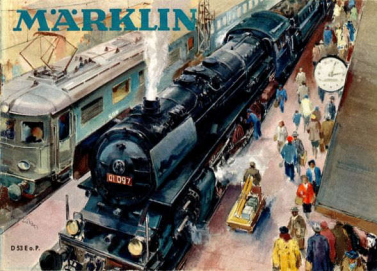


# MÄRKLIN



© 1988 M.F.



This catalog shows primarily our line of H0 trains. An exception is page 49 which shows 8 gauge mechanical trains. Those interested in other 8 gauge lines should ask their dealers for the special catalog.

This factory sells through the trade only.

Our policy is one of constant improvement; we reserve the right to make changes in color, size or weight. All measurements are approximate. This catalog reproduces all previous catalogs.

**GEBR. MÄRKLIN & CO. AG**

*Manufacturers of Fine Model Toys*  
**GOPPINGEN / WÜRTTEMBERG**



Trade Mark

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Printed in Western Germany • Printed by G. Rothemann

## To All **MARKLIN** Fans

Highest quality at lowest prices is the slogan for this year's catalog. The steadily declining demand for our products has made it necessary to install the very latest in production machinery. Greatly improved methods have been developed to produce the **MARKLIN** trains. At the same time it became possible to lower the cost of producing several items which savings were passed on to the consumer in the form of lower prices.

Outstanding examples of this development are the new locomotives OM 800 and CE 800 (pages 2 and 3). These are particularly well designed models with a wealth of detail that can hardly be surpassed. Also of great interest to all model railroaders is our completely new automatic block system. Following prototype practice 8 new signals have been created: Warning signals, Semaphores, and Color Light Signals, which make it possible to install realistically operating train safety systems on all layouts. Here too, it was possible to keep costs at a minimum and make it possible for anyone to install the signals on his layout.

Our crowning achievement among this year's new items is the new **MARKLIN** model track (2900 and 3000), which is illustrated on pages 34 and 35. This track combines the realistic appearance of the 2 rail track with the simplicity and versatility of the 3-rail track. It is a true model track, which will delight even the most spoiled model railroaders.

And so, this year's catalog, which shows all articles in full colors, will give all of our friends the opportunity to select interesting and exciting additions to their layouts. At the same time we constantly strive to increase the number of owners of **MARKLIN** layouts. The opportunity to possess a **MARKLIN** train, long regarded as the standard of the world, is now given even to those with the most modest budgets.



**GEBR. MARKLIN & CIE. <sup>GM</sup><sub>1891</sub> · GÖPPINGEN/WTTBG.**

# The Superb Qualities of **MARKLIN**

## The locomotives have:

- Painted reproduction of all details of the prototype.
- Self-acting operation.
- Precision Motors with reduction gears.
- Reversing by remote control from transformer or by manual lever on locomotive.
- Electrical speed control from transformer.
- Some models have lights of both ends changing automatically in accordance to direction of travel.
- Fully independent headlight bulbs.

## Two exciting New Models



### **CM 100**

**Teak Locomotive**, serial 80 of the German Federal Railways • Dark black • 0-4-0T • Flueless body • Remote controlled reversing with additional manual lever • 2 electric head lights • Increased puffing and climbing ability through expansion fans on the rear two wheels • Cylinders at both ends • Length over buffer beam • Weight about 11 lbs.

# Electric H0 Locomotives

# H0

*Ready models, easily placed on the track.  
Especially suitable for switching on remote  
controlled layouts with uncoupling rails.*



## CEM

Electric Switching Locomotive, series E 43 of the German Federal Railways • Ready-to-run model • Remote controlled reversing with additional manual lever • Two electric headlights at each end, always burning in direction of travel • Lever controlling optional operation from overhead wire or contact rail • Windows with yellow glass • Length over buffers 5 in. • Weight about 10 oz.

Programme gives us many models, increased pulling and shunting ability.

More detail shown suitable for both standard and model track widths.

**Electric Type Locomotives, in addition, have:**

Working pantographs which, like their prototypes, may be moved upon the roof and then out the circuit.

Lever for optional operation from overhead wire or contact rail.



Transformer 12V A is required on separate track models. For larger layouts, however, transformer 24V A is recommended.

MARLIN

## Electric Locomotives



EM 100

Tank Locomotive • Built black • 4-4-0 • Reverse control for reversing, additional lever for manual operation • 3-wheeled bogies • Headlight on the rear tank wheels • Solid die-cast body • Expertly rolled up a weathered texture with exactly detailed connecting rods • Length over buffers 19 1/2 in. • Weight 15 oz.

*The models placed here have won many awards because of their sturdy construction and their suitability for switching, as well as local freight and passenger trains. They are easily fitted to the track, have high pulling and climbing power, and negotiate curves with ease. They provide beautiful lines and fairly worked out details.*

Required transformer 250 A or 300 A



EM 100

EM 100

Steam Locomotive with Tender • Black • 4-4-0 • Reverse control for reversing, additional lever for manual operation • 7 wheels in bogies • Solid die-cast body • Headlight on both freight and passenger (EM 100) • Length over buffers 19 1/2 in. • Weight 15 oz.

## Super Models in H0 Gauge

*The engine ranks among the most beautiful of M&ER's locomotives. A true model of the 41 series of the German Federal Railway, it is noted for its beauty and power. Here is an engine which belongs in every H0R's collection.*



Required transformer 250VA



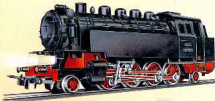
# 100

**Express locomotive** • Built 1926 • 1-4-2 Pacific Type • Remote control for reversing, additional lever for manual operation • One plate valve gear mechanism • 2 electric headlights 40V • Built-in steam boiler • Exactly reproduced smoke deflector, pistons, and cylinders • Flanges on all wheels • Tending and trailing trucks are pressed on track by soft springs, no danger of derailments • Hydraulic force in the rear axle of driving axles added pulling and stopping power • 8 wheel tender • Length over buffers 175 cm • Weight including tender 24 kg.

## Electric Locomotives



Required Transformer: 200 A



TT 800

Fast Locomotive, series 80 of the German Federal Railway • Doll black • S&GT • Remote control for reversing, additional lever for manual operation is needed by opening boiler door • 2 electric headlights at each end, which turn automatically in direction of travel • Solid stressed body with many metal details • Motor with reduction gears for pilot driven • Length over boiler 21 1/8". Weight 13 lbs.

SR 800

Streamlined Locomotive • Doll black with silver lining, N&H Markon type • Remote control for reversing, additional lever for manual operation • 2 headlights • Streamlined solid die-cast body • Motor with open reduction gear • Solidly built trucks with spoked wheels, spring to prevent derailment • Wheel tender, length with tender over buffers about 19 1/2 in. • Weight with tender about 14 lbs.





## Brute Power and Graceful Lines

MARXLIN



Required  
transformer: 20A

It was surely no wonder  
when this MARXLIN  
engine has been the object  
of enthusiastic admiration  
from the moment it ap-  
peared on the market.  
Brute power combined  
with subtle lines are the  
main features of this loco-  
motive which is a faithful  
reproduction of no. 44  
of the German Federal  
Railways. Standing in, we  
can almost hear the puff-  
ing approach of its power-  
ful prototype with its  
long string of cars. The  
fine, heavy side rods im-  
itate all the details with-  
out obscuring their sig-  
nificance of the engine. This  
model represents a strong  
engine for push trains.



© 198

**Heavy Freight Locomotive** • Built 1944 • Remote controlled • running placed in the tender, additional lever for manual operation on rear part of tender • Complete valve gear mechanism • All drivers are powered • 3 electric headlights 405 • Solid die cast body with extensive detail • Because of the arrangement of the drivers into groups, model will easily negotiate narrow radius curves • Flanges on all wheels • Front truck spring to prevent derailment • Locomotive type smoke deflector • 8 wheel tender with trucks • Length over buffers 11 in. • Weight 26 oz. including tender.



914 000

Transformer 24 A is required to operate these models, but transformer 300 A is recommended for longer layouts.

914 000

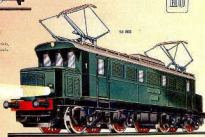
Electric Passenger and Fast Freight Locomotive - Green - Black - 0-4-4-0 - Remote control for reversing with additional lever for constant operation - Thermostatic coils are driven by the motor, the two water valves are in front for better regulation of service - 2 remote headlights - Optional operation (also overhead wire or third rail) - Length over buffer 314 in. - Weight about 2100 g.

914 000

Electric Locomotive for Mixed Traffic - Green - 0-4-0 - Remote control reversing with additional hand lever - All 3 axles powered - 2 water-cooled electric headlights - Forward, sliding model easily placed on rails even in curves - New detailed body casting - Windows with safety glass - Length over buffer 314 in. - Weight about 2100 g.



914 000



## under the Catenary

### 1870 000

**Electric Express Locomotive** - Green with silver lining - 2 axles - 0-6-0 - Remote control for reversing with additional manual lever - 2 electric headlights - Optional operation from overhead wire or third rail - The two middle axles are powered, the two outer axles are in trucks, each of which is on its own 2 wheel track, for an easier negotiation of curves - Portable type windows - Set-off driver's stand - Length over buffers 50 ft. - Weight 21 tons.



