ELECTRIC TABLE
RAILWAYS MARKLIN

Gauge 00 = 16.5 mm (H0)

Sensational developments and innovations:

1. Elaborate track plans and layouts
   on smallest space.

   12 sections of scale track form an oval of only 29½ in. of diameter.

2. Two trains work independently on the same track,
   both operated by remote control. Transformers with new speed regulating device, thermostatic circuit breaker,
   warning light and connections for accessories. Maximum of safety and dependability.

   Turn tables, block signals, level crossings, uncouplers etc. everything operating by electric control at any distance.

4. Single pole connecting wires.
   The latest innovation. Simplifying the connecting of tracks, accessories etc. A leaflet providing instructions for
   the new system is supplied with every connecting board.

5. Third rail track and overhead wire
   guarantee incomparable conductivity. Just like real electric railroading. Any kind of track plan including reversing
   loops can be realised without risk of short circuit troubles. Scale railroad track, realistic roadbed, embossed
   ballast grit and multiple number of ties. New switches of highest engineering precision by remote control,
   crossings etc. create a most realistic and dependable layout. Outstanding quality withstanding rough handling
   and minimizing distortion.

   A fine array of locomotives and cars, master pieces of accurate workmanship, perfectly engineered proportions.
   In every detail true reproductions. Maximum wear and great durability are the main features of the new MARKLIN
   Super Models.

The transformers are made for alternating current only and cannot be used on direct
current. Inverters for direct current are not manufactured at the present time.
SK 800 N
Many railroad companies have in the recent years purchased or built streamlined steam engines to haul their heavy crack passenger trains. One of the best examples of this type is the 4-8-4 streamliner of the German State Railways which reaches speeds up to 130 miles per hour due to its smooth lines.

In order that the model may negotiate the sharp curves of our layout better, we have reconstructed it as a 4-6-4 type. Pilots at both ends insure smooth operation. The exposed wheels and valve gear increase the beauty of the model.

SUPER-MODEL HR 800 N

Electric Locomotive (Steam Type) with tender, dull black, 4-6-2, tender with 8 wheels, unbreakable cast body, 2 electric headlights.

Motor with reduction gears, great power, beautifully reproduced valve gears, accurately reproduced drive-wheels, well constructed pilot truck with spokes and spring support to guard against derailment.

Remote Control for reversing, reliable operation for forward and reverse, also a lever for reversing by hand.

Length with tender including couplers 11 in. (28,6 cm).
Weight about 2 pounds.

HR 800 N

This is a reproduction of one of the most widely used express locomotives. It is a scale model of the 01 series of the German State Railway. Above illustration has been reversed in order to show all the details. The pumps, whistle, and smoke deflectors can be clearly seen in the illustration. The beauty of the model is further enhanced by the new and improved wheels, the pretty valve motion, and the new headlights. The tender has new cast trucks with spoked wheels. Further details at the left.

The transformer 270 AN is necessary for connection with the house current. (110, 125 or 220 Volts A.C.)

When ordering, please specify which.
SUPER MODELS 00 Gauge (16.5 mm) 20 Volts

MS 800
On electrified roads an increasing number of streamlined locomotives are being placed into service. The German State Railway now uses a large number of electric engines type E 18 of which the above is a scale model. Such engines are suitable for pulling heavy trains over long hauls and mountainous country. Because the construction allows for some play in the main axles the engine can easily negotiate any curves. This model is one of the great achievements in miniature railroading.

SUPER MODEL CCS 800
Electric Locomotive, green, 2–6–6–2, unbreakable cast body with fine detail, true to scale, red and white lights at both ends which burn according to direction of travel, windows with celluloids. Working scale pantographs. Optional operation from overhead or 3rd rail by means of an inconspicuous lever.
Motor is especially powerful with worm gears driving all 12 drive wheels, reliable operation of the remote control reverse, also reversible through inconspicuous hand lever.
Length including couplers 10½ in.
Weight about 3 pounds.

SUPER MODEL MS 800
Electric Locomotive, grey-green, 2–8–2, unbreakable cast body, streamlined form, celluloid windows, exact detail (model pantographs with soft springs). Conductor wires, isolators, roof walks, gas compressors, 2 electric headlights at each end, always burning according to direction of travel.
Motor with reduction gears, heavy capacity, drive wheels which are exact reproductions of the actual engine's wheels, pilot trucks with springs to prevent derailment.
Remote Control for reversing, reliable operation, inconspicuous lever for hand reverse. A second inconspicuous lever for selecting pantograph or third rail pick-up.
Length including couplers 7 in.
Weight about 2 pounds.

CCS 800
This is a scale model of the internationally famous Swiss mountain locomotive which pulls long freight and passenger trains over difficult terrain, especially the Gotthard Line where it must master many curves and tunnels in addition to heavy grades. The engine is built in 3 sections so that it may adapt itself to the sharp curves. This fact has given it the nick name of "Alligator".
Our model is also built in this manner. It therefore can negotiate the sharpest curves without trouble. The prettiest sight in model railroading is to observe the operation of this model, especially in slow motion. One may then marvel at the operation of the drive shafts.

The transformer 270 AN is necessary for connection with the house current. (110, 125 or 220 Volts A.C.)
When ordering, please specify which.
ELECTRIC LOCOMOTIVES 00 Gauge (16.5 mm) 20 Volts

These models are somewhat simpler in construction. However, they also possess great power and are reliable in operation and sturdy in construction.

Transformer 270 AN is necessary for connection with the house current (110, 150 or 220 Volts A.C.).

When ordering, please state voltage.

RS 800 N
Electric Locomotive 0-4-0, powerful motor, remote control for reversing, optional operation from overhead wire or 3rd rail. Unbreakable cast body, green, small details are finely reproduced. 2 electric headlights, 2 working pantographs. Celluloid windows. The ideal engine for the beginner. Simple operation. Length 5½ in., weight 5½ lb.

ES 800
Electric Locomotive, 2-4-2 improved motor, remote control, optional operation from overhead or 3rd rail, unbreakable cast body, green, 2 electric headlights, celluloid windows, working new type pantographs. Length including couplers 5½ in., weight about 1 lb.

T 800
Tender Locomotive with electric motor. Solid construction, great capacity. Remote and manual control for reversing. Unbreakable cast body, black, 2 electric headlights, especially suited as a switcher. Simple operation in a layout containing uncoupling tracks. Length 5½ in., weight about 5½ lb.

HS 800
Electric Locomotive, 2-6-2, a simplified model of the German State Railway Electric Locomotive type E 18. Remote and manual control for reversing. Optional operation from overhead wire or 3rd rail. 2 electric headlights. Cast body, green celluloid windows, working pantographs. Length including couplings 6½ in., weight 1½ lbs.
All sets are packed in heavy cardboards boxes. Detailed instructions are included.

**ES 841/4 Passenger Train**
comprising locomotive ES 800, 3 passenger cars 341–343, baggage car 344, oval of 12 curved and 10 straight tracks including connecting track, track layouts booklet. Length of train 35 in.

**HS 841/4 Express Train**
as express train HR 841/4, but with locomotive HS 800.

**T 865/4 Freight Train**
comprising locomotive T 800, 4 freight cars, oval of 12 curved and 6 straight tracks including connecting track, track layouts booklet. Length of train 50 in.

**RS 927/4 Passenger Train**
comprising locomotive RS 800, 3 passenger cars 327, baggage car 328, oval of 12 curved and 6 straight tracks including connecting track, track layouts booklet. Length of train 20 in.

**SK 851/4 Pullman Train**
comprising locomotive SK 800, 4 Pullman cars 351–354, oval of 14 curved tracks including connecting track, 21 straight tracks, 2 switches, push button, distributor plate, 5 wires, track layouts booklet. Length of train 48 in.

