

# MECCANO

TRADE MARKS 296321, 501113, 76, 12633, 10274, 55/13476, 569/13, 884/25, 2913, 80, 124, 336, 4174, 91637, 83171, 157149, 32822, 200639, 209733, 214061, 214062, 12892, 29094, 33316, 1818, 16737, 383/13, 5848, 50204, 10/12258, 22826, 18932, 20063/925, 9048, 5549, 2189, 16900, 72286, 2389, 41812, 5403, 7315, 18066, 139420, 494933-4-5-6, 29041, 26877, 6595, 404718, 410379, 55096, 12240, 41234, 8223, 1855.

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901

## INSTRUCTIONS

FOR OUTFITS

### No. 00

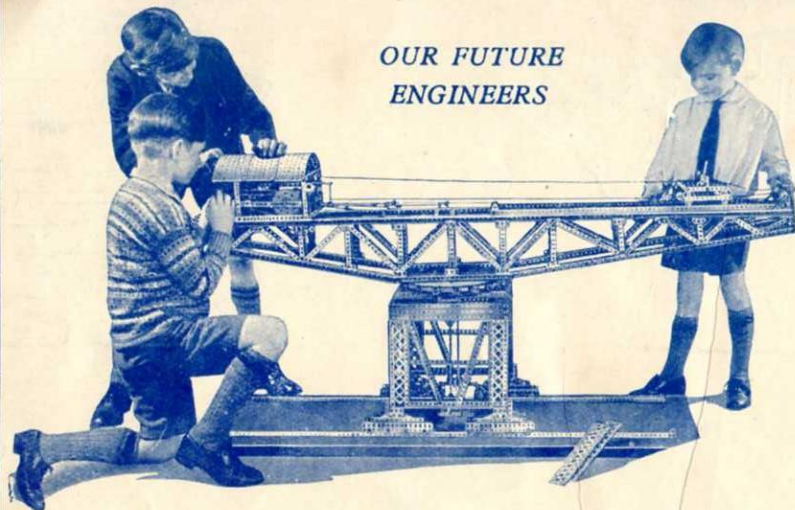


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No. 34.00

English Edition

### OUR FUTURE ENGINEERS



## A TALK WITH NEW MECCANO BOYS

The Meccano No. 000 and 00 Outfits are the first steps in the Meccano system. After you have made all the models shown in this Manual you will want to build bigger models and you may do this by adding new parts to your Outfit or, by purchasing a No. 00A Accessory Outfit, you may convert your No. 00 into a No. 0. You will then be able to build many more models, including larger and better Cranes, Bridges, Wagons, Trucks, Windmills etc.

### HOW TO BUILD WITH MECCANO

First build the models exactly as they are illustrated in the Manual, and then take each model and try to improve on our design. Every one can be made in a dozen different ways. Screw up all the nuts and bolts tightly to ensure that your models will be strong and firm when they are completed.

### MECCANO ACCESSORY OUTFITS

It is important to remember that each Outfit (with the exception of Outfit No. 000) may be converted into the one next higher by means of an Accessory Outfit. Your No. 00 Outfit is converted into a No. 0 by adding to it a No. 00A. A No. 0A will then convert it into a No. 1 and so on. As you progress in Meccano you obtain a greater variety of perfectly-made engineering parts—Gear Wheels, Pulley Wheels, Worm Wheels, Couplings, Cranks, and many others. These enable you to construct complicated mechanical movements without any difficulty. The most wonderful feature about Meccano is that it is *real engineering*: it is a fascinating and delightful hobby, and yet so simple that even an inexperienced boy may join in the fun without first having to study or learn anything.

### THE LIFE OF A MECCANO BOY

A Meccano boy is the happiest boy in the world. He builds models from the Meccano Instruction books; invents new models; enters the Competitions which are always being held in connection with the hobby; joins the Meccano Guild and a Meccano Club, and by wearing the Guild badge proclaims himself to be the friend of millions of other Meccano boys all over the world. Time never hangs heavily on his hands and he is too busy and too happy to grumble. He reads the "Meccano Magazine" regularly and corresponds with his friend the Editor when he feels like it.

If you are not already a reader of the "Meccano Magazine" write to the Editor, Binns Road, Liverpool 13, England, for full particulars of the current subscription rates. If you prefer to do so, you may order the Magazine from your Meccano dealer or from any newsagent or bookstall.

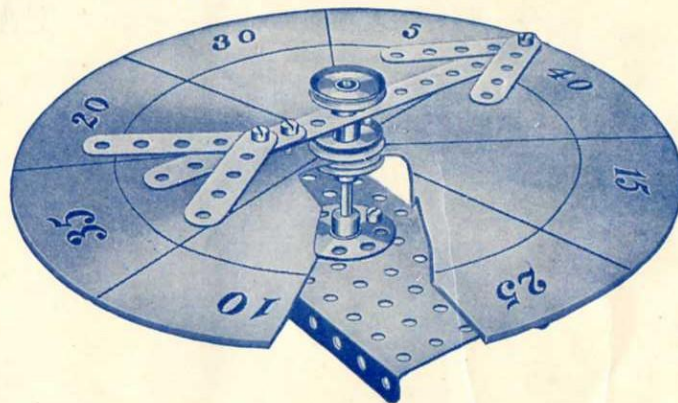
### MECCANO SERVICE

The service of Meccano does not end with selling an Outfit and an Instruction Manual. When you want to know something more about engineering than is now shown in our books, or when you strike a tough problem of any kind, write to us. We receive over 200 letters from boys every day all the year round. Some write to us because they are in difficulty, others because they want advice on their work or pleasures, or about their choice of a career. Others, again, write to us just because they like to do so and we are glad to know that they regard us as their friends.

Although all kinds of queries are put to us on all manner of subjects, the main interest is, of course, engineering. No one has such a wonderful knowledge of engineering matters as that possessed by our staff of experts. This vast store of knowledge, gained only by hard-earned experience, is at your service.

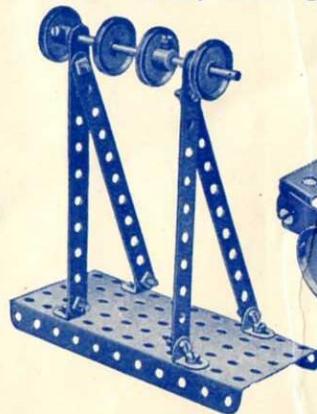
All these Models can be built with MECCANO Outfit No. 00

Model No. 00.6 Roulette Wheel

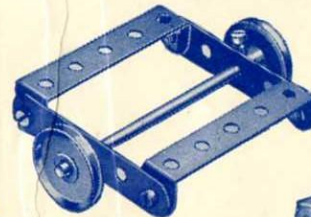


Cut out a circular piece of cardboard, and mark as shown to form scoring board. This is clamped between two 1" Pulley Wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" Pulley Wheel.

