger pump vehicle.

Fishing boat II
Art. 971487

Ready-made model, painted. Can be used as full hull or on a waterline.

Vehicles, Tank lorries, Shell
Art. 975848

Ready-made model.

Dumper & concrete mixer, red/yellow
Art. 972938

Ready-made model of two lorries, including road parts made of cardboard.

Dumper & concrete mixer, black/white
Art. 972945

Ready-made model of two lorries, including road parts made of cardboard.

Truck set, 2 gas tank trucks
Art. 972956

Ready-made models.

Modern forklifts, 2 pieces, yellow-orange
Art. 973508

Ready-made models.

Forklift, 2 pieces, yellow
Art. 973517

Ready-made models.

Forklift, 2 pieces, orange
Art. 973518

Ready-made models.

Vehicles, Tank lorries
Art. 974376

Ready-made models.

Truck set, 2 trucks
Art. 974437

2 Japanese lorries as milk tank trucks. Ready-made model.

Lorry set A
Art. 974864

Lorry set, ready-made models. 1 x HINO HE with enclosed trailer in yellow, 1 x HINO HH with open trailer in blue.

Lorry set B
Art. 974871

Lorry set, ready-made models.
1 x Mitsubishi FUSO with enclosed trailer in yellow, 1 x Mitsubishi FUSO with open trailer in blue.

Lorry set C
Art. 974888

Lorry set, ready-made models, 1 x Hino Ranger tip lorry in yellow, 1 x Hiro Ranger with crane in blue.

Lorry set D
Art. 974895

Lorry set, ready-made models, 1 x Hino Ranger tip lorry in turquoise, 1 x Hiro Ranger with crane in light blue.

Vehicles, 4 Toyotas as taxis
Art. 975551

Vehicles, 4 Toyotas as taxis.

Vehicles, Set with 4 vehicles
Art. 975659

Vehicles, set with 4 vehicles of make Subaru, Daihatsu and Toyota of the 1950s.

Fire engine set A
Art. 978427

Fire engine set A, 1 x Isuzu TX pump vehicle, 1 x Hino TC turntable ladder.

Truck set, 4 different vans
Art. 975803

Ready-made models.

Truck set, 4 different light lorries
Art. 972935

4 different light lorries of make Nissan, Mazda, Honda and Subaru.

Vehicles, 2 lorries
Art. 975694

Ready-made models of Japanese lorries.

Vehicles, 2 lorries
Art. 975695

Ready-made models of Japanese lorries.

Bicycles and mopeds
Art. 975952

6 different vehicles with riders.

KITS

Most varied building models in various designs!

TOMYTEC's building models are supplied painted and easy to assemble. Commercial houses and railway buildings, bridges and accessories – they were designed for the most part after Japanese originals, but can readily be used on European installations, too.

Modern chimney
Art. 975748

Triple, plug-in kit, 6 x 6 x 30 cm.

Cellular radio mast
Art. 976713

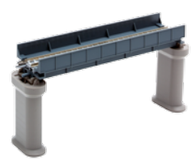
Plastic model kit, easy to build, painted.

Modern signal tower
Art. 974024

Ready-made model.

2 Underground entrances
Art. 974317

Underground entrances, 1 x narrow, 1 x broad.



Steel bridge, 140 mm, blue
Art. 973029

With built-in track, clearance height maximum 55 mm.

Pedestrian bridge
Art. 976065

Ready-made model of a pedestrian bridge.

Sand house
Art. 975338

Small sand house with two huts.

Water tower and coaling station
Art. 973044

Including ground plate and decoration parts.

Bicycle stand
Art. 973292

Including three figures and bicycles.

Bank building
Art. 975746

Plug-in kit, 8 x 7 x 6 cm.

Cable railway
Art. 975325

With motor, battery-operated.

Building set, Office building and bar
Art. 975809

Plug-in kits.