**HR 841/4 Express Train**
comprising locomotive HR 800, 3 passenger cars 341–343, baggage car 344, oval of 14 curved tracks including connecting track, 21 straight tracks, 2 switches, electric block signal, 2 push buttons, 2 distributor plates, 5 wires, track layouts booklet. Length of train 43 ½ in.

The transformer 270 AN is necessary for connection with the house current (110, 125 or 220 Volts A.C.).
When ordering, please state voltage.
MARKLIN THE NEW MODEL TRACK AND SWITCHES For 00 Gauge

Tracks of galvanized steel, ties with bolts, trouble-free contact tongues, rock ballast road bed.

Extended experimentation have led to the design of the track sections and switches shown here. The pretty road bed together with the large number of ties, creates a true picture of an actual right of way or yard. A circle consists of 15 curved sections and has a diameter of 30 in. including the roadbed.

276 AN Transformer
for perfect reverse, rheostat speed control (two zero positions), automatic short circuit cut-out, red control light, press button for reversing, connections for train, lights and electro-magnetic accessories. Capacity 55 VA.

Built and tested under the newest official regulations, therefore absolutely safe in use.

MARKLIN Transformers are supplied for 110, 125 or 220 Volts Alternating Current.
Please state voltage when ordering!

MARKLIN-Transformer 276 AN. For Alternating Current only!

Figure 3600/602 – 11 A 1/2
8 D 1/2, 1 AA.
Size 4 ft. 10 1/2 in. x 2 ft. 6 in.

Figure 3600/603 – 19 A 1/2
4 A 1/2, 1 K, 1 AA.
Size 5 ft. x 2 ft. 6 in.

Figure 3600/604 – 13 A 1/2
12 D 1/2, 1 pair points 3600 W, 1 AA.
Size 6 ft. 6 in. x 2 ft. 6 in.

Figure 3600/605 – 11A 1/2, 10 D 1/2
1 D 1/2, 1 pair points 3600 W, 1 AA.
Size 8 ft. 10 1/2 in. x 2 ft. 9 1/2 in.

Figure 3600/606 – 19 A 1/2
4 A 1/2, 6 D 1/2, 1 K, 1 AA.
Size 6 ft. 6 in. x 2 ft. 6 in.

Figure 3600/609 – Reversing Loop
13 A 1/2, 19 D 1/2, 2 D 1/2, 2 right-hand points 3600 WR, 1 AA.
Size 5 ft. 4 in. x 2 ft. 8 in.

Figure 3600/610 – 21 A 1/2, 15 D 1/2
6 D 1/2, 3 D 1/2, 2 D 1/2, 2 pair points 3600 W, 1 AA.
Size 5 ft. 11 in. x 3 ft. 3 in.

The points are held to the outside rails by soft springs. Derailment is impossible. Even a light vehicle may pass over a closed switch; afterwards the switch returns to its original position.

3500 WN Switches for Manual Operation (pair).
Faithful reproduction, with center piece etc. Lanterns without electric lights. Length 7 in. each.

3600 KN Crossover, length 7 1/2 in.

3600 MWN Electro Magnetic Switches (pair), length 7 in. each. Ground sockets, black cables for operation, yellow cables for lights in lantern, both with plugs, perfectly reliable operation.

6 Track Layouts,
Gauge 00, 24 pages, 8 1/2 x 11 in.
Only published in German.
FREIGHT CARS AND GOODS WAGONS 00 Gauge
SUPER MODELS made of unbreakable cast metals

Before one has held one of these models in his hand one can have no idea of their beauty. Instinctively one will take a looking glass and notice details which were hardly recognizable with the bare eye. See now carefully the cracks, grabirons, locks, and breakmen's cabins have been reproduced. Even the most spoiled model railroad fan will be delighted. Even the paint job has been chosen with much taste and skill.

The SUPER MODEL FREIGHTS go beautifully with our SUPER MODEL Locomotives. In order to enable the smaller engines to haul a long string of these cars, it is advisable to oil the axles slightly with the finest sewing machine type oil.
FREIGHT CARS 00 Gauge
Simpler Construction, pressed Steel

371 Open Goods Truck
brown, with brakeman’s cabin, length 3½ in.

372 G Timber Truck
brown, with brakeman’s cabin, loaded with timber, length 3¼ in.

373 As above, without timber.

374 S Petrol Truck
yellow, lettered “SHELL”, with brakeman’s cabin, length 3¼ in.

375 ESSO
As above, silver painted, lettered “ESSO”.

391 Low Sided Goods Truck
bogie type, brown, length 7 in.

392 Timber Truck
bogie type, brown, with brakeman’s cabin, length 7 in.

381 Box Car
brown, length 3½ in.

382 Banana Car
yellow, length 3½ in.

361 Hopper Wagon
Talbot type, brown, cast metal, length 3½ in.

364 Open Goods Truck
Brown, low sides, length 3½ in.

366 Crane Truck
with revolving jib, winding gear, aluminium coloured, length 3½ in.

390 Goods Brake Van
green, with sliding doors, length 3½ in.

The New Coupling

All MARKLIN Locomotives and Cars are fitted with the automatic coupling, which has three main advantages:

1) All cars have the same couplings at both ends, so that the coupling is absolutely independent of the direction of the train.

2) Uncoupling, and shunting etc. can be made from a running train, and it does not matter in which direction the train is proceeding.

3) Trucks can also be uncoupled from a train at rest.

Uncoupling Rail in action: The uncoupling ramp has risen and the couplings are disengaged. For the new Uncoupler Rail Section 3600 EKN see page 10.
PULLMAN CARS Gauge 00

351 Passenger Coach
- green, cut-out windows with celluloid panes, removable roof, length 9 in.

352 Dining Car
- red, cut-out windows with celluloid panes, removable roof, length 9 in.

352 J Dining Car
- as above, international finish, blue.

353 Sleeping Car
- red, cut-out windows with celluloid panes, removable roof, length 9 in.

353 J Sleeping Car
- as above, international finish, blue.

354 Luggage Van
- green, cut-out windows, removable roof, sliding doors, length 9 in.

354 J Luggage Van
- as above, international finish, blue.

354 B Luggage Van
- with lights and contacts for train lighting.

Modern coaches on bogies
Accurately modelled and coloured

00

PASSENGER CARS AND LUGGAGE VANS Gauge 00

341 Passenger Car
- green, bogie type, cut-out windows with celluloid panes, length 7 in.

342 Dining Car
- red, bogie type, cut-out windows with celluloid panes, length 7 in.

342 J Dining Car
- as above, blue.

343 Sleeping Car
- red, bogie type, cut-out windows with celluloid panes, length 7 in.

343 J Sleeping Car
- as above, blue.

344 Luggage Van
- green, bogie type, with sliding doors, length 7 in.

344 J Luggage Van
- as above, blue.

344 B Luggage Van
- as above, with lights and contacts for train lighting.

327 Passenger Car
- green, 4 wheeler, cut-out windows, length 4 1/2 in.

328 Luggage Van
- green, 4 wheeler, with sliding doors, length 4 1/2 in.
RAILWAY ACCESSORIES Gauge 00

428 Goods Station with 2 sliding doors, base 6 3/4 in., height 3 in.

429 Loading Platform with moving crane, 5 1/2 in. x 3 1/2 in.

467 Bridge with fixed rails, length 7 in., as 3600 D.

458 EM Level Crossing barrier operated by electro-magnet, warning signal with red bulb, cable with metal plugs, complete with rails, 7 x 5 in.

463 Revolving Crane crane house revolving on base, crank for moving jib and winch, base 2 1/4 x 2 1/2 x 1 in., length of jib 5 in.