1870 000

Required mainlinecar 300 A

MS 000



MS 000

**Electric Express Locomotive** - Green - 12-axles - 2-6-2 - Remote control for reversing with additional lever for manual operation - 2 electric headlights at each end, which change automatically - Optional operation from third rail or overhead wire - Rectifier pantographs - Extraordinary power - Remote control with reduction gears, gear position - Solid wheels - Spring loading and trailing trucks to prevent derailment - Extensive details on roof - Windows with safety glass - Length over buffers 176 ft. - Weight about 38 tons.

Electric locomotive • Super model • Green • Road and detail driver • 5x4x0 • Remote control reversing, additional lever for manual operation • 2 electric headlights on each end changing automatically with direction of travel • Optional variation from overhead wire or third rail • Powerful motor driving all 4 axles • Detailed representation of the Swiss prototype • Length over buffers 21 in. • Weight 21 oz.



Drivers and  
lighting of  
H0 881  
Super Model

Electric Model • Wheel arrangement similar to H0 881 (page 8) • The lower two axles are powered by the motor, the rear pair of drive wheels is equipped with compression steel • 2 electric headlights at the front and only, no automatic change of light • Remote control for reversing; additional lever for manual operation • Lever for optional operation from overhead wire or contact rail • Length 21 in. • Weight 21 oz.



Drivers and  
lighting of  
H0 882  
Economy  
Model

## The Popular Swiss Locomotives

*Inland the popular electric rail passenger trains between Switzerland's principal cities, a great number of these modern locomotives have been placed in service. Whether they are used alone or as the head of Swiss passenger trains, both models are champions in every respect. In performance and reliability the H0 and H0 882 are quite equal to their prototype for they are MÄXIMILIAN products.*

For Model H0 881 transformer 200 A is required. For Model H0 882 transformer 250 A is required, but the larger layout transformer 200 A is recommended.



# Heavy Electric Freight Locomotive

MARXLIN

OO-100

Electric locomotive "Crossville" • Green • 16 wheels • 2442 • Remote control for reversing, individual incandescent head lights • 3 electric headlights at each end, which change automatically • The locomotive is built in three sections and articulated so that it may adapt itself to the curves • It replicates natural road wheels without difficulty • Spark pulling power through powerful motor in combination with gear and main gear of highest modulus • All 16 drive wheels powered • Leading and trailing trucks are spring to prevent derailment • Windows with yellow glass • Realistic pantographs • Movable levers for various operations by overhead system or main rail • Length over buffers about 78 1/2 in. • Weight about 28 lbs.

*This motor piece is a faithful reproduction of the internationally famous prototype which has been passing and freight trains over the difficult Gotthard route in Switzerland. This model is of amazing power and range, among the most beautiful and characteristic Swiss locomotives.*

Required transformer • 500 A





Expanded  
transformer:  
250A

## Heavy and powerful Twin Electric Locomotive

MARLIN

*As its name indicates this model is of extraordinary power.  
All rails powered. Only removable pantographs allow  
this model to run on Diesel locomotives.*



OC 800

**Twin Electric Locomotive** • Green • Exceptionally powerful motor driving 8 axles • Remote control for reversing • Additional lever for manual operation • 3 electric headlights on each end changing automatically according to the direction of travel • Optional operated from third rail or overhead wire • Solid die-cast body with much detail • The pantograph are not together with the models, but will feed to it • Increase power and high speed • Length 17 in. • Weight about 4200g.

## Diesel Express and Streamliners

ST 100



**Diesel Streamliner** - 3 car set - Available in red, green, or blue with ivory - 4 tracks, control system connected to Amtrak tracks - Remote control for reversing - Additional lever for manual reversing - 3 white headlights, 2 red taillights - Manual lever for optional operation from overhead wire or third rail - Standard streamlined form - Especially powerful motor - High speed - No derailment - Windows with safety glass - Removable pantograph are furnished with this model - Length of set about 22.5 in. - Weight about 4 lbs.

ST 100 SET

Extra Coach (Length 7 1/2 in.)



The Diesel streamliner can easily be transformed by one or two additional coaches - Through an ingenious coupling hook the streamlined mechanical connections can make electrically - Available in the same colors as the Diesel Streamliner - When ordering please specify color.

Required transformer, 200 A

OT 900

**Rail Electric Express Car** consisting of two parts - Red with ivory - Amtrak track in the middle - Remote control for reversing with additional manual lever - One red and two white lights at each end, which change automatically according to the direction of travel - Removable pantograph at center track - Optional operation from overhead wire or third rail - Powerful motor driving wheels at center track - Interior illumination - Windows with safety glass - Length 10 1/2 in. - Weight 2 lbs.





**MARILIN**

## Popular Priced New Sets

*In spite of their low prices, these sets consist of the finest models among our new lines for this year. The combination of low prices and a great value that is far more than possible for anyone to know the value of a new MARILIN layout at very small expense.*



**CM 8851**

Freight Train without transformer, consisting of locomotive CM 8851, 3 freight cars - length of train 17 in. - track layout: 12 curved track sections B 3000-A, 2 straight track sections B 3002-D, including terminal section.



**CM 8870**

Passenger Train without transformer, consisting of locomotive CM 8851, 3 local coaches (301) - length of train 19 in. - track layout: 12 curved track sections B 3000-A, 2 straight track sections B 3002-D, including terminal section.

Transformer 285-A is required to operate the rules shown on the pages 14 and 15 - for larger layouts, however, transformer 285-A is recommended.



# Train Sets with Oval of Track less transformer

MARLIN



CE 8290

Local Passenger Train (less transformer) consisting of locomotive CE 8290, 2 four-wheel coaches 8290 A, length of train 37 in. • Track layout: 12 curved track sections 8 3600 A, 2 straight track sections 8 3600 D, including terminal section • Booklet.



CE 8290

Freight Train (less transformer) consisting of locomotive CE 8290, 3 plastic freight cars • Length of train 37 in. • Track layout: 12 curved track sections 8 3600 A, 2 straight track sections 8 3600 D, including terminal section • Booklet.



EM 8294

Local Passenger Train (less transformer) consisting of locomotive EM 829 with tender, 2 four-wheel coaches 8294 and baggage car 8294 • Length of train 39 in. • Track layout: 12 curved track sections 8 3600 A, 4 straight track sections 8 3600 D, including terminal section • Also booklet.



Local Passenger Train (less transformer) consisting of locomotive EM 829 with tender, 2 four-wheel coaches 8294 and baggage car 8294 • Length of train 39 in. • Track layout: 12 curved track sections 8 3600 A, and 4 straight track sections 8 3600 D, including terminal section • Booklet.

EM 8294

## Other Complete Train Sets

MARXKIN

*The combinations shown on these pages make it easy for the MARXKIN fan to select a train set which is to his liking. To further simplify his task, the starting stock layout is included with the set. The owner may then add to the set whatever additional equipment he may want. Any article shown in this catalog can be used with these sets, and the number of possibilities is unlimited.*



36 000

Express Train (see transformer) consisting of locomotive 36 000, baggage car 3404, coach 3405, dining car 3403, and sleeping car 3402 - Length of train 12 in. - Track layout: 12 curved track sections S 3400A, and straight track sections S 3400B, including turnout section - Booklet.

Express Train, as per Western European Prototypes (see transformer), consisting of locomotive 3600 000, baggage car 3404, Coach 3405 - Dining car 3402.1, and sleeping car 3402.1 - Length of train 12 in. - Track layout: 12 curved track sections S 3400 A, and 18 straight track sections S 3400 B, including turnout section - Booklet.

Set 3600 000 is equipped with the blue dining and sleeping cars of the Wagon-Lite Company - These cars may also be had with other sets in place of the red cars. If they are desired, add the letter "F" to the number of the train set.

36000.1



# Complete ready-to-run Train Systems with Oval of Track and Siding, less Transformer



**F 800**

**Express Train System** (less transformer), consisting of locomotive F 800, baggage car 3461, coal car 3461, dining car 3462, and sleeping car 3463 • Length of train 47 in. • Track layout: 14 curved track sections B 300 A, 20 straight track sections B 300 b including terminal section • One pair of switches 300 3000 • Distributor plate • Control plate • 4 cables • Booklet.

**SR 3000**

**Overhead Express Train System** (less transformer), consisting of locomotive SR 800, baggage car 3461, coal car 3461, dining car 3462, and sleeping car 3463 • Length of train 47 in. • Track layout: 14 curved track sections B 300 A, 18 straight track sections B 300 b including terminal section • One pair of switches 300 3000 • Distributor plate • Control plate and 5 cables • Booklet.





803 8807

*Those who desire to pattern their layout after realistically famous foreign systems will find in the train shown here an outstanding example of the latest Swiss passenger train. The coaches, like their prototype, have opening double doors. These may be continually opened and closed for moving the loads which are loaded on the roofs.*

Swiss Express Train (no transformer) consisting of locomotive 803 8807 - baggage car 3484 - 2 coaches 3481 with opening doors - Dining car 3485 - Length of train about 42 in. - Track layout: 12 curved track sections B 3400 A and 10 straight track sections B 3000 C including terminal section - Booster.

803 8807

Swiss Train (no transformer) but with only 3 cars - Coach 3487, baggage car 3488 - Dining car 3485 - Track layout: 12 curved track sections B 3400 A and 4 straight track sections B 3000 C including terminal section - Booster.



809

Re-railer simplifies setting of locomotives on tracks - Length 12 in. - Weight 6 1/2 in.



803 Y

Set of Train Maintenance Tools including pliers, special pliers, pliers, round file, screw driver, scraper jaws, clip, screw cloth.



803 Y

Set of Train Maintenance Tools consisting of: Soldering iron, half round file, wire, solder, screw cloth.



