

MECCANO

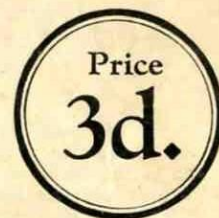
TRADE MARKS 296321, 499966, 76, 12633, 10274, 55/13476, 569/13, 884/25, 2913, 80, 124, 336, 4174, 91637, 83171, 157149, 32822, 200639, 209733, 214061, 214062, 12892, 29094, 33316, 1818, 16737, 383/13, 5848, 50204 10/12258, 22826, 18982, 20063/925, 9048, 5549, 2189, 16900, 72286, 2389, 41812, 5403, 7315, 18066, 139420, 494933-4-5-6, 29041, 26877, 6595

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901

INSTRUCTIONS

FOR OUTFIT

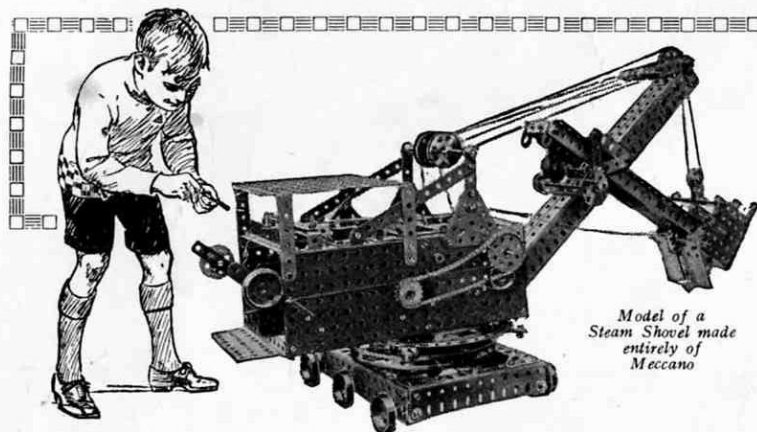
No. 00



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No. 29.00

ENGLISH EDITION



*Model of a
Steam Shovel made
entirely of
Meccano*

A TALK WITH NEW MECCANO BOYS

The Meccano No. 00 Outfit is the first step in the Meccano system. With it hundreds of models can be made, each one a perfect reproduction of the real thing. 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.

MECCANO ACCESSORY OUTFITS

It is important to remember that each Outfit 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 parts, Gear Wheels, Pulley Wheels, Worm Wheels, Couplings, Cranks, and many other perfectly-made engineering parts. 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.

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.

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. He reads the "Meccano Magazine" regularly and corresponds with his friend the Editor when he feels like it. Time never hangs heavily on his hands and he is too busy and too happy to grumble.

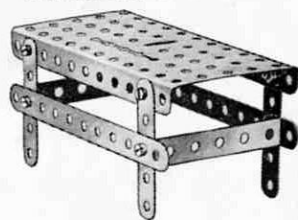
The "Meccano Magazine" is the Meccano boy's newspaper. It tells him of the latest Meccano models; what Meccano Clubs are doing; how to correspond with other Meccano boys; the Competitions that are running, etc. It contains splendid articles on such subjects as Railways, Famous Engineers and Inventors, Electricity, Bridges, Cranes, Wonderful Machinery, Aeroplanes, Latest Patents, Radio, Stamps, Photography, Books and other topics of interest to boys, including suggestions for new Meccano parts and correspondence columns in which the Editor replies to his readers' enquiries. The publishing date is the 1st of each month.

Write to the Editor, "Meccano Magazine," Binns Road, Old Swan, Liverpool, enclosing 6d. in stamps. He will then forward a specimen copy of the "M.M." post free. If you wish to become a regular subscriber the rates are 4/- for six issues or 8/- for twelve issues, post free.

If you prefer to do so, you may order the Magazine from your Meccano dealer or from any newsagent or bookstall, price 6d.

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

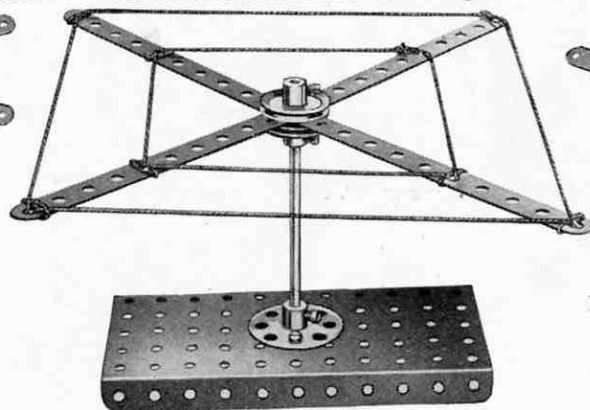
Model No. 00.1 Table



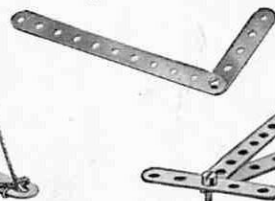
Model No. 00.2 Dividers



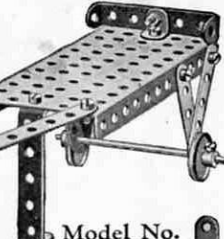
Model No. 00.4 Clothes Hanger



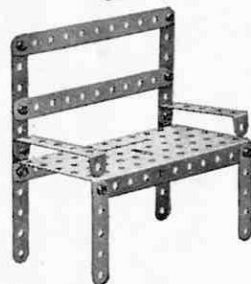
Model No. 00.5
Carpenter's Square



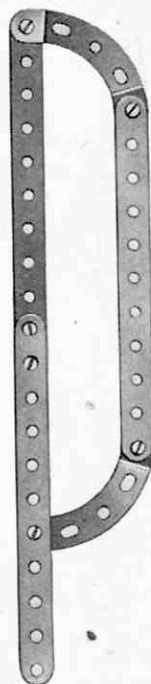
Model No. 00.7
Shipyards Bogie



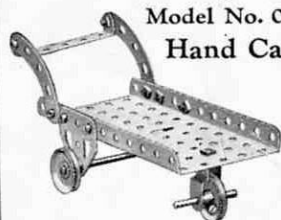
Model No. 00.3
Bench



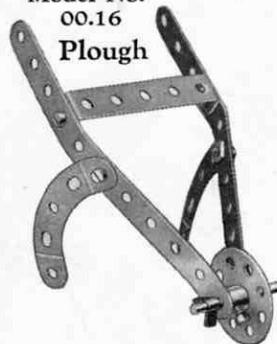
Model No. 00.8
Meat Saw



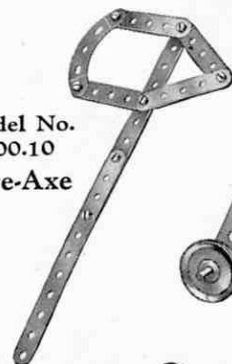
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Hand Cart



