



This is primarily a catalogue of our productions for the H0 Gauge. Information regarding 0 Gauge is contained in an illustrated booklet "The Big 0 Gauge" obtainable from any toyshop. We cannot supply you direct from our Works. We reserve the right to alter our designs; dimensions and weights are given without guarantee. This catalogue cancels all previous ones.

GEBR.MARKLIN&CIE.SM

Makers of fine metal toys

GOPPINGEN/WURTTEMBERG



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To all MARKLIN fans:

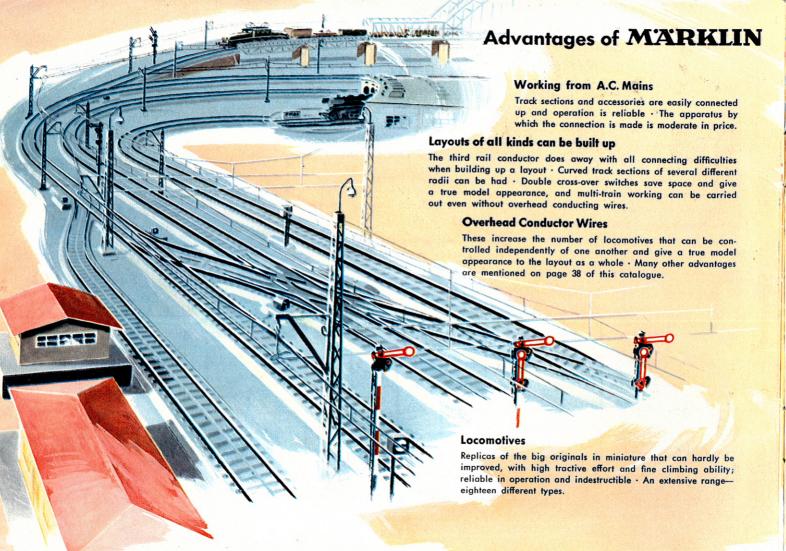
This is a catalogue of our models already famous by their popularity over the years and also of our latest productions as well, thus presenting a comprehensive list of our entire range which is, in itself, so extensive as to provide something for everyone. Among our latest productions meriting special mention is the Railbus and trailer, No. DB 800 K, which we have brought out in response to the very special wishes of our fans and which is an outstandingly successful model of the original.

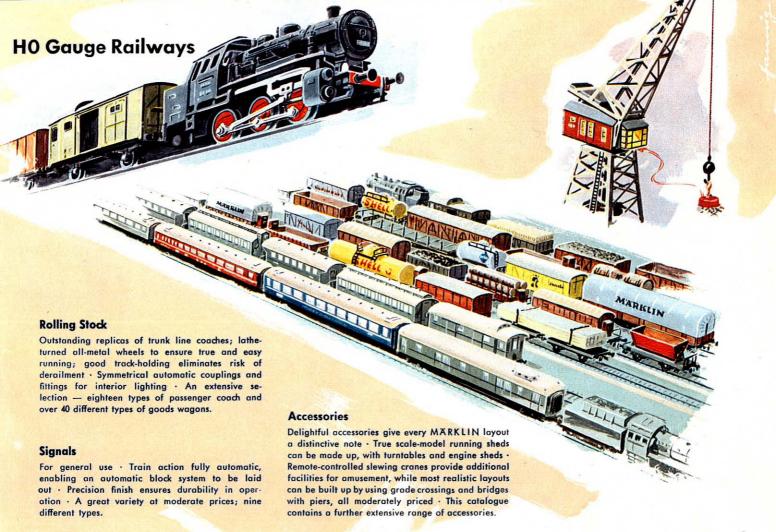
This catalogue shows our favourite and finest models developed by experienced designers taking advantage of the most up-to-date technical progress. Modern factories using selected materials and the decades of experience possessed by our skilled specialists form the basis for the outstanding quality of MÄRKLIN productions that are so highly esteemed the world over.

Please make your choice. You are sure to find just the models you want to give you more and more pleasure. If, after selecting what you want for Christmas, you would like to have it by then, our only advice is to order early. The demand for our productions is so great that stocks in toyshops are seriously depleted already months before Christmas, so that the wishes of a great many of our fans can no longer be met.

Now that you are about to enter the wonderland of engineering we can only hope that our productions will be a neverfailing source of joy and pleasure to you as to all MARKLIN fans.

GEBR.MARKLIN&CIE.SH.GOPPINGEN/WURTT.





Powerful Tank Engines



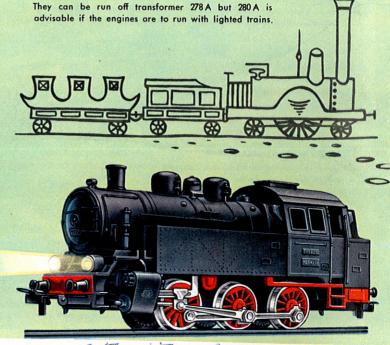
CM 800

German Federal Railways Class 89 0-6-0 tank engine, reversing by remote control and hand lever · Plastic tyres on rear driving wheels increase the tractive effort and climbing power · The specially low-geared motor ensures long service and enables the engine to run slowly as well · Two electric headlights; dull black unbreakable plastic body, cast metal frame · Scale model reproductions of the boiler fittings, cab, coal bunker and water tanks · Strong coupling hook at each end · Length over buffers about 4½ in.; weight about 7½ ozs.

TM 800

German Federal Railways Class 80 0-6-0 tank engine, reversing by remote control and hand lever · Plastic tyres on rear driving wheels · Specially powerful · Two electric headlights · Dull black, strong all-metal body with excellent reproductions of the boiler fittings · Automatic couplings at each end · Length over buffers, about 51/4 in.; weight about 141/2 ozs.

These engines are great favourites as they can be used for either passenger or goods service and especially for shunting in marshalling yards and sidings; their appearance and the ease of placing them on the track are other advantages. Their easy running on curves, great power and harmonious design are notable features of these models.



A Very Successful Model

MARKLIN

The latest German Federal Railways locomotives are the Class 23 engines used on medium and heavy passenger and express and light fast and goods services. Engine and tender are built by the latest welded method of construction and designed to run at 65 m.p.h. forward and 55 m.p.h. in reverse. As these engines are allowed to travel at high speed on main line services they are frequently used for heavy suburban and interurban traffic as well, instead of tank engines.

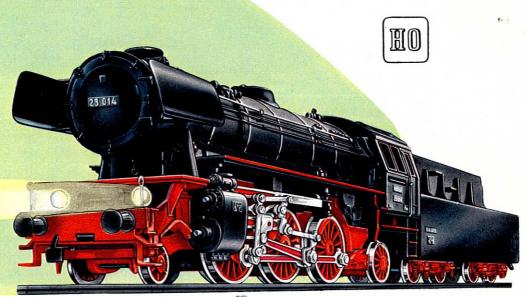
DA 800

2-6-2 passenger train locomotive and tender, reversing by remote control and hand lever · Heusinger valve gear · Both pony trucks are sprung to prevent derailment and provide easy running on curves · Front coupling hook on pony truck to give easy coupling · Plastic tyres on rear driving wheels to increase tractive effort · Specially low-geared drive · Two electric headlights · Dull black unbreakable plastic body with scale model reproductions of the boiler fittings and all-over cab of its big original · Cast metal frame; tender close-coupled to engine, reproducing the welded prototype · Automatic coupling and many details · Length over buffers, about 9¾ in.; weight, with tender, about 16 ozs.



This model will run off transformer 278 A, but 280 A is advisable for lighted trains.





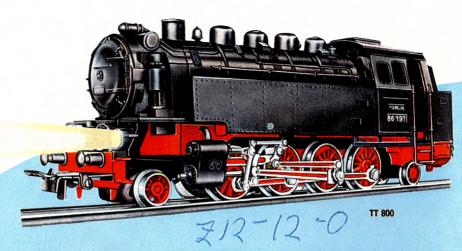
27-15-0

Indestructible Models

280 A transformer required

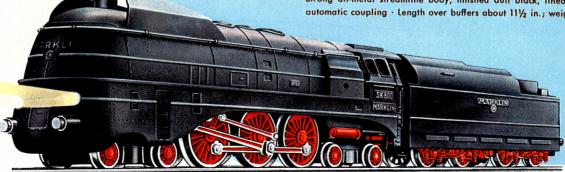
TT 800

German Federal Railways Class 86 2-8-2 ("Mikado") Tank Locomotive, reversing by remote control and hand lever. Heusinger valve gear. Plastic tyres on rear driving wheels to improve tractive effort. Specially low-geared motor enabling engine to run slowly as well. Two electric headlights front and rear switch over automatically when engine reverses. Strong all-metal casing with numerous details, finished dull black. Automatic couplings front and rear. Length over buffers about 61/2 in.; weight about 22 ozs.



SK 800

Streamline Express 4-6-4 Tender Locomotive, reversing by remote control and hand lever · Plastic tyres on rear driving wheels to improve tractive effort · Leading and trailing bogies with spoked wheels are sprung to prevent derailment · Specially low-geared motor; two electric headlights · Strong all-metal streamline body, finished dull black, lined silver · Double-bogie tender with automatic coupling · Length over buffers about 11½ in.; weight with tender, about 32 ozs.



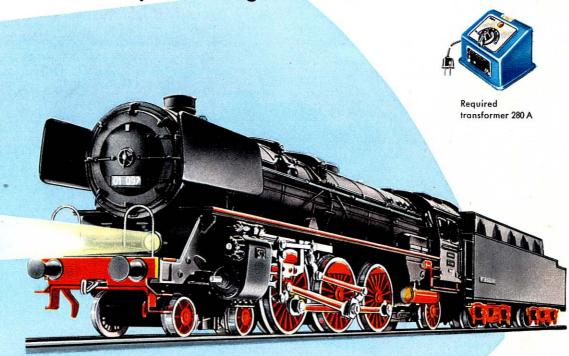
SK 800

213-2-6

HO

This is one of the finest MARK-LIN model locomotives made and is a true replica in miniature of the German Federal Railways' Class 01 express locomotive. Outstanding features are its fine proportions and excellent performance—a model that no set should be without.

A Super HO Gauge Model



F 800

Express 4-6-2 ("Pacific") Tender Locomotive, reversing by remote control or hand lever · Heusinger valve gear · Leading bogie and trailing truck are sprung to prevent derailment · Coupling for banking engine · Negotiates curves easily · Plastic tyres on rear driving wheels · Excellent tractive effort and climbing power · Specially low-geared motor · Two electric headlights · Strong all-metal casing finished dull black · Boiler fittings, cylinders and deflectors are faithfully reproduced · Double bogie tender with automatic coupling · Length over buffers about 11 in.; weight with tender, about 26 ozs.