803 Y

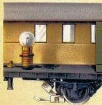
Locomotive Lighting for Passenger Cars 809 and 308 series, with built-in light.

## Remote Control Uncoupling



### 3000 8025

Uncoupling ball section with signal which lights up when ramp is raised - Ramp unclips 1/8" and holds stopped over it - Ramp locked on both sides of third rail is raised by remote control - Cables for connection to control plate 4064 - Length 24 1/2 in. - Height 4 in.



A lined coach with coach light 4061 installed.



Interior Lighting for all 3-wheel Passenger Cars with bulb 4061 - Several coach lights 4061 may be connected to one pick-up shoe 4062



Pick-up Shoe for Coach Light 4062



An express coach with shoe 4062 and coach light 4061 installed.

## Local Coaches of finely lithographed pressed steel

MARKLIN



Coach with open platforms and doors at the ends  
2291 Simplified construction - illustrated on page 48



Baggage Car with sliding doors on both  
ends and look-out door for conductor

Standard Coach with extensive details - Windows with yellow glass -  
Dark green - Gray roof - Many markings - Length over buffers 54 in.



2281 Without brakeman's cabin



2282 With brakeman's cabin

Compartment Coaches, 8 wheels, seats divided into 8 compartments, dark green, gray roof, many markings - Length over buffers 54 in.

# Stainless Steel Passenger Cars of the Swiss Federal Railways (All-metal Construction)



2881

Cosmator Coach - 8 wheels - Swiss Prototype (2881) - Equipped with all new type - 2 double sliding doors on each side which open by pulling bottom on roof - Windows with yellow glass - Fine reproduction of all details (Corridor connections, running boards, battery boxes) and markings - Dark green, silvergrey roof - Length over buffers 8'6 in.



2882

2882

Dining Car suitable for use with Cosmator coach - Photograph suitable for interior illumination - Ventilation windows - Roof ventilator - Corridor connections - Frosted glass for kitchen - Battery boxes - Dark green, yellow markings, silvergrey roof - Length over buffers 8'6 in.



2883

2883

Baggage Car for use with Cosmator coach (2881) - Sliding doors - Windows with bars - Many details - Dark green - Silvergrey roof - Yellow markings - Length over buffers 8'6 in.

## All-metal



3461

Day Coach • 8 wheels • Removable roof • Windows with yellow glass • Dark green, grey roof • Length over buffers 8 ft 6 in.



3461 B

Coach same as No 3461, but with taillight, interior illumination, and pickup door.



3462

Dining Car • 8 wheels • German DSG prototype • Mini-red, yellow markings • Length over buffers 8 ft 6 in.

3462 J

Dining car as above, but with International Sleeping Car Company markings • Blue, yellow markings



3464

3464

Baggage Car • Barred windows • 2 double sliding doors on each side • Dark green • Length 8 ft 6 in.

*The cars shown here are models of British coaches for warland traffic. The bodies are made of fully lithographed pressed steel.*



## Cooches

Equalized loads. Easy operation through  
curves. Cooches constructed. Absolutely safe.  
Windows with yellow glass.



3402 J

Sleeping Car - 8 bunks - Blue with International Sleeping Car  
Company markings in yellow - Length over buffers 8 1/2 in.

344/3

Sleeping Car - 8 bunks - Wine red with DSO markings in yellow -  
Length over buffers 8 1/2 in.



341-6

Cooch as used on express trains of the German Federal Railway  
- 8 wheels - Blue - Roof and markings silver - Length 8 1/2 in.



341-6

Railway Post Office Car - 8 postal windows - Slanted double  
doors - 8 side lights - Green with yellow markings - Post Office  
Sign - Length over buffers 8 1/2 in.



3401

# Inexpensive Freight Car Models with Plastic Bodies



104  
Low sided Gondola - Brown - Length 4 in.



105  
Side Tipping Gond - Red - Taps to either side - Loading device - Length 2 1/2 in.



104-0  
Covered Goods Wagon - Brown - Length 4 in.



104-0  
Covered Goods Wagon - Brown - With diagonal markings - Length 4 in.



104-1  
Wine Wagon with 2 barrels and ladder on both sides - Barrels light brown with markings BORDAUX - Length 4 in.



105 C  
Low Sided Gondola - Black/white - Brown - Length 7 in.



105 C  
Flat Car - Black/white - Steel wheels - Length 7 in.

*Chassis of finely enameled steel - 4 wheels -  
Body of thermoplastics - Die-cast wheels -  
Length are measured over the buffers.*



204

**Crane Truck** - All-metal construction - Also  
silver colored - Movable body with crane -  
Length 3 1/2 in.



204 1

**Tank Wagon** - Silver - 5500 - Tank with  
ladder and filling apparatus - Length 4 in.



204 2

**Refrigerated Wagon** - White with red markings -  
Roof with insulation construction - Length 4 in.



204 2

**Banana Wagon** with picture of plantation  
worker - Yellow - Also markings - Length 4 in.



204 3

**Tank Wagon** - Yellow - 5500 - Tank with  
ladder and filling apparatus - Length 4 in.



202 C

**Covered Wagon** - Brown - 8  
wheels - White canvas cover -  
Length 7 in.



204 4

**Tank Wagon** - Silver - 4500 - Tank with  
ladder and filling apparatus - Length 4 in.

## All-metal

*The sidebearings of the cars are drawn of one side the bodies are cast of light weight alloys. All details have been reproduced with painstaking care. All detailed cars have drawings.*



210

Open Goods Truck - Brown or grey - Length 4 in.



211 B

Open Goods Truck - Brown or grey - With plastic insert resembling steel - Length 4 in.

211 S

Open Goods Truck - Brown or grey - Same as above, with insert resembling track buffer



216

Open Goods Truck with brakeman's cabin - Brown or grey - Length 4 in.



222

Specialized Open Goods Truck - With brakeman's cabin - Brown - Length 4 1/2 in.



211 G

Timber Truck with brakeman's cabin - GAO doll with buffer - Brown - Length 4 1/2 in.

211

Timber Truck, as above, without buffer



214

Closed Goods Wagon with brakeman's cabin - Brown - Length 4 in.



220

Covered Wagon - With brakeman's cabin - Brown, white canvas - Length 4 1/2 in.



218

Closed Goods Wagon with brakeman's cabin and washed rail - Brown - Length 4 1/2 in.

## Construction

*breaks down. All cars have couplers which couple automatically when cars are near, they can be uncoupled by means provided on the uncoupling action 2400 EXL.*



228

Double Brake Van - Green - One side with open, the other with closed door - Length 3 1/2 in.



225

Beer Wagon - With brakeman's cabin - White - Length 4 1/2 in.



211 H

Open Goods Wagon - Brown or grey - Floor level of Indian wood - Length 4 in.



244 B

Petrol Tank - With brakeman's cabin - Light Grey - 1500 markings - Filler and vent - Filling apparatus - Length 4 in.

244 B - white GRS244B markings

244 B - yellow GRS244B markings

244 B - green 'GP' markings



226

Barrel Wagon with brakeman's cabin - Yellow - Length 4 1/2 in.



212

Closed Goods Wagon without brakeman's cabin - Brown - Length 4 in.



240 S

Closed Goods Wagon with brakeman's cabin and wheel roof - 2 electric tail-lights and pick-up door for illumination - Length 4 1/2 in.



234

Refrigerator Van with brakeman's cabin - White - Length 4 1/2 in.

## Super-Model Freight Cars • Die-cast of unbreakable light weight alloys



231

Boxcar • Brown • 8 wheels • Length 2 1/2 in.



232

Box Car • Brown • 8 wheels • Operating sliding door • Length 3 1/2 in.

*Smooth running • Trucks with helical springs •  
All details carefully reproduced*



231 S

Tank Car • 8 wheels • Yellow • "SHELL" markings • Brake wheel • Hand valve • Ladder and walk • Filling apparatus • Length 3 1/2 in.

231 S

Tank Car as above • Light gray • "SHELL" markings



231 Q

Lumber Truck • Loaded • Black • 4 wheels • Length 2 1/2 in.

## The Efficient **MARKLIN** Transformers

The transformers shown here are built according to the latest safety regulations. They have an output of only 8 to 25 volts. There is a speedometer and a knob which is used to regulate both the speed and direction of travel. A thermostatic cut-out prevents any damage in case of short circuit or overload. The cables of transformers sold in the United States and Canada are equipped with American plugs.

Transformers may be connected  
only to AC outlets



Sockets on the  
reverse side of  
the transformer

200 A

Transformer with perfect reverse (10, 15, 100, or 200 V) capacity  
10 VA • Sockets for train (R, ground (B), accessories and lights (L)  
Housing made of steel, finely enamelled • Weight about 3 lbs. • Size  
3 x 4 x 3 in. • (When ordering, please specify voltage)



Sockets on the  
reverse side of  
the transformer

300 A

Transformer with perfect reverse (10, 15, 100, or 200 V) Capacity 30 VA • Sockets for  
the train (R), light and magnetic control of new type (L), magnetic control of former type  
(W), and 3 ground connections • Red control lamp • Housing made of pressed steel, finely  
enamelled • Weight about 5 lbs. • Size 4 x 3 x 4 in. • (When ordering please specify voltage)

For connection to direct current:

## Inverter No. 276

If your layout has direct current, an inverter No. 276 will be inserted between the power control and the transformer. The inverter changes the direct current to 220 Volts alternating current. The transformers connected to the inverter reduce the high tension of the inverter to the fully working voltage of 20 volts. When ordering, please state the voltage of the house current (AC). The inverter is to be connected to 110 or 220 Volts. The inverters are especially suited for NARX12H transformers. We cannot take any responsibility for smooth operation if other track formats than ours are used.