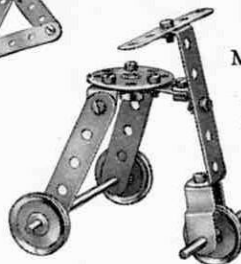
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00.16
Plough



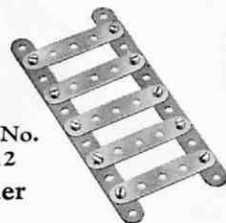
Model No.
00.10
Fire-Axe



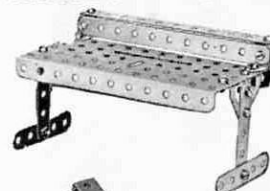
Model No. 00.11
Velocipede



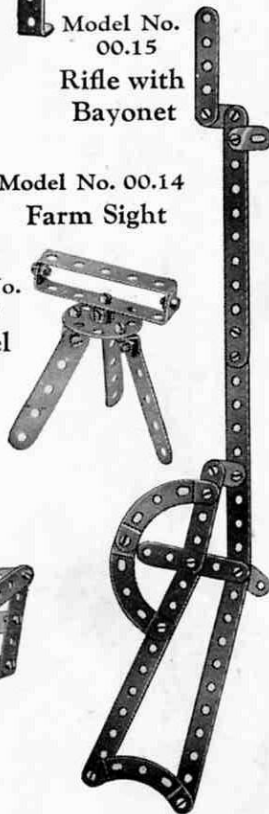
Model No.
00.12
Ladder



Model No. 00.6 Desk



Model No.
00.15
Rifle with
Bayonet



Model No. 00.14
Farm Sight

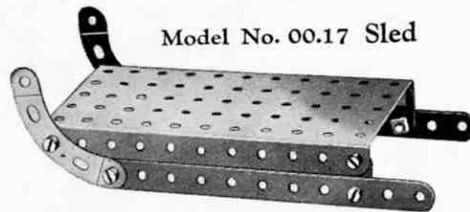
Model No.
00.13
Trowel



Model No. 00.18
Barrow

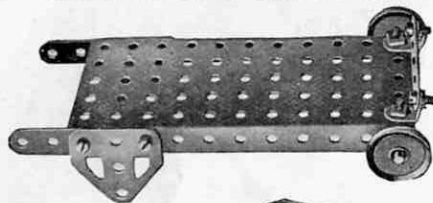


Model No. 00.17 Sled

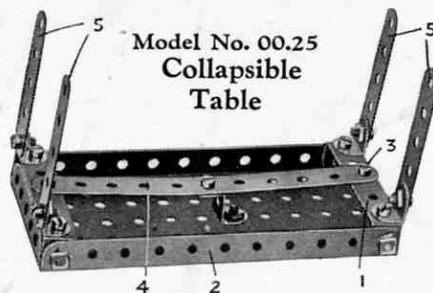


All these Models can be built with MECCANO Outfit No. 00

Model No. 00.19 Flat Truck



Model No. 00.25
Collapsible
Table



The $2\frac{1}{2}'' \times 1''$ 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 $2\frac{1}{2}'' \times 1''$ 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. 00.25A.

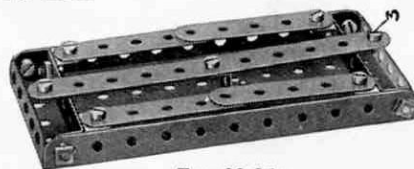
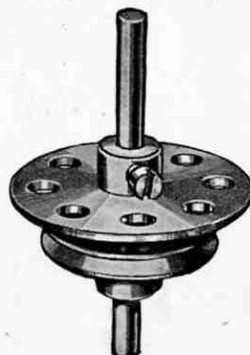


FIG. 00.25A

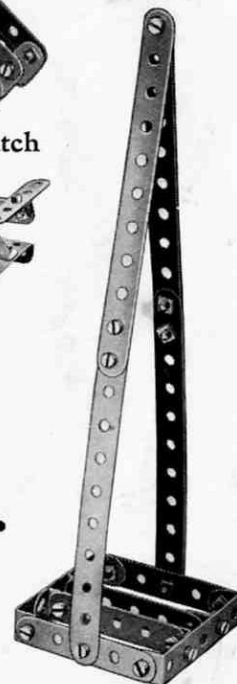
Model No. 00.26
Spinning Top



Model No. 00.27 Trolley



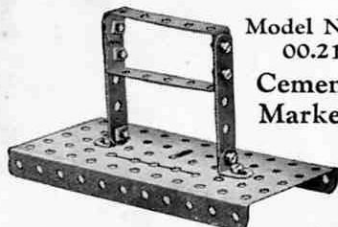
Model No.
00.29
Potato
Chopper



Model No.
00.20
Spade



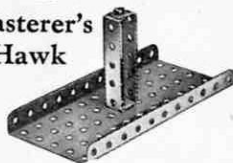
Model No.
00.21
Cement
Marker



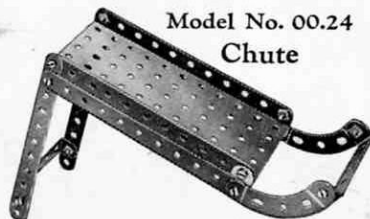
Model No. 00.22 Motor Boat



Model No.
00.23
Plasterer's
Hawk



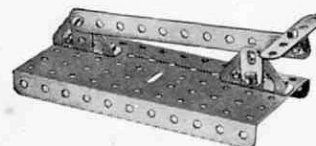
Model No. 00.24
Chute



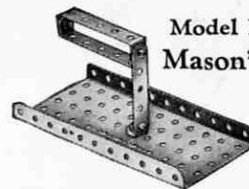
Model No. 00.28
Lewis Gun



Model No. 00.30 Switch



Model No. 00.31
Mason's Trowel

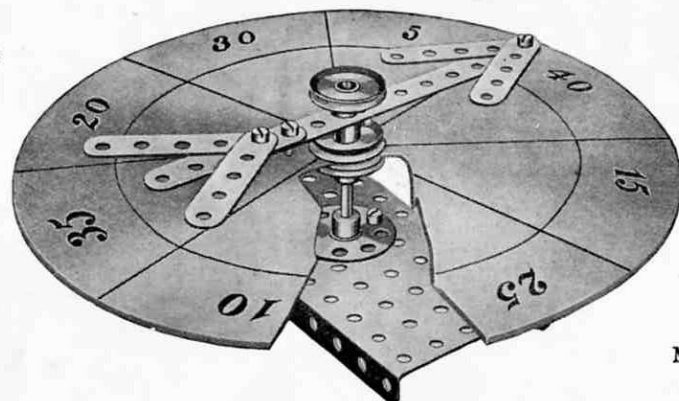


Model No. 00.32
Baggage Cart



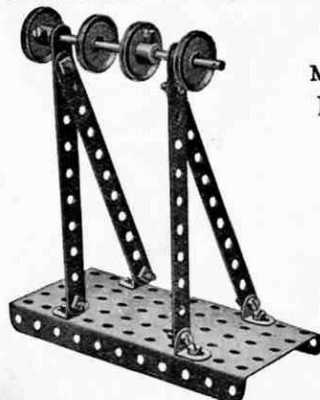
All these Models can be built with MECCANO Outfit No. 00

Model No. 00.38 Roulette Wheel

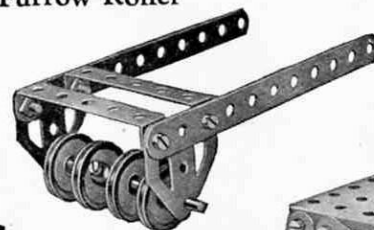


Cut out a circular piece of cardboard, and mark as shown to form scoring board. This is clamped between two 1" Pulley Wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" Pulley Wheel.