Model No. 00.7 Pulley Shafting



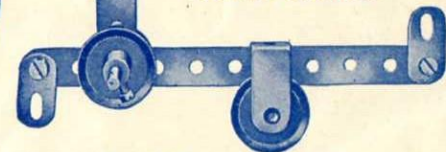
Model No. 00.12 Trolley



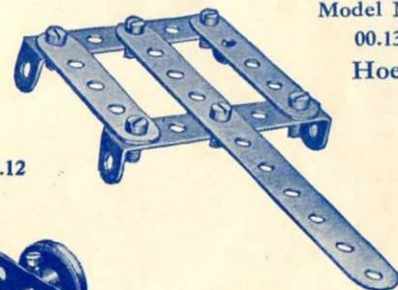
Model No. 00.9 Coat Hanger



Model No. 00.10 Roman Balance



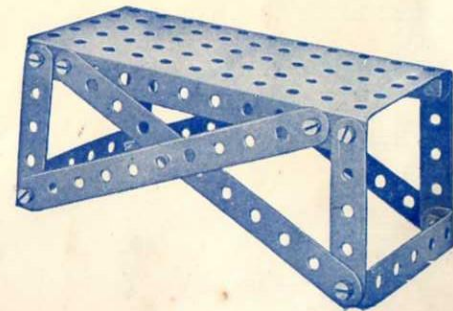
Model No. 00.11 Grill



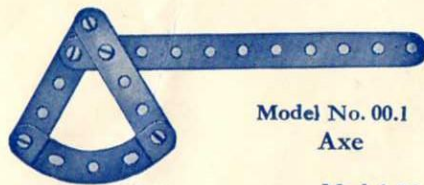
Model No. 00.13 Hoe



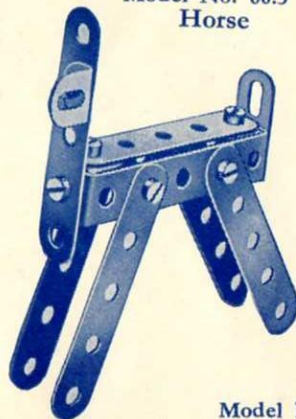
Model No. 00.14 Planing Bench



Model No. 00.1 Axe



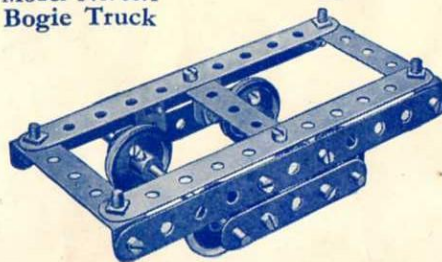
Model No. 00.3 Horse



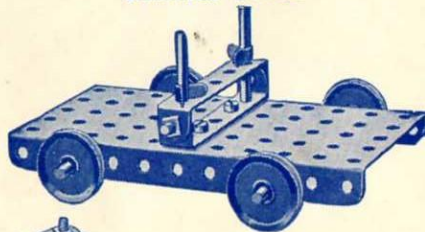
Model No. 00.2 Fork



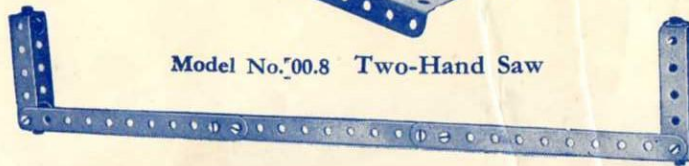
Model No. 00.4 Bogie Truck



Model No. 00.5 Lumber Truck



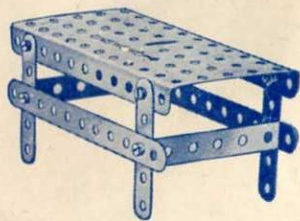
Model No. 00.8 Two-Hand Saw



4

All these Models can be built with MECCANO Outfit No. 00

Model No. 00.15  
Table



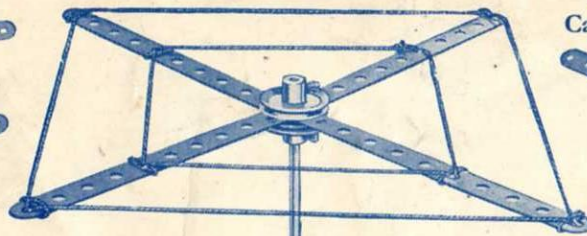
Model No. 00.17  
Dividers



Model No. 00.18  
Bench



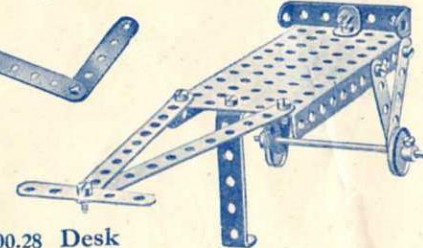
Model No. 00.22 Clothes Hanger



Model No. 00.26  
Carpenter's Square



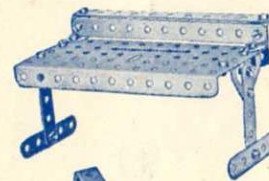
Model No. 00.27  
Shipyards Bogie



Model No. 00.16  
Meat Saw



Model No. 00.28 Desk



Model No. 00.29  
Farm Sight



Model No. 00.19  
Hand Cart



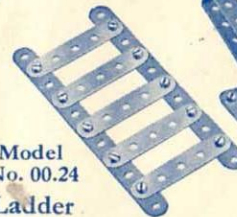
Model  
No. 00.21  
Fire-Axe



Model No. 00.23  
Velocipede



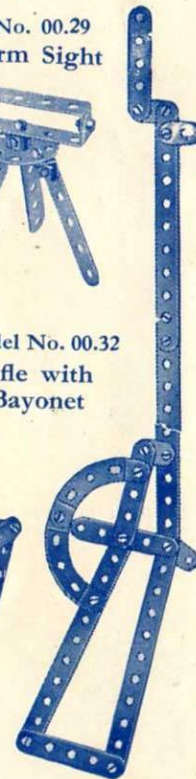
Model  
No. 00.24  
Ladder



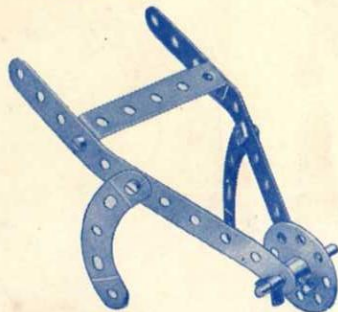
Model No.  
00.30  
Trowel



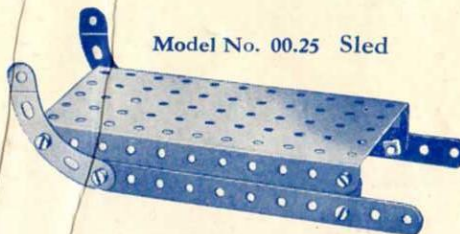
Model No. 00.32  
Rifle with  
Bayonet



Model No. 00.20  
Scarifier



Model No. 00.25 Sled

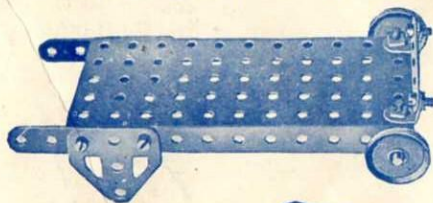


Model No. 00.31  
Barrow

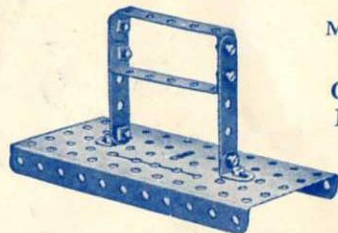


All these Models can be built with MECCANO Outfit No. 00

Model No. 00.33 Flat Truck



Model No.  
00.34  
Spade



Model No.  
00.35  
Cement  
Marker

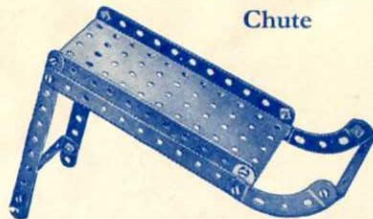
Model No. 00.36 Motor Boat



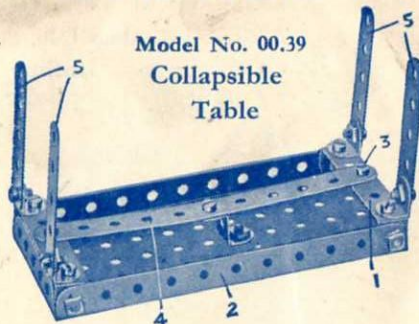
Model No.  
00.37  
Plasterer's  
Hawk



Model No. 00.38  
Chute



Model No. 00.39  
Collapsible  
Table



The  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips 1 are attached to the  $5\frac{1}{2}'' \times 2\frac{1}{2}''$  Flanged Plate 2 by lock-nutted Bolts as in Standard Mechanism No. 263. The Bolts 3 are secured to the  $5\frac{1}{2}''$  Strip 4 and their shanks engage with the centre holes in the  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips 1, thus maintaining the legs 5 in an upright position. When it is desired to fold up the legs 5, it is only necessary to raise the ends of the Strip 4, thus freeing the Double Angle Strips 1. The table is shown in the folded position in Fig. 00.39A.

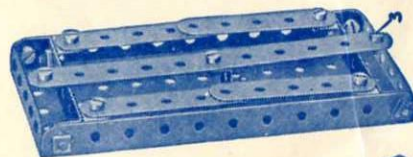
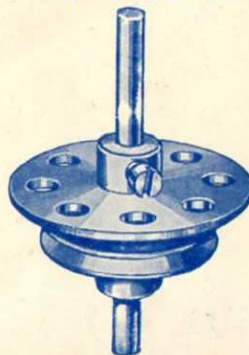