711-2-6

Long-distance goods traffic on the German Federal Railways is constantly increasing and is hauled over non-electrified stretches by the powerful Class 44 locomotives; that is why this type of engine is seen so often on the long main line stretches, arousing interest and wonderment among all railway enthusiasts. Its particularly pleasing appearance and powerful design are the reasons for reproducing it by this fine model.

Heavy Goods Locomotive Requires transformer 280 A

"Decaped" 2-10-0 type · The frame is divided into two separate motive units, giving excellent running even over short-radius curves · Reversing by remote control or hand lever · Heusinger valve gear · Plastic tyres on rear driving wheels to improve tractive effort and climbing power · All coupled wheels driven and all wheels flanged · Leading pony truck sprung to prevent derailment · Front coupling fixed to pony truck for easy coupling · Will negotiate curves extremely well · Specially low-geared motor gives slow-running also · Two electric headlights · Strong all-metal body, finished dull black with scale-model reproductions of all boiler fitting details · Deflectors true to scale · Double bogie tender with automatic coupling · Length over buffers about 11 in.; weight with tender about 34 ozs.

GN 800

I16-4-0

A Twin-unit Locomotive with exceptional pulling power

As the name implies, this is a model of a type having an outstanding performance, and its twelve wheels are all driven by a propeller shaft. Pantograph bow collectors supplied can be screwed on to the roof without requiring any tools, thus making the model into an electric locomotive.





DL 800

Twin-unit Electric Locomotive, 0-4-4-4-0 type with Jacobs centre bogie · Reverses by remote control and hand lever · The extra powerful motor driving through all twelve wheels provides outstanding tractive effort · Three electric headlights at each end switch over automatically when the engine reverses · Switch lever gives optional current pick-up from overhead wire or third rail, pantograph bow collectors being supplied with the engine for attachment as required · Reddish-brown strong all-metal body with numerous details · Low centre of gravity eliminates risk of derailment · Automatic couplings at each end · Length about 17 in.; weight about 40 ozs.

221-7-6

75-1-3 , CE 800

The models on pages 10 and 11 require transformer 278 A, but transformer 280 A is advisable for lighted trains.

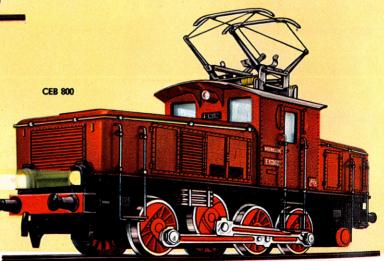
CEB 800

Electric Shunting Locomotive · The same as CE 800 above, but finished brown colour.

A Model in Great Demand

CE 800

Electric Shunting Locomotive, German Federal Railways 0.6-0 Class E 63 · Spur-gear driven jackshaft; reverses by remote control and hand lever · Plastic tyres on rear wheels increase tractive effort and climbing power · Specially low-geared motor gives durability in service and also allows the engine to run slowly as well · Two electric headlights at each end switch over automatically when the engine reverses · Switch lever gives optional current pick-up from overhead wire or third rail · Special lightly-sprung current collector · Green unbreakable plastic body with separate handrails fitted and numerous details · Cast metal frame; cellon windows; strong coupling hooks at each end · Length over buffers about 4¾ in.; weight about 9 ozs.



25-1=3



76-7-6 RSM

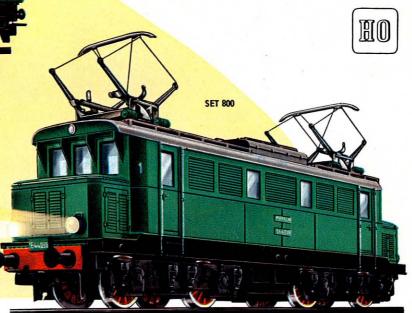
SET 800

Electric Locomotive for General Service, 0-4-4-0 type. The four inner wheels are driven by the motor, with the leading and trailing wheels in pony trucks to give better freedom of running on curves. The axles are arranged so as to give the impression of the 0-4-4-0 arrangement of the big Class E 44 of the German Federal Railways. Reverses by remote control and hand lever. Plastic tyres on one set of driving wheels give great pulling power. Two electric headlights front and rear switch over automatically when engine reverses. Switch lever gives optional current pick-up from overhead wire or third rail. Two sprung pantograph bow collectors. Well-designed green all-metal body with numerous details. Automatic couplings at each end. Length over buffers about 6½ in.; weight about 25 ozs.

General-purpose Locomotives

RSM 800

Mixed-traffic 0-6-0 Electric Locomotive, reverses by remote control and hand lever · 2 interchangeable headlights · Switch lever gives optional current pick-up from overhead wire or third rail · Well-designed green all-metal body; cellon windows · A very strong model with splendid pulling power, easy to handle and place on the track, even on curves · Automatic couplings at both ends · Length over buffers about 5 in.; weight about 151/4 ozs.



27-15-0

Outstanding Replicas of Western European Locomotives

The prototype of the SEH 800 locomotive is used for the Netherlands Railways express services in Holland, and the prototype of SEF 800 is in use in France.





SEH 800

Electric 0-4-4-0 type Express Locomotive, with the same wheel arrangement as SET 800 · Reverses by remote control and hand lever · Plastic tyres on one set of driving wheels give very great pulling power · Two electric headlights front and rear switch over automatically when engine reverses · Switch lever gives optional current pick-up from overhead wire or third rail · Two sprung pantograph bow collectors · Blue all-metal body lined silver with porthole-type windows in sides · Automatic couplings at both ends · Lenght over buffers about 7½ in.; weight about 26 ozs.

SEF 800

Electric Locomotive the same as SEH 800, but with green finish.

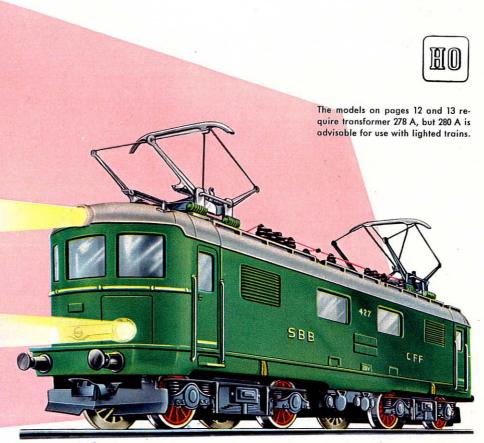
The Favourite Swiss Locomotive

MARKLIN

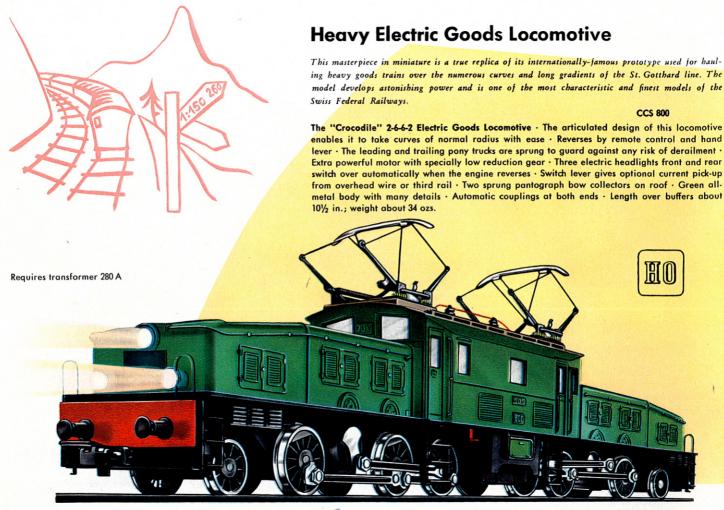
Their big prototypes, the Class Re 4/4 locomotives, are used in Switzerland for drawing the light express trains that are so popular. Both individually as well as in the train series as a whole, this is a most outstanding type of locomotive and its successful replica is an acquisition to any set. The RET model gives as sensational a performance on its miniature track as its big prototype does on the line.

RET 800

Electric Locomotive · An eight-wheeled locomotive with the same wheel arrangement as the SET 800 · Reverses by remote control and hand lever · Plastic tyres on one set of driving wheels give very great pulling power · Three electric headlights front and rear switch over automatically when the engine reverses · Switch lever gives optional current pick-up from overhead wire or third rail · Two sprung pantograph bow collectors on roof · Green all-metal body with numerous details · Automatic couplings at each end · Length over buffers about 6½ in.; weight about 23 ozs.

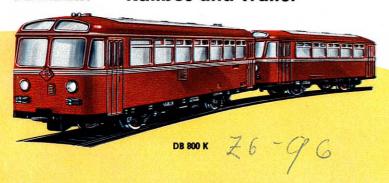


716-13-9



220-0=0

Railbus and Trailer



DB 800 K

Railbus and Trailer

Railbus · Four-wheeled, reverses by remote control and hand lever; plastic tyres on driving wheels · Lights at either end and interior lighting by two bulbs · Red unbreakable plastic body with many details · Cast metal frame, with fine plastic reproductions of the axleboxes, springs and track guards · Cellon windows · Latest type symmetrical couplings at both ends allow the two cars to be unusually close-coupled · Length over buffers, about 5¾ in.—with trailer, about 11 in.; weight about 9½ ozs.

71-18-9

DB 800 B

Railbus Trailer · Sheet steel frame with fine plastic reproduction of axleboxes, springs and track guards · Plastic body with many details · Cellon panes in windows · Red tail lights at both ends with interior lighting by one bulb and pick-up shoe for lighting current · The special symmetrical coupling is only suitable for the railbus · Length over buffers about 4% in.

DB 800 K model requires transformer 278 A

ST 800 model requires transformer 280 A



ST 800 MT

Extension Unit (centre portion), length about 7½ in.

The ST 800 three unit train can be lengthened by one or two more cars by a simple snap connection that connects up the lighting for the centre cars as well. These extra cars are supplied with the same colouring as the front and rear cars, so please state colour required when ordering.

72-19-6

Diesel Express Train

ST 800

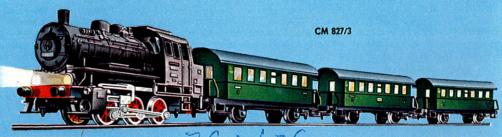
Diesel Express Train · Three units running on four 4-wheeled bogies, each of the two centre trucks ("Jacobs' type) being common to two cars · Reverses by remote control and hand lever · Extra powerful motor · The low centre of gravity ensures safety in running, even at high speeds · Three white electric headlights in front and two red electric tail lights · Switch lever gives optional current pick-up from overhead wire or third rail · Pantograph bow collectors supplied with the engine for screwing on to roof · Strong metal body in red or blue and ivory finish · Cellon windows · Interior lighting by four bulbs · Train about 22½ in. long; weight about 47½ ozs.

725-6-3



Popular-priced Quality Sets

Despite their very moderate cost, these train sets are some of the most outstanding models in our production series. Through their being so reasonable in price, anyone can afford to have a MARK-LIN train set at a very moderate outlay.