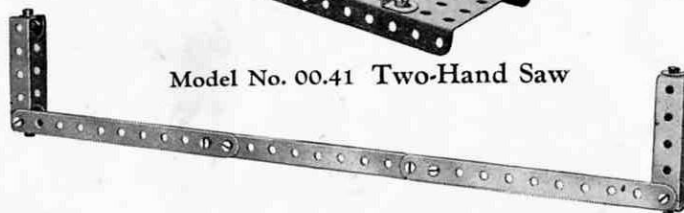
Model No. 00.39 Pulley Shafting



Model No. 00.40
Furrow Roller



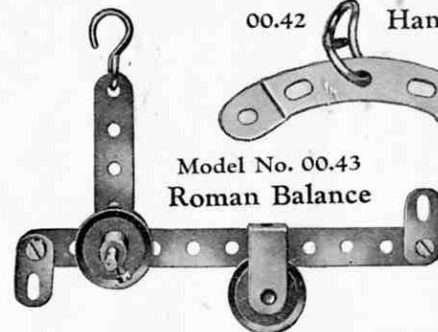
Model No. 00.41 Two-Hand Saw



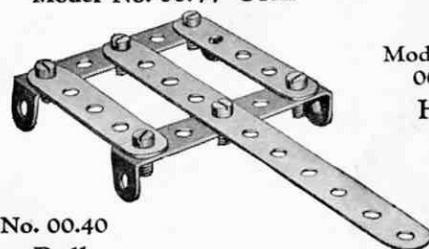
Model No. 00.42 Coat Hanger



Model No. 00.43
Roman Balance



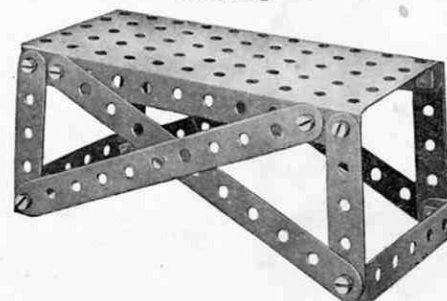
Model No. 00.44 Grill



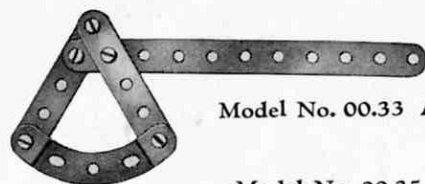
Model No. 00.45
Hoe



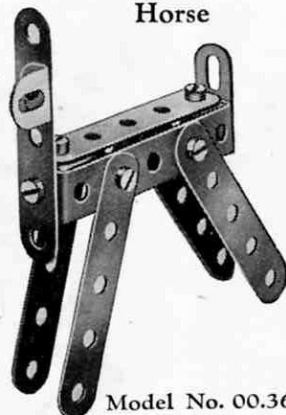
Model No. 00.46
Planing Bench



Model No. 00.33 Axe



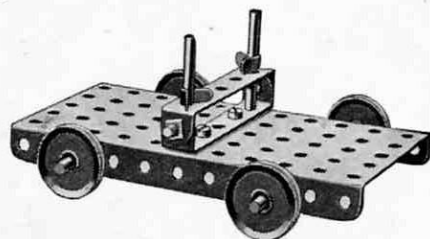
Model No. 00.35
Horse



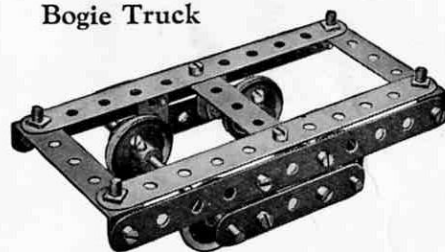
Model No. 00.34
Fork



Model No. 00.36 Lumber Truck

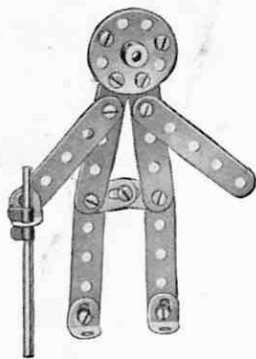


Model No. 00.37
Bogie Truck

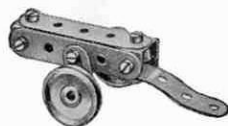


All these Models can be built with MECCANO Outfit No. 00

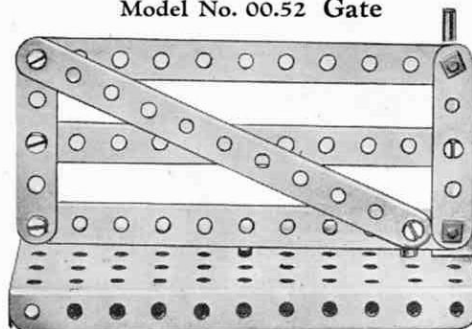
Model No. 00.47
Meccano Man



Model No. 00.48
Cannon



Model No. 00.52 Gate



Model No. 00.56
Dog



Model No. 00.57
Friction Grip Tong



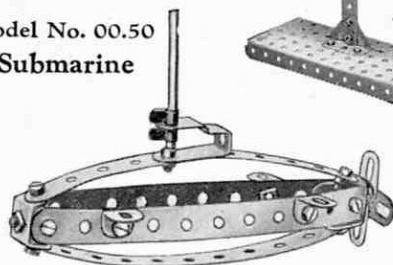
Model No. 00.58
Clothes Horse



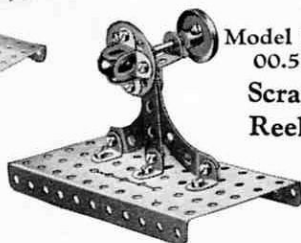
Model No. 00.49
Birdcage
and
Stand



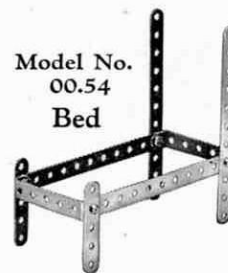