274

The inverter whose capacity is 100VA, is suitable for the operation of several tracks since 2 transformers 20 A or 3 to 4 of the smaller transformer 20 A can be attached. For this purpose the three-way plug 299 B should be used. NARX12H transformers for 0 gauge can also be attached.

30

## Some popular track layouts for H0 gauge



Figure 8 3430-020 Oval  
Size 50x22 in. -  
Track sections 11 A, 1 AA, 1 D



Figure 8 3430-030 Large figure  
Size 80x50 in. - Track sections 11 A,  
1 AA, 4 AA, 4 D, 1 E



Figure 8 3430-025  
Oval with Siding  
Size 50x34 in. - Track sections 11 A, 1 AA, 1 D, 1 D1, 1 pair of switches W



Figure 8 3430-031 Double track oval with  
double-crossing loop - Size 115x65 in. - Track  
sections 20 A, 1 AA, 2 D, 4 D1, 2 D11,  
2 pairs of switches WWS, 2 turnouts, 1 E



280

Track plans are contained in booklet No. 63 "Track Plans H0 gauge" - 16 pages - Size 10x1 1/2 in. - Published in German only.



281

Booklet "The Electric Miniature Railway H0 gauge", a richly illustrated guide through the field of Model Railroading. 88 pages, size 5 1/2 x 8 1/2 in. - Published in German only.



282

Booklet of transparent cards for designing track plans using standard track sections 3430 - (Scale 1:50)



# Accessories for Remote Control and Lights

MARSHLIN



**485**  
Distributer Plate - With 8 socket connections - Size 2 1/2" x 1 1/2"



**489**  
Control Plate with 8 socket connections - Suitable for operating 4 double solenoid accessories - The control buttons are so arranged that the positions of switches and signals can be seen on the control plate. A set of decoders with numbers 1-18 is included.



**Set of Number Plates** - For marking all switches, signals, etc. Consists of 10 six-card boxes and a set of card-based numbers (1-24) which can be cut out and inserted into the boxes.



**489**  
Control Plate switch type - Used to switch lights on or off - Can also be used to momentarily interrupt power to sections of the track layout without the use of signals - 4 switches with 4 single pole socket connections - Length 3 1/2 in. - Width 1 1/2 in.



**489**  
Cable, single pole, with 1 plug and 1 socket connection - Available in red, brown, black, blue, yellow, or green - Length 1 yard.



**489**  
Cable, single pole, with 1 plug and 1 socket connection - Available in red, brown, black, blue, yellow, or green - Length 2 yards.

The MARSHLIN wiring system uses the following color coded cables:



**Red** - Main power (Transformer to motor rail or overhead wire)



**Brown** - Ground (interference to roadbed or lights to transformer through roadbed)



**Yellow** - Power for lights and magnetic accessories



**Blue** - Interrupted ground (used on switches, signals, etc. to load the control track through the control plate or control track section with red, green, or orange plugs)

**489**  
2 Feet length of Cable packed separately in all orders.



**489 25**  
Socket  
In red, brown, blue, yellow, orange, green, black.



**489 5**  
Plug  
In red, brown, blue, yellow, orange, green, black.



**489 50**  
Plug with 1000 socket



**489 25**  
Pair of Brakes suitable for almost all HO locomotives - The springs are required only for older types of locomotives.

**489 2**  
Runway Plug used to connect two sections.



**489 25**  
Pair of Brakes for locomotives CCS 60, DL 60, and 10 60.

**489 2**  
Green Plug used in a similar manner as 489 2, but not when used to connect plugs.

No.	Light Bulb
<b>489</b> 	Bayonet type clear red/green
<b>489</b> 	5mm thread clear green/green
<b>489</b> 	5mm thread clear 9mm glass red/green or frosted

## 489 1000

Pair of Brakes for especially slow drive. To be used only in pairs.

# MARKLIN Standard Rail Sections with Center Rail



The **#3000** track sections are of all-wood construction with hollow rails. They are the standard track sections with steel rail. A single track has an inside diameter of 20% larger portion of 12 curved sections **#3000-07A**. The sections have insulation (rubber rollers) and contact fingers which make short circuits impossible.



**#3000-000**  
Straight Track Section, Length 27 1/2 in.



**#3000-001**  
Curved Track Section, Length 27 1/2 in.



**#3000-010**  
Straight Track Section  
Length 30 1/2 in.



**#3000-011**  
Straight Track Section  
Length 27 1/2 in.



**#3000-012**  
Curved Track Section  
Length 27 1/2 in.



**#3000-013**  
Curved Track Section  
Length 27 1/2 in.



**#3000-014**  
Straight Track Section  
Length 15 1/2 in.



**#3000-015**  
Straight Track Section  
Length 15 1/2 in.



**#3000-016** Turned-out Track Section, curved  
**#3000-017** Turned-out Track Section, straight



**#3000-018** Crossing, Length 27 1/2 in.



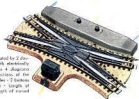
**#3000-019** Curved Track Section, straight  
**#3000-020** Curved Track Section, curved

# Electromagnetic Switches with double solenoid switch machines for remote control

Electrically operated (Solenoid) and Double Solenoid Switch Machines (DSM) are equipped with double solenoid switch machines. Electrically (Electromagnetic) switches indicate the actions of the switches. All switches are spring-activated. If a train happens to pass over a closed switch, it will not travel, and the switch will return to its original position after the train has passed over it.

## DSM 0000

**Double Slip Switch** - Operated by 2 electric solenoid magnets with electrically illuminated buttons whose 4 diagonals indicate the possible positions of the switch - 6 connecting cables - 2 buttons enable manual operation - Length of straight way 21 cm - Length of curved way 19 cm



DSM 0001



**Pair of Electric-Magnetic Solenoids** consisting of right hand and left hand units, both with double solenoid switch machines, illuminated buttons, 2 connecting cables per switch - Length corresponds to that of track sections - 2 2000 cm and 2 1000 cm



DSM 00



Pair of remotely operated switches

Electrically made with frog, ground rails, etc. - Planks are held to outside rails by stiff springs - Unlighted buttons - (Scale similar to DSM 0000)



**Bumper - Stopped Start** - Electrically controlled - Mounted on track section 2 2000 - Length 21 cm



DSM 0003

**Bumper with illuminated yard block signal** - One- or two-light support - Mounted on track section of the 2000 type, but also suitable with 2 2000 track

# The ideal Model Track without Centre Rail with Point Contacts



The new track system combines the many advantages of the T-trail system with the railway appearance of 2 rail track. As in the case of many track, the rails are laid on the wooden rail bed and give off no noise or vibration as they make contact between the rails and the wheels. It provides good weather the maintenance of real-life double track lines. The system track width measuring up to 10 inch sections 2000 014 has an outside diameter including rounded up of 17 inches. The parallel track made up of 14 inch sections 2000 014 has an outside diameter of 17 inches. 1/2 inch double track line is convenient and attractive. The distance between track centers will be 2 inches and between roadbeds 3/4 inches. All former limitations and restrictions can be used on the new track. The track can be used together with the previous 1-rail track. 2000 additional very difficult maintenance.



**2000 014**  
Straight Track Section - 7 1/2 in. long



**2000 014**  
Straight Complementary Section - 4 1/2 in. long  
Complementary section for crossings and crossings in parallel tracks



**2000 014**  
Straight Track Section  
4 in. long



**2000 014**  
Straight Track Section  
3 1/2 in. long



**2000 014**  
Straight Track Section  
1 1/2 in. long



**2000 014**  
Straight Track Section  
1 1/2 in. long



**2000 014**  
Curved Track Section - 5 1/2 in. long



**2000 014**  
Curved Track Section  
4 1/2 in. long



**2000 014**  
Curved Track Section  
3 1/2 in. long



**2000 014**  
Straight Contact Track Section - 7 1/2 in. long



**2000 014**  
Curved Contact Track Section - 7 1/2 in. long



**1980 HRAH**

Right Hand Switch - 7 in. long, remote controlled



**1980 HRAH**

Left Hand Switch - 7 in. long, remote controlled



The curved part of the points is equal to 1/4 the length of a curved track section. 1980/1981 - Trackers is lighted by both 1981 points are held against rail by coil springs, switches can be used as spring switches.



**1980 SL**  
Supplementary track,  
left-hand curved,  
7 1/4 in. long



**1980 SR**  
Supplementary track,  
right-hand curved,  
7 1/4 in. long

Supplementary tracks are used of crossings and the break-out of switches where these are connected with straight or curved track sections and not with other crossings or turn-outs of switches.



**1980 SD**  
Supplementary track,  
straight,  
2 1/2 in. long



**1980 K**  
Crossing - 7 1/4 in. long



Curved track section - 7 in. long

**1980 CA**

**1980 CB**

Detailed instructions about the system are supplied with the two track-and-track sections



Straight track section - 7 in. long



**1980 A** *4 1/4 in.*  
Curved track section - 4 1/4 in. long

Diameter 40 in.