Lattice bridge, two-lane
Art. 973053

Ready-made model. 280 mm length, clearance height maximum 55 mm.

Gas tank
Art. 975750

2 pieces, plug-in kit.

Storage tanks
Art. 975751

Set with three pieces, plug-in kit.

Shipyard building
Art. 972941

With ramp and small parts, plug-in kit, 18 x 13 x 8 cm.

Freight hall
Art. 974452

2 pieces, with small parts, 6 x 10 x 5 cm.

Overhead line masts
Art. 973078

24 pieces, for two-track sections.

Pedestrian bridge
Art. 972387

Pedestrian bridge, 2 pieces.

St. James church
Art. 975798

Plug-in kit, 6 x 10.5 x 8.5 cm.

Relay station
Art. 974023

14 x 7 x 4.20 cm.

United Oil, Gasholder
Art. 974485

Plug-in kit, diameter 10 cm, height 12 cm.

Diesel tug
Art. 976087

Ready-made model of a tug, matching fishing boat is Art. 976063.

ROLLING STOCK

Shinkansen and bogies

Japan is the country of high-speed trains – the Shinkansen that dash on the Japanese well-developped rail-line network with up to 320 kilometres per hour. Despite such high speeds the Shinkansen are considered to be the safest trains worldwide! In scale modelling, too, the Shinkansen make their appearance and are easily identifiable thanks to their highly individual shape. Besides basic sets there are extension sets and special editions, too.

Shinkansen, type N700-880
Sanyo/Kyushu
Art. 972411

Basic set with 3 carriages. Including drive.

Shinkansen, type 100
Art. 972286

Shinkansen, type 100, basic set.
Including drive.

Shikansen 500 type EVA, Special edition
Art. 978959

Japanese high-speed train. Special edition with prints of the Japanese, internationally successful animation television serial Neon Genesis Evangelion.

Motorized chassis
Art. 975666

66 mm long, 16 mm axle base, 15 mm wide.

Chassis TM20, motorized
Art. 975971

With flywheel mass, drive on all four axles, standard N coupling. 15M Class C.

Chassis TM14, motorized
Art. 975964

With flywheel mass, drive on all four axles, standard N coupling. 20M Class A2.

Chassis, motorized, 100 mm, TM-05R
Art. 977131

With flywheel mass, drive on all four axles, standard N coupling. Length 100 mm, pivot pitch 74 mm, axle base 14 mm, width 15 mm.

Chassis, motorized, TM-06R
Art. 977132

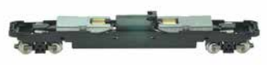
With flywheel mass, drive on all four axles, standard N coupling. Length 116 mm, pivot pitch 80 mm, axle base 14 mm, width 15 mm.

Chassis, motorized
Art. 973163

With flywheel mass, drive on all four axles, standard N coupling. Length 120 mm, pivot pitch 90 mm, axle base 16 mm.

Chassis TM15, motorized
Art. 975965

With flywheel mass, drive on all four axles, standard N coupling. 20M Class B2.



Chassis, motorized, 119 mm, TM-08R
Art. 977134

With flywheel mass, drive on all four axles, standard N coupling. Length 119 mm, pivot pitch 90 mm, axle base 14 mm, width 15 mm.

Chassis TM-12R, motorized
Art. 975962

With flywheel mass, drive on all four axles, standard N coupling. 19M Class A.

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For a complete synopsis of TOMYTEC and TOMIX collections currently available in Europe, visit www.faller.de. Product portfolio is continuously expanded and available throughout Europe in your FALLER retailer's shop! Discover many more models for the N gauge, supplied with detailed assembly instructions, on the topics: cleaning vehicle, tracks, Shinkansen, bus and tram systems, speed controllers, and many others more.

GREAT DIVERSITY – INCREDIBLE QUALITY!

Besides high-quality model kits TOMYTEC offers much more. Further information on the company at www.tomytec.co.jp

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