Model No. 00.50
Submarine



Model No. 00.53
Scrap
Reel



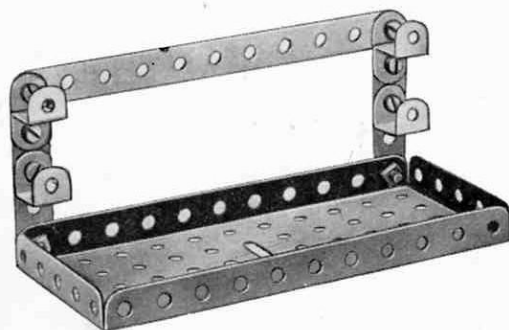
Model No. 00.54
Bed



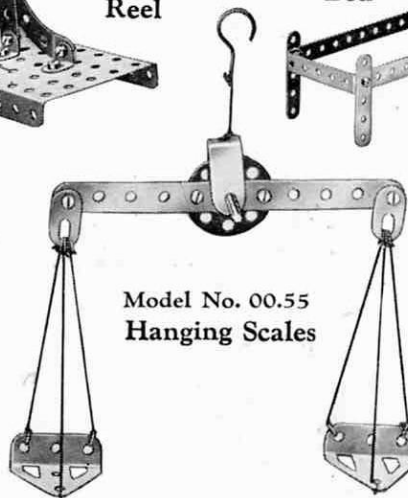
Model No. 00.59
Rake



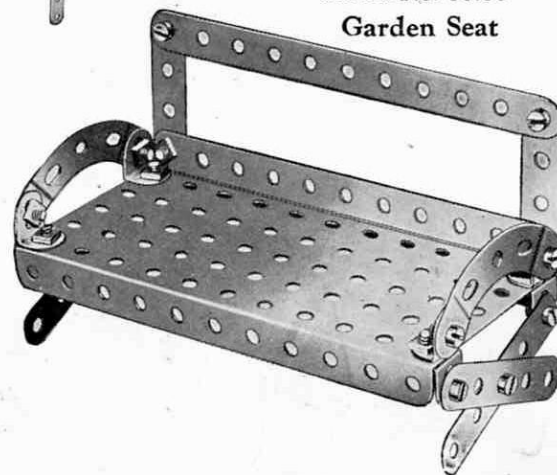
Model No. 00.51 Pen Rack



Model No. 00.55
Hanging Scales

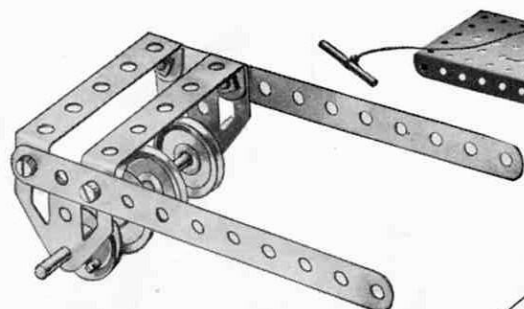


Model No. 00.60
Garden Seat



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

Model No. 00.61 Field Roller



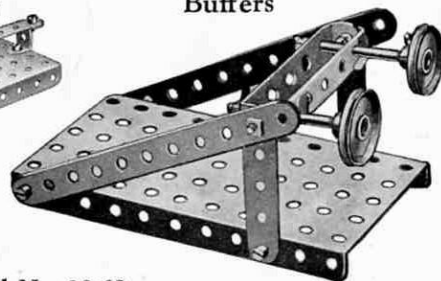
Model No. 00.62 Cheese Cutter



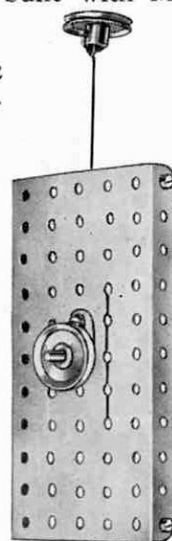
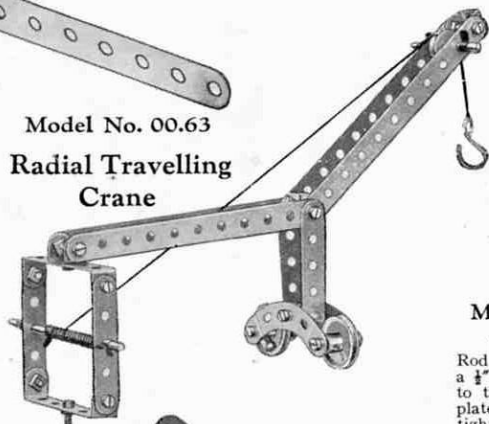
Model No. 00.67 Telegraph Key



Model No. 00.68 Buffers

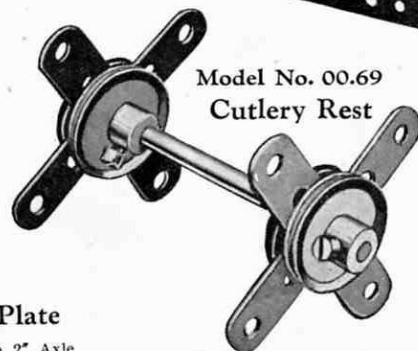


Model No. 00.63 Radial Travelling Crane



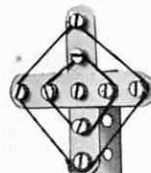
Model No. 00.66 Magic Plate

The cord is wound once round a 2" Axle Rod that is journaled in a Flat Bracket and a $\frac{1}{4}$ " 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.

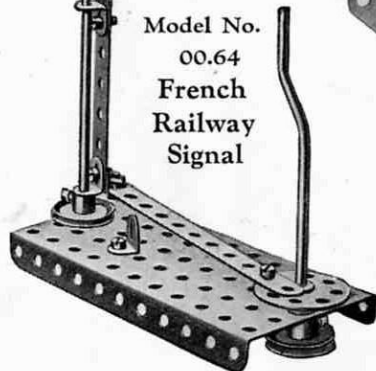


Model No. 00.69 Cutlery Rest

Model No. 00.71 Frame Aerial



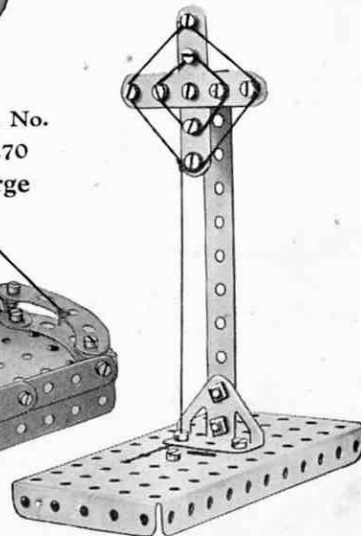
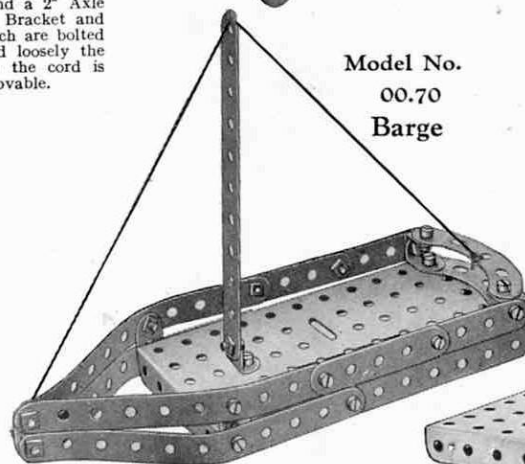
Model No. 00.64 French Railway Signal