CM 827/3

Local Passenger Train (without transformer), consisting of tank engine CM 800 and three 327/1 passenger coaches · The train is approximately 19 inches long and the track consists of twelve 3600 A curves and two 3600 D straights, including the current feeder section.

CM 805/3

Local Goods Train (without transformer), consisting of tank engine CM 800 and three goods wagons; length of train about 163/4 in. . Track: twelve 3600 A curves and two 3600 D straights, including the current feeder section.



are to be lighted.

The train sets on pages 16 and 17

require transformer 278 A, but

280 A is advisable if the trains



CM 805/3

Train Sets with Oval Tracks (without transformer)

MARKLIN



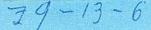
CE 807/3

Goods Train (without transformer) consisting of CE 800 electric locomotive and three plastic goods wagons · Train about 17½ in. long, with twelve 3600 A curves and two 3600 D straights, complete with current feeder section and instructions.



CE 829/3

Local Passenger Train (without transformer), consisting of CE 800 electric locomotive and three 329 coaches · Train about 22 in. long, with twelve curves 3600 A and two 3600 D straights, complete with current feeder section and instructions.



DA 846/3

Express Train (without transformer), consisting of DA 800 steam locomotive, 346/1 express passenger coach, 346/2 dining car and 346/4 luggage/guard's van · Train about 36 in. long, with twelve 3600 A curves and six 3600 D straights, complete with current feeder section and instructions.

DA 846/3

715-15-0

CE 829/3

More Complete Train Sets





215-15-0



SEH 846/3 J

Western European type Electric Express Train (without transformer), SEH 800 electric locomotive, 346/1 express coach, 346/2 J dining car and 346/4 luggage/guard's van · Train about 321/s in. long, with twelve 3600 A curves and six 3600 D straights, including current feeder section and complete with instructions.



RET 848/3

Swiss Light Express Train (without transformer), consisting of RET 800 electric locomotive, 348/1 light express coach with sliding doors, 348/2 light express dining car and 348/4 luggage/guard's van · Train about 33 in. long, complete with twelve 3600 A curves and six 3600 D straights, including current feeder section and instructions.

The double sliding doors are opened and closed by turning a knob on the roof of the coach.

319-13-9

Complete Train Sets ready to run, with oval tracks (without transformer)

MARKLIN

These complete sets make it easy for MARKLIN fans to choose the kind of train they like best. The track and accessories required, which are mentioned at the same time, make purchase easy. The set can be expanded just as its owner wishes, as the great variety of our productions imposes no limits whatever.

F 846/4

Express Train (without transformer), consisting of tender locomotive F 800, 346/4 luggage/guard's van, 346/3 sleeping car, 346/2 dining car and 346/1 express coach. Train about 46½ in, long, with fourteen 3600 A curves and twenty-one 3600 D straights, including current feeder section, one pair of 3600 MWS points, distributor, ground frame and six cables; complete with instructions.

As with all other train sets in this catalogue, dining cars and sleeping cars can also be supplied in the blue international colouring, so if you want this, please add "J" to the reference number when ordering.

SK 846/4 J

SK 846/4 J

Trunk Line Express (without transformer), consisting of SK 800 Streamline express locomotive, 346/4 luggage/guard's van, 346/3 J sleeping car, 346/2 J dining car and 346/1 express coach. Train about 46 in. long, complete with fourteen 3600 A curves and twenty-one 3600 D straights, including current feeder section; one pair of 3600 MWS points, distributor, ground frame, 6 cables and instructions.



Passenger Coaches of finely printed sheet steel

All coaches are fitted with automatic couplings and arranged for interior lighting



329/1 Local Coach with end entrances and platforms

327/1 Simpler type, as illustrated on page 49.



(/ (329/4

Luggage/guard's van, with sliding door both sides and guard's roof lookout.

Standard Type Coaches, with numerous details · Cellon windows; dark green with grey roof · Numerous markings · Length over buffers about 5½ in.



330/1 Without brakesman's cabin



330/2 With brakesman's cabin.

Coaches with separate Compartments, six-wheeled, with sides divided up into six compartments. Dark green with grey roof; numerous markings. Length over buffers about 51/4 in.

Light Express Coaches of the Swiss Federal Railways



All coaches have automatic couplings (all-metal stock) and are fitted for interior lighting

348/1

Light Express Coach, double bogie type, a replica of the Swiss Federal Railways (SBB) prototype · Bogies have equalisers to take up track irregularities · Two double sliding doors each side opened and closed by turning a knob on roof · Cellon windows ' Numerous details — vestibule connections, footboards, battery boxes and markings; dark green, with silver-grey roof · Length over buffers about 8½ in.



348/2 22-2-9

Dining Car · With pantograph bow collector for car lighting current · Window and roof ventilators · Vestibule connections · Ground glass windows to kitchen compartment · Battery boxes · Dark green, with yellow lettering and silver-grey roof · Length over buffers about 8½ in.

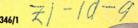
348/4

Luggage/Guard's Van · Sliding doors in sides · Barred windows; many details · Dark green, silver-grey roof, yellow lettering · Length over buffers about 51/4 in.

See page 37 for tail lights for 348 coaches.

Express Coaches All-metal type

All coaches fitted with automatic couplings, and arranged for interior lighting



Double-Bogie Express Coach · Detachable roof, real windows with cellon panes; dark green, grey roof, length over buffers about 8 in.

346/1 B

Express Coach, as 346/1, but with tail lights and bow collector.



346/2

Z 1 - 10 - 9

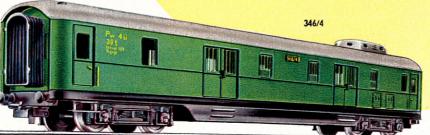
Dining Car, double-bogie type; a replica of the German Sleeping Car Co's. (DSG) car · Wine red, yellow lettering, grey roof; length over buffers about 8 in.

346/2 J

Dining Car as above, but a replica of the International Sleeping Car Company's car (ISG) · Blue, yellow lettering, grey roof · length over buffers about 8 in.

346/4 21-10-9

Baggage Čar · Windows with bars · Two double sliding doors on each side · Dark green · Length about 8 in.





The model coaches illustrated are replicas of the double-bogie coaches used on long-distance express services. Sheet-steel bodies, finely printed, with colours true to the prototype. Bogies have equalisers to compensate for irregularities in the track.

Very easy running on curves; vestibule connections; detachable roof; real windows with cellon panes. The length of these express coaches has been so proportioned as to allow them to run freely over the sharpest standard curves.

346/6

Trunk Line Express Coach, double bogie, of the German Federal Railways · Blue, with silver roof and lettering · Length over buffers about 8 in.

346/5

Express Post Office Coach · Barred windows; stamped simulated double doors; eight roof lights · Green, with yellow lettering and grey roof · Continental Post Office post horn marking · Length over buffers about 8 in.



346/3 J

Sleeping Car, double bogie—a model of the International Sleeping Car Company's (ISG) stock · Blue, with yellow lettering and grey roof · Length over buffers about 8 in.

346/3

Sleeping Car, double bogie—a model of the German Sleeping Car Company's (DSG) stock · Wine red, with yellow lettering and grey roof · Length over buffers about 8 in.



Z1=10-9

21-10-9

Inexpensive Thermoplastic Freight Cars



305/1 Low-sided Goods Truck · Brown, length



Tipping Truck · Red, to fip either side; with locking gear · Length about 31/4 in.



305/2 / 3 / 62
Low-sided Goods Truck · Brown, loaded with miniature Ford "Taunus 12 M" car; length about 4 in.



306/1
Closed Goods Van Brown, with grey roof; about 4 in. long



306/2

Closed Goods Van · Brown, with grey roof; lettered diagonally · Length about 4 in.



306/1 S

Closed Goods Van Brown with grey roof; well-designed electric tail lights at sides and current pick-up shoe; length 4 in.



391/1 Low-sided bogie Goods Truck · Brown, length about 71/4 in.



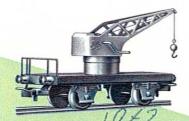
Low-sided bogie Goods Truck Brown, loaded with two 3½-ton Mercedes lorries; length 7¼ in.

MO

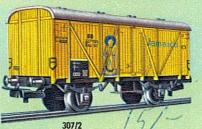
Four-wheeled wagons with sheet steel frames, die-cast wheels and plastic bodies; finished enamel. The lengths given are measured over the buffers.



Refrigerated Van · White, with red lettering · Roof has imitation ventilating flaps · Length about 4 in.



Crane Truck · All-metal, aluminium colour; slewing jib with hand winch · Length about 31/4 in.



Banana Van, with picture of a banana gatherer · Yellow, with blue lettering and white roof · Length about 4 in.



rulverised Coal Wagon · Two silver-coloured pulverised coal containers with fillers and connected by runway with ladder each side · Length about 4 in.



Wine Wagon, with two barrels and ladder each side Barrels light brown with word "BORDEAUX"; length about 4 in.



393 C

Bogie Tilt Truck · Brown, with white tilt cover; length about 71/4 in.



Open Platform Bogie Truck with stanchions - Sheet steel body; length about 71/4 in.

392 C



Tank Wagon · "ESSO", silver · Steel chassis with plastic bodies · Length about 4 in.



304 S

Tank Wagon · "SHELL", yellow, Steel chassis
with plastic bodies · Length about 4 in.



Tank Wagon · "ARAL" (petrol), silver · Steel chassis with plastic bodies · Length about 4 in.



311

21-0-6

Open Goods Truck · Brown or grey; length about 3½ in.

311 \$ With imit. load of macadam Z / -

311 H With imit. load of pit props

311 K With imit. load of coal



Low-sided Goods Truck, with brakesman's cabin · Brown, length about 4½ in.



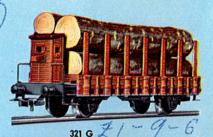
Tilt Truck with brakesman's cabin ·
Brown, with white tilt cover · Length
about 41/2 in.



All-metal Wagons

21-7-0

Open platform truck with stanchions as above, but without load of timber.



Open platform truck with stanchions, with load of timber (tree trunks) · Brown; length about 41/2 in.



Large-capacity Goods Van with brakesman's cabin and grey arched roof · Brown; length about 4½ in.

These goods wagons have die-cast zinc frames with light metal alloy bodies. The greatest care has been taken in the scale-model reproduction of all details. All four-wheeled wagons have imitation brake shoes and automatic couplings.



Goods Train Luggage/Guard's Van · Green, with grey roof · Doors on one side open, the other closed · Length about 3¾ in.



Beer Van with brakesman's cabin · White · Length about $4\frac{1}{2}$ in.



315

Open Goods Truck with brakesman's cabin · Brown or grey · Length about 4 in.



314 E

Tank Wagon with brakesman's cabin · Light grey "ESSO" · Gangway with ladder and fillers · Length about 4 in.