464 Travelling Crane mounted on wheels, revolving crane house, cranks for moving jib and winch, frame 4 1/2 in., height excluding jib 6 in., length of jib 5 in.

2038 B 2039 B 2039 G

2039 G Station modelled after the station at Stuttgart, consisting of the stations 2038 B and 2039 B. Total length 23 in., breadth 8 in., height of tower 14 in.

2039 B Station, left part of illustration, electrically illuminated, 2 lamps 20 volts with connecting cables and plugs, stamped walls, cut-out windows, entrance hall with celluloid window, passage, removable roofs etc. Base 14 1/2 in., height 7 in.

2039 B Station, right part of illustration, electrically illuminated, 3 lamps 20 volts with connecting cables and plugs, finished otherwise as 2038 B. Base 19 1/4 in., height of tower 14 in.

424 B Covered Station Platform with luggage platform, non-inflammable roof, electrically illuminated, 2 lamps 20 volts. Base 20 x 10 in., height 5 in.

414 Station cut-out windows, 2 doors to open, centre window with celluloid panes and clock. Base 10 x 5 in., height 3 1/2 in.

418 Station with tower and veranda, cut-out windows, 2 doors to open, clock and veranda windows with celluloid panes. Base 13 1/2 x 4 1/4 in., height 6 in.

MARKLIN

444 Footbridge with 2 moving signals, length 7 1/4 in. Height with signals 5 1/2 in.

453 Crossing Keepers Hut movable signal and barrier, hut with cut-out windows, base 4 x 3 in., height with signal 4 1/2 in.

454 Crossing Keepers Hut movable signal and barrier, hut with cut-out windows, base 4 x 3 in., height with signal 4 1/2 in.

462 Bumper stamped base with rails, length 2 1/2 in.

462 B Bumper as 462, with red signal light (red bulb 495) and cable with metal plugs.
Two independent trains on Three-rail track and Overhead line

The accurate design and realistic finish of all parts of our electric gauge 00 miniature railway and especially the overhead power feed locomotives which take their current from spring pantographs, well shaped masts, and the overhead rail of flat insulated metal strips, result in the achievement of a high standard of similarity to the working practice of real railways.

When two trains are to be controlled, one train takes its current from the centre rail, and the other train receives current from the overhead rail. In the latter case the current runs through the connecting set to the connection mast, and from this through the overhead pantograph of the locomotive to the locomotive motor; from here the current runs through the body of the motor, through the wheels to the running rails, thence through the body of the rail and foot of the connecting mast back to the connecting apparatus. In the case of trains taking their current from the centre rail the locomotive takes the current through the insulated centre rail, and the current takes the following path:—connecting apparatus, connecting rail, —centre rail, —locomotive shoe, locomotive motor,— and back by way of the body of the motor,—wheels,—running rails,—body of the rails to the connecting apparatus. Two overhead power feed locomotives can also be independently controlled on one rail because the current collectors of these locos can be switched over to take the current from either the overhead rail or the centre rail. These two methods of current feed result in the greatest possible reliability especially also as the result of the locomotives being fitted with "Perfect Reverse".

All track figures can be used for centre rail or overhead drive, even those with reversing loops.

The erection of the masts and assembly of the overhead rails present no difficulties, not even over points and crossings, as suitable overhead rail pieces are available. Any existing rail system can have overhead rails installed.

The New One-Pole System

Simplifies the construction of every layout and rules out any misconnection. The basic advantages of this system are:

Simplified connections through colour coated cables. Clear view over the construction of the entire set-up. Impossibility of short circuits, as the metal plugs can no longer come into contact with one another.

Every owner of a MARKLIN Gauge 00 Miniature railway can add the new tracks, switches, control plates etc. to his former layout and thereby combine both systems. Comprehensive instructions are included with each train.

The overhead sections 407/2D (length as 2 rails 3000 D) can be used with advantage over long straight stretches of rail. The interrupter pieces 407 U serve to create "dead" sections in the overhead rail. Connecting pieces 407 V are for use on rail system in which ¼, ½, and ¾ rails are used, and also for the installation of overhead transmission over bridges, level crossings, etc.
The large 0 gauge also has many friends. Locomotives, rolling stock, track, and accessories are made with the usual MARKLIN quality. Because of the larger size these items can be constructed in greater detail, and can withstand more punishment.

Clockwork trains are built only in this gauge and are illustrated on page 22. 8 sections of track make a circle with a diameter of 30 in.

Electric Trains are of course perfectly harmless and operate on an average tension of 20 volts. In order to ensure good operation only the wide radius track in which 12 sections comprise a circle with a diameter of 48 in. is manufactured for electric trains. Any further details can be found in MARKLIN booklet No. 2753.

Large Radius Tracks should be used with Electric Trains Gauge 0. For Clockwork Trains see page 22.

HR 6612920 Electric Locomotive with automatic reverse
Finished in dull black, 6 axles, tender 4 axles. Plug socket for coach lighting connection, illuminated cab with celluloid windows, 2 electric head lights.
Length with tender 21 in., weight 2600 gr.
Accurate model of a modern heavy Express locomotive (German State Railways type 2 C 1 model 01), Scale 1:45.

Necessary connecting set for Alternating Current: 13470 BG. State voltage when ordering.
MARKLIN Electric Locomotives Gauge 0 (1½ in.) 20 Volts

The proved MARKLIN 20 Volt System

Perfect safety must always remain the most important feature of an electrically driven toy. The MARKLIN 20 Volt Electric Train System for Gauges "00" and "0" have the particular advantage that the average tension occurring in the rails is only 20 volts, so that, as a result of this, the working of these trains is perfectly safe. As the low tension of 20 volts cannot be directly taken from the light mains, a connecting apparatus, which reduces the tension of the mains current to 20 volts, is necessary to connect the rails to the lighting mains. Transformers are used for this purpose in the case of Alternating Current. These connecting sets are produced especially for driving the MARKLIN Electric 20 Volt Trains and are graded accordingly. We recommend, therefore, that only MARKLIN connecting sets should be used. We can then give the assurance that the best possible results will be achieved and that the volages for the lights and signal box connections will conform to those of our electrical accessories.

R 66/12910 Locomotive
with tender, gauge 0, with automatic reverse, electric headlights, plug socket for connection with carriage lighting system, dull black. Length with tender 12½ in.

RS 66/12910 Electric Locomotive
Gauge 0, with automatic reverse, two electric head lamps and plug connection for coach lighting, green. Length 8½ in.

RV 66/12920 Electric Locomotive
Gauge 0, with automatic reverse, electric headlights, plug socket for connection with carriage lighting system, spring pantograph, celluloid windows, green. Length 9½ in.

CS 66/12923 Electric Locomotive
Gauge 0, with automatic reverse, electric headlights and plug socket for connection with carriage lighting system, spring pantograph, celluloid windows, green. Length 11½ in.

E 66/12920 Electric Locomotive with Tender
Gauge 0, finished in dull black, 4 axles, tender 3 axles, with automatic reverse, 2 electric headlights, plug socket for connection with coach lighting system. Length with tender 16 in.

All locomotives are supplied with connecting plate.

Necessary Connecting Sets for Alternating Current.

- For R 66/12910 and RS 66/12910
- Transformer-Set AG
- For E 66/12920
- RV 66/12920 and CS 66/12920
- Transformer-Set BG
Alternating Current is shown on the meter by the letters A.C. or the sign

RS 66/12910-3 Electric Train
Gauge 0, comprising engine RS 66/12910 with automatic reverse, luggage van 1728, 2 passenger coaches 1727, 12 curved, 4 straight rails 3610. Length of train 33 in.