Model No. 00.65 Print Trimmer

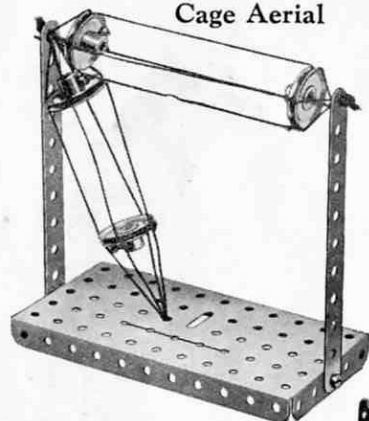


Model No. 00.70 Barge

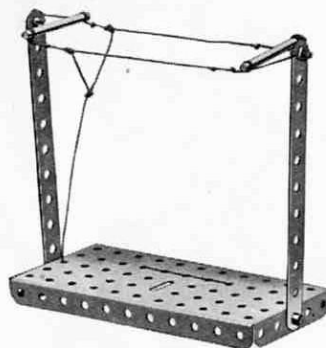


All these Models can be built with MECCANO Outfit No. 00

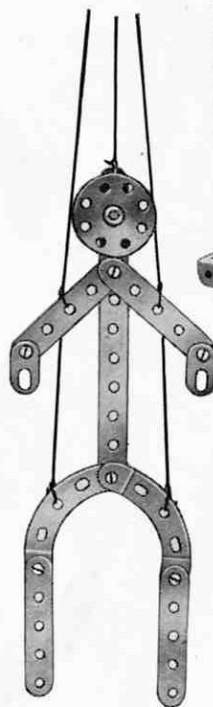
Model No. 00.72
Cage Aerial



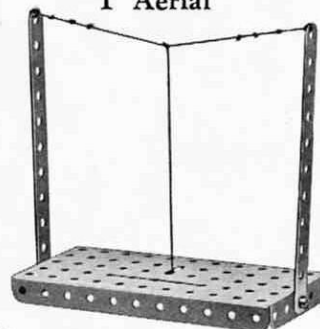
Model No. 00.73 Double Wire
L Aerial



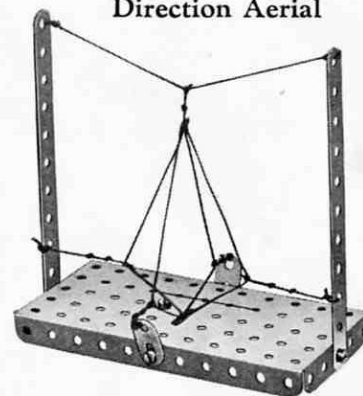
Model No. 00.74
Jumping Jack



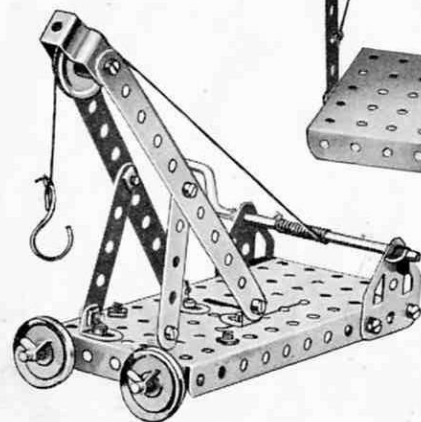
Model No. 00.75
Single Wire
T Aerial



Model No. 00.76
Direction Aerial



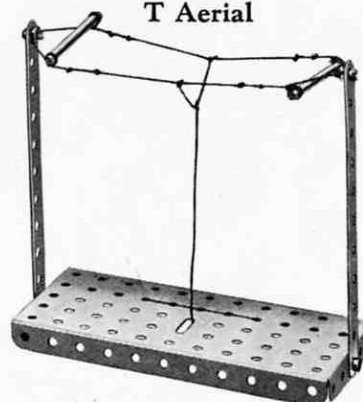
Model No. 00.77
Revolving Crane



Model No. 00.78
Single Wire
L Aerial



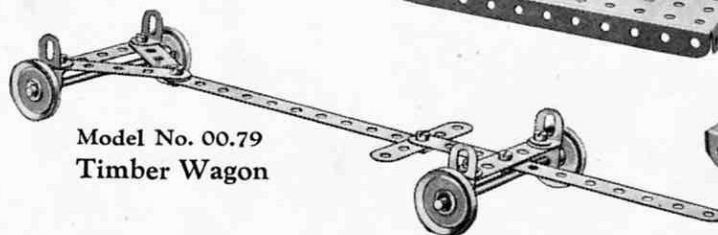
Model No. 00.80
Double Wire
T Aerial



Model No. 00.81
Swing

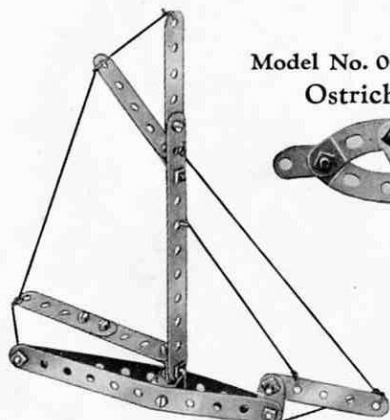