FIG. 00.39A

Model No. 00.40  
Spinning Top



Model No. 00.44  
Mason's Trowel



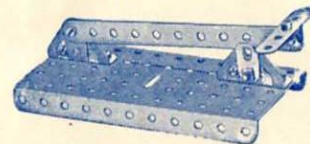
Model No. 00.45  
Baggage Cart

Model No. 00.41 Trolley



Model No. 00.42  
Lewis Gun

Model No. 00.43 Switch

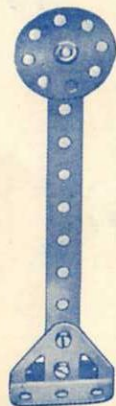


Model No.  
00.46  
Potato  
Chopper

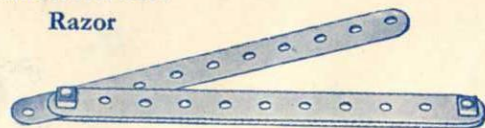


All these Models can be built with MECCANO Outfit No. 00

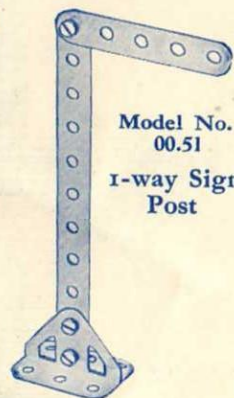
Model No.  
00.47  
Road Sign



Model No. 00.50  
Razor



Model No. 00.52  
2-way Sign Post

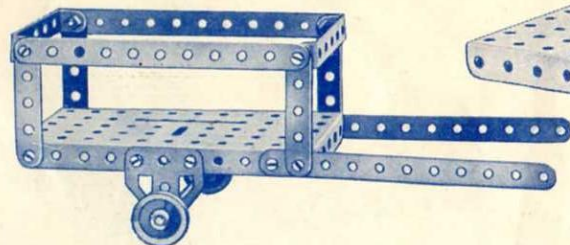


Model No.  
00.51  
1-way Sign Post

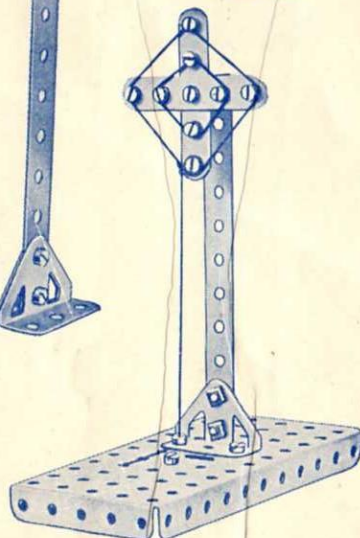
Model No. 00.48  
Glider



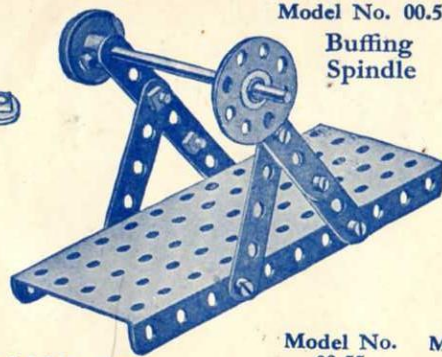
Model No. 00.49 Cart



Model No. 00.53  
Frame Aerial



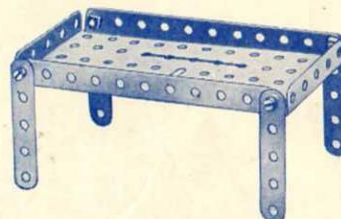
Model No. 00.54  
Buffing Spindle



Model No.  
00.55  
Dividers



Model No. 00.57  
Drinking Trough



Model No. 00.58 Tweezers

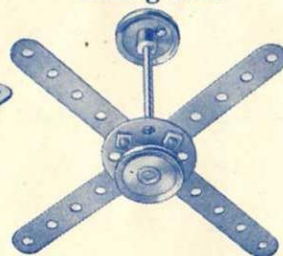


Model No. 00.60  
Battle Axe

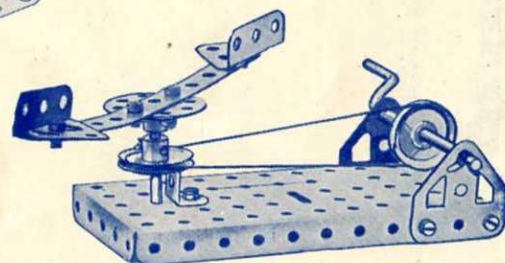
Model No. 00.59  
3-way Road Sign



Model No. 00.61  
Ceiling Fan

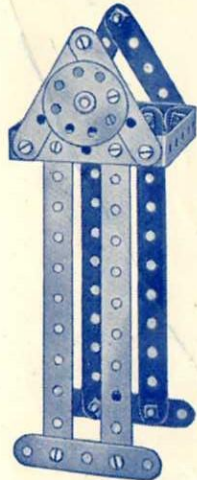


Model No. 00.62 Roundabout

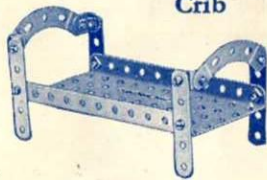


All these Models can be built with MECCANO Outfit No. 00

Model No. 00.63  
Grandfather's Clock



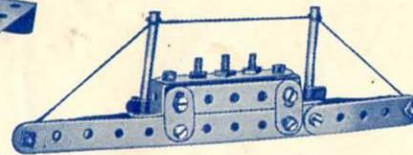
Model No. 00.66  
Crib



Model No. 00.70 Table



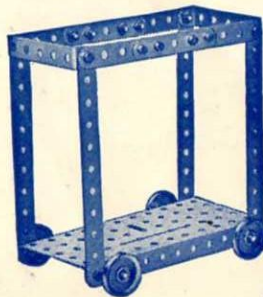
Model No. 00.72  
Liner



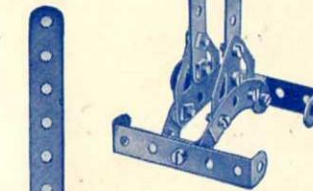
Model No.  
00.75  
Mail Bag  
Hanger



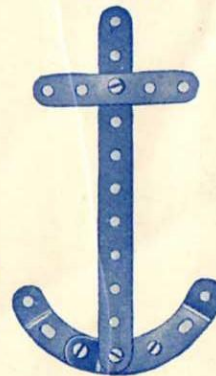
Model No. 00.67  
Refreshment Wagon



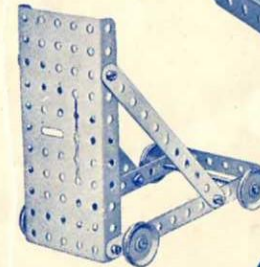
Model  
No. 00.68  
Rake



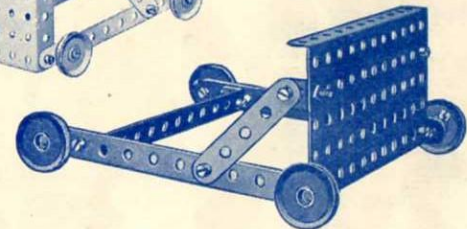
Model No. 00.73  
Anchor



Model No. 00.74  
Gravel Sifter



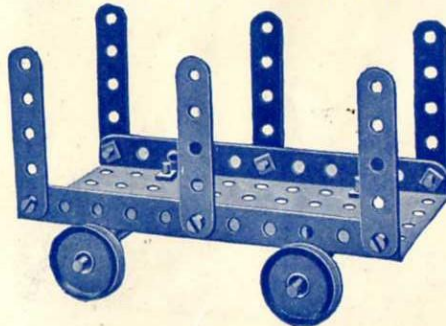
Model No. 00.76  
Devil Wall



Model No. 00.64  
Tin Opener



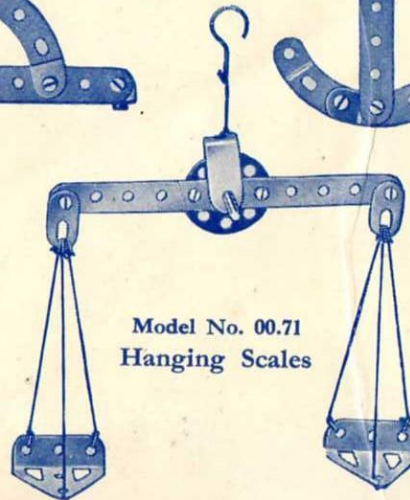
Model No. 00.65 Timber Truck



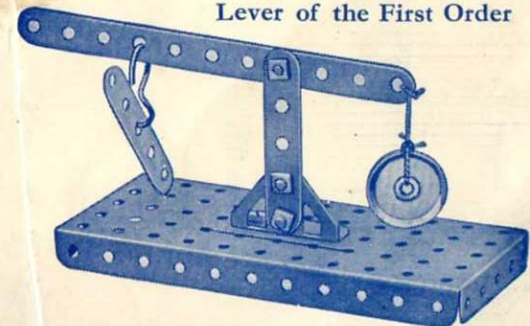
Model  
No. 00.69  
Stool



Model No. 00.71  
Hanging Scales

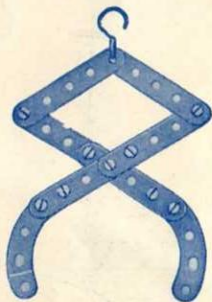


Model No. 00.77  
Lever of the First Order

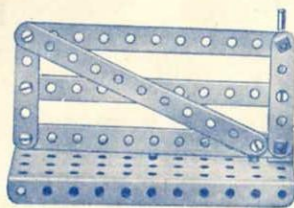


All these Models can be built with MECCANO Outfit No. 00

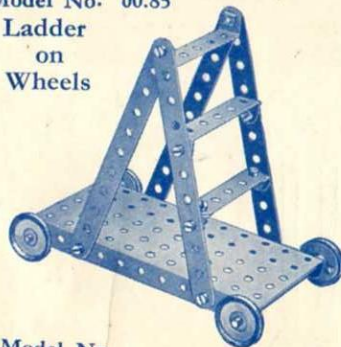
Model No. 00.78  
Friction Grip  
Tongs



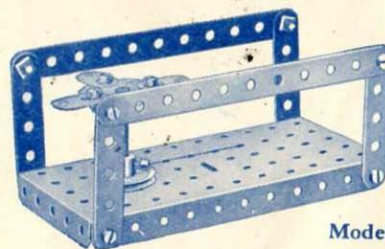
Model No. 00.80 Gate



Model No. 00.85  
Ladder  
on  
Wheels



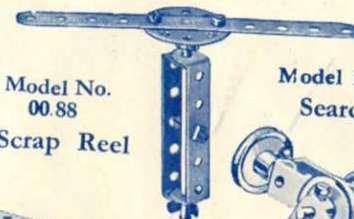
Model No. 00.87 Turnstile



Model No. 00.92 Violin



Model No. 00.89  
Propeller



Model No. 00.81  
Clothes Horse



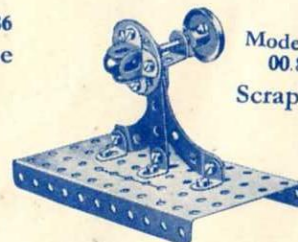
Model No.  
00.83  
Birdcage  
and  
Stand



Model No. 00.86  
Garden Hose  
Reel



Model No.  
00.88  
Scrap Reel



Model No. 00.93  
Searchlight



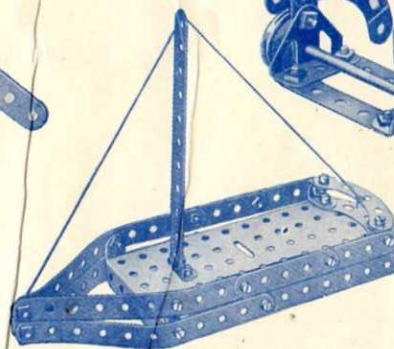
Model No. 00.79  
Telegraph Pole



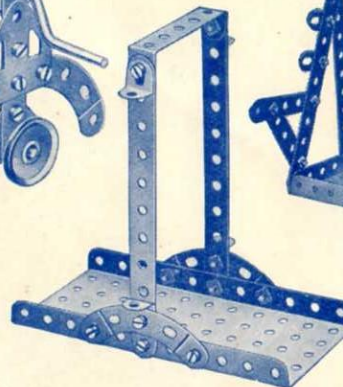
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Meccano Man



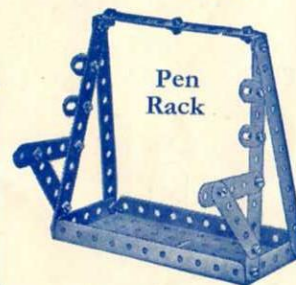
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00.84  
Barge



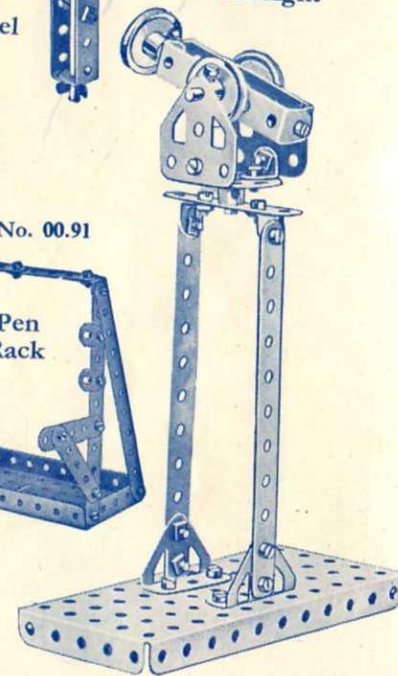
Model No. 00.90  
Elevator  
Car



Model No. 00.91

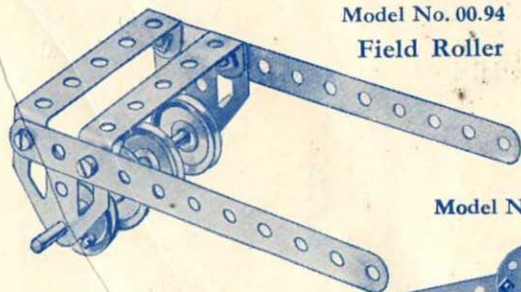


Pen  
Rack



All these Models can be built with MECCANO Outfit No. 00

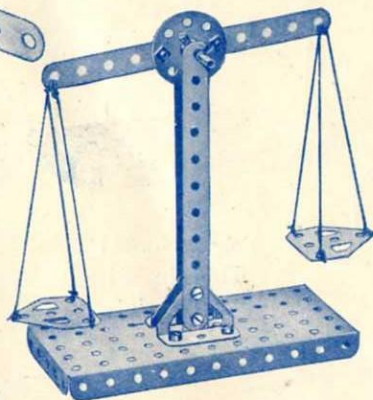
Model No. 00.94  
Field Roller



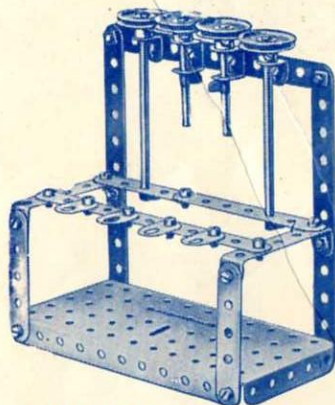
Model No. 00.100 Magic Plate

The cord is wound once round a 2" Axle Rod that is journalled in a Flat Bracket and a  $\frac{1}{2}$ " Reversed Angle Bracket, which are bolted to the Plate. If the cord is held loosely the plate will drop, but as soon as the cord is tightened the plate becomes immovable.