R 66/12910-3 Electric Train,
comprising engine R 66/12910 with automatic reverse, luggage van 1728, 2 passenger coaches 1727, 12 curved, 4 straight rails 3610. Length of train 36½ in.

E 66/12920-3 Electric Train
comprising locomotive E 66/12920 with automatic reverse, passenger coach 1751, dining car 1752, sleeping car 1753, 12 curved and 6 straight rails 3610, coaches with corridor connections. Length of train 48 in.

All Trains are packed in strong boxes and provided with comprehensive instructions.

All locomotives are supplied with connecting plate.
CONNECTING SETS FOR ALTERNATING CURRENT MAINS
Transformers for connecting to 110, 125 or 220 volts alternating current (A.C.)

The following information will help you when ordering connecting sets:
MARKLIN connecting sets are made specially for use with our 20 volt trains, and are graded accordingly. We therefore recommend that only MARKLIN connecting sets should be used, then we can guarantee that best results will be obtained and that the voltages of the lights, signals, etc. will conform to our electrical accessories.

The connecting set specified for each locomotive and trainset is only the least power necessary to work it. More powerful connecting sets than those specified can also be used. In the case of railway systems with many illuminated accessories, it is better to have a separate connecting set for the lighting.

The contact plate is not included with the connecting set—it is supplied with each electric locomotive and trainset.
Alternating Current is shown on the meter by the letters A.C. or the sign . MARKLIN Transformers are supplied for 110, 125 or 220 Volts. State voltage when ordering.

Transformers with rheostat speed control, automatic short circuit cut-out and red signal lamp
Built and tested according to official regulations, therefore, perfectly safe for use by children.

Parts of the Illustrated Transformer 13470 A:
1. Cable and plug for Connection to trains.
2. Connection for Miniature railways, Gauge O0.
3. Connection for Railways, Gauge O.
5. Connection for electro magnetic accessories.
6. Fibre plate carries and insulates the connection 2–5.
7. Iron Core (from Special Plates).
8. Fibre frame (to insulate to iron core).
9. Openings for air (to cool the windings).
10. Earth terminal (for use in rooms with stone floors).
11. Thermal switch (not visible in picture, see adjacent illustration). Cuts out the transformer automatically when carrying too much current (overloading or short circuit).
12. Clips (joining the connecting cable to the windings).
13. Windings of copper wire, tested at 5,000 volts before leaving factory.
14. Lever with spring, collecting current from the windings.
15. Turning knob for the regulation of the speed of the train.
16. Openings to release hot air from the windings.
17. Signal lamp showing so long as the Transformer is in working condition, is extinguished immediately when short circuit occurs.
18. Cover of strong black enamelled sheet iron.

Track for Electric Trains Gauge 0

2753 Electric Trains
t heir working, maintenance and some points about their originals.
80 pages brochure with some 100 illustrations giving comprehensive answers to all questions concerning the assembly and working of electric trains (e.g., connection of trains, current consumption of the locomotives, capacity and load of the connecting sets, train lighting, circuit designs of large lay-outs, electro-magnetic drive, locomotive motors etc.) and many illustrations of real railways. (In German language only.)

Rail Design Book
36 pages, 11½ x 8 in. showing many rail designs for all types of rails, gauge 0, circuit diagrams, real railway pictures etc.
Model Layout, St. Gauge
A Masterpiece in the smallest space

This tiny diorama shows how a great railroad empire can be built on small space in a realistic way.

- Railroad tracks run through mountains and valleys, twisted, with stations, factories, and towns.
- There is a river, and the trains pass under bridges.
- A马拉elinNo train can be operated at maximum tension, a local, and a freightliner.
- The bridges were made of plastic with parts of the MARL
cutout. This picture is intended to show only the as instruction to use it.

We are able to recreate each little scene only upon written arrangement.
**PULLMAN CARS Gauge 0**

Scale Models, for large radius rails only

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**1941 Passenger Coach**
Green, cast bogies and wheels, windows with celluloid panes, doors to open, detachable roof with ventilators, openings for corridor connections, correctly lined and lettered, length 16 in.

*1941 J Passenger Coach*, as above, roof to scale car of “Compagnie Internationale”.

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**1942 Dining Car**
Mitropa-finish, cast bogies and wheels, windows with celluloid panes, doors to open, detachable roof with ventilators, openings for corridor connections, correctly lined and lettered, length 16 in.

*1942 J Dining Car*, as above, blue “Cie. Internationale”-finish.

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**1943 Sleeping Car**
Mitropa-finish, cast bogies and wheels, windows with celluloid panes, doors to open, detachable roof with ventilators, openings for corridor connections, correctly lined and lettered, length 16 in.

*1943 J Sleeping Car*, as above, blue “Cie. Internationale”-finish.

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**1944 Luggage Van**
Green, cast bogies and wheels, 4 hinged doors and 4 sliding doors, windows, detachable roof with ventilators, openings for corridor connections, correctly lined and lettered, length 16 in.

*1944 J Luggage Van*, as above, blue “Cie. Internationale”-finish.

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**1945 Mail Van**
Green, with skylights, cast bogies and wheels, 8 doors to open, windows, detachable roof with ventilators, openings for corridor connections, correctly lined and lettered, length 16 in.
**PASSENGER COACHES**

1751 Passenger Coach
- green, four-wheeled bogies, doors to open, hinged roof, windows with celluloid panels, openings for corridor connections, length 9\(\frac{1}{2}\) in.

1752 Dining Car
- MITROPA-finish, four-wheeled bogies, doors to open, hinged roof, windows with celluloid panels, openings for corridor connections, length 9\(\frac{1}{2}\) in.

1753 Sleeping Car
- MITROPA-finish, four-wheeled bogies, doors to open, hinged roof, windows with celluloid panels, openings for corridor connections, length 9\(\frac{1}{2}\) in.

1754 Luggage Van
- green, four-wheeled bogies, 2 sliding and 4 hinged doors to open, hinged roof, windows, openings for corridor connections, length 9\(\frac{1}{2}\) in.

1755 Mall Van
- for above coaches, 8 hinged doors, hinged roof with sky lights.

1719 Passenger Coach
- blue-green, cut out windows, length 5 in.

1725 Passenger Coach
- green, cut out windows, doors to open, length 6\(\frac{1}{2}\) in.

1721 Passenger Coach
- green, scale model, cut out windows, doors to open, length 7\(\frac{1}{2}\) in.

1727 Passenger Coach
- green, for use with passenger coaches 1725, length 8\(\frac{1}{2}\) in.

1728 Luggage Van
- green, with sliding doors, for use with passenger coaches 1725, length 8\(\frac{1}{2}\) in.

1730 Luggage Van
- blue-green, for use with passenger coaches 1719, length 5 in.

1726 Luggage Van
- green, with sliding doors, length 7\(\frac{1}{2}\) in.

1729 Luggage Van
- blue-green, for use with passenger coaches 1725, length 9\(\frac{1}{2}\) in.

1661 Open Goods Truck
- brown, length 5 in.

1663 Refrigerator Van
- white, with sliding door, length 5 in.

1687 Mineral Water Wagon
- light green, with sliding door, length 5 in.

1681 Closed Goods Truck
- brown, with sliding door, length 5 in.
FREIGHT CARS

1761 Open Goods Truck
Green, length 6½ in.

1703 Covered Goods Truck
Green, detachable while cover with supports,
length 6½ in.

1701 Open Goods Truck
Brown, with doors to open and brakeman's
cabin, length 7½ in.

1704 Low Sided Open Goods Truck
Brown, length 6½ in.

1790 Brake Van
Brown, with 2 sliding and 2 hinged doors to
open, length 6½ in.

1794 S Petrol Truck
Yellow, lettered "SHELL", with brakeman's
cabin, filler cap and outlet tap, length 7½ in.
1794 ESSO
Petrol Truck, as above, lettered "ESSO".