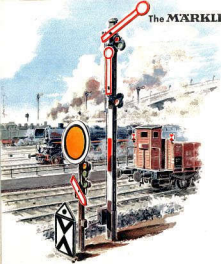


**1980 B**  
Curved track section - 4 1/4 in. long



**1980 B1A**  
Curved track section - 4 1/4 in. long

## The **MARKLIN** Signal Assortment, 446 Series



The highly detailed signals have the cast metal. All details of prototype signals have been painstakingly reproduced. Special care has been taken to insure dependable operation and versatile utilization. The signals can be installed anywhere on the layout, on standard as well as on model track sections, on curves as well as on straight stretches, on the left as well as on the right of the track. The signals have two plates which are included so that signals may be clipped securely to the track. (See illustration of Signal 446/48). In addition holes have been drilled in the tops of the signal bases so that the signals may be secured as to permanent layout. All signals have a ground socket for the return of the illuminating current. This is required primarily when the signal is used with model track sections of the 3000 and 3000 series. All signals are illuminated with built-in LEDs. The models are especially powerful and sturdy.

## Signals without Train Stopping Mechanism



440/1

**Warning Signal without arm** - Double semaphore - Light changes from orange/orange to green/green - 2 blue cables for cable cross operation, may be connected to control plate or not for synchronous operation with home signal - The three plugs (red, green, and yellow) have cross cables - Suitable for use with home signals 440/11 or 440/12 - Width 11 in., length 29 in., height 2 ft.



440/2

440/2

**Warning Signal with movable arm** - Star head - Operation, lighting, and cables same as signal 440/1 - Light changes from orange/orange to green/green - Suitable for use with home signal 440/12 - Width 11 in., length 29 in., height 2 ft.

440/3

**Warning Signal with movable arm and movable eye** - Two double semaphore switch machines - Light can be set as in signal 440/1 or 440/2 - 2 blue cables with red, green, and orange plugs with cross cables - Suitable for use with home signal 440/13 - Width 11 in., length 29 in., height 2 ft 6 in.



440/3



**MARSHALL**  
**SIGNALBUCH**  
Signal Book, a detailed and well illustrated book of instructions for signals of the 440 series, in English language.

Signals 440/11, /12, /13, /14, and /15 are equipped with two automatic double breakers which, in the case of closed signals, interrupt the current for the overhead wire and center rail. Silver contact tongues are built into the signals, and these are made to withstand heavy loads of electricity. Supplied with these signals are circuit breakers 440/2. These are used to interrupt the current to the center rail and create the necessary dead section. The aforementioned signals are actuated through double solenoid switch machines except for signal 440/13 which has a three-way solenoid switch machine. The switch machines and signal lights receive current through a yellow cable with yellow plug with cross cables. The current is lead away from the signals through the blue cables with red and green plugs with cross cables. The latter may be connected to a control plate for remote control operation or to a control track position for fully automatic operation. The two red cables have contact tongues for connection to the center rail. Each signal has two sockets into which plugs from the signal heads may be inserted. This will interrupt the current to the overhead wire if the signal is closed. The main and solenoids are so placed within each signal that two signals (semaphore and panel block signal, semaphore and warning signal) may be placed close together as is done on prototype roads.

Detailed instructions about the installation, operation, and use of these signals are contained in the MARSHALL Signal Book 440/19.

## Signals with Train Stopping Device for operation from central rail or catenary



444/11

Semaphore with single arm - light changes from red to green - Width 1 in., length 2 1/2 in., height 5 in.



444/12

Semaphore, double arm, two positions - light changes from red to green/orange - Width 1 in., length 2 1/2 in., height 5 in.



444/13

444/12

Semaphore, double arm, three positions - Operation, maintenance, and train stopping device similar to all other signals, but with third position - Current is fed back from third solenoid through additional blue cable with orange ring with area socket - The three positions, thanks to the mechanical extension, are set by actuating only one solenoid in each case - Light changes from red to green, or from red to green/orange - Width 1 in., length 2 1/2 in., height 5 in.



444/14

Color Light Signal - light changes from red to green - Uses bulbs 40W red and 40W green - Additional lever permits manual operation - Width 1 in., length 2 1/2 in., height 5 in.



444/21

First Black Signal - Mast with movable disc at front and rear of signal - Width 1 in., length 2 in., height 2 1/2 in.



5444/42

Center Rail Crossing Cable, length 20 in.



5441/2

Group bracket, center rail, for insulating 3 places.



5440/1

Mast for insulating places on the top rail when there is a circuit breaker.



## Remote Controlled Turntable



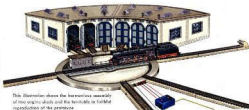
400 H

Turntable set, consisting of Turntable 400 H with an outside diameter of 14 1/2 in. operating in both directions - Remote controlled, one-foot plate 4004, and rails - Suitable for use with two engine sheds 401 B or three engine sheds 402 - Rails with good rails and center lines - When table is turning, a red warning light flashes - Power to the tracks of the engine shed is available only when the turntable is fixed in its position with them.



401 B

Engine shed with 3 tracks, chimney, sky lights, interior illumination, and 3 automatically closing doors - Colored - Size 10 1/2 x 12 in. - Height 3 1/2 in. (Track sections not included)



This illustration shows the turntable assembly of two engine sheds and the turntable in its fixed reproduction of the prototype.

402

Engine Shed with automatically closing room for 2 tracks - With sky lights, cut-out windows (illumination, tracks, and satisfactory not included) - Provides for interior lighting through 2 station lights 401 H - Size 10 1/2 x 12 in. - Distance between centers of rails 30 in.

401 H

Overhead Quill for Engine Shed 402



# Automatic Grade Crossings

MARLIN



## 427 MD

**Fully Automatic Grade Crossing** - The set consists of 2 electrically operated gates with weatherman's cabin, warning device with lights, and a set of contact track sections. The grade crossing is operated automatically. When a train approaches, the gates close and the warning lights light up. After the train has passed, the gates again open and the lights extinguish.

With the set of the double track set 427 DD, the automatic grade crossing can be used as 2 or more track lines.



Grade Crossing 427 MD with 427 DD for a double track line.



## 427 DD

**Additional track set** for a second track assembly of the set of contact track sections and connecting road plug 427 Z which is placed between the tracks.

**Contact Track Sections**  
 925-45 straight  
 925-55 curved



## 427 B

**Mechanically operating Grade Crossing** for single track line - Gates operated by the wheels of passing train - Weatherman's cabin and house - Warning cross illuminated by 2 red bulbs, which is lighted when gates are closed - Size 1 1/2 by 3 1/2 in.



## 427 Q

**Warning Cross** with red incandescent light to be placed before grade crossings - Set consisting of warning cross with trackman and plug, and of contact track section 925-45 - When the axle reaches the short center piece of the track, the red light glows - Height 2 in. - Size 1 1/2 by 1 in. - Length of contact track section 3 1/2 in.

# Everything by Remote Control



445

Modern Switch Tower with battery unit  
also blowing long and short notes. -  
Remote control (20 Vols) - Height about  
2 1/2 in. - Base plate 3 1/2 by 1 1/2 in.



446

Bell with electromagnetic oper-  
ation - Cable with metal plug -  
Height 2 1/2 in. - Base plate 1 1/2  
by 1 1/2 in.



447 G

Remote controlled Crane with Dis-  
integrator - 2 motors for lowering  
boom and raising or lowering the  
load - Remote controlled hook and  
sling make it possible to trans-  
fer metal objects without help from  
the human hand - Boom movable  
by manual lever - Searchlight on

*This wireless station can per-  
form anything from the lifting of loads,  
after the weighing measurements are  
completed, it begins to load or unload  
the freight cars. It is entirely up to  
the operator whether the load is  
transferred into another railroad car,  
into or from a truck, or into the  
hold of a ship. A whole world of  
activity is now possible for the first  
time for the operator for freight  
yard in exact imitation of the proce-  
dure by using accompanying wireless.*

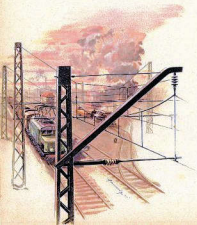
MURKIN

boom and illumination inside  
cab, may be turned on or  
shut off by remote control -  
Fully assembled - Height about  
2 1/2 by 3 1/2 in. - With one yard  
of cable and 2 control plates  
for remote control (Truck and  
rolling stock not included)



## The New **MARKLIN** Overhead System

HO



The MARKLIN overhead system can be erected with equal ease over the main line, the yards, or stations with any number of parallel tracks. The masts, together with the cross suspensions, catenary sections, and other accessories create a most realistic appearance. The masts are made of plastic and are extremely sturdy. The spring clips on the cross suspensions insure good conductivity of the current. The lower masts have been designed in such a manner that even the most extensive station yard can be equipped with overhead wires. The cross suspensions Q20 and Q200 can be inserted into the lower masts from 2 sides. Should a single track be located outside a lower mast, it can be equipped with overhead wire if the arm 2A is attached to the lower mast. Thanks to the sturdy connection between the masts and the cross suspensions and between the cross suspensions and the catenary sections, the entire overhead system becomes a solid unit. All catenary sections except 40P1 and 40P2 can be used with lower masts. The catenary sections are flexible and can be used over curved as well as straight track sections (with the exception of 40P 80).

## Parts of the Overhead System



Mast - Height 45 1/2 in -  
Basic mast

40P MA

Terminal Mast with 2  
cables and insulation  
for Quartered System -  
Height 45 1/2 in.



Bridge Mast -  
Height 45 1/2 in.

40P MB

Signal Mast - With 1  
cable - Height 45 1/2 in.