Model No. 00.79
Timber Wagon

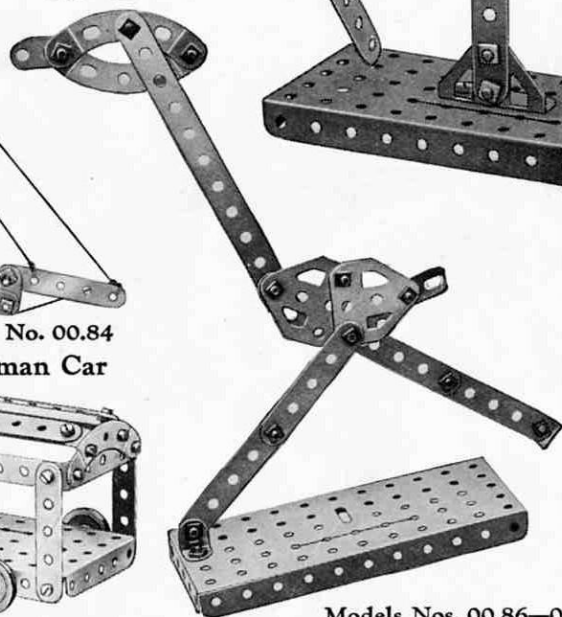


All these Models can be built with MECCANO Outfit No. 00

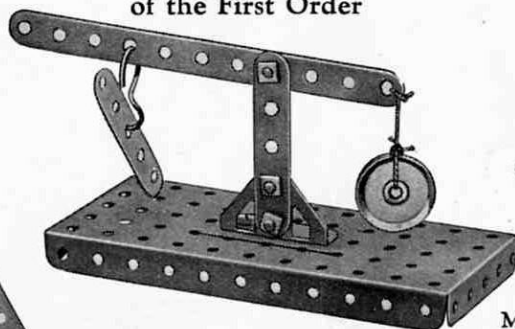
Model No. 00.82
Yacht



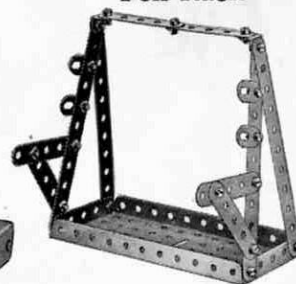
Model No. 00.83
Ostrich



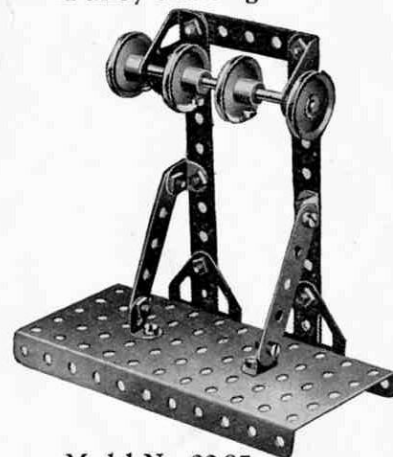
Model No. 00.85 Lever
of the First Order



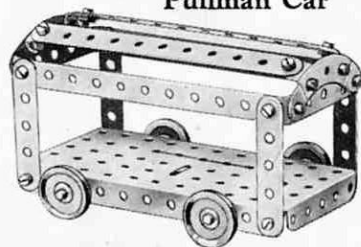
Model No. 00.94
Pen Rack



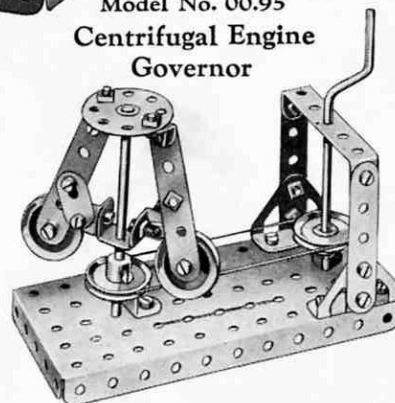
Model No. 00.96
Pulley Shafting



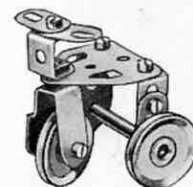
Model No. 00.84
Pullman Car



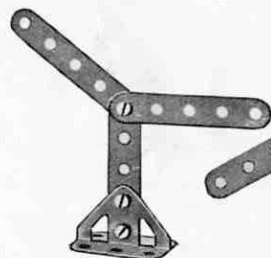
Model No. 00.95
Centrifugal Engine
Governor



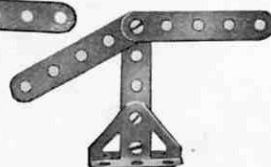
Model No. 00.97
Tricycle



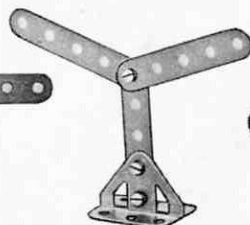
Models Nos. 00.86—00.93 Gradient Indicators