1791 Closed Goods Truck
Brown, with sliding doors, length 6½ in.

1792 Closed Goods Truck
Brown, with sliding doors and brakeman's cabin, length 7½ in.

1796 Closed Goods Truck
Brown, with sliding doors and brakeman's cabin, length 7 in.

1797 Dump Car
Tips to either side of the track, with locking
device, length 5 in.

1801 Open Goods Truck
Brown, mounted on double bogies, doors to open, with brakeman's cabin, length 9½ in.

1802 Timber Truck
Brown, mounted on double bogies, with brakeman's cabin, length 9½ in.

1806 Log Trucks
In pairs, revolving stanchions with chains, length 11 in.
**MARKLIN**

**RAILWAY ACCESSORIES Gauge 0**

- **1347** Arc Lamp
  - With 20 volt bulb, 20 in. cable with metal plugs, height 8 in.

- **13452/1** Arc Lamp
  - With 20 volt bulb, 20 in. cable with metal plugs, height 10 in.

- **13956 G** Automatic Home Signal affecting movement of train, remote control 20 volt bulb, electro-magnetic device for signal and train, height 9 in. With contact plate 13629 and interrupter rail 13628.

- **13952 G** Automatic Day-Light Signal affecting movement of train remote control, 2 red and 2 green 20 volt bulbs, electric switch for lights and train. Height 7½ in. With contact plate 13629 and interrupter rail 13628.

- **13951 Station Lighting**
  - With 20 volt bulb and ½ yard of cable. For lighting stations, guards' houses etc.

- **13491 M** Muff with branch.

- **13491 SQ** Plug with cross socket in which an additional plug can be inserted.

- **13483/2** Electric Tail Light set
  - 2 tail lights with 20 volt bulbs and cables.

- **13629 Contact Plate for rails gauge 0.**

- **13628 Interrupter Rail gauge 0.** For making "dead" sections of track (with "signals 13956 G etc.").

- **13510 WB Electro-Magnetic Switches**
  - For remote control. For 20 volts operation in conjunction with a signal box or a control plate. Revolving electric lanterns with cables.

- **13722 Control Plate**
  - With 5 connections. Without cable. Size 3½ x 1½ in.

- **13723 Distributor Plate**
  - With 5 connections. Without cable. Size 3½ x 1½ in.

- **13572 Bulb**
  - 19 volts, 0.15 Amp, 0 mm screw fitting. Clear, red or green.

- **13573 Bulb**
  - 19 volts, 0.15 Amp, 15 mm screw fitting. Frosted, clear, red or green.

- **13574 Muff**
  - 19 volts, 0.15 Amp, 15 mm screw fitting. White, red or green.

- **13531/25** Cable for train lighting set, 10 in. long

- **13531/50** Cable for train lighting set, 20 in. long

- **13484 S Plug** — **13484 M Socket**

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**Electric Train Lighting**

The possibility of lighting trains and accessories gives a lot of pleasure. Nearly all Märklin locomotives are fitted with a plug in the cab to which train lights can be connected, in the case of electric locomotives this plug is at the back of the locomotive. For short coaches one coach lighting No. 13484 will be sufficient, which can be connected to the lighting of the next coach by means of the plug connection. For long coaches 2 coach lightings No. 13484 can be used. For the connection between the locomotive and the first coach use cable 3531/25 or 3531/50. Use our bulbs Nos 13527 and 13528 described on this page; other bulbs of lower voltage will burn out. Details of coach lighting, etc. see booklet No. 2/53.
ACCESSORIES Gauge 0

2337 Home Signal
Signal arm with red and green signals, hand lever, height 7 1/8 in.

2338 B Station
with electric lighting, 20 volt lamp with cable and plugs, goods shed and platform barrier, cut out windows, doors to open, goods shed with sliding door, centre window with imitated clock and celluloid hands. Base 19 5/8 in., height 7 in.

Model Railway Station 2038 B / 2039 B (see page 11) can also be used for gauge 0 layouts.

2339 Railway Bridge
Lanterns with yellow and green signals, hand lever, height 5 in.

2409 Railway Bridge
for gauge 0 track (without rail), length 10 1/8 in.

2231 B Level Crossing
for gauge 0 track. Barriers and bell are operated automatically by passing train, bell cabin with clockwork, arc lamp with 20 volt bulb, cable with plug; removable centre rail for electric trains, length 10 1/8 in.

2236 B Level Crossing
for gauge 0 track, as above, without bell cabin.

2246 Signal Bell
with clockwork, operated automatically by passing train, with insulated centre rail for electric trains gauge 0, height 5 in.

2243 Signal Bell
with hand crank, height 4 in.

2199 Goods Station
Station with sliding doors, cut out windows, detachable roof, revolving crane with hand winch. Base 14 x 9 1/2 in., height 6 in.

2161 Guard's House
with stop board, barrier etc. Base 5 1/4 x 3 1/2, height 4 1/2 in.

2125 Turntable
for clockwork trains, with 4 junctions and locking device, greyish green. Diameter overall 12 in., diameter of turning table 8 1/2 in.

2725 G Petrol Drums
set of 5 pieces, different inscriptions, diameter of each drum 1 1/2 in.

2250 Railway Bridge
for gauge 0, detachable span, length 20 1/8 in. 2500: for clockwork trains. 2500 EL: for electric trains.

2275 B Station Platform
with 20 volt electric light (1 bulb, cable with plugs), waiting room, seat and figures. Base 15 1/8 x 4 in., height 6 1/2 in. roof 6 1/2 in. wide.
CLOCKWORK TRAINS Gauge 0

Marklin Clockwork Trains are very favourite toys for the youngest. The clockworks are of great power and accurate construction and fitted with an automatic speed regulator, which makes it possible to let the locomotives run without risk of derailment, even without coaches. Every locomotive can have its brakes applied either from the cab or from the track while it is running. Reversing gear (with the exception of No. R 880) operating either from track or by level from the cab. Some of the locomotives are fitted with a hook in front, in order to make it possible to couple up coaches to the front of the engine.

Front hook impracticable for very sharp curves, coaches may be forced off the track.

Detailed instructions are included with each locomotive; for lay-outs see booklet No. 2703.

Rails for Clockwork Trains
Length of straight rail: 10½ in. Circle consists of 8 curved sections 1620 A. Diameter of circle 30 in.

Curved
1620 A ⅛
1620 A ⅜
1620 A ⅜

Straight
1620 D ⅛
1620 D ⅜
1620 D ⅜
1620 D ⅜

1620 K Crossover
1620 DAU Reversing
and brake control Rail
1620 BU Reversing
and Brake Switch
1620 WB Pair of Switches
(without lanterns)

R 890 Clockwork Locomotive
Gauge 0, black, with brake and reversing gear operated by hand, length with tender 10 in.

R 883 Clockwork Locomotive
Gauge 0, comprising locomotive R 880, 2 passenger coaches 1719, 8 curved rails 1620, brake and reversing switch, length of train 23 in.

R 890 Clockwork Locomotive
Gauge 0, comprising locomotive R 890, 2 passenger coaches 1719, 8 curved and 4 straight rails 1620, brake and reversing switch, length of train 23 in.

R 890/3 Clockwork Train
Gauge 0, comprising locomotive R 890, 2 passenger coaches 1719, luggage van 1720, 8 curved and 4 straight rails 1620, brake and reversing switch, length of train 26 in.

R 919/3 Clockwork Locomotive
Gauge 0, comprising locomotive R 919, 2 passenger coaches 1727, luggage van 1723, 8 curved and 3½ straight rails 1620, brake and reversing switch, length of train 28 in.