40P RB



40P R



40P F



40P FB



40P Y



40P B



40P Z



40P K



40P U



40P CP

## Nickel Plated Catenary Sections

40P CP Tightening Device

40P R Catenary Section, flexible 105 1/2 in. of length, basic section

40P RB Catenary Section, same as 40P R, but length 145 1/2 in.

40P F Catenary Section, flexible, with connections, 45 1/2 in.

40P FB Catenary Section, flexible, with connections, length 45 1/2 in.

40P FB Catenary Section, plug connection, 45 1/2 in.

40P Y Compensation Catenary, flexible, with connection, length 4 in.

40P U Catenary Circuit Breaker, flexible, plug connection, length 4 in.

40P K Catenary Crossover for 200A and 200 DC300, with connections

40P Z Catenary Connection to 40P, plug connection, length 4 in.

40P CB Overhead Cutoff for Signals which are not within the range of the cross compensation route, consisting of 2 Signal Masts (40P MA), 2 Catenary Circuit Breakers, and 2 Catenary Sections (40P FB) suitable for all signals with main stopping device.



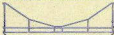
The tower mast is constructed of thermoplastic and is supplied with a mast cap and insulator, height sticks. Normally two masts are used to hold one cross suspension. On larger layouts, however, 3 masts can be used for 2 cross suspensions, it must be 3 cross suspensions, etc.

## Tower Masts and Cross Suspensions



400 03-05

Cross Suspension, staked pinned, for insertion into the tower masts - Spans about 4 standard track sections (3000) or 2 model track sections (2000) - Width 100mm.



400 03-06

Cross Suspension, staked pinned for insertion into the tower masts - Spans about 3 standard track sections (3000) or 4 model track sections (2000).



400 A3

**Overhead Connection Cable** - for connection of the signals to the overhead wire inside the yards or for conducting current to the overhead wire anywhere on the layout.



400 1

**Wireway Insulator** - isolates the wireway sections from the cross suspensions - One piece is required per track and cross suspension.



400 2A

**Arm** - if a single track is located inside the tower mast, it can be equipped with accessory if arm 2A is attached to the tower mast.

400 02

Set of tower and Mast consisting of 2 tower, 5 rails, 5 insulators - Usually the signal equipment is adequate for the isolation of the overhead wire - On rare occasions, however, two solitary sections can be joined only with wires and rails.



400 1

Single Mast of thermoplastic - Height 400mm.

## Realistic Bridge Construction

By using the different bridge pieces it is possible to construct bridges of any height or length. The bridge pieces fit into each other like parts of a construction set. Thus, by placing pieces 407 and 408 on top of the other, pieces of any height in stages of 1/4 inch can be constructed. Base plate 407 P2 is an ideal foundation for the pieces.



**408 A**  
Curved Ramp Section - Ordinary radius  
3/8" - Gray - Length 7 1/2 in.



**408 D**  
Straight Ramp Section  
Gray - Length 7 1/2 in.



**405**  
Plate Girder Bridge - Gray - Mounted track, 7 1/2 in. long - Allow for overlaid track 409 P48 - Height including base 1 in.



**404**  
Girder Bridge to be combined with standing by arched bridge - Gray - Mounted track, 7 1/2 in. long - Slot for overlaid track 409 P48 - Height including base 7 1/2 in.



**407**  
Arched Bridge with overlaid track.  
3 1/2 in. long - Gray - Slot for 3 overlaid tracks 409 P48 - Height including base 4 1/2 in.



**407 P2**  
Bridge Pier 1 1/2 in. high, of two appliances.



**407 P4**  
Pair of Rails - Height "depends" on the height of bridge pieces which are constructed in stages 1/4 in. - Of two appliances.



**407 P3**  
Base Plate to be used for foundation - Green - Height 1/4 in., of three appliances.



**437**  
Platform with corrugated roof  
and bench - Base 8 by 19 1/2 in. -  
Height 2 1/2 in.



Station with tower and clock - Cut-out windows - Clock with ferris  
windows made of cotton glass - Base 14 by 24 1/2 in. - Height 4 1/2 in.



**434**  
Station with freight shed and service - Cut-out  
windows - Slide windows with cotton glass and  
clock - Shed with sliding door - Base 10 1/2 by  
1 1/2 in. - Height 2 1/2 in.



**435**  
Keeper's Hut with cat and  
window - Operating sign  
and coal gate - Base 4 by  
24 1/2 in. - Height with sign  
4 1/2 in.



**444**  
Foot Bridge with 2 movable  
sections - Width 8 in. -  
Height 4 in., with signposts.



**433/1**  
Tunnel of rocky ground - Can  
be placed over all straight and curved  
track sections including those equip-  
ped with overhead wire - Length  
24 in., width 24 1/2 in., height 5 in.



**436/2**  
Station light with bulb 499 shown and cable -  
Used for illumination of stations, sheds, etc.



**432**  
Freight Station with 2 sliding  
doors - Height 2 1/2 in. - Base  
7 by 24 1/2 in.

**437**  
Loading Platform  
with movable  
scale - Base 2 1/2  
by 24 1/2 in.



**441**  
Traveling Crane - Travels  
on rollers - Raising cap-  
boom and hook operated  
by cranks - Base 4 by 24  
in. - Overall height with  
out boom 4 1/2 in. - Length  
of boom 24 in.



**433**  
Signal Base A, for  
use with footbridge  
signal 433 -  
Height 1 in.



**437**  
Signal Base A  
set of 3 - Height  
of each 1 1/2 in.



**432**  
Mast arm Signal  
with spring  
lenses - Height 2 1/2 in.



**440**  
Semaphore  
with oper-  
ating lever -  
Height 4 1/2 in.



Arm Signals  
Height 5 in.

**440/1**  
2 bulbs  
with bulb 499, cables  
and plugs



**442**  
Breasting Crane - Cable runs  
on base - Boom and hook  
operated by cranks - Base 2 1/2  
by 24 1/2 by 1 in. - Length of  
boom 24 in.



# The Modern Station Set



419-423

Set consisting of one station main building 419, one station 415, and 1 station platform 423, passenger trains and freight cars. This set shows how the various parts complement each other. Only now it is possible to reproduce stations as replicas of the real thing. Trains and rolling stock are not included in the price of the set. The set may be used either as a through station or as a terminal station. It can be enlarged as desired. All parts of the set can also be used independently of each other in order to create stations and life, see 404-G are recommended. These sets contain pretty little figures of railroad personnel, passengers, etc.



404-Ga, Gb, and Gc

Sets of Figures available in three different sets a and b = travelers and railroad personnel, c = construction workers - 12 figures per set - Figures about 7/16 in. high.



419

Main Station Building with recessed and terrace roof - Colored windows with cotton glass - Operating doors - Dining clock - Removable roof - Provision for interior illumination with light socket 401-H - Tastefully colored - Height 4 1/2 in. - Length 20 1/2 in. - Width 5 1/2 in.



415

Station Building (street side) - May be used independently or as an extension to station 419 - Colored windows with cotton glass - Operating doors - Provision for interior illumination with light socket 401-H - Height 2 1/2 in. - Base 17 1/2 by 5 1/2 in.



423

Station Platform with roof - Designed for use with stations 415 and 419, but may also be used independently - With working man, underpass with stairs, bulletin board, and bench - Length 20 1/2 in. - Width 2 1/2 in. - Height 2 1/2 in.



# The New Miniature Mechanical Train in H0 Gauge



S 8751

Passenger Train Set with locomotive S 8751, S 8752 with tender - 3 coaches S 8753 - 8 track sections S 8754. Length of train 15 in.



S 8752

Freight Train Set with locomotive S 8751, S 8752 with tender - 2 freight cars, 8 track sections S 8753. Length of train 14 in.

S 8753

Mechanical locomotive - Full black - Streamlined body - 240 "Streamlined tender - Plastic wheels - Manual control for stop and go as well as forward and backward drive - Sturdy clockwork motor - Length including tender 7 1/2 in. - Weight including tender about 8 oz.

*Mechanical locomotives always have been very popular. They are noted for their long running ability and pulling power. The locomotive and coaches have plastic bodies and full-size wooden streamlined frames. They can have the same complex as set and with plastic trains. The track sections are easily measured so that they can be used in electric locomotives.*

S 8754

Great Coach - 4 wheels - Green - Length 4 1/2 in.

S 8755

Great Coach, same as S 8754, but red

## Track Sections, diameter 34 in. - A Circle consists of 8 sections S 8756



S 8756  
Curved Track Section, length 9 in.



S 8757  
Straight Track Section, length 9 in.



S 8758

Set for connecting straight track sections S 8757 for electrical operation - Consists of 1 straight center rail, 2 contact fingers, 4 insulating plates

S 8759

Set for connecting curved track sections S 8756 for electrical operation - Consists of 1 curved center rail, 2 contact fingers, 4 insulating plates

# Mechanical Trains of the large O Gauge



**R 180**

**Passenger Clockwork Train** - Consists of locomotive R 180, Tender 1720, 8 curved track sections 1628, and brake and reverse switch 1628 BU - Length of train 34 1/2 in.



**R 180 D**

**Passenger Clockwork Train with locomotive R 180**, Tender 1720, 8 curved and 4 straight track sections, and brake and reverse switch 1628 BU - Length of train 37 1/2 in.

**R 180 D D**

Same train with the cars 1720 and 1728, operating doors.