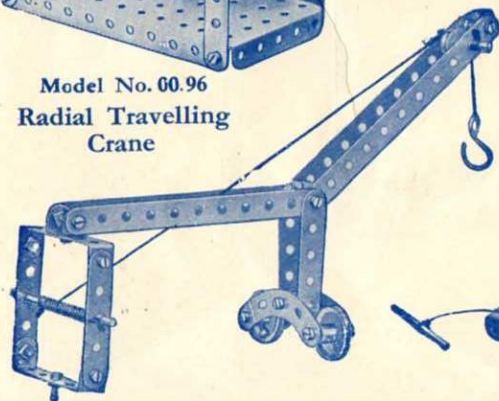
Model No. 00.97 Scales



Model No. 00.95  
Organ



Model No. 00.96  
Radial Travelling  
Crane



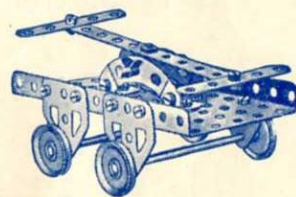
Model No. 00.98  
Book End



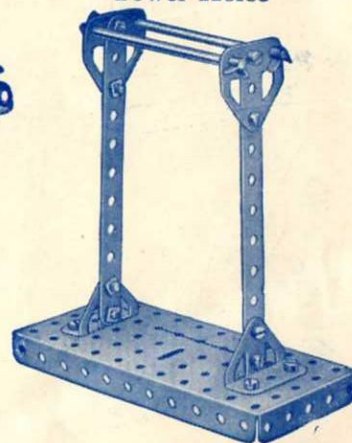
Model No. 00.99  
Cheese Cutter



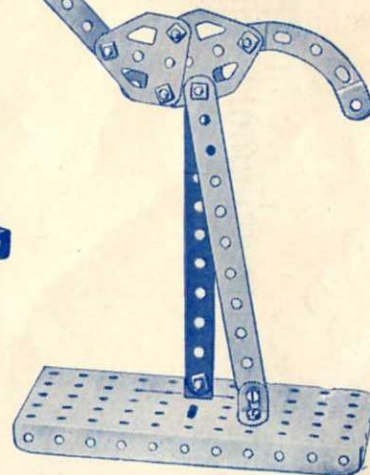
Model No. 00.101  
Hand Car



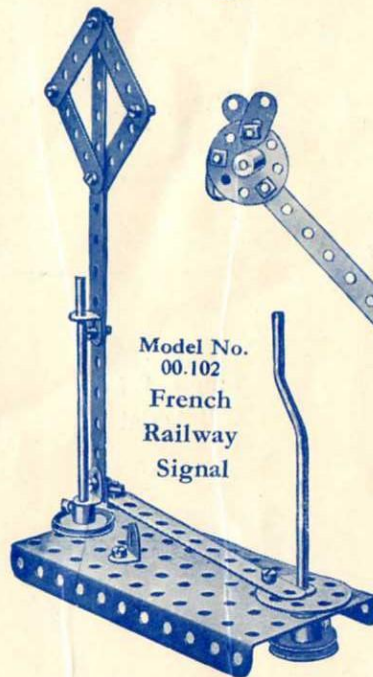
Model No. 00.104  
Towel Horse



Model No. 00.105  
Prehistoric Bird



Model No.  
00.102  
French  
Railway  
Signal

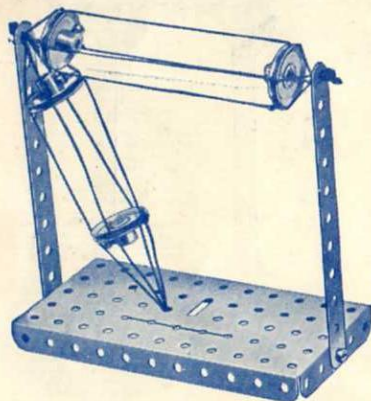


Model No. 00.103 Cannon

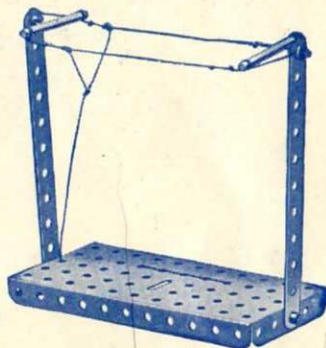


All these Models can be built with MECCANO Outfit No. 00

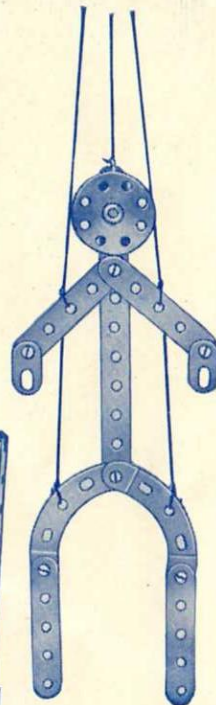
Model No. 00.106  
Cage Aerial



Model No. 00.108  
Double Wire L Aerial



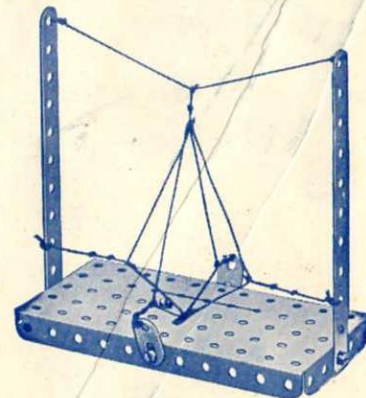
Model No. 00.110  
Jumping Jack



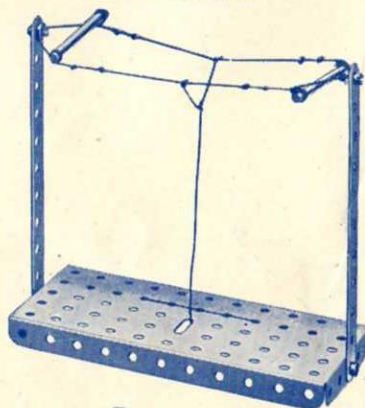
Model No. 00.112  
Single Wire  
T Aerial



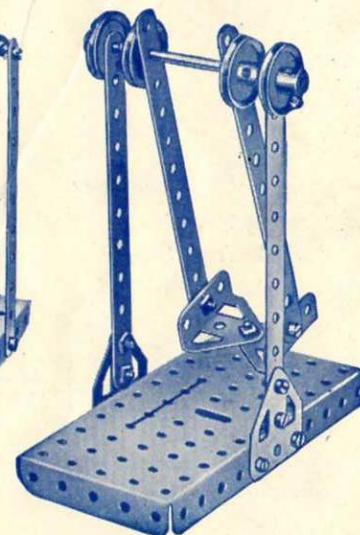
Model No. 00.114  
Direction Aerial



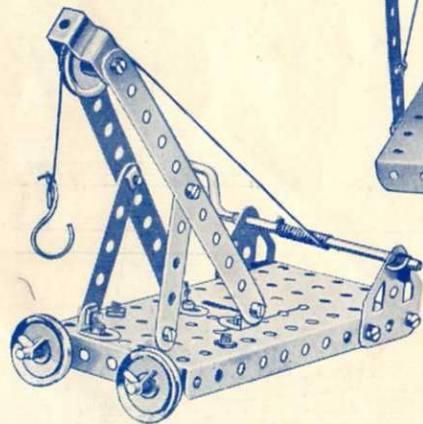
Model No. 00.113  
Double Wire  
T Aerial



Model No. 00.115  
Swing



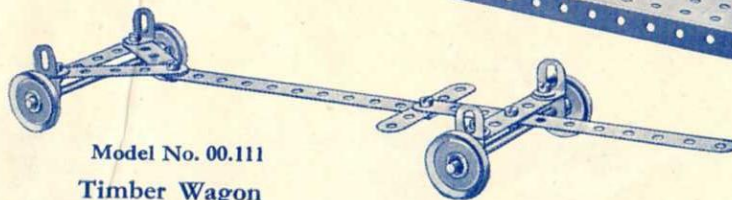
Model No. 00.107  
Revolving Crane



Model No. 00.109  
Single Wire  
L Aerial



Model No. 00.111  
Timber Wagon



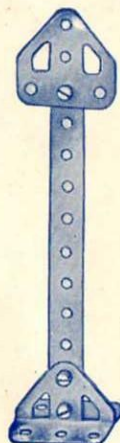
All these Models can be built with MECCANO Outfit No. 00