R 890 Clockwork Locomotive
Gauge 0, comprising locomotive R 890, 2 passenger coaches 1719, luggage van 1720, 8 curved and 4 straight rails 1620, brake and reversing switch, length of train 26 in.

R 910 Clockwork Locomotive
Gauge 0, black, brake and reversing gear operated by hand and automatically from track, nickel-plated fittings, tender with coal, length with tender 12½ in.
STEAM ENGINES

Marklin Steam Engines have always been very popular with boys. They are amongst the most attractive pastimes, an educational display of converting steam into mechanical energy. Coupled to a dynamo and electric lamp they give an instructive demonstration of the working of an electric power plant.

4095/4 Steam Engine
Boiler: polished brass plate, casing imitation brickwork, enamelled. Diameter of boiler 1 1/2 in., length 5 in.
Machinery: Single acting slide valve cylinder, reversible according to impulse given to flywheel, pulley, steam whistle, water gauge, safety valve.
Accessories: Cup, funnel, oiler, spare washers.
Base: 9 1/2 in. Height with chimney: 9 1/2 in.

4095/5 Steam Engine
Boiler: polished brass plate, casing imitation brickwork, enamelled. Diameter of boiler 2 in., length 6 in.
Machinery: Single acting slide valve cylinder, reversible according to impulse given to flywheel, pulley, steam whistle, water gauge, safety valve, check tap, grooved flywheel.
Accessories: Cup, funnel, oiler, poker, spare washers.
Base: 11 3/4 in. Height with chimney 14 1/2 in.

4097/6 Steam Engine
Boiler: polished brass plate, casing imitation brickwork, enamelled. Diameter of boiler 2 1/4 in., length 6 1/4 in.
Machinery: Single acting slide valve cylinder, reversible according to impulse given to flywheel, pulley, steam whistle, lever safety valve, check tap, pressure gauge, water gauge, water drain tap.
Accessories: Cup, funnel, oiler, poker, spare washers.
Base: 12 1/2 in. Height with chimney 15 1/4 in.

4097/02 6 Steam Engine with Dynamo
Steam Engine as above, fitted with dynamo 3392 0 and arc lamp.

MARKLIN Steam Engines are fitted with safety valve and they are carefully tested under steam pressure before leaving the factory. Outstanding performance will be attained if the engine is handled according to the instructions furnished with every model.
3392.0 Dynamo
permanent field magnet machine, two piece armature, adjustable brushholders, black casing, pulley wheel.
Output: Alternating current, 2 1/2 volts, 0.2 amp. at 4000 revolutions per minute.
Base-plate: 3 1/2 x 2 1/4 in., height 2 1/2 in.

4097/92.7 Steam Engine
Boiler: polished brass plate, casing imitation brickwork, enamelled, diameter of boiler 2 1/4 in., length 7 1/4 in.
Machinery: single acting slide valve cylinder, reversible according to impulse given to flywheel, centrifugal governor, flywheel and pulley grooved, dynamo and arc lamp.
With steam whistle, lever safety valve, check tap, pressure gauge, water gauge, water drain tap.
Accessories: Cup, funnel, poker, oiler, spare washers.
Base: 12 1/4 x 12 3/4 in. Height with chimney: 16 1/4 in.

4098/92.8 Steam Engine
Boiler: Heavy brass fire tube boiler, oxidized blue steel colour, fire box with railings, diameter of boiler 3 1/2 in., length 10 1/4 in.
Machinery: Double acting slide valve cylinder, reversing by impulse given to flywheel, grooved flywheel and pulley, centrifugal governor, feeding pump, lubricator, condense water escape, dynamo and arc lamp.
Fittings: Steam whistle, steam dome with lever safety valve, check valve, pressure gauge, water gauge, three way cock, drain cock.
Accessories: Cup, funnel, oiler, poker, spare washers.
Base 14 1/2 x 14 1/2 in. Height with chimney 13 1/2 in. Diameter of flywheel 4 in.
**TRANSMISSIONS and WORKING MODELS**

- **4383-25 Transmission**
  Enamelled iron base, 4 adjustable nickelled wheels, length 10 in.

- **4383-50 Transmission.**
  Enamelled iron base, 6 adjustable nickelled wheels, length 20 in.

- **4251/1 Grindstone**
  Iron frame, protecting cover, height 4 in.

- **4355 Water Wheel**
  With rock and pump for driving water wheel which operates 2 drop hammers. Size: 7½ x 5½ x 6½ in.

- **4254 Drill**
  Three speed pulley, adjustable elastic chuck, polished table, height 6½ in.

- **4581 Colour-Play Model**
  Colour discs driven by gears, achieving a continuous change of colour combinations. Base 5⅜ x 3⅜ in. Diameter of disc 4½ in.

- **4254-1 Circular Saw**
  Nickelled hinged plate, adjustable guide, enamelled frame. Size: 4½ x 2½ in.

- **4390 Cold Saw**
  Eccentric motion, adjustable vice, enamelled frame. Size: 6½ x 3½ x 4½ in.

- **4396 Forge**
  With roof and 3 trip hammers. Size: 5½ x 2½ x 3½ in.

- **4390/2 Ventilator**
  With 4 nickelled blades, iron stand, height of stand 3½ in., diameter of blades 5 in.

- **4353 Water Mill**
  With well and pump for working water wheel. Size: 7½ x 7½ x 4½ in.

**CLOCKWORK TRACTOR**

- **5522/81** With brake and adjustable front axle, wheels with rubber tyres, casting, red enamelled, length 4 in.

**MINIATURE CARS** (without clockwork)

- **5521/61 Mercedes-Benz Racing Car**, silver painted, length 4 in.
- **5521/51 Cabrioute**
  Streamline body, red, length 4½ in.

- **5521/35 Fire Ladder**
  Lifts and turns, length of chassis 4 in., length of ladder 5 in.

- **5521/20 Truck**
  Tipping, with hinged tail board, grey, length 4½ in.

- **5521/21 Trailer**
  For above truck, hinged tailboard, length 3 in.
THE NEW MARKLIN CONSTRUCTION SETS

A new departure in constructional toys, a recreation to modern technics, a recreation of great value.
The flexible plates of the new MARKLIN Construction Sets give the models a most realistic appearance in casing all the framework. Chassis are fitted with a body to look like a real motor car and all the other models, airplanes, boats etc. get a lifelike finish. Even the smallest sets contain the new tyres and parts to mount all sorts of vehicles. The larger sets also include a good number of electrical fittings with gears, pulleys and an amount of other new parts which confer the sets an unsurpassed versatility.

Improvements of the new sets:
- Increased number of parts
- Coloured flexible plates
- Wheels with detachable rubber tyres
- Electrical fittings
- Attractive presentation

Basical Set No. 99
Contents 162 parts incl. clips. Size of box $15 \frac{1}{2} \times 10 \frac{1}{2} \times 1$ in., weight 1400 gr.
Basical Set No. 99, the smallest of the MARKLIN Construction Sets (formerly No. 00), contains the new wheels with tyres as well as a number of flexible coloured plates. Attractive models can be built with this apprentice set.

Basical Set No. 100
Contents 220 parts incl. clips. Size of box $16 \times 12 \times 1$ in., weight 1900 gr. Formerly set No. 0.
With every larger set the versatility is increasing and also the number of models which can be built with it.

Basical Set No. 101
Contents 302 parts incl. clips. Size of box $20 \frac{1}{2} \times 10 \frac{1}{2} \times 1 \frac{1}{4}$ in., weight 2300 gr.
Basical Set No. 101 (formerly Set No. 1) is one of the most favourite sets. The instruction books 71a and 71b which are included with this set, contain illustrations for the construction of more than 250 different models.