**R 180 D D D**

**Passenger Clockwork Train with locomotive R 180**, 1 baggage car 1728, 2 coaches 1720, doors to open, 2 straight and 8 curved track sections, 1 full straight track section, 1 brake and reversing switch 1628 DAA - Length of train 37 1/2 in.

*Please interested in further information about it must consult with their dealer for the correct reading it.*

**R 180**

**Locomotive with tender** - Black - 3-4-0 - Solid wheels - Runs forward and backward - With brake - Brake deflector - With rails and side rails - Length including tender 18 in.

**R 180**

**Locomotive with tender** - Doll track - May be operated either from the side or automatically with the rail - Length with tender 18 in.

**R 180**

**Locomotive with tender** - Doll track - With especially powerful clockwork - Consists with tender - Running from rail or rail - Tender loaded with coal - Length including tender 17 1/2 in.



**BY 180**

**Mechanical Locomotive**

3-4-0 - Black iron - Runs forward and backward with manual reverse or automatically from track - With brake - Cut-out windows - Green - Length 18 in.

**Track sections for Clockwork Trains** - Diameter of circle 38 in. - Sections 1628 comprise a circle - Length of the full, straight track section 30 in.



curved

1628 DAA full  
1628 DAA full  
1628 DAA quarter



straight

1628 DVA full  
1628 DVA full  
1628 DVA quarter  
1628 DVA full

**1628 BU**

**Pair of switches without tenders**



Right hand switch



Left hand switch

**1628 BU**

**Brake and Reversing Switch**

**1628 DAA**

**Brake and Reversing Track Section (1/4 section)**



**1628 K**

**Crossing**

## The large O gauge

This booklet shows the entire O gauge collection of locomotives, cars, rolling stock, and accessories (also for electric operation). Published in two languages - available from all authorized dealers.

## Miniature Automobiles of Thermoplastics for Use with H0 Gauge

*Scale Reproductions of their prototypes. Each model is available in several colors. These autos have been designed specifically for dressing, detailing, and completing model railroad layouts.*



8853 Volkswagen - Length 2 1/4 in.



8852 Porsche - Length 1 1/2 in.



8851 Mercedes 300 - Length 2 1/2 in.



8854 Datsun - Length 2 in.



8855 German Ford "Truppen 12 M" -  
Length 2 in.



8857 Mercedes Truck, 1 1/2 ton -  
Length 2 1/2 in.



8853 E Volkswagen Delivery Van, 1 ton - Length 2 in.  
8853 M Volkswagen Delivery Van, 2 ton - Length 2 in.



8858 E Mercedes Bus,  
1 ton - Length 4 in.  
8858 M Mercedes Bus,  
2 ton - Length 4 in.

## Die-cast Miniature Autos, Suitable for Use with 0 Gauge

MARSHLIN

*Scale models with all prototype details reproduced • Available in various colors • Rubber tires*



33041 S

Mercedes 300 • Die-cast • Length 4 1/2 in.

33061 P

Same model, but in thermoplastics and with cast of metal • Length 4 1/2 in.



3334-10

Truck • Die-cast • Length 4 in.



3334-10

Trailer • Die-cast • Four axles with loads on lower 2 axles • Length 4 1/2 in.



3331-07

Semi-trailer tank truck • 4 axles • Type BP Axle • Trailer detachable • Plastic body • Length 4 1/2 in.



3331-05 P

Farm tractor with driver • Plastic body • Rubber tires • Realistic details • Length 3 1/2 in.



3331-02 P

Sedan • Reproduction of 1947 Buick Super Sedanette • Plastic body • Length 4 1/2 in.

3331-02 S

Same model as 3331-02 P, but die-cast and without axle.

# MARKLIN

MARKLIN Steam Engines have always been among the most eagerly sought educational toys. They illustrate the conversion of heat to mechanical energy. Steam engines equipped with dynamos add to this one more function and show the conversion of mechanical energy into electrical energy in that light can be produced. By using a rheostat, it is possible to operate several working models. All engines are equipped with a safety valve and wired under pressure. They will operate properly in factories depending on how the product is stored.



4095/3

Steam Engine - Polished Brass Boiler, diameter 1 1/2 in., safety valve, water gauge, pressure indicator, single acting cylinder, flywheel, governor pulley, stationary with vibration dampers - Height 10 in., base 8 by 10 in., weight 3 lbs.

Models 4095/3, 4095/5, and 4095/6 have brass hot oil fuel and fan blower. All other models are equipped with sloped burners only.

4095/5

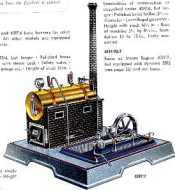
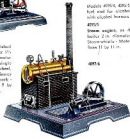
Steam engine, as 4095/4, but larger - Polished brass boiler 2 in. diameter, with steam tank - Safety valve - Governor valve - Water gauge etc. - Height of stack 15 in. - base 11 by 11 in.

4095/6

4095/4

Steam Engine: Polished Brass Boiler, 2 1/2 in. diameter - With steam tank - Weight and base adjustable - Steam cylinder - Pressure gauge - Water gauge - Water drain tap - Check tap - Stationary single acting cylinder with lubricating oil - Governor valve - Governor pulley - Weight with stack 10 1/2 in., base 10 by 12 in.

4095/5/6 Steam or Steam engine 4095/6, but with dynamo 3092 (see page 22) and one lamp



4095/6

Steam engine, as shown below - Construction of construction is described under 4095/4, but larger - Polished brass boiler, 2 1/2 in. diameter - Centrifugal governor - Height with stack 15 in. - base of machine 14 by 18 in., foundation 12 by 12 in., early assembled.

4095/5/6

Same as Steam Engine 4095/5, but equipped with dynamo 3092 (see page 22) and one lamp.

4095/7

# Steam Engines

MURKIN

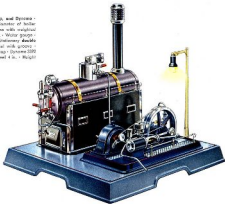
## 405110

Model Steam Engine with Fire Tube Boiler, Feed Pump, and Dynamo - Fire tube boiler of brass, welded in steel base - Diameter of boiler 3 1/2 in. - Length 10 1/2 in. - Steam whistle - Steam valve with weighted safety valve - Check top - Pressure gauge - Inlet tank - Water gauge - Drain cock - Safety checked burner - Filling screw - Stationary double acting cylinder with lubricator - Reversible - Flywheel with grooves - Grounded pulley - Centrifugal speed regulator - Feed pump - Dynamo 3000 and arc lamp - Base 11 by 13 in. - Diameter of flywheel 4 in. - Height with tank 10 1/2 in.



## 3200

Dynamo, generator alternating current - Full magnet - Two phase induction - Grounded pulley - Break holders - Coil housing - Generator 1.8 volts, 0.2 amperes at 4000 revolutions per minute - Base 3 1/2 by 7 1/2 in. - Height 2 1/2 in.





# METAL

# MÄKLIN

The MÄKLIN Metal Construction Set, following the latest scientific developments contains many parts each of which has many varied uses. It opens to the youngster the gates to scientific knowledge creating a desire to invent and design.

MÄKLIN Metal Construction Sets make especially valuable gifts because of the possibility of constantly adding to their size. With a minimum of tools a wealth of realistic models can be constructed. These can be set into motion using the motors shown on page 62. A richly illustrated book of instructions is supplied with every set. This simplifies the assembly of models and encourages the youngster to experiment and design models of his own.

This is one of the great achievements of MÄKLIN construction sets: to awaken and give an outlet to a youngster's inventive drive. Many a great engineer has discovered his talents through these sets. The size and capabilities of each set can be increased through supplementary sets (see page 62) and additional single parts.



# Construction Sets

Shown here are the smaller starting sets. The many parts contained in these sets are of equal quality with the parts of larger sets. The instruction books contained in each set illustrate numerous realistic models some of which are shown here.



99

## Basic Set No. 99

Contains 126 construction parts plus 39 metal clips, totalling 165 parts. Size of box 12 1/4 by 10 1/4 by 3 1/4 in. Weight 2 lbs.

To be increased to basic set 100 by supplementary set 99A.



100

## Basic Set No. 100

Contains 166 construction parts plus 42 metal clips, totalling 208 parts. Size of box 16 1/4 by 12 1/4 by 3 1/4 in. Weight 4 1/2 lbs.

With this set the versatility and number of models which can be built, starts to increase. To be increased to basic set 101 by supplementary set 100A.





Basic Set No. 101

Contains 202 construction parts plus 28 metal clips, totaling 230 parts • Size of box 20 1/2 by 14 1/2 by 1 1/2 in. • Weight 5 lbs.

One of the most popular basic sets • Numerous models of all kinds made on beams, tracks, stoppers, frames, machine tools, tractors, and many others are easily constructed with the aid of the illustrated instruction book.

To be increased to basic set 102 by supplementary set 101A.

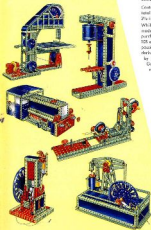


With set No. 102 the number of models which can be constructed is increased considerably. Some of the models like a diesel locomotive, a street car, wire suspension car, truck, bus, and tractor with trailer represent outdoor traffic. All kinds of cranes or hoist cranes, tower cranes (4), may be used for hoisting and unloading, whereas automatic presses, high speed drills, machine tools, show the ways of working materials, and finally illustrate the utilization of wind and steam power.



Basic Set No. 102

Contains 386 construction parts plus 47 metal clips, totaling 433 parts • Size of box 20 1/2 by 14 1/2 by 1 1/2 in. • Weight 8 lbs. To be increased to basic set 103 by supplementary set 102A.