314 G Ditto, white "GASOLIN" (petrol)

314 S Ditto, yellow "SHELL"

314 BP Ditto, green "BP."



326

Banana Van with brakesman's cabin · Yellow, with white roof · Length about 4½ in.



316

Goods Van with brakesman's cabin · Brown with grey roof · Length about 4 in.



320 S

Large-capacity Goods Van with brakesman's cabin and arched roof · Two electric tail lights and current pick-up shoe · Length about 4½ in.



324

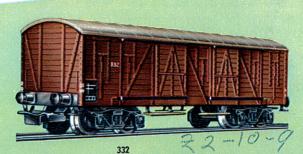
Refrigerated Van, with brakesman's cabin · White · Length about 4½ in.

Super-Model All-Metal Goods Stock

All wagons have automatic couplings



Open Bogie Goods Truck · Brown, length about 51/2 in.



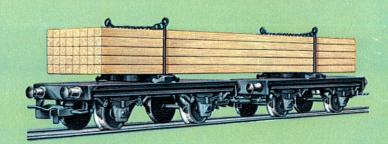
Bogie Goods Van · Brown with grey roof · Sliding doors to open · Length about 5½ in.

Easy running on curves · Bogies with imitation springs, Numerous details



Large-capacity Bogie Tank Wagon · Yellow, "SHELL", with brake handwheel, handrails, ladder and gangway, and filler Length about 51/2 in.

334 E Large-capacity Bogie Tank Wagon as above, but light grey - "ESSO"



361 G Timber Truck, loaded with boulks of timber \cdot Black; two units; length about $7\frac{1}{2}$ in.

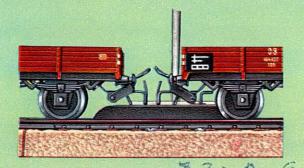
21-13-0

y2 -17 - 9



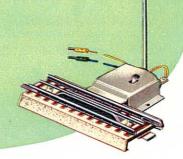
Remote Control Uncoupler

All MÄRKLIN locomotives and rolling stock are fitted with automatic couplings (see illustration) that couple simply by pushing together · The MÄRKLIN automatic coupling is designed so that it can be uncoupled by remote control operating through a special section of track for uncoupling, pressing the button on the controller being all that is required · As all shunting operations can easily be imitated by this means, the uncoupling device will certainly provide a great deal of pleasure.



3600 EKS

Uncoupling Track Section • Uncouples stock automatically by ramps that can be raised on either side of the centre rail • A signal lamp on a post lights up when uncoupling is taking place • Supplied with two connecting leads • Length of track section about 3½ in.



Raising the ramps releases the coupling and the rolling stock can be shunted over a hump.

MARKLIN Standard Track with Centre Conductor Rail



The 3600 track sections consist of all-metal bollow rails forming the MARKLIN standard centre-rail track. A circle is made up of 12 curved sections 3600 AI/1 giving an outside diameter of 30 in. The track sections have stamped imitation ballast and contact tongues that are proof against short-circuiting.



3600 D1/1 Straight section, about 7 in. long



3600 DV₂ Straight section, about 3¹/₂ in. long.



3600 D1/4 Straight section, about 13/4 in. long.



3600 D³/14 / 5 Straight section, about 15/16 in, long



3600 D1/8 Straight section, about 1/4 in. long.



3600 K Crossing, about 71/2 in.long

21-7-0

12 curved sections make a circle 30 in, in diameter



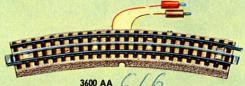
3600 A¹/₁
Curved section, length 7½ in.



3600 AV₂ / Curved section, length 334 in.



3600 A1/4 2 Curved section, length 17/8 in.



Feeder section, curved, 2/connecting cables.
3600 DA

Feeder section, straight, 2 connecting cables.



3600 BSD Contact section, straight.
3600 BSA Contact section, curved



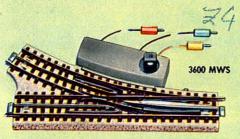
Electro-magnetic Points for Remote Control,

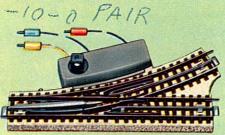
with double-solenoid operation

The 3600 MWS electro-magnetic points and 3600 DKWS double slip points are operated by double solenoids. Electric ground signals show the position of the points. If the points should be forced open derailment cannot result and they will return to their original position automatically.

3600 DKWS

Double Slip Points, operated by double solenoids. Electric ground signals change their indications in accordance with the settings of the points, just as their originals do Six connecting cables. Manual operation is also provided by two rotating knobs. Straight length 71/16 in.; curved length 71/12 in.;





Pair of Electro-magnetic Points, one right-hand and one left-hand, both operated by double solenoids. Electric ground signals. Three connecting cables to each point. The lengths are the same as track sections 3600 $D^{1}/_{1}$ and 3600 $A^{1}/_{1}$.





Pair of Manually-operated Points, with crossings, guard rails etc. and flexible tongues · Dummy ground signals · Rail lengths the same as 3600 MWS.



Twelve track sections make up a 36-inch diameter circle, including the road bed.



3700 A¹/₁ Length 9 in. 3700 A¹/₂ Length 4¹/₂ in.

Curved Sections for circle of double track to build up double track systems. The 3600 DA track sections are used for feeder sections and the standard models of points, crossings and slip points are used. Using an inner circle made up of the 3600 A sections the circle diameter will be 30 in., while a circle of 3700 A sections gives a

diameter of 36 in. The distance between the two centre rails will then be about 3 in.

The Ideal Model Track with Centre Studs instead of a third rail



This model track combines the advantages of the third-rail track with the scale-model appearance of the two-rail track. As in their full-size counterpart, the sleepers are separate from the usual road bed. Very effective track replicas can be made up with double tracks; a circle of 1900 sections gives a diameter of 471/2 inches including the road bed, while the diameter of a circle of 3800 sections is about 44 inches. A circle requires either 16 track sections of 3900 A or 3800 A, giving a distance between track centers of 2 inches and about 3/8 in. between the beds. 3600 sections can be used with the model track sections 3900 without difficulty.



3900 DV₂ T/ Straight section, 4³/₆ in. long.



3900 D1/4 4/ Straight section, 23/16 in. long.



3900 A¹/₁ Curved section, 9 in. long.



16 sections give a circle 471/2 in, in diameter

Straight extra section, 4½ in. long
Used to make up double track using points and crossings.



3900 D1/1 Straight section, 15/4 in. long.



3900 D¹/₈ 7/ Straight section, 1³/₃₂ in. long.



3900 A1/2 Curved section, 6 41/2 in. long.



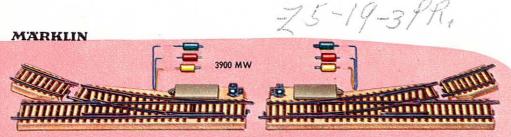
3900 A1/4 Curved section, 21/4 in. long.



3900 BSD Straight contact section, 83/4 in. long.



3900 BSA Curved contact section, 9 in. long.



Pair of Electro-magnetic Points, one right-hand, one left-hand · 9 in. long, including extra sections 3900 ZR and ZL . The curved line is three-quarters of the length of 3900 AV,1 track section . Bulb 485 Flexible tongues . Three connecting cables.



Extra section, left-

hand, 21/4 in. long



3900 ZR Extra section. right-hand, 21/4 in. long



3900 ZD 4 Extra section straight, 21/4 in. long

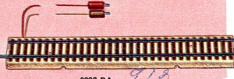


Crossing, 8 in long

For crossings and points, if any, when not connected with other points and crossings but with straight and curved track sections.



Curved feeder section, 9 in. long, with two connecting cables



3900 DA

Straight feeder section, 83/4 in. long, with two connecting cables

Full instructions for building up track are included with both these feeder sections



16 track sections make a circle 44 in. in diameter, including the road beds



Curved section, 81/2 in. long



3800 A1/2 Curved section, 4 /in. long



Contact section, 81/4 in. long

The Efficient MARKLIN Transformers

The steel casings of these transformers and their very effective insulation—which is tested to several thousand volts—together with the automatic short-circuit cutout, obviate all possibility of contact with the mains side and thus ensures safety against all risk. Connection to the mains is by plugs and leads permanently fixed to the apparatus. These transformers can be supplied for mains voltages of 110, 125, 150 or 220 volts, so please specify the mains voltage required when ordering.

The 8-16 volts low-tension current is regulated to show the speed of the train on a scale. Speed regulation is infinitely variable, requiring no additional apparatus and is combined with the switch for reversing the running direction of the trains (Perfect reverse 24V) in a single controller. The current supplied for operating the railway is 8 to 16 volts for the track ("B" sockets) and 16 volts for lighting and magnetic unit operation ("L" sockets), the current returning in both cases through the earthing socket ("O").



Transformer · Output 16 VA; weight about 18 ozs · Dimensions, 4½x3½x2¾ in.

Transformer · Output 30 VA; red pilot light · Weight about 36 ozs · Dimensions, 5½x4¾x4 in.

Accessories for Remote Control and Lighting

MARKLIN



Control plate, with eight socket connections for operating four doublesolenoid accessories . The positions of the various electro-magnetic accessories connected to it can be seen by the positions of the control buttons on the plate itself.

Switch Panel, for switching on the

current for the railway or lighting to

four different conductors via 4 tum-

bler switches; length 3 in., width 11/2

in.



Distributor, with 9 sockets; size 21/8 by 3/4 in.

1 2 3 4

9 10 11 12 2 21 22 23 24

ARKLIN

13 14 15 16



489/1

489/2

Lead, single, with one plug and one socket, in any of the colours red, brown, black, blue or yellow; 39 in, long,

Lead, single, with one plug and one

socket, in any of the colours red, brown,

The MÄRKLIN wiring system uses chief-

Red: Power circuit (from transformer to centre rail or overhead

Brown: Earth return from perma-

nent way, lighting points or con-

Yellow: Lighting and electro-

troller to transformer.

magnetic accessories.

black, blue or yellow; 79 in. long.

ly the following colours, viz:

wire).







in red, blue, brown, black, green, orange.



Double plug for connecting two sockets or two boxes.



497/3 P

Pair of brushes to suit practically all HO gauge locomotives. Springs are only needed with the older type locomotives.



Cross Plug/ a double plug 490 Z but also enables two nected.

, yellow and		n.
1000		
	490 Z	3

Socket, for using plugs to be con-

Lamp /		
Bayonet fitting	clear red or green	2/
5 mm thread 6 mm bulb	clear red or green	1/

499

No.

485

5 mm thread 9 mm bulb

clear frosted red or green

497/4 P

Pair of brushes for Nos. CCS 800, DL 800 and ST 800.

497/3 LP

Pair of brushes as 497/3 P for specially slow running. Can only be used in pairs.

	Į.	21	
	9	3	
		3	
r		~	

Blue: Earth return from electro-magnetic accessories to the controller or contact rail section (with green, red or orange plugs).