11

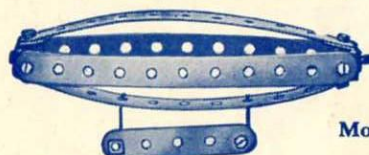


Model No. 00.116  
Baggage Truck

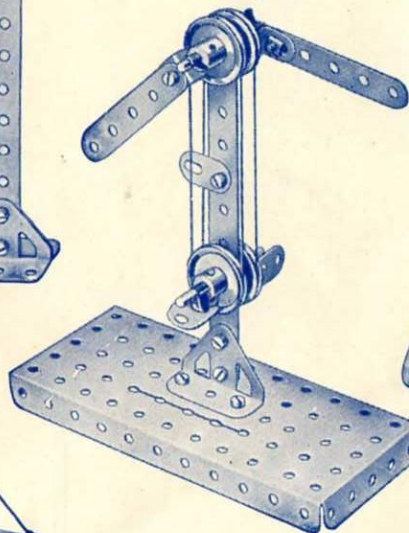
Model No. 00.119  
Road Sign



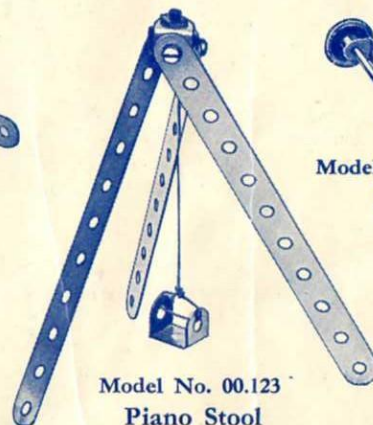
Model No. 00.120 Airship



Model No. 00.121  
Semaphore



Model No. 00.122  
Tripod



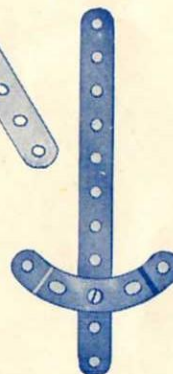
Model No. 00.123  
Piano Stool



Model No. 00.124  
Toy Horse



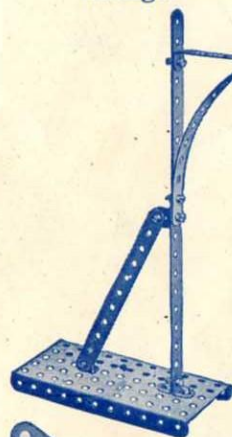
Model No. 00.125  
Sword



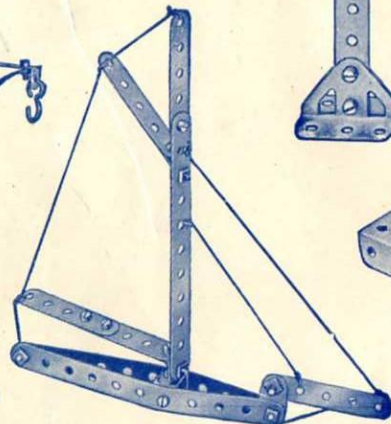
Model No. 00.126  
Umbrella Stand



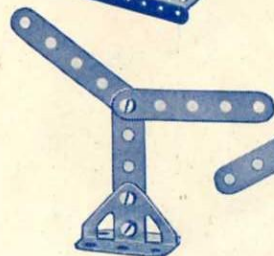
Model No. 00.117  
Mail Bag  
Hanger



Model No. 00.118  
Yacht



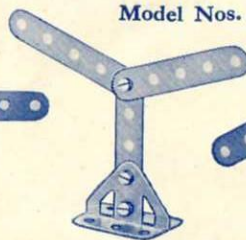
Model Nos. 00.127—00.134 Gradient Indicators



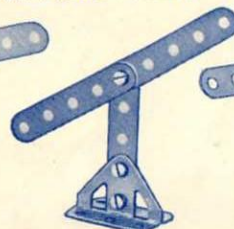
00.127



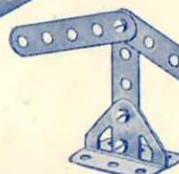
00.128



00.129



00.130



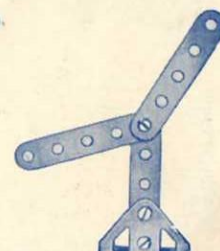
00.131



00.132



00.133



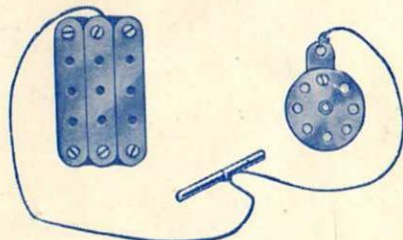
00.134

All these Models can be built with MECCANO Outfit No. 00

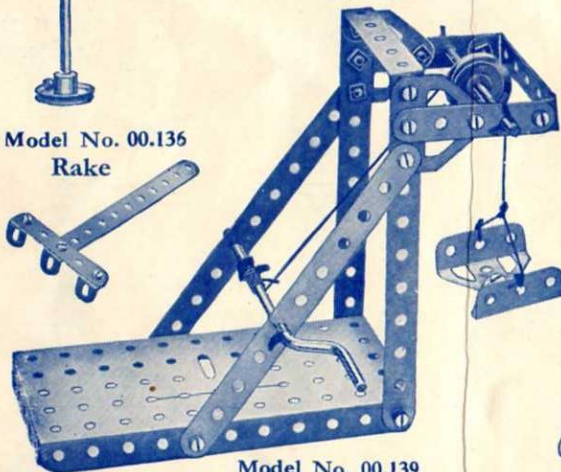
Model No.  
00.135  
Street  
Lamp



Model No. 00.137  
Watch and Chain



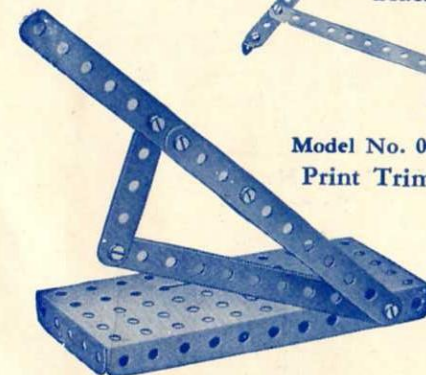
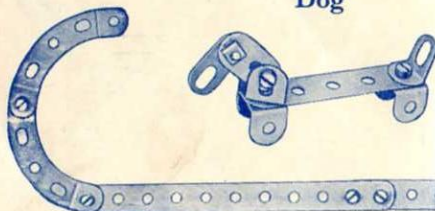
Model No. 00.138  
Pit-Head Gear



Model No. 00.136  
Rake



Model No. 00.139  
Dog

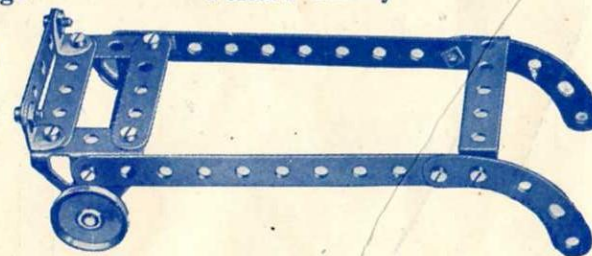


Model No. 00.143  
Print Trimmer

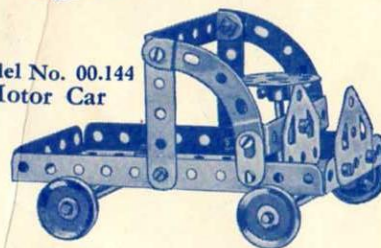
Model No. 00.142  
Track Gauge



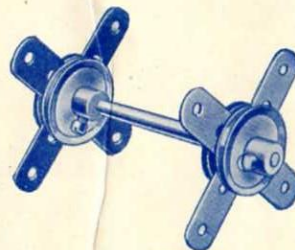
Model No. 00.146  
Porter's Trolley



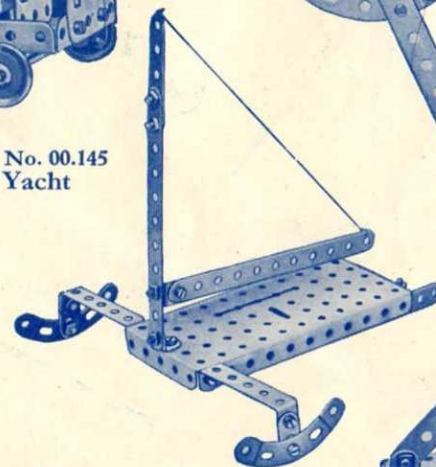
Model No. 00.144  
Motor Car



Model No. 00.140  
Cutlery Rest



Model No. 00.145  
Ice Yacht

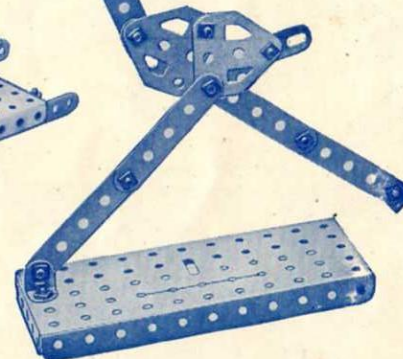
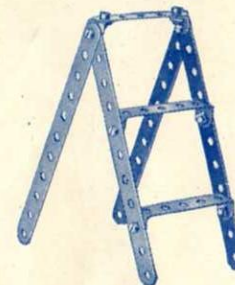


Model No. 00.141 Walking Stick

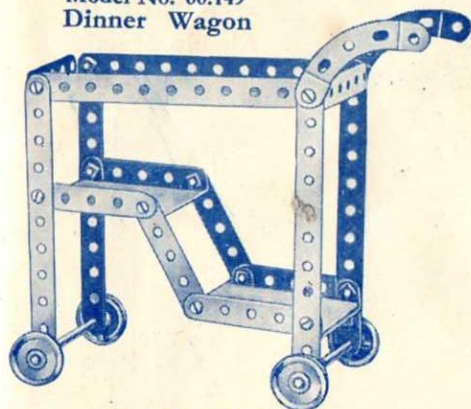
Model No. 00.147  
Ostrich



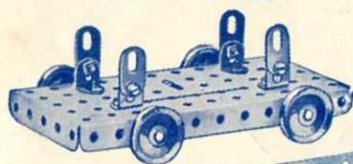
Model No. 00.148  
Step Ladder



Model No. 00.149  
Dinner Wagon



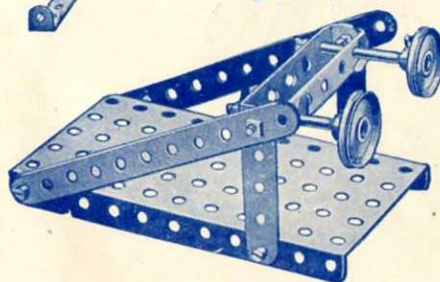
All these Models can be built with MECCANO Outfit No. 00  
Model No. 00.152  
Lumber Truck