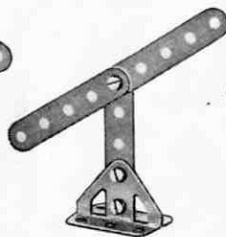
00.86



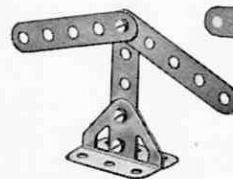
00.87



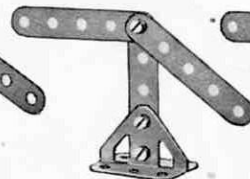
00.88



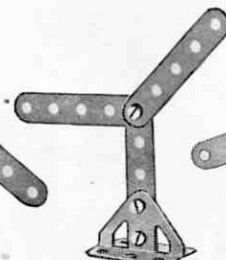
00.89



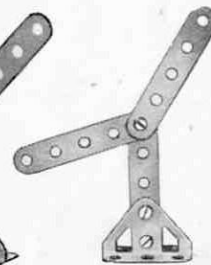
00.90



00.91



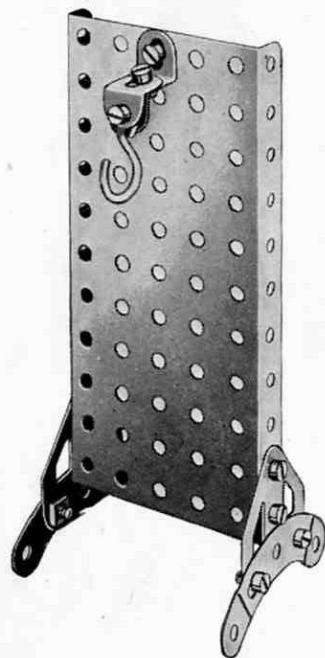
00.92



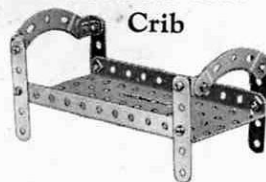
00.93

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

Model No. 00.98
Watch Stand

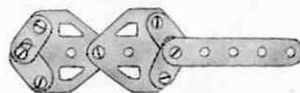


Model No. 00.99
Crib

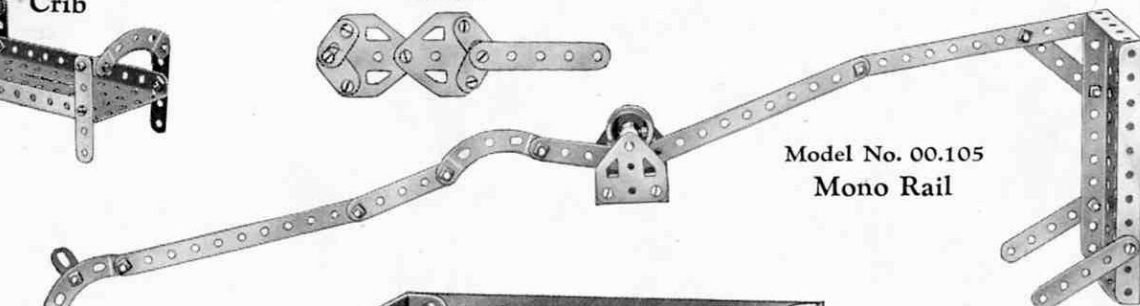


Model No. 00.100

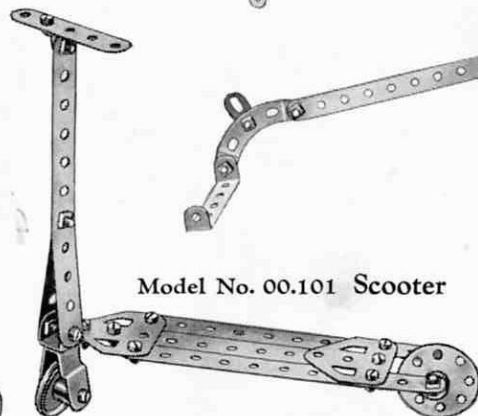
Violin



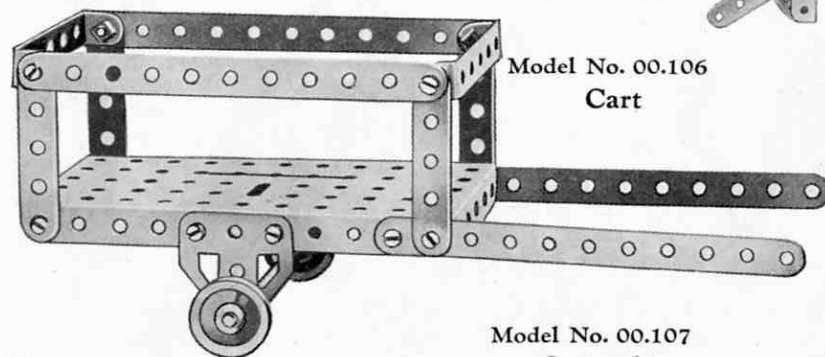
Model No. 00.105
Mono Rail



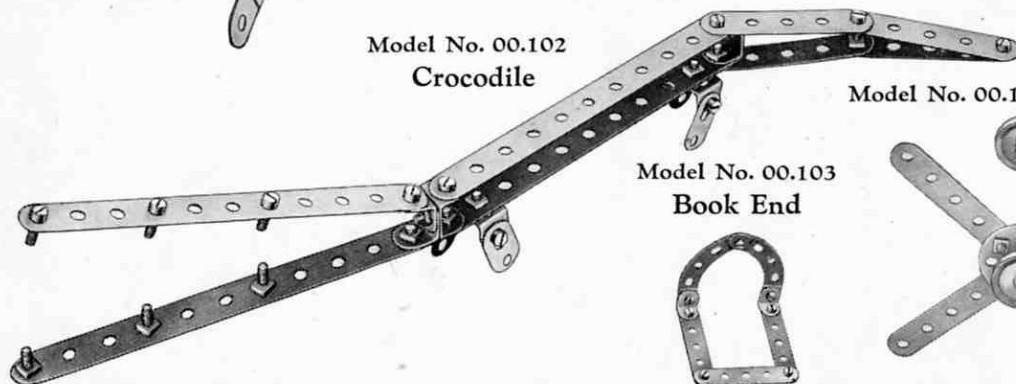
Model No. 00.101 Scooter



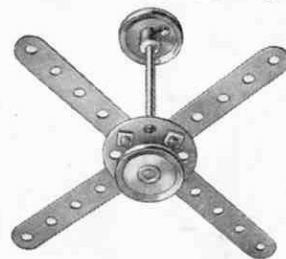
Model No. 00.106
Cart



Model No. 00.102
Crocodile



Model No. 00.104 Ceiling Fan

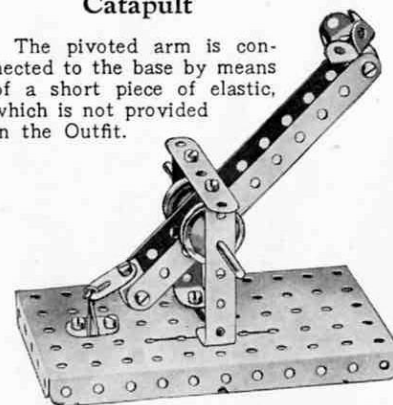


Model No. 00.103
Book End



Model No. 00.107
Catapult

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

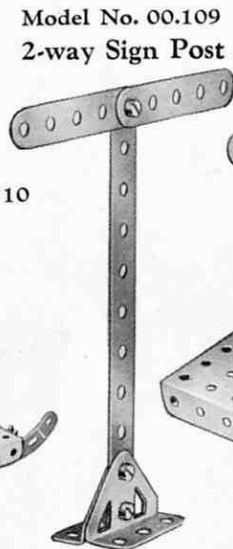


All these Models can be built with MECCANO Outfit No. 00

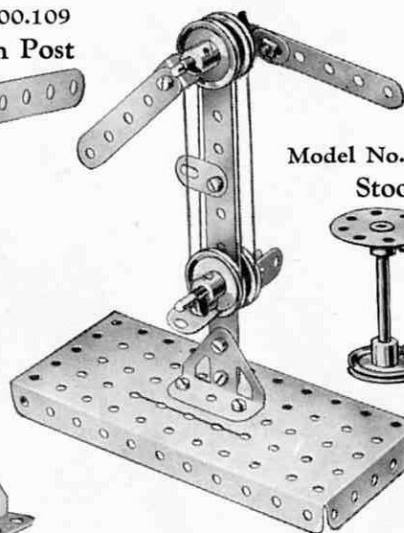
Model No. 00.108
Track Gauge



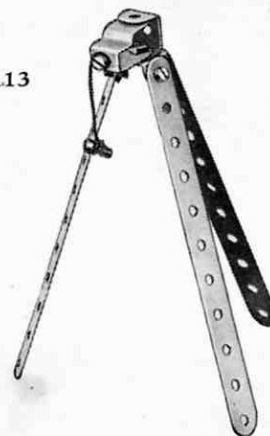
Model No. 00.109
2-way Sign Post