The new Additional Instruction Book No. 71z is supplied with every new Construction Sets.
Basical Set No. 102
Contents 486 parts incl. clips.
Size of box 24¾ x 10½ x 7⅛ in., weight 3700 gr.
With Basical Set No. 102 it is possible to build elaborate models designed on strictly mechanical and engineering principles. The Crane and the Windmill see page 29 are just 2 samples selected from the numerous models shown in the instruction Book No. 71 z.

Basical Set No. 103
Contents 308 parts incl. clips. Size of box 20¾ x 10½ x 2½ in., weight 5400 gr.
Basical Set No. 103 is a very elaborate set. Besides a large number of new parts it also contains new electric parts which make it a most fascinating set. Boys can make real working models driven by electric power.

Additional Sets
If you dispose of a prior MARKLIN Construction Set (No. 00, 0, 1, 2, 3, 4 or 5) and if you wish to convert it into a new set, get the corresponding Additional Set (see below) which contains all the necessary complementary parts.

For instance:
If you possess a prior set No. 1 and would like to modernize it into a new set 101, an additional set No. 2 101 will be what you require:

| Additional Set Z. 103 converts prior Set No. 00 into new basical Set No. 99 |
|-------------------------------------------------|------------------|
| Z 100                                            | 0                |
| Z 101                                            | 1                |
| Z 102                                            | 2                |
| Z 103                                            | 3                |
| Z 104                                            | 4                |
| Z 105                                            | 5                |

The coloured back page of this catalogue gives you just a slight idea of the beautifully coloured finish of all the new MARKLIN Construction Sets.
CONSTRUCTION SETS

MARKLIN Models are designed on strictly mechanical and engineering principles and confer a practical knowledge of technical matters always worth having.

ALL MODELS ILLUSTRATED BELOW ARE BUILT WITH THE NEW MARKLIN CONSTRUCTION SETS

MARKLIN Set No. 198
This is the largest and finest of all MARKLIN Construction Sets. The number and variety of models that can be built with the beautiful set is almost unlimited. Every component may be used. The set contains: 300 plastic parts, 5000 parts in all, 7000 brass screws, 1000 nuts, finishing parts, assembly accessories, various tools, oilers, etc. MARKLIN Set No. 198 is piled in a beautifully presented box as shown by illustration.

MARKLIN Set No. 200
This is the largest and finest of all MARKLIN Construction Sets. The number and variety of models that can be built with the beautiful set is almost unlimited. Every component may be used. The set contains: 300 plastic parts, 5000 parts in all, 7000 brass screws, 1000 nuts, finishing parts, assembly accessories, various tools, oilers, etc. MARKLIN Set No. 200 is piled in a beautifully presented box as shown by illustration.

MARKLIN Models are designed on strictly mechanical and engineering principles and confer a practical knowledge of technical matters always worth having.

Supplementary Sets
Supplementary Sets consists of all the component parts that complete a standard set or kits to a standard set. You can add extra parts to any construction set to add additional parts to the standard set.

MARKLIN Models are designed on strictly mechanical and engineering principles and confer a practical knowledge of technical matters always worth having.
**MARKLIN**

**ELECTRICAL EXPERIMENT SETS “ELEX”**

MARKLIN ELEX is an experimental set complete in itself. While working with this set one becomes familiar with the fundamental laws of magnetism and electricity. The electric current, electromagnetism, telephone bell installations, the Morse telegraph, and many such things which are daily encountered, lose their mystery. MARKLIN ELEX also provide valuable knowledge for school and practical life.

MARKLIN ELEX Sets contain, apart from the various parts used a comprehensive and richly illustrated instruction manual; an ordinary pocket lamp battery suffices to begin experimenting. In conjunction with MARKLIN Construction Sets, MARKLIN ELEX presents almost unlimited possibilities.

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**ELEX No. 501**
Basic Set with instruction book for some 60 experiments. Size of box 13 × 8½ inches.

**ELEX No. 502**
Basic Set with instruction book for over 100 experiments. Size of box 17 × 9 in.

**13470UG Transformer Set**
for experimental use, tapings giving tensions of 4, 6, 9, 12, 17 and 20 volts, capacity about 12 watts. With automatic circuit breaker and red control lamp, connecting cable and 2 plugs 13491 S. For connection to 110, 125, 150 or 220 volts alternating current. State voltage when ordering.

**ELEX No. 563**
Basic Set with enlarged instruction book for over 160 experiments. Size of box 22½ × 11 in.

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**RACING CAR CONSTRUCTION SET**

This Car Construction Set contains all the parts required, including clockwork motor and driver, for the construction of the Mercedes racing car illustrated below. Accurate model, steering wheel, stub axles, length of chassis 8½ in., length overall 11½ in.

**1133 Racing Car Construction Set**
Racing Car, set out in box with clockwork motor and driver, detailed instructions for the construction of the illustrated racing car.

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ELEX Set No. 502 only can be supplied at present.
CAR CONSTRUCTION SETS

Chassis Set No. 1101 C — serves as a basic set for the various models. A true model of a chassis 14 in. long can be assembled, all the fittings are there: frame, springs, differential, driving shaft, steering etc. It can quite easily be assembled with the help of the comprehensive and richly illustrated instruction book which is supplied with each set.

Chassis
built with chassis set 1101 C and built-in clockwork motor 1109 M.

The clockwork Motor No. 1109 M can be fitted to the chassis in a few moments. The models illustrated below are then completed by means of the various body building sets; if the boy wishes, however, he can design and build his own coachwork out of wood, cardboard or any other material.

1109 M Clockwork Motor
in box, with key, to be fitted to the chassis built with set 1101 C

1103 St Streamline Body Set
green, to be fitted on to the chassis built with chassis set 1101 C. Set out in box. With instructions.

1105 L Truck Body Set
red, set out in box, to be fitted on to the chassis built with chassis set 1101 C. With instructions.

1107 R Racing Body Set
red, set out in box, to be fitted on to the chassis built with chassis set 1101 C. With instructions.
ELECTRIC COOKING STOVES • Children ranges

for 110-125 or 220-250 volts alternating or direct current

MARKLIN

El 9610/2 Electric Children Range
without control light. Two heat units and oven. With stew pot 9681 and boiling pot 9682.
Size of plate 9½ x 7½ in. Height of plate 9 in.

9685 Frying Pan
polished aluminium, diameter 3½ in.

El 9629/2 Electric Children Range
with control lights, two heat units and oven, stew pot 9681 and boiling pot 9682.
Size of plate 9½ x 7½ in. Height of plate 9 in.

MARKLIN Electric Children Ranges are delivered without connecting cable. In case a suitable cable is not available, get our connecting cable No. 3537, length 2 yards, with plug and socket.
The consumption of current is relatively small: about 150 watts for every heat unit and about 100 watts for the oven.

El 9629/3 Electric Children Range
with control lights. Three heat units and oven, stew pot 9681, boiling pot 9682 and tea kettle 9683.
Size of plate 11½ x 9 in. Height of plate 9 in.

These electric ranges have been designed from modern electric stoves. They actually cook, boil, fry and bake just like real electric ranges. The heat units are embedded in iron grids mounted on a black enamelled table plate, while enamelled sides give the range its beautiful finish. The oven doors have glass windows. All stoves are supplied with pots made of strong aluminium and finely polished.
The ranges with control lights are particularly fascinating; as soon as such a range is connected, the oblong control light shows and remains showing until the range is disconnected. Apart from this each heat unit has its own circular red light which shows as soon as that heat unit is turned on. It can be seen, therefore, immediately whether the range is connected up and which heat units are in use.
The oven also has a control light and it is especially interesting to watch the baking process through the window of the oven door.