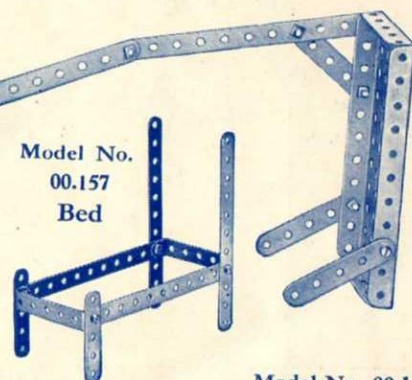
Model No. 00.156  
Mono Rail



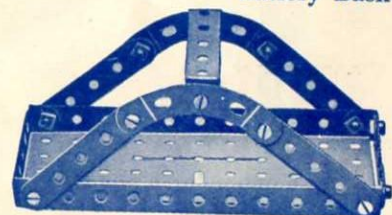
Model No. 00.153  
Buffers



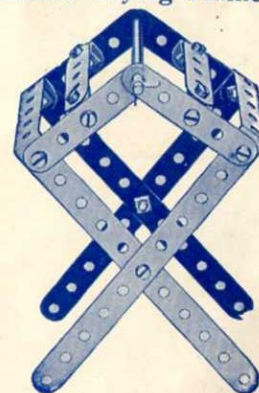
Model No.  
00.157  
Bed



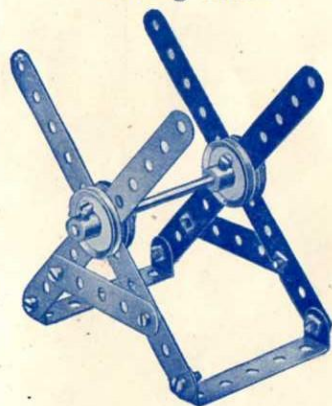
Model No. 00.158  
Cutlery Basket



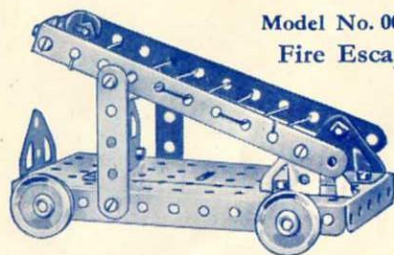
Model No. 00.159  
Clothes Drying Frame



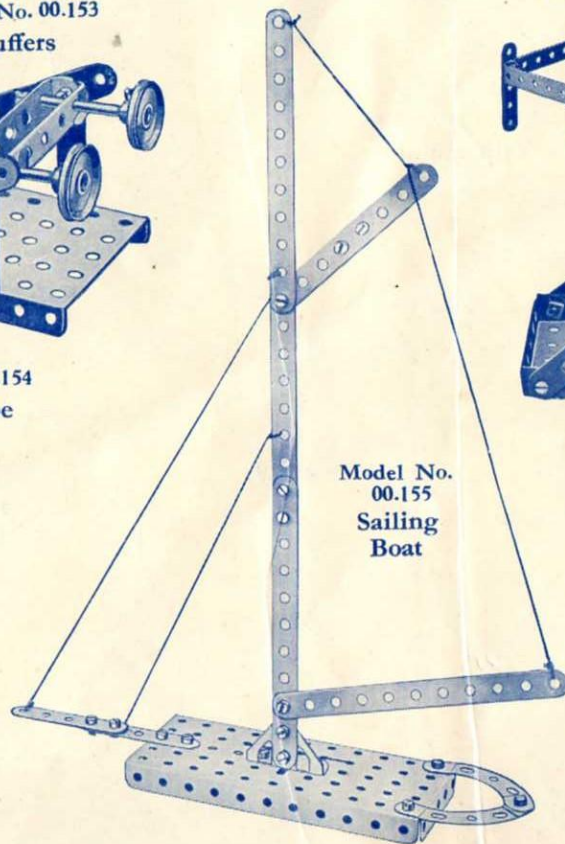
Model No. 00.150  
Sawing Horse



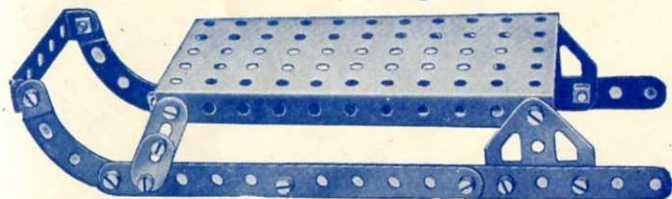
Model No. 00.154  
Fire Escape



Model No.  
00.155  
Sailing  
Boat

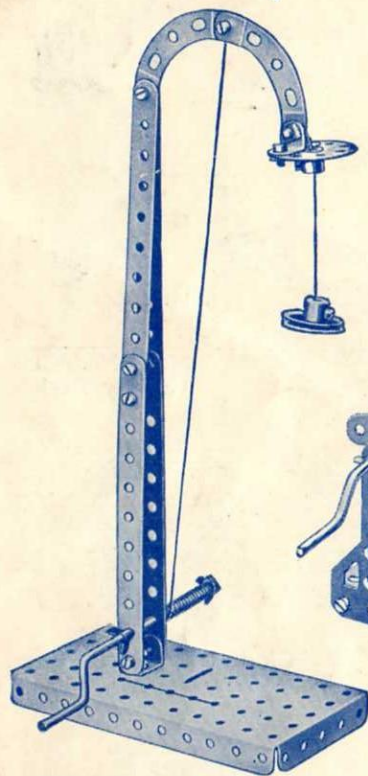


Model No. 00.151 Sledge



All these Models can be built with MECCANO Outfit No. 00

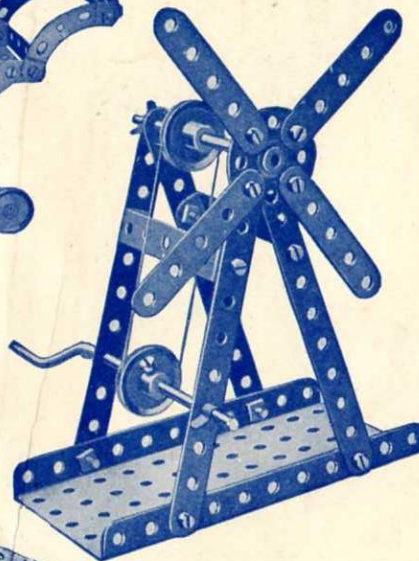
Model No. 00.160  
Arc Lamp



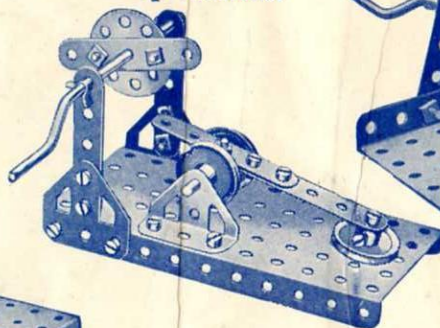
Model No. 00.162  
Tea Wagon



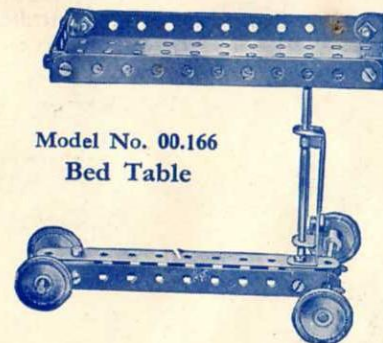
Model No. 00.164  
Windmill



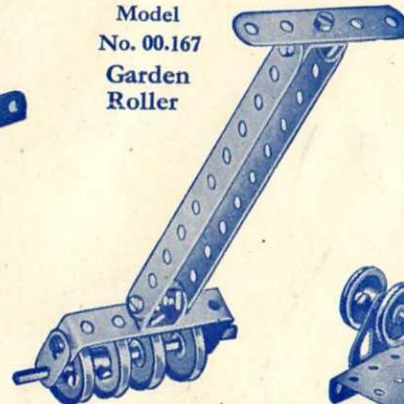
Model No. 00.163  
Trip Hammer



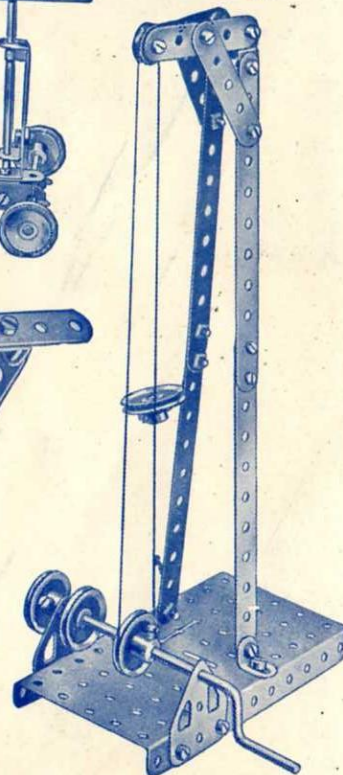
Model No. 00.166  
Bed Table



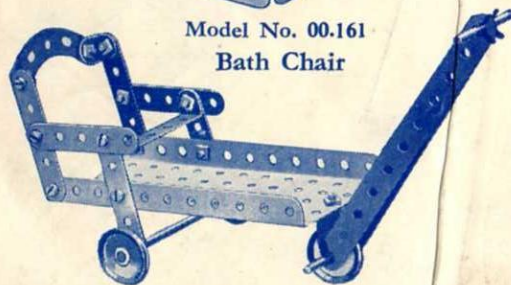
Model  
No. 00.167  
Garden  
Roller



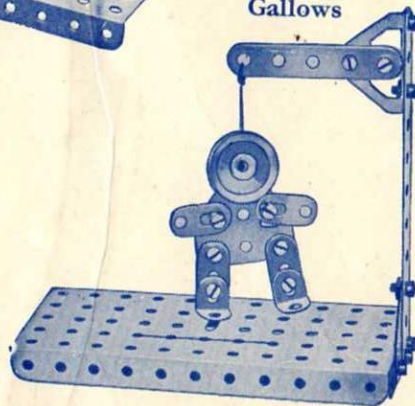
Model No. 00.168  
Airship Mooring  
Mast



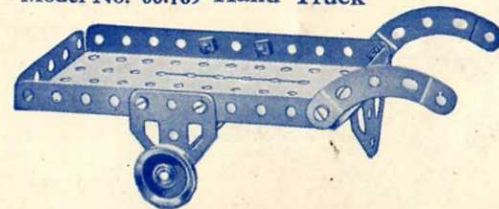
Model No. 00.161  
Bath Chair



Model No. 00.165  
Gallows

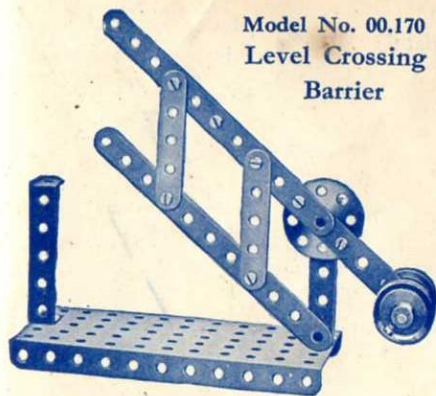


Model No. 00.169 Hand Truck



All these Models can be built with MECCANO Outfit No. 00

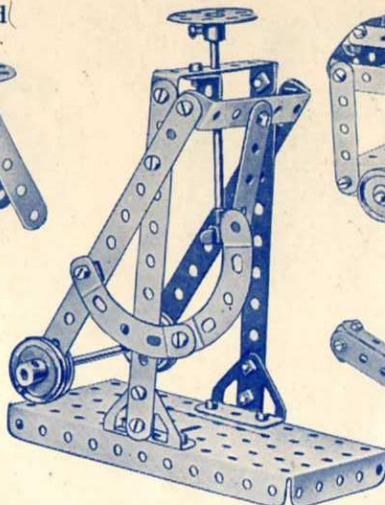
Model No. 00.170  
Level Crossing  
Barrier