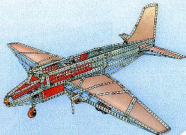
# **Model Set No. 101**

Contains 100 construction parts plus 10 metal plates, totaling 110 parts - Size of box 20" by 14" by 2 1/2". - Weight 11 1/2 lbs.

While the smaller sets enable the owner to build models which are operated by hand or separately purchased electrical or mechanical motors, sets 101 and up contain electrical parts which make it possible to build operating motors. The pleasure derived from the operation of self designed models by electromagnets is not less great. A "Short Guide Through Electricity" illustrates the nature and uses of electricity to study unobtainable forces.

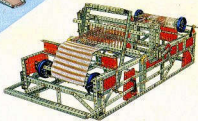


To be increased to Model set 104  
by supplementary set 100 A.



Airplane with retractable landing gear -  
Built with metal construction set 100

Hand loom, another manifestation of metal  
craft - the educational model built with  
metal construction set 100



## Basic Sets

Great versatility, unlimited possibilities in construction

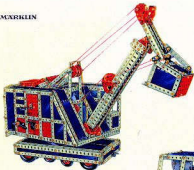


### Basic Set No. 128

Contains 700 construction parts plus 100 metal clips, totalling 1000 parts • Size of box 24 by 16 1/2 by 2 1/2 in. • Weight 14 lbs.

The versatility and variability of the models which can be built with the various sets begins to reach a peak in set 104. As an almost perfect scale reproduction of its prototype, every model immediately suggests several illustrations and detailed sketches to show all details that can be built without difficulty by the versatility of the parts. The number of examples shown for this set in the instruction book will make it difficult for the owner to decide which model to build first since the possibilities of this set are almost unlimited. To increase to nearly set 100 by complementary set 105A.

## MARILIN



*Bucket loader, most robust construction - All movements of the prototype are reproduced - This model, a challenge to the young engineer, is built with metal construction set No.*



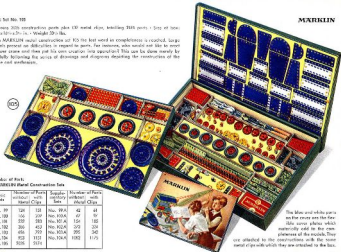
*Auto Transport for Volkswagen van - Model about 12 in. long - Built with metal construction set No.*

# Book Set No. 101

Containing 200 construction parts plus 130 metal clips, totaling 330 parts • Set of four 20-in.-x10-in.-x1-in. • Weight 20½ lbs.

With MARLIN metal construction set NO. 101 the last word in completeness is reached. Large models present no difficulties in regard to parts. For instance, who would not like to erect a tower crane and then put his own creation into operation? This can be done merely by carefully following the series of drawings and diagrams depicting the construction of the frame and mechanism.

MARLIN



Number of Parts  
in MARLIN Metal Construction Set

Book Set	Number of Parts without Metal Clips	Number of Parts with Metal Clips	Number of Parts without Metal Clips	Number of Parts with Metal Clips
No. 99	128	138	No. 99-A	42
No. 100	146	207	No. 100-A	67
No. 101	330	360	No. 101-A	154
No. 102	390	450	No. 102-A	279
No. 103	494	759	No. 103-A	395
No. 104	832	1112	No. 104-A	1002
No. 105	3036	3376		

The blue and white parts on the cover are the flexible curve parts which naturally add to the completeness of the models. They are attached to the constructions with the same metal clips with which they are attached to the box.

## Motors for operating models built from Metal Construction Sets

While it is an exciting experience for the youngster to build the many models shown in the numerous books of this part, for us parents, and even for grandparents, there is the joy of seeing them in motion by using motors, electrical or mechanical. The three motors shown below are built so that they can easily be fitted into any of the models constructed. The smaller models use the mechanical and small electrical motor, while the national electric motor is built for the largest type of models. Here is another example of the high educational value of AKA & LHM Metal Construction Sets and their unlimited possibilities of construction and operation.



### Mechanical Motor



201 P

**Mechanical Motor** operates forwardly and backwards - 2 speeds - Drive axle with set screw - Brake lever - With key and manual parked in center - Height 4 1/2 in., width 2 1/2 in., depth 1 1/2 in., weight 12 oz.



1001 G

**Electric Motor** - Reversible - Speed about 15 r.p.m. - Operates on 30 volt. range with built-in WAKOUM transformer - 2 cables 4001 (red and brown) isolated - Size 2 1/2 by 2 by 2 in. - Weight 4 oz.

### Electric Motors



1002 G

**Universal Electric Motor** - 30 volts - With rubber and metal parts for connecting by remote control - 2 pulleys operation at different speed controlled from transformer - Speeds approximately 1000 and 1800 r.p.m. - Reversely powered motor suitable for the largest models used for dynamics and miniature tools of all types - 3 plugs - Size 2 1/2 x 4 x 2 1/2 in. - Distance between pulley 3 1/2 in. - Weight 15 oz.



## Supplementary Sets

Any basic set can be transformed into the next higher basic set through the purchase of a supplementary set whose contents, when combined with the smaller basic set, equal those of the next higher basic set. Thus, if set 101 is owned, and it is desired to improve it to the level of set 102, one needs to purchase set 102 A.



Supplementary Set No. 102A

In short:

Basic Set No. 99 plus Supplementary Set 99A equal Basic Set 100  
 Basic Set No. 100 plus Supplementary Set 100A equal Basic Set 101  
 Basic Set No. 101 plus Supplementary Set 101A equal Basic Set 102  
 Basic Set No. 102 plus Supplementary Set 102A equal Basic Set 103  
 Basic Set No. 103 plus Supplementary Set 103A equal Basic Set 104  
 Basic Set No. 104 plus Supplementary Set 104A equal Basic Set 105

### Individual parts

If the parts contained in MARX189 sets do not suffice to construct a planned model, or if the student wishes completed by special parts not contained therein, supplementary parts may also be purchased individually. A special list illustrating all parts, if not the parts themselves, is available from every MARX189 dealer.

Some of the individual parts of the gross parts assemblies, these parts are available through any MARX189 dealer.



# Electrical Experimentation Sets

**MURKIN**

**MURKIN-500** are low voltage electrical experimentation sets of great educational value. They have easily surpassed all expectations. Through them the principle is introduced to the student of magnetism and electricity in a fascinating way. The special parts contained in our **MURKIN-500** make it possible to construct radio receivers and other complete telephone systems. Detailed vividly illustrated instruction books. As a source of power, a flashlight battery, transformer **110V-5V** with taps from 4 to 25 volts or a single phase model national transformer may be used. The results can may be observed in the slot of the set larger set in a manner similar to it **ELECTRIC Model Construction Set**.



## **ELEX 500**

Basic Set with instruction book for about 80 experiments • Size allows 10 x 8 in.

## **ELEX 500 A**

Supplementary Set transforms the set into basic set **ELEX 500**



## **ELEX 500**

Basic Set with instruction book for about 100 experiments • Size of box 12" by 9 in.

## Supplementary Set

## **ELEX 500 A**

Transforms the set into basic set **ELEX 500**



## **ELEX 500**

Basic Set with enlarged instruction book for over 140 experiments • Size of box 12" by 11 in.



## **110V-5V**

Experimentation transformer • Construction for 4 to 25 volts (AC) • Capacity 10 VA • Full control lamp • Yellow and white, plastic safety package of latest design

Here are a few examples of exciting models built from **MURKIN-500** sets



Morse Telegraph



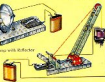
Electric Motor



Telephone



Lamp with Reflector



Crane with electric magnet

# The Popular **MARKLIN** Auto Construction Kits

This set contains all the necessary parts for the construction of the Mercedes-Benz racing car shown below, including the clockwork motor and driver - Realistic appearance - Steered front wheel - Kine action - Powerful clockwork motor - Length of car 14 1/2 in.

**Racing Car** - Built from set 1101 -  
Finished model with clockwork  
motor and driver.



**1101** **Racing Car Construction Set** - Disassembled car -  
In cartons - With clockwork motor, driver, and full instruction for  
the construction of the illustrated racing car.

Those interested in a larger auto construction kit, should purchase the chassis kit 1101 C which will serve as a basis kit for the various models. With it a realistic chassis 14 1/2 in. long can be assembled piece for piece.



**1101 M**  
**Mechanical Motor**, specially  
designed for chassis 1101 C



**1101 C**  
**Chassis** - Length 14 1/2 in.

All important components, such as the frame, springs, differential housing, universal joints, steering mechanism, etc., are pre-set and can be easily assembled as shown in the detailed and richly illustrated instruction book which is furnished with every chassis kit. The motor 1101 M provides long steady power. It is not furnished with the chassis kit and must be purchased separately.

Any of the bodies shown at the right can be built on the completed chassis. A choice too, however, one who design and build his own bodies from cardboard, wood, or other materials. The auto construction sets, therefore, will provide versatile entertainment for a long time.



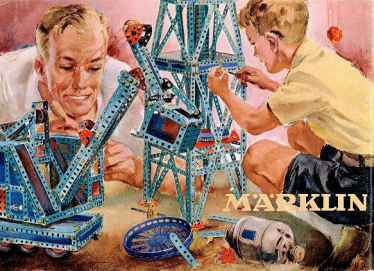
**1101 R** **Racing Car Body**



**1101 ST** **Streamlined Body**



**1101 L** **Truck Body**



MARKLIN