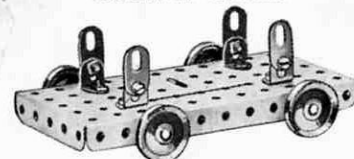
Model No. 00.112 Semaphore



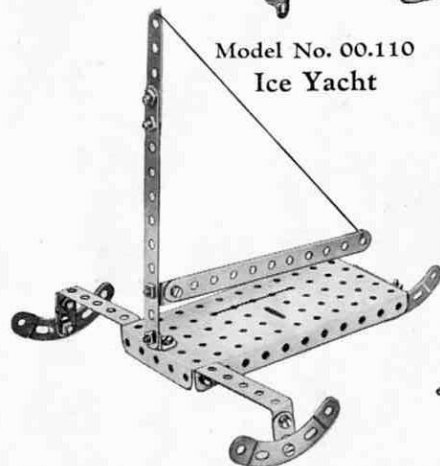
Model No. 00.116
Camera



Model No. 00.117
Lumber Truck



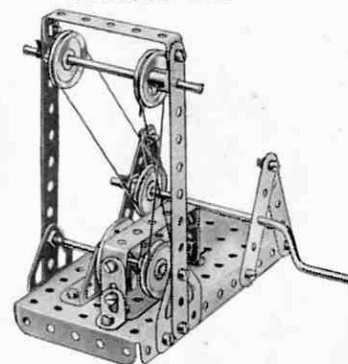
Model No. 00.110
Ice Yacht



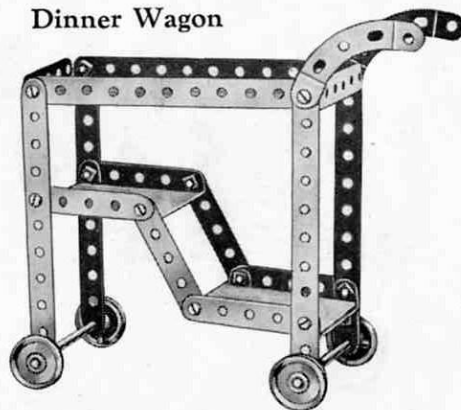
Model No. 00.113
Stool



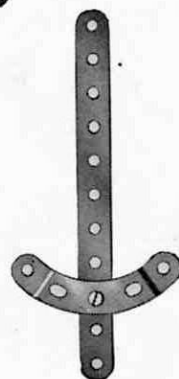
Model No. 00.118
Circular Saw



Model No. 00.111
Dinner Wagon



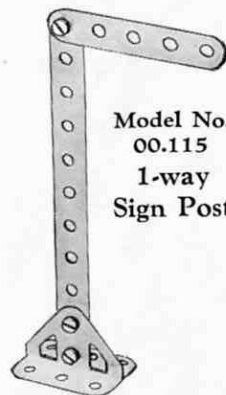
Model No. 00.114
Sword



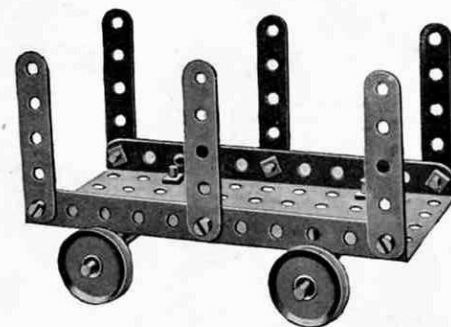
Model No. 00.119
Umbrella Stand



Model No.
00.115
1-way
Sign Post

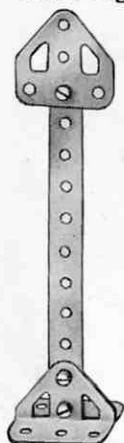


Model No. 00.120 Timber Truck



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

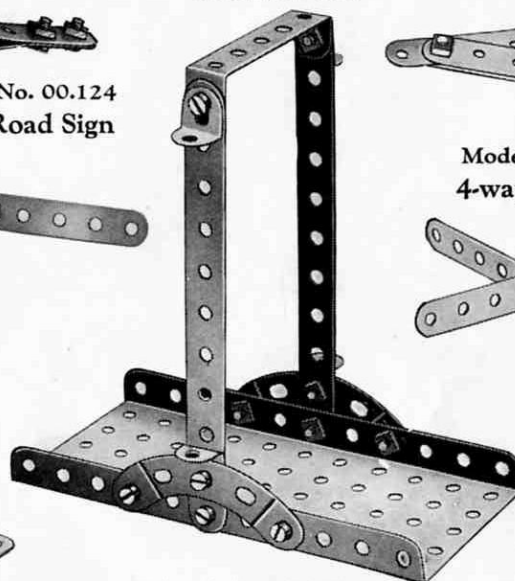
Model No. 00.121
Road Sign



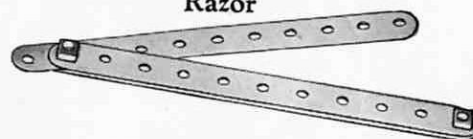
Model No. 00.122 Tweezers



Model No. 00.128
Elevator Car



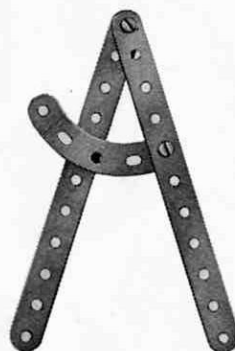
Model No. 00.130
Razor



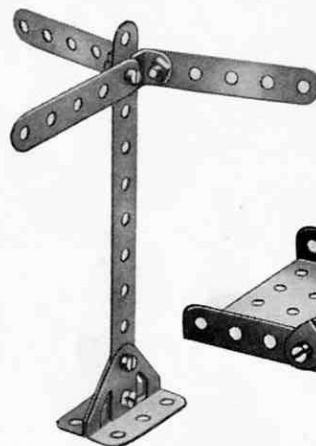
Model No. 00.133
Road Sign



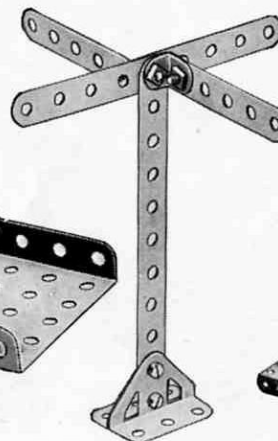
Model No.
00.123
Dividers



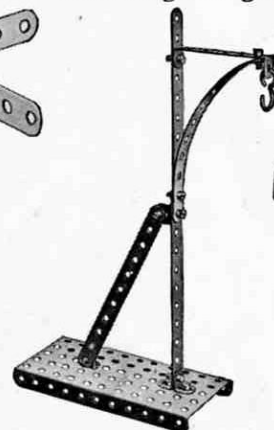
Model No. 00.124
3-way Road Sign



Model No. 00.131
4-way Road Sign



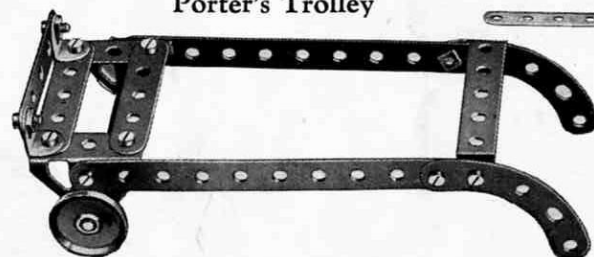
Model No. 00.132
Mail Bag