Set of Number Plates, for mark-

ing points, signals etc., consisting of 12 cast bases with slots into which numbers from 1 to 24 (to be cut out) can be inserted.

433 G 12

489 Gp

33 ft. of cable, packed separately in the colours most used.

Switch Panel, for switching four different railway or lighting circuits on or off by four tumbler switches; length 3 in., width 11/2 in.

Some Popular HO Gauge Track Layouts

Fig. 3600/602 Oval

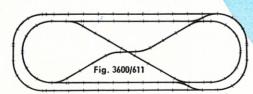
Size 59 in. by 30 in.; track sections: 11 A. 1 AA. 8 D



Size 82 in. by 30 in.; track sections: 19 A, 1 AA, 4 A1/2, 6 D, 1 K

> Fig. 3600/605. Oval with loop

Size 59 in. by 34 in.; track sections: 11 A. 1 AA, 10 D. 1 D1/4. one pair of "W" points



Double track with two cross-over reversing loops Size 116 in. by 40 in.; track sections: 25 A, 1 AA, 50 D, 4 D1/2, 2 D1/4, 6 D1/8, 2 pairs of WMS points. 2 DKWS. 1 K



753/2

Booklet "The MARKLIN HO Gauge Railway and its Big Prototype", a handbook for MARKLIN model fans. 168 pages, size 81/4 in. by 53/4 in. . Contains suggestions for track layouts with a landscape background; the MARKLIN locomotives and their big prototypes; MARKLIN locomotives and rolling stock, Railway operation signalling regulations: Railway operation: Electric circuit systems for multi-train operation, and many others.

763/2

Booklet Track Layouts for HO Gauge Toy and Model Railways" (probably available towards the end of the year). Contains plans for 3600 and 3700 standard track only.



Station lamp standard. suitable for platforms, station forecourts and also street lighting . 5 in. high, base 1 in. diameter · Takes bulb 495: lead with metal plugs

high.

MARKLIN

Stencil, transparent

plastic, for drawing

(scale 1 to 10).

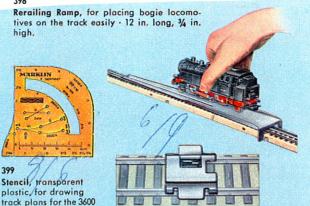
and 3700 track sections

448/5

Arc Lamp, 6 in. high, 11/a in. diameter · Takes bulb 495; lead with metal pluas.

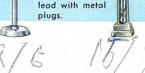
448/3

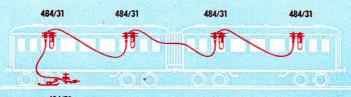
Arc Lamp with lattice mast, for use with overhead wire system · 8 in. high. base 1x11/4 in. . Takes bulb 495: lead with metal



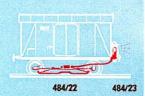
397/12

Coupling Jig. nickel-plated sheet steel, for straightening bent coup-





484/12



484/21

Electric Train Lighting

MARKLIN



484/12

Interior lighting for passenger coaches 329 and 330, with connecting socket for additional lighting.



484/21

Current pick-up for coach light 484/31.



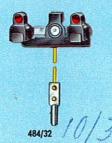
484/22

Current pick-up for coach light 484/31 and tail lights 484/33 when using passenger coach 327 and four-wheeled goods stock.



484/31

Coach lighting for all main line express coaches, with connecting socket for additional lighting · Takes bulb 485



Tail lights for coaches 329/1 Takes 2 bulbs 485 · Requires 484/12 for connection.



Tail Lamp with bulb 485; fixes on buffer (not for use with 346 coaches . 484/12, 484/21, 484/22 or 484/31 required for connecting.

HO Gauge Plastic Tyres,

to fit the latest type MÄRKLIN HO gauge locomotives.

No. Fits locomotives Nos.

496/12 DT, DL 800

496/13 CM 800

496/14 SE, SEW, RES 800

496/14/1.6 CE, SET, RET, SEH, SEF, CEB

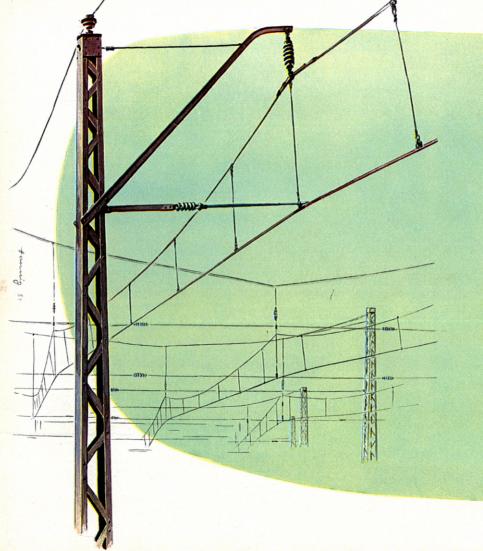
and DB 800

496/16 TM, RM, TT, G, RSM 800

496/16/1.6 GN 800

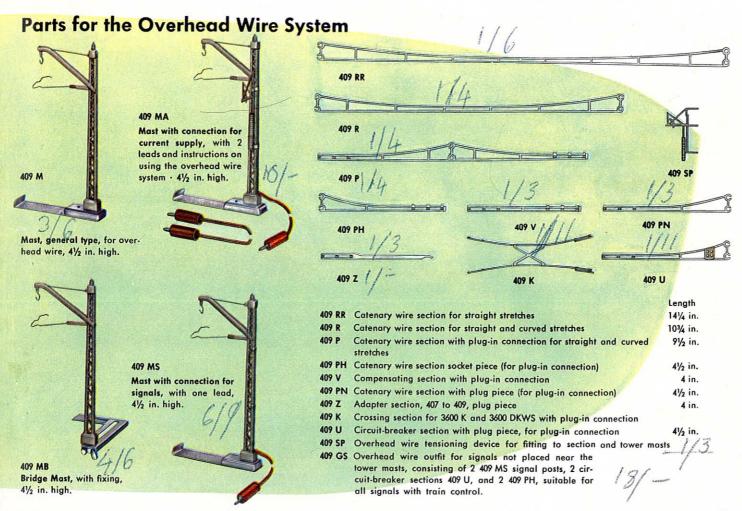
DA 800, S 870 496/20 SK, F 800 496/22

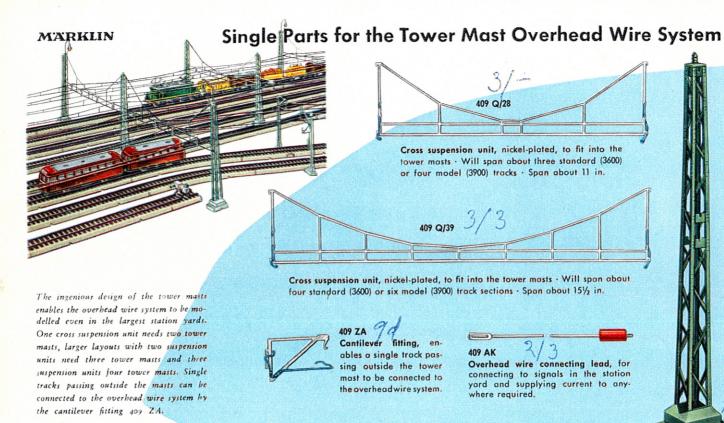
Instructions for fitting are included in the instructions for the locomotives.



The **MARKLIN** Overhead Wire System

- A realistic model of the overhead wire system on the main line sections as well as at busy stations.
- The overhead wires and their cross supports are true scale models.
- The plastic masts are flexible and yet strong at the same time.
- The sprung overhead wire suspension avoids voltage drop to the greatest extent possible.
- Erection is easy and does not require any tools. No alterations necessary to the wires.
- Adjustments in length are easily made by the push-in connections.
- Flexible overhead wire for both curved and straight stretches of track. Wire section 409 RR is for building up long straight sections only.





Tower Mast, thermo-plastic, with detachable cap Base, about 1½ in. square; 6½ in. high For tower mast with arc lamp see page 36.

Overhead wire (catenary) insulation · Insulates the catenary wire sections from the cross suspension units · One required per track and suspension unit · Illustration

shows full size.

409 J

409 BG Fixing

Fixing Kit, consisting of 5 screws, 5 nuts and 5 washers · Usually the normal equipment is adequate for installing the overhead wire system but in rare cases it may happen that two catenary wires can only be joined by means of screws and nuts.

The MARKLIN 446 Range of Signals

Marvels of precision and reliability, true to scale and unbreakable—nothing could be more suitable than these fine model signals for building up a true model MÄRKLIN railway and helping to make its working as entertaining as it is exciting. All signals are noteworthy for being miniature scale model replicas of the essential features of their prototypes, as well as for their fine detail finish. All posts are made of die-cast zinc and are practically indestructible.

These signals can be placed anywhere on either the standard or model track sections, on either the right or left of the permanent way and along either straight or curved sections.

The baseplate fixes the signals to the track sections quite firmly.

The indications of all signals, as well as the positions of points, is shown on the ground frame controller by the double solenoid operation of the electro-magnetic switch-gear. The solenoid coils are made of specially durable materials.

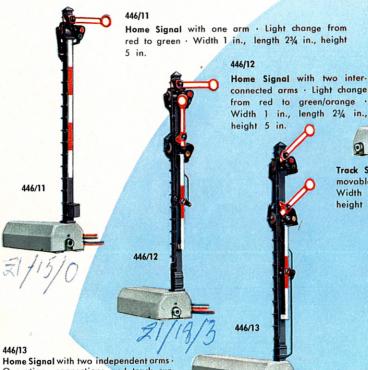
Train Control is provided by power current switches with silver contacts at all home signals, track block signals and fly-shunting signals without using any special additional appliances.

Fully-automatic Block Working, i. e., controlling several trains by automatic signal operation, is easily arranged with all MARKLIN home signals.

Distant Signals can be interconnected with home signals as well as points, so as to give mutually interconnected working.







Home Signal with two independent arms.

Operation, connections and track current control as with all signals for train control, but with an additional third solenoid. The current returns through

an extra blue lead with an orange cross plug-in connection. Through the mechanical interconnection of the two armatures the three possible signal indications are provided by supplying current to one solenoid only in each case · Light change either from red to green or red to green/orange · Width 1 in., length 4% in., height 5 in.

These signals — home, block or shunting — are all fitted with track power cutouts providing train control by overhead wire and third rail independently of each other.

The electro-magnetic switchgear of the home signal 446123 and shunting signal 446122 is fitted with three solenoids and that of the other signals with double solenoids. The current transmitting spring on the track current cutout have silver contacts and can therefore stand very heavy track currents.

Every signal has lead connections with cross plug-in fittings marked in the colours for the circuits and lighting. Two plug-in connections for the overhead wire and one for the earth return complete the electrical connection system. The lighting is by bulbs 485; third rail insulation 3600 Z; baseplate and instructions are included with every signal.



Colour-light Home Signal · Light change from red to green; lighting by No. 485 bulbs, red and green · Extra lever for manual operation of signal · Width 11/8 in., length 23/4 in., height 31/4 in.

446/21

Track Stop Signal · Post with

movable front and rear discs .

Width 11/2 in.: length 23/4 in.,

Fly-shunting Signal · The arm has three positions—
"Stop"—"Fly-shunt slowly" and "Fly-shunt moderately fast" · The current is cut off in the "Stop" position and switched on in the "Slowly" and "Moderately fast" fly-shunting positions. Connecting leads: Yellow with yellow plug; blue with red plug; blue with green plug; blue with orange plug.
Width 1 in., length 37/s

Width 1 in., length 3 in., height 51/8 in.

Distant Signals without Train Control



446/1

Distant Signal without semaphore arm · Double solenoid · Light change from orange/orange to green/green · Two blue leads for automatic operation, connection to the ground frame or for connecting with the home signal · Yellow lead for current supply · The three plugs—red, green and yellow—are the cross-socket type · Used mostly together with home signal 446/11 · Width about 1½ in.; length ½, in., height ½, in.



Distant Signal, with movable arm and fixed disc · Operation, lights and leads as 446/1 · Light change from orange/ orange to orange/orange/green · Used mostly together with home signal 446/12 · Width about 11/6 in.; length 21/4 in.; height 23/4 in.

446/3

Distant Signal, with movable arm and disc; 2 double solenoids · Light change either as 446/1 or 446/2 · Three blue leads with red, green and orange cross-socket plugs · Used mostly together with home signal 446/13 · Width about 11/8 in.; length 21/4 in.; height 23/4 in.



446/99

"MXRKLIN Book of Signals," 1955 edition · A completely illustrated guide to the 446 series of signals generally · Revised and enlarged edition.





Connecting lead for third (centre) rail, 3 in. long

446/91

Universal Remote Control Switch for switching on, off and reversing track and lighting current and also the actuating current of electro-magnetic accessories · Can be controlled via contact rail sections, around frame controller or by means of the supplementary hand levers · Can be used in all sorts of ways, such as, for example, switching the lights on and off while trains are in motion, cutting out train control by the signals in certain directions of travelling-all described in the Instructions and in the 1955 edition of the Signals Book, 446/99.





3600 J / E Isolating Indicator for marking isolated sections

43

Locomotive Sheds





Loco Sheds with three tracks, with roof lights, smoke troughs, interior lighting and three doors that close automatically · Lacquered in colours · (Track dead ends not included) . Size 141/4 by 141/2 in.; height 51/2 in.

Remote-controlled Turntables

and overhead wire system not included) . Fittings for the provision of interior lighting with two No. 481 lampholders and also for the overhead wire set No. 409 LG later on · Size 13 by 7 by 6 in. · Distance between

412

409 LG

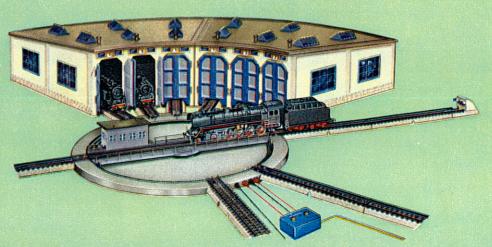
track centres about 35% in.

Overhead Wire Set for loco shed 412, consisting of two overhead wire suspension units.

Loco Sheds with doors for dead ends closing automatically, roof light and real windows · (Locomotives, track dead ends

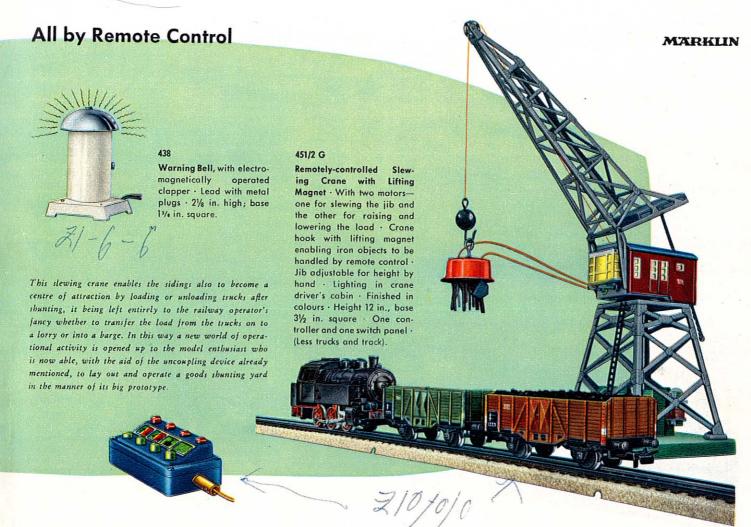


410 NG



Turntable Set, consisting of 410 N turntable, 14% inches in diameter, with remote control to turn in either direction; reversing switch 410/4 and lead . Two 411 B loco sheds or three 412 sheds can be used with this turntable set . Turntable track has guard rails and engine house . A red warning light flashes when table is turning · Current is automatically cut off from all dead ends in the running shed that do not register with the track on the turntable.

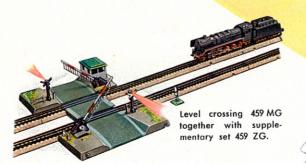
This illustration shows the harmonious combination of two loco running sheds and the turntable as a true replica of the actual prototype.



Level Crossings with Automatic Barriers



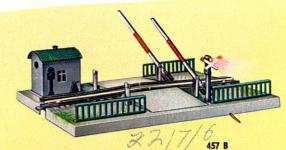
This level crossing can also be arranged for multi-track operation as well by means of the supplementary set 459 ZG described and then works fully automatically just the same.



459 MG

Fully-automatic Level Crossing Consists of two electromagnetically operated barriers, crossing keeper's hut, warning lamp, warning signs and a set of contact rail sections (four straight track sections).

The crossing is worked entirely automatically, the barriers closing when the train passes over a contact rail section a few sections away from the crossing, the warning lamp lighting up at the same time. The barriers are lifted automatically and the warning light goes out as soon as the train leaves the last contact rail section.



Mechanically-operated Level Crossing for single-line tracks. The barriers close by the wheels pressing down a track bar as they pass over it. With crossing-keeper's but and railings. Warning cross with red bulb lights up when the barriers close. Base 5% by 7 in.



459 ZG

Supplementary Set for each additional track, consisting of a set of contact rail sections with intermediate section 459 Z for inserting into the intervening space between the two tracks.

Contact Rail Sections 3600 KG Straight 3600 KGR Curved

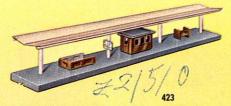


450 G

Warning Cross with flashing light for fixing at crossings. The set consists of a warning cross road signal with two leads and plugs and one No. 3600 KS contact rail section. The red warning light flashes when the train passes over the contact rail section \cdot 2 in. high; base of flashing light, $1\times13/4$, in.; contact rail section 3/2 in. long.



Platform with corrugated iron roof and seat · Base 4 by 13/4 in.; height 31/8 in.



Platform with Roof with waiting room, stairs to subway, seat and timetable board . Length 201/2 in.: width 31/8 in.; height 31/8 in.



Station Buildings with tower and terrace · Modern window shapes and fine details recently added / Clock and terrace windows have cellon panes · Base 131/2 by 43/4 in.; height 61/2 in.



452/1

Tunnel, made of finely-stamped sheet steel . Can be placed over all straight and curved track sections that can also be equipped with the overhead wire . 93/4 x 51/2 x 5 in.



Railway Figures · Can be supplied in three different types · a and b: Travellers and railway staff; c: Permanent way staff · In boxes of ten · Figures are 1/8 of an in. tall.



Stop Block, stamped imitation concrete · Base has 3600 track section · Length 23/8 in.



Lampholder with 499 clear bulb and lead; for stations, goods sheds etc.



397/11 G

50 Staples for fixing leads to wooden surfaces.



431

Distant Signal Warning Boards, set of three, each 13/s in. high.



432

Distant Signal Board 1 in. high.



Stop Block with dead end lamp to light . Die-cast zinc buffer beam · Track section of 3900 model track type, but can also be used with 3600 track sections.

3

467 P/30 c Bridge Pier, thermoplastic, 13/4 in. high.

467 P/6 c Bridge Pier,

thermoplastic, ¼ in. high · Specially designed for laying bridge approach ramps with a ¼ in. gradient from pier to pier.

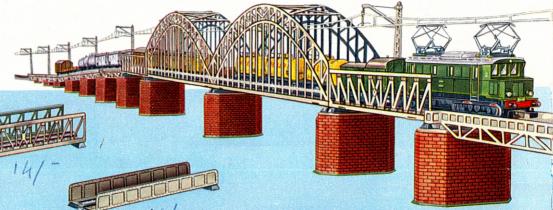


466

467 P/3 c
Base Plate for use as a foundation · Green, height ½ in. · Thermoplastic.

Scale Model Bridges

These bridge-building parts fit together like the parts of a building set and can be used to build up bridges of any type and size with their approaches. 467 P/6 c and 467 P/30 c pier-building parts enable bridge piers to be built to any height by 1/4 in. stages. Base plate 467 P/3 c makes a most effective foundation for these piers.



Girder Bridge, can be used either by itself or together with the arched girder bridge 467/2 as an approach bridge · Grey · Complete with track, 71/4 in. long and slot for 409 MB overhead wire most ·

Height 13/4 in.

21-19-

track 71/4 in. long and slot for 409 MB mast for overhead wire · Height 1 in.

Plate Girder Bridge

Grey, complete with

Arched Girder Bridge · Grey, complete with track 141/4 in. long · Slots for two 409 MB overhead wire masts · Height to top of arch 43/4 in.

Ramp sections can be used with the bridge piers to build up straight and curved approaches. They are complete with track and slots for the 409 MB overhead wire masts.

468 A
Curved Ramp Section,
standard 3600 radius
Grey · Length 7½ in.

468 D

Straight Ramp Section · Grey · Length 7 in.

MARKLIN

HO-Gauge Miniature Clockwork Railways





Train 151/2 in, long.

Clockwork railways are exceedingly popular and are notable especially for their durability and high tractive effort. The engine and tender are streamlined and have plastic bodies. The couplings are the same as on the electric railways. The track sections can easily be converted for use with electric traction.

All stock fitted with automatic couplings

Clockwork Locomotive, dull black, 0-4-0 streamline type with streamlined tender · Plastic cab · Hand levers for stop and go, and for forward and reverse running. Sturdy clockwork motor . Length with tender 71/2 in.; weight with tender about 5 ozs.

327/2

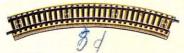
Passenger Coach, four-wheeled, red . Length 41/2 in. 327/1

Passenger Coach, the same as 327/2, but green.



Passenger Train Set with four-wheeled tender locomotive S 870: two 327/2 coaches · Eight 872 A1/1 track sections · Train 17 in. long.

Track Sections Eight 872 A1/1 track sections make up a circular track 24 in. in diameter.



872 A1/1

Curved Track Section, length 9 in.



872 D1/1

Straight Track Section, length 71/4 in.

872 MDG

Set of Parts for converting 872 D1/1 straight sections to electrical oper-

ation, comprising one length of straight third rail, two contact

tongues and four insulating tabs.

872 MAG

Set of Parts for converting 872 A1/1 curved sections to electrical operation, comprising one length of curved third rail, two contact tongues and four insulating tabs.

Miniature Motor Vehicles made either of Die-cast Zinc or Thermoplastic



5521/71 F

Lanz "Bulldog" Tractor with driver -All details carefully reproduced -Thermoplastic with special tyres -Length 3 in.

433/5

Metachromatype pictures Start numbers for racing car (5 x 3 numbers).

5524/11 A

Mercedes Formula Racing Car with Start numbers.



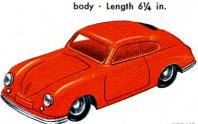
5524/11

Mercedes "Formula-type" Racing Car, die-cast zinc, length 4 in.



5524/3

Volkswagen Limousine, diecast zinc, 3½ in. long



5524/2

Petrol Tanker, modern six-wheeler articulated type, in

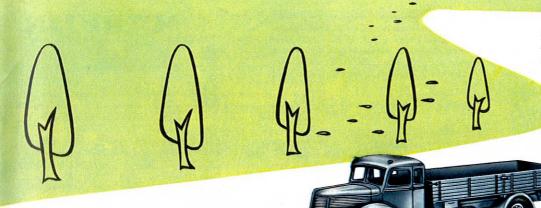
"B.V.-Aral" petrol colours . The two parts are detacha-

ble · Will turn in a very small circle · Thermoplastic

5521/27

Porsche Car, die-cast zinc, length 3% in.





Scale model replicas of their prototypes · Rubber tyres · Can be supplied in various colours · Scale about 1/45th full size



Trailer, suitable for either the 5524/10 lorry or the 5521/71 F Lanz "Bulldog" tractor Die-cast zinc, 4% in. long



5524/1 S

Mercedes 300 Car, die-cost zinc, 4% in. long

Limousine de luxe, die-cast zinc, 43/4 in. long

5521/52 S

5524/10

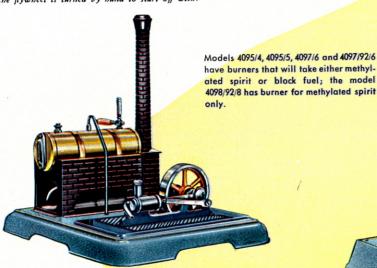
Suedwerke Lorry, die-cast zinc, 51/2 in. long



5524/5 Z

Volkswagen Delivery Van, in two colours; die-cast zinc \cdot 3½ in. long

MARKLIN Steam Engines have always been among the educational toys that are most eagerly sought, as they so clearly demonstrate how heat can be converted into mechanical energy, while the model engines that also drive dynamos show in addition how that mechanical energy can be converted into electrical energy to light an electric lamp and so heighten the impression given. Furthermore, these engines will drive all sorts of working models by means of shafting. All the engines have safety valves and are tested for pressure and performance: accessories such as fillers etc. are supplied with the engines. All engines run either forwards or backwards according to the direction in which the flywheel is turned by hand to start off with.



4095/4

Steam Engine, polished brass boiler, 2 in. in diameter, with safety valve, whistle and water gauge · Single-acting cylinder, flywheel and grooved pulley · Imitation brickwork stack, 10 in. high; baseplate 10 by 9 in.

4095/5

Steam Engine, similar to 4095/4, but larger. Polished brass boiler, 2 in. in diameter, with steam stop cock, safety valve, whistle, water gauge etc. Stack 141/2 in. high; baseplate 11 in. square.





Steam Engine as 4097/6, but with 3392 dynamo (see page 53) and arc lamp.



4097/6

Steam Engine, polished brass boiler, 2% in. diameter; steam stop cock, weighted-lever type safety valve, bell whistle, pressure gauge, water gauge, drain cock, filling screw · Fixed single-acting cylinder with lubricator, reverses, to run in either direction · Flywheel grooved for driving belt · Grooved pulley · Stack 151/2 in. high; baseplate 12 in. square.

Steam Engines

MARKLIN

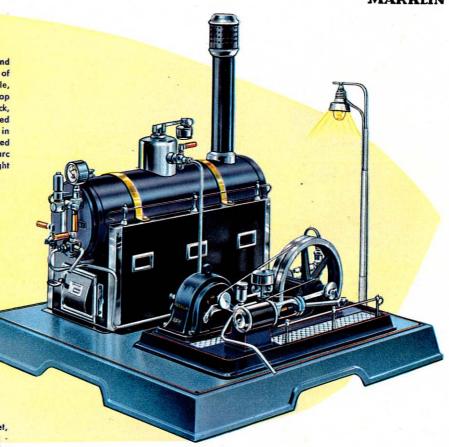
4098/92/8

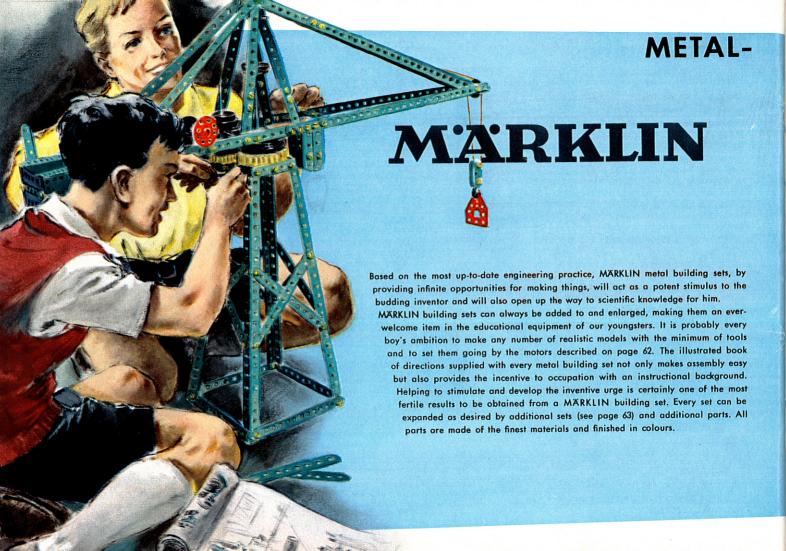
Model Steam Engine with Fire Tube Boiler, Feed Pump and Dynamo · Brass oxidised boiler, steel-blue colour, made of strong sheet brass, 3½ in. diameter, 10½ in. long · Bell whistle, steam dome, weighted lever-type safety valve · Steam stop valve, pressure gauge, three-way cock, water gauge, drain cock, safety-type methylated spirit burner, filling screw · Fixed double-acting cylinder with lubricator, reversible, to run in either direction · Lubricators, flywheel grooved for belt; grooved pulley; centrifugal governor, feed pump, 3392 dynamo and arc lamp · Baseplate 15 in. square · Flywheel 4 in. diameter · Height 13½ in. (with smokestack).



3392

Dynamo, for generating alternating current · Field magnet, H-armature, grooved belt pulley · Terminals · Cast housing · Output 2½ volts 0.2 amperes at 4,000 r.p.m. · Baseplate 2½ by 3½ in.; height 2½ in.





BUILDING SETS

Even the introductory sets contain a great number of parts to make up numerous realistic models with the aid of the book of designs supplied with the set, some of these being shown here.



Basic Set 100

Contains 166 constructional parts plus 43 clips, making 209 parts in all · Size of box, 16×12×1 in.; weight 41/4 lbs. This set increases the versatility and number of models considerably. Can be made up into basic set 101 by supplementary set 100 A.



Contains 124 constructional parts plus 27 clips, making 151 parts in all.

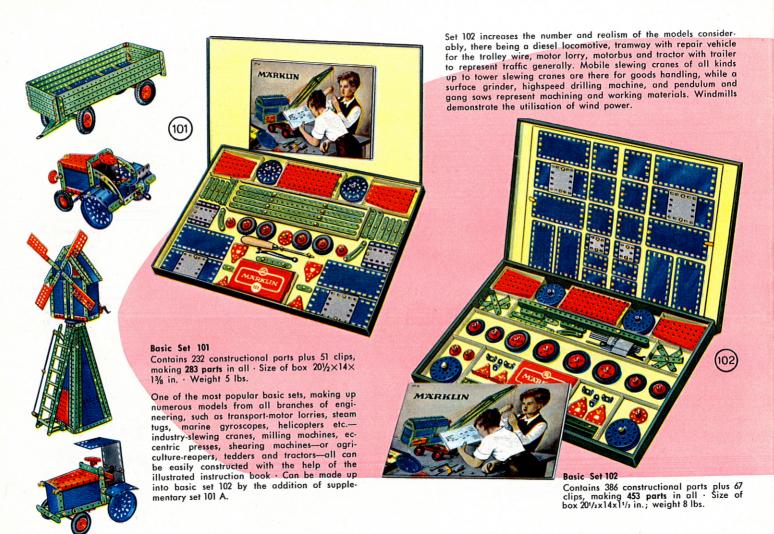
Size of box: 151/4×101/2×1 in.; weight 3 lbs.

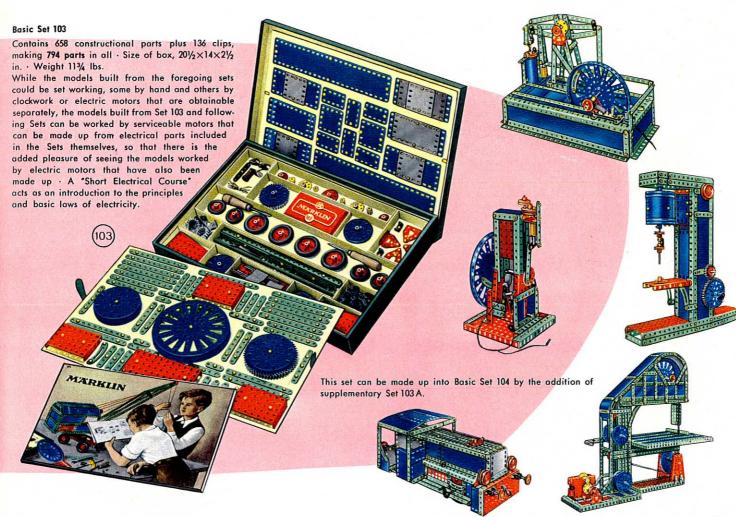
Can be made up into basic set No. 100 by supplementary set 99 A.

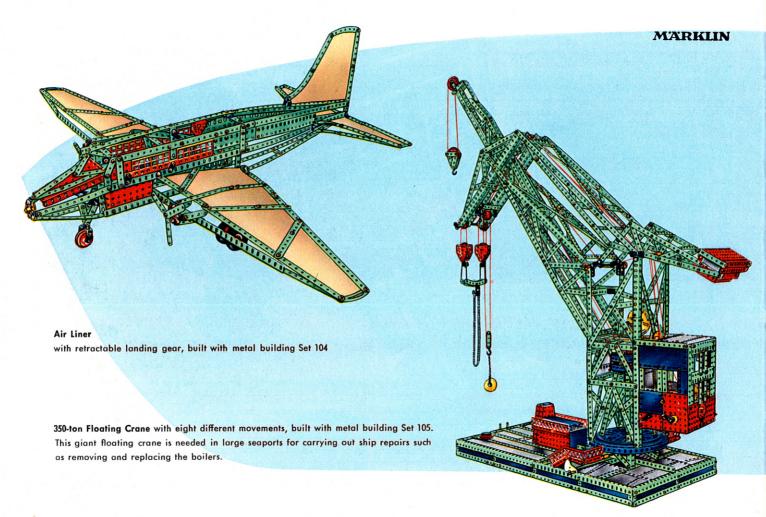


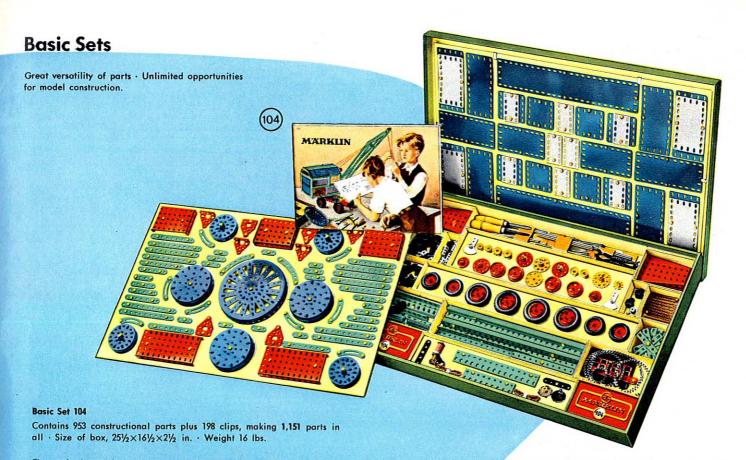




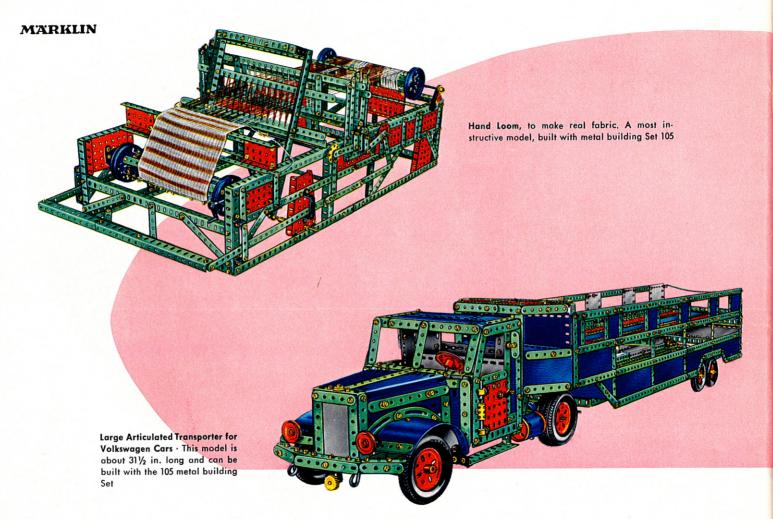


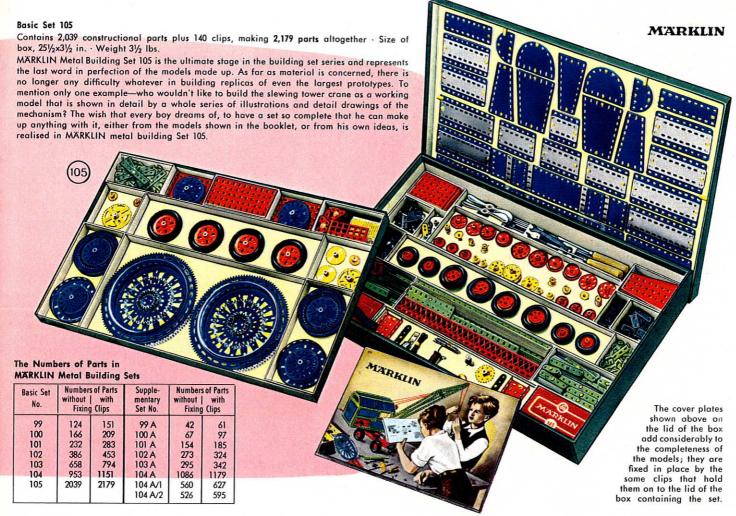


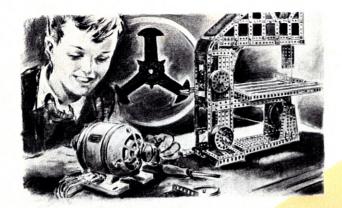




The perfection and true-to-prototype characteristics of the models increases from set to set and begins to reach a peak with the 104 Basic Set · As replicas of the real thing, each model requires several illustrations and detail sketches to show the details of its reproduction that are made possible by the versatility of the parts · A glance at the unique models makes it difficult for the eager owner of the set to decide on the model he will start off with, as the things that can be built with this Set are practically unlimited · This Set can be made up into Basic Set 105 by adding supplementary Set 104 A or the two new supplementary Sets 104 A/1 and 104 A/2.







Motors for driving Models

built from the Metal Building Sets

Great though the pleasure is for any boy to be able to work by hand the many models shown in the booklet, after building them up, one after another, with every part properly fitted together and every gear wheel meshed as it should be, how much greater will be the thrill of seeing them working by mechanical power in the shape of either a clockwork or electric motor? The three motors shown below are suitable for the models in every way—the clockwork or simple type of electric motor for the smaller models, or the universal electric motor for the very big models. This is another instance of the high educational value of MARKLIN Building Sets and their unlimited opportunities as regards both construction and operation.

Clockwork Motor



201 F

Clockwork Motor, reversing, to run forward or reverse and slowly or fast. Driving shaft with adjusting collar. Brake lever. With key and booklet, complete in cardboard box. Height 4½ in., width 3½ in., depth ¾ in. Weight 20 oz.

Electric Motors



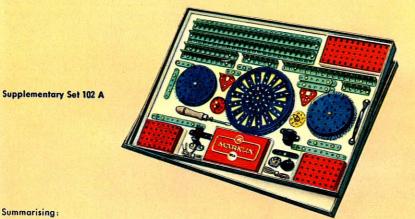
Electric Motor, simple type; reverses, to run in either direction. No-load speed about 1,500 r.p.m. Operates on 16 volts and so can be connected to any MARKLIN railway transformer. Accessories: Two leads 489/1 (red and brown) · Height 2½ in., width 2 in., depth 2 in. · Weight about 3¾ oz.



Universal Electric Motor, 16 volts · With leads and remote control switch for reversing direction of running · Two grooved pulleys on opposite shaft ends; speed regulated by transformer · No-load speed about 3,000 and 1,100 r.p.m. respectively · An extremely powerful motor designed for working the largest building set models as well as for driving dynamos and working models of all kinds · (It is advisable to use transformer 280 A only) · Three plugin connections · Height 2½ in., width 3¾ in., depth 2½ in. Distance between pulley groove centres 3½ in. · Weight 17 oz.

Supplementary Sets

Any basic set can be expanded to the next larger set by supplementary sets, the parts in which are added to those in the basic set to make up the new basic set. If, for example, you already have basic set 101 and would like to have the contents made up to basic set 102, you would have to get supplementary set 101 A.



Summarising:

Supplementary Set No. 99 A makes Set No. 99 into Basic Set No. 100 Supplementary Set No. 100 A makes Set No. 100 into Basic Set No. 101 Supplementary Set No. 101 A makes Set No. 101 into Basic Set No. 102 Supplementary Set No. 102 A makes Set No. 102 into Basic Set No. 103 Supplementary Set No. 103 A makes Set No. 103 into Basic Set No. 104 Supplementary Set No. 104 A makes Set No. 104 into Basic Set No. 105 Supplementary Set No. 104 A/1) make Basic Set No. 104 Supplementary Set No. 104 A/2 | into Basic Set No. 105

Any parts that are insufficient in number to build some particular model, as well as any special parts the sets do not contain, can be obtained separately to make up the sets, in addition to the supplementary sets mentioned above. Separate lists of such parts, as well as the actual parts themselves, are obtainable from any toyshop that stocks MÄRKLIN productions.

Some of the separate parts from the great variety that can be obtained from any toyshop.



"ELEX" Experimental Electrical Sets



ELEX 501

Basic Set with instruction book for about sixty experiments · Size of box, 13x734 in.



13470 UG

Experimental Transformer for connecting to the alternating current lighting system, with plug-in connections for 4-20 volts and red pilot light · Output 12 VA · Please state voltage of lighting system when ordering.

The MÄRKLIN-ELEX Sets are experimental sets complete in themselves and through them a youth is introduced to the basic principles of magnetism and electrical engineering. Special parts included in Sets 502 A and 503 enable experiments to be carried out up to the Wheatstone bridge stage—and even to the extent of making up a workable telephone system. Each set contains all the parts required together with a detailed and well-illustrated instruction book for all important experiments, and a pocket-lamp battery is all that need be added to begin experimenting. 13470 UG transformer is specially suitable for providing current for ELEX models from the house lighting supply (alternating current). Each basic set can be made into the next larger one by a supplementary set.



ELEX 502

Basic Set with instruction book for about one hundred experiments · Size of box, 161/2x9 in.

ELEX 503

Basic Set with instruction book for over one hundred and sixty experiments · Size of box, 2234x11 in.



Supplementary Set ELEX 501 A; makes ELEX 501 set into ELEX 502 Supplementary Set ELEX 502 A; makes ELEX 502 set into ELEX 503

Elex Models Some typical working models built from MÄRKLIN ELEX Sets. Electric Bell Morse Telegraph Electric Motor Galvanometer Lamp, with concave reflector

Crane with electro-magnet for lifting

Voltmeter

The Popular **MARKLIN**Motorcar Building Set

This building set contains all the parts required, including clockwork motor and figure of driver, to build the scale-model Mercedes-Benz racing car shown · Realistic appearance · Steers by steering wheel · Articulated axles · Powerful clockwork motor · Length of car 11¹/₂ in.



Racing Car Building Set · The racing car dismantled, in cardboard box, with clockwork motor, driver and full instructions for building.