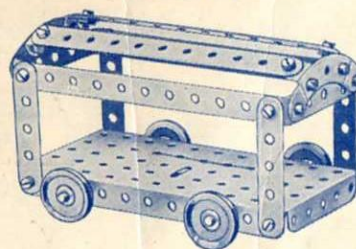
Model No. 00.172  
Flower Pot  
Stand



Model No. 00.174  
Letter Balance

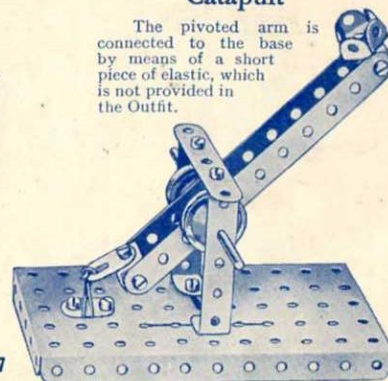


Model No. 00.176  
Pullman Car

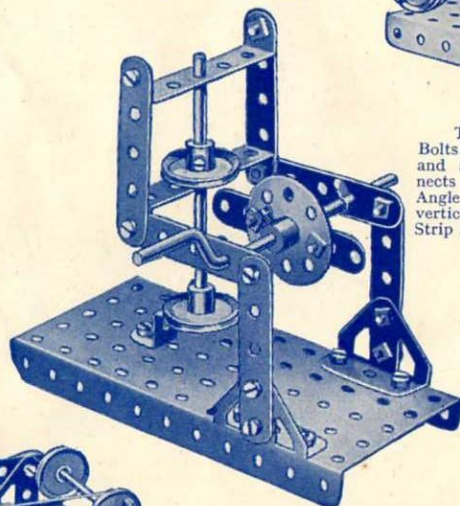


Model No. 00.178  
Catapult

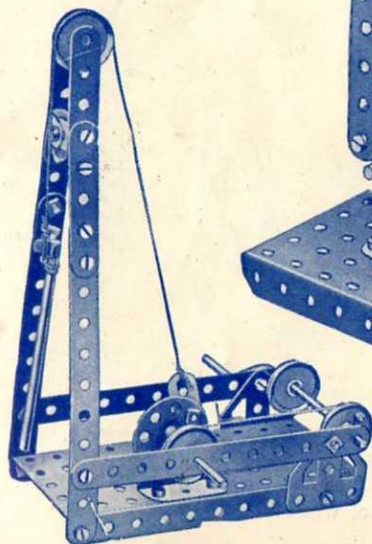
The pivoted arm is connected to the base by means of a short piece of elastic, which is not provided in the Outfit.



Model No. 00.173  
Ore Crusher



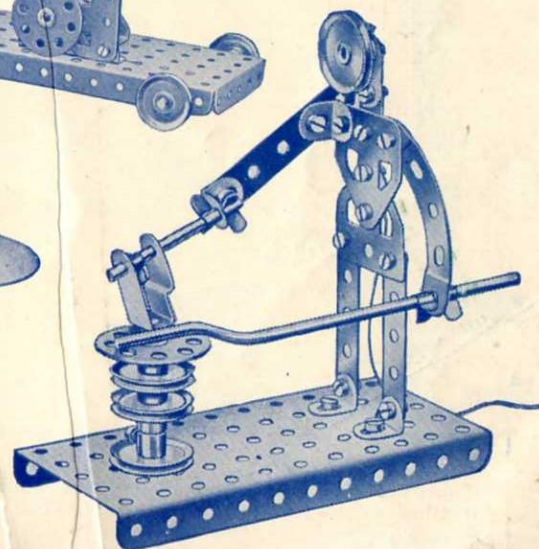
Model No. 00.171  
Well Driller



Model No. 00.177  
Big Gun

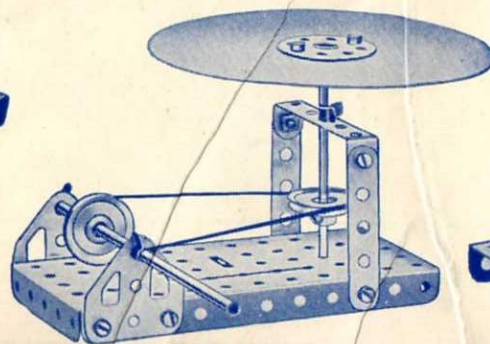


Model No. 00.179  
Blacksmith



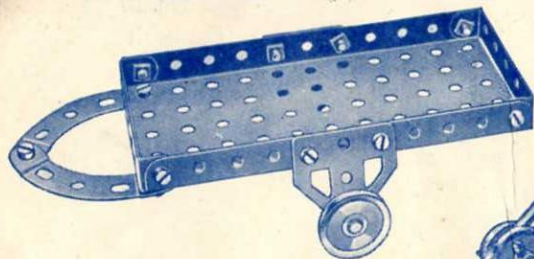
The weighted  $5\frac{1}{2}$ " Strips are pivoted by Bolts and locknuts to the vertical members, and a  $2\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strip connects their upper ends. This Double Angle Strip is connected, in turn, to the vertical  $3\frac{1}{2}$ " Axle Rod by means of a  $2\frac{1}{2}$ " Strip and an Angle Bracket.

Model No. 00.175 Joy Wheel

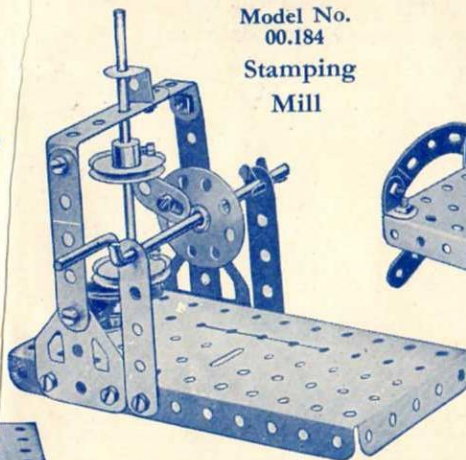


All these Models can be built with MECCANO Outfit No. 00

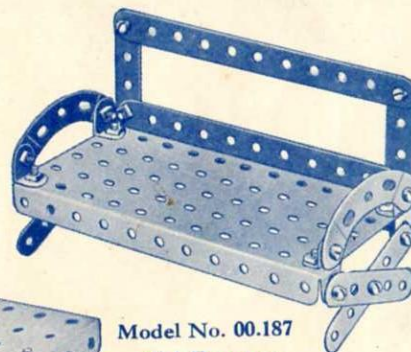
Model No. 00.180 Hand Truck



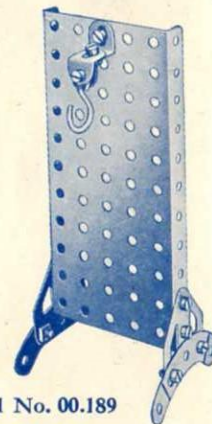
Model No.  
00.184  
Stamping  
Mill



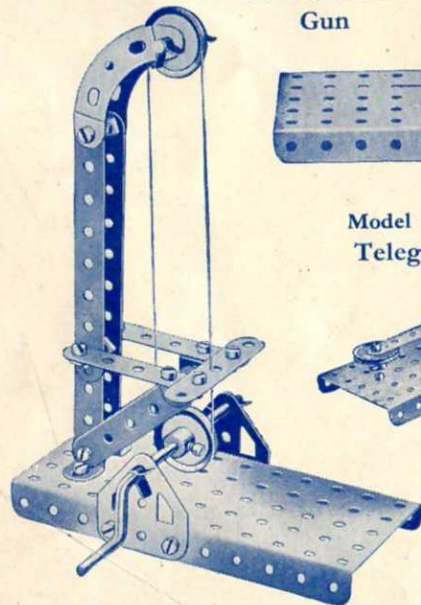
Model No. 00.186  
Garden Seat



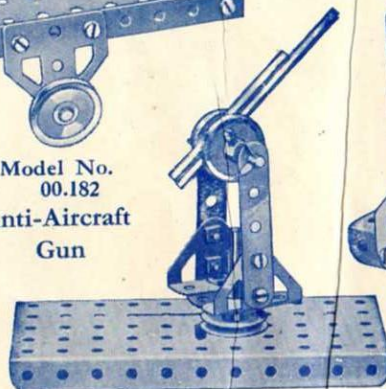
Model No. 00.188  
Watch Stand



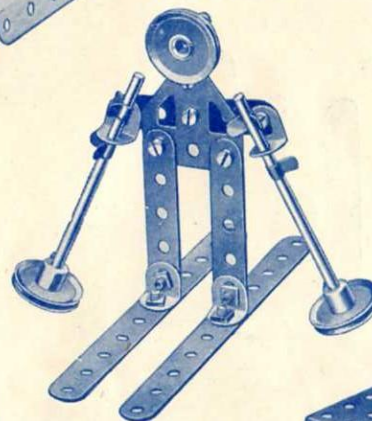
Model No. 00.181  
Band Saw



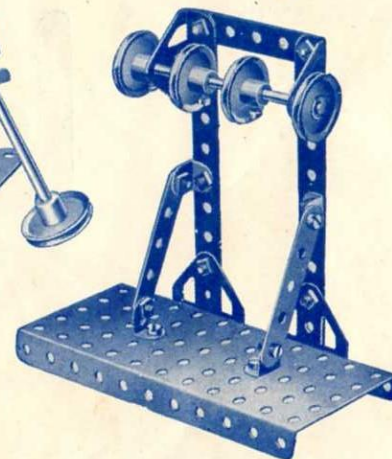
Model No.  
00.182  
Anti-Aircraft  
Gun



Model No. 00.187  
Ski-Runner



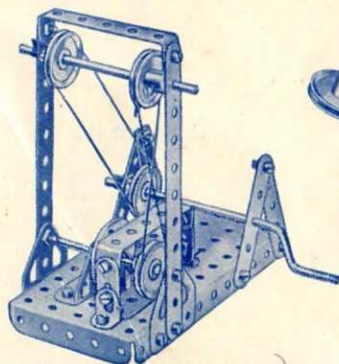
Model No. 00.189  
Pulley Shafting



Model No. 00.183  
Telegraph Key



Model No. 00.185  
Circular Saw



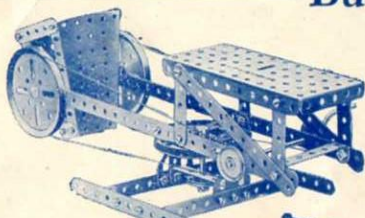
### HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit No. 00. The next models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 00A Accessory Outfit, the price of which may be obtained from any Meccano dealer.

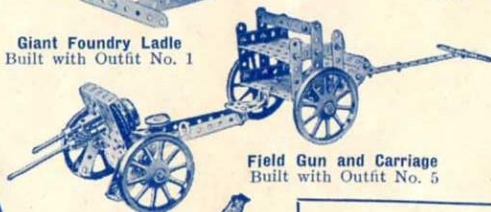
# Build Bigger and Better Models



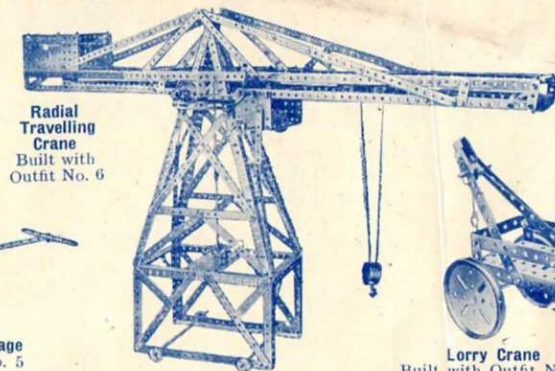
**Electric Elevator**  
Built with Outfit No. 1



**Giant Foundry Ladle**  
Built with Outfit No. 1



**Field Gun and Carriage**  
Built with Outfit No. 5



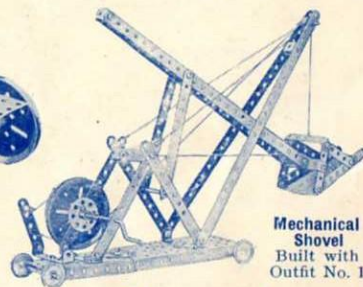
**Radial Travelling Crane**  
Built with Outfit No. 6



**Lorry Crane**  
Built with Outfit No. 1



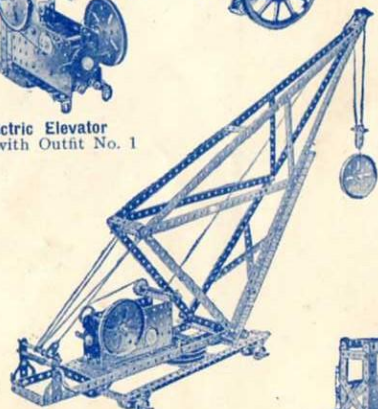
**Aeroplane**  
Built with Outfit No. 2



**Mechanical Shovel**  
Built with Outfit No. 1



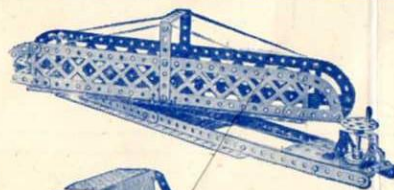
**Hay Tedder**  
Built with Outfit No. 2



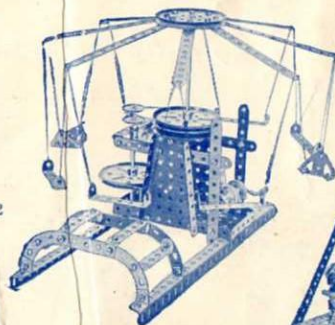
**Travelling Jib Crane**  
Built with Outfit No. 2



**Travelling Gantry Crane**  
Built with Outfit No. 7



**Turntable**  
Built with Outfit No. 2



**Roundabout**  
Built with Outfit No. 2



**Pit Head Gear**  
Built with Outfit No. 2

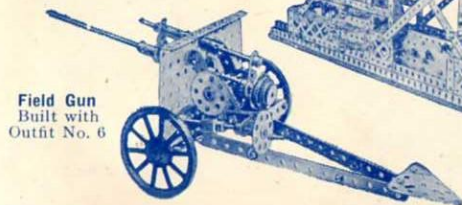
## Keep Adding to Your Outfit

The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals. As your equipment grows bigger and bigger, so will the fun and enjoyment increase.

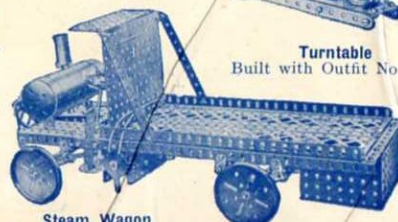
The model-building possibilities of the Meccano System are limitless. All the fine models illustrated on this page are examples of the types you will be able to build as your Outfit develops.

You can purchase separate Meccano parts as you require them, or, if you prefer, you can purchase Accessory Outfits that connect all the main Outfits.

Ask your dealer for complete illustrated price lists of Meccano Parts and Accessory Outfits and keep these by you for reference.



**Field Gun**  
Built with Outfit No. 6



**Steam Wagon**  
Built with Outfit No. 3

# MECCANO

## POWER UNITS FOR DRIVING MODELS

In order to obtain the greatest possible enjoyment from the Meccano hobby, the models must be set to work by means of one of the Meccano power units. Each of these units has side plates and base pierced with the Standard Meccano equidistant holes.

### MECCANO CLOCKWORK MOTORS

All Meccano Clockwork Motors are strongly built and are fitted with powerful spring mechanisms that ensure a long steady run on each winding.

**X Series Clockwork Motor.** This non-reversing motor is specially designed to drive models made with Meccano X Series parts.

**No. 1 Clockwork Motor.** Non-Reversing.

**No. 1A Clockwork Motor.** Reversing.

**No. 2 Clockwork Motor.** Reversing.

### MECCANO ELECTRIC MOTORS

There are five Electric Motors in the series—two 6-volt and three 20-volt. Each is a highly efficient power unit and, with ordinary care, will give long and excellent service. It is important to note that these Electric Motors cannot be run satisfactorily from dry cells.

**No. E1 Electric Motor (6 volt).** Non-reversing.

**No. E6 Electric Motor (6 volt).** Reversing.

**No. E1/20 Electric Motor (20-volt).** Non-reversing.

**No. E20A Electric Motor (20-volt).** Non-reversing.

**No. E20B Electric Motor (20-Volt).** Reversing.

### MECCANO RESISTANCE CONTROLLER

This Controller enables the speed of Meccano 6-volt Electric Motors to be regulated as desired.

### MECCANO TRANSFORMERS

A Meccano Transformer provides a convenient and safe means of driving a Meccano Electric Motor from the mains supply where this is alternating current.

There are six Transformers in the series, all of which are available for all standard alternating current supply mains from 100 to 250 volts, at all standard frequencies. With the exception of T6 and T20, all the Transformers can be supplied for frequencies lower than 50 cycles. When ordering any of the Transformers the voltage and frequency of the supply must always be stated.

**No. T6 Transformer (Output 25 V.A.) for 6-volt Electric Motors.** Fitted with speed regulator.

**No. T6M Transformer (Output 25 V.A.) for 6-volt Electric Motors.** This is similar to No. T6, but is not fitted with a speed regulator.

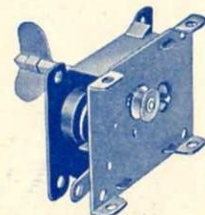
**No. T6A Transformer (Output 40 V.A.) for 6-volt Electric Motors.** Similar to No. T6, but provides three separate 9-volt circuits, the first of which is controlled by a 5-stud speed regulator.

**No. T20 Transformer (Output 20 V.A.) for 20-volt Electric Motors.** Fitted with 5-stud speed regulator.

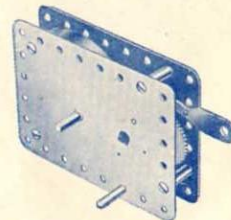
**No. T20M Transformer (Output 25 V.A.) for 20-volt Electric Motors.** This is similar to No. T20, but is not fitted with speed regulator.

**No. T20A Transformer (Output 35 V.A.) for 20-volt Electric Motors.** Similar to T20, but provides three circuits—one at 20 volts controlled by 5-stud speed regulator, and two at 20 volts and  $3\frac{1}{2}$  volts respectively, unaffected by the regulator.

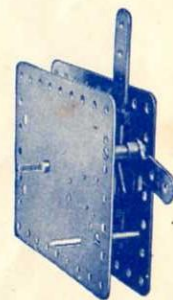
ASK YOUR DEALER FOR A COMPLETE PRICE LIST



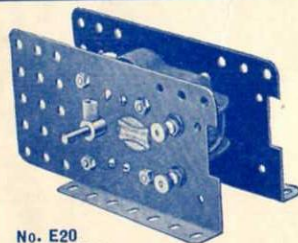
Meccano X Series  
Clockwork Motor



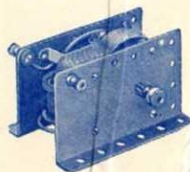
Meccano Clockwork  
Motor No. 1



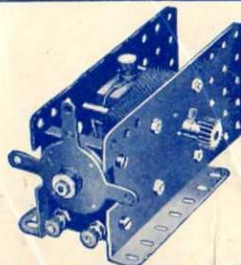
Meccano Clockwork  
Motor No. 2



No. E20  
Electric Motor



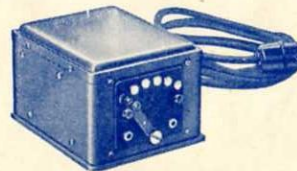
Meccano  
Electric Motor  
No. E1



Meccano Electric Motor No. E6



Resistance  
Controller



Transformer No. T20



Patents and Designs  
Great Britain

250,378	369,337
253,236	671,484
323,234	671,485
356,567	671,534
365,701	671,790
366,921	680,416
368,975	682,208

682,209

# MECCANO

## THE TOY THAT MADE ENGINEERING FAMOUS

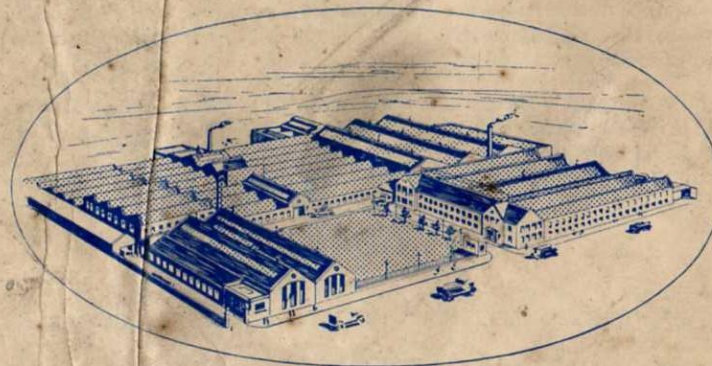
Millions of Boys in every country throughout the world play with Meccano.  
These are the Meccano Factories and distributing centres.

Patents and Designs  
Great Britain

682,934	733,541
683,011	733,542
698,054	740,413
718,404	740,723
718,731	767,865

777,900

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Paris. XIXe.