Maximum of safety and efficiency are the main features of Marklin Electric Children Ranges.

Printed in Germany
The new MARKLIN Streamline Train Gauge 00
(16.5 mm) 20 Volts

The MARKLIN Streamline Train illustrated below is a true scale model of one of those speedliners flashing now across our countries. It is built in 3 sections and can negotiate even the sharpest curves without any trouble, in spite of its length of 22 in. The 3 sections are coupled together by a very simple device and the train can easily be extended by 2-3 middle sections ST 900 M.

ST 800 Electric Streamline Train
Built in 3 sections: True model of a modern streamliner - 3 white electric headlights - 2 red electric raarlights - Celluloid windows - Optional operation from overhead or third rail by means of an inconspicuous lever.
For simultaneous operation of 2 trains on the same track streamline train ST 800 is supplied with fixed pantographs for overhead drive; if it is to run as a real Diesel streamliner the pantographs may be removed by simply loosening one screw with each pantograph.

Especially powerful motor - 4 bogies, 2 of them with power drive - Reliable operation of the remote control reverse - Additional lever for hand reverse - Inconspicuous lever for selecting overhead or third rail drive.
Length of train 22 in. - Weight ca. 1000 gr. - Detailed instructions with each train.

Motor with reduction gear, especially powerful - Remote control for reversing, reliable operation - Additional hand lever inside door of smoke box - Length 6½ in. - Weight ca. 500 gr.

TP 800 Tender Locomotive, Super Model
The long waited for scale model switch engine!

Finished in dull black - 5 axles, 2-6-2, unbreakable cast body - Wheels, valve gear etc. true to scale - 2 electric headlights at both ends which burn according to direction of travel - Massive bogies with special protection against derailment.

Freight Cars
Super-Models Gauge 00

Perfect miniatures of the real cars. Made of unbreakable cast metals - Mounted on new type bogies with flexible sides which guarantee an absolutely safe running. The automatic couplings are mounted on the bogies, therefore reliable operation also on curved track.

331 Open Goods Truck
brown, mounted on double bogies - Length 5½ in.

332 Closed Goods Truck
brown, mounted on double bogies, sliding doors.
Length 5½ in.

334 Oil Tanker
Silver painted, mounted on double bogies, brake railings, ladder, rivets etc. true to scale.
Length 5½ in.
The Small Gauge 00 Set for the Beginner

This is a small set complete in itself which can be enlarged as any other MARKLIN Gauge 00 set. It is packed up in a nice presentation box containing locomotive, cars, tracks and instructions for running a freight train on a track oval of 30 x 37 in.

Transformer No. 260 — see illustration below — is packed separately and supplied with each set.

RS 790/3 Freight Train Gauge 00 with Transformer
Set consists of locomotive RS 790, freight cars 364, 372 and 382, connecting track 3600 AN, 11 sections of curved track 3800 AN, 2 sections of straight track 3600 DN, transformer 260 and instructions. Length of train 16½ in.

Please state voltage when ordering.

RS 790 Electric Locomotive Gauge 00
2 axles, with hand reverse, electric headlight, finished in red and black. Length 6 in. Weight ca. 360 gr.

260 Transformer
Specially built for Train Set RS 790/3
Rheostat speed control, two zero positions, red control light, connections for train, lights and electromagnetic accessories, desk shaped blue casing. Capacity 10 VA.

Absolutely safe in use!
Supplied for 110, 125 or 220 Volts Alternating Current.
State voltage when ordering.

The perfect MARKLIN
Double Cross Switch Gauge 00
for Remote Control

Non-denting, reliable operation. Only now it is possible to duplicate real railroad track plans and to set up shunting yards and terminals which are exact copies of the real thing.

3600 DKW
Double Cross Switch
Electromagnetic Remote Control, electric lantern showing 4 different signs according to position of switch: 2 black cables for operation, yellow cable for light, with plugs. The points are held to the outside rails by soft springs and even a light car may pass over a closed switch, which afterwards returns to its original position. Manual operation is possible by 2 turning knobs. Length of switch 7½ in.

Above illustration is just an example how the new double cross switches can be inserted into the track system and shows plainly the possibilities of very elaborate and intricate layouts.
The new electromagnetic Signals

443 G
Home Signal
electro-magnetic, illuminated (1 bulb 485).

437 Distant Signal
electro-magnetic, illuminated (2 bulbs 485).

479 G
Daylight Signal
electro-magnetic, illuminated (1 bulb 485),
shows either red or green light. Mounted
with interrupter rail for automatic train control
and with a second interrupter rail
3600 UNN for third rail operation. Height
3 1/2 in. Length of the interrupter rail 3 1/2 in.

443 G/12
Set of Number Boards
for marking switches, signals etc. of a layout.
Set consists of 12 cast bases, 3 set transfer
pictures marked 1-48 (fitting to control plates 474/4
and 474/8 B) and a set of number boards (1-24) to be mounted
into the slits of the bases. Packed in cardboard box.
Size 6 1/8 x 4 in.

For overhead operation of the Signals 443 G and 479 G a
Set No. 407 GS is necessary, which consists of 2 masts
407 MS and 2 interrupter pieces 407 UN.

407 DKW Overhead Section for double cross
switch 3600 DKW

Automatic Crossing Gates
A most realistic supplement for every layout Gauge 00

The barriers are closed automatically by passing train and a red control light shows at the same time. Only when
the last car has passed the barriers open again automatically and the light is extinguished.

The set consists of 2 automatically operated barriers, 2 electrically illuminated warning signals, guard's house
and contact tracks 28 in. long. Size, if mounted as illustration shows,
7 1/8 x 3 1/2 in. The more contact track sections 3600 KG are inserted the earlier will the barrier be lowered by approaching
train.

Illustration shows barriers lowered by approaching train, red signal lights are showing at the same time.
The building of real Model Bridges for Gauge 00

It is now possible without any difficulty. With the new bridges and bridge sections accurate reproductions of modern railway bridges with approaching ramps etc. can be built up. The bridge piers 467 P.6 and 467 P.30 fit together like parts of a construction set; they can be used for erecting piers of any desired height from 6 to 12, 18, 24 mm and more. The base plate 467 P.3 serves as foundation for the piers.

The heaviest grade over which our locomotives will pull a train is about 4%, and to reach the height of a pier 467 P.30 five track sections are necessary which are mounted on 1, 2, 3 and 4 pier sections 467 P.6 (see instructions).

467 P30 Bridge Pier
Brickwork imitation, finished in brown. Can be raised by additional sections 467 P.30 on 467 P.6. Height 30 mm.

467 P6 Bridge Pier
For building approaching ramps. Height 6 mm.

467 P3 Base Plate
Finished in green. Height 3 mm.

MODERN STATION SET

419 415 423
Can be used as Through Station or as Terminal Station.

415 Station Building
Can be used separately or together with main building 419. Cut out windows with celluloid panes, doors to open, provision for electric illumination with station light 481. Size: 44.5 x 13.5 x 8 cm.

419 Station Main Building
with entrance hall and terrace. Cut out windows with celluloid panes, doors to open, imitation clock, removable roofs, provision for electric illumination with station light 481. Size: 51.5 x 13.5 x 16 cm.

423 Station Platform
suitable for stations 415 and 419 or any other station set. With waiting room, stairs to subway, seats, timetable board. Size: 51.5 x 8.8 x 8 cm.

Illustration shows how the new station buildings 415 and 419 and the station platform 423 can be composed to a accurate model through station. All these parts can also be used separately.

The whole set consists of station buildings 415 and 419 and 4 station platforms 423 (without trains and tracks).

A set of Figures 404 G, including a station master, porter, passengers etc. will be a realistic addition to this model station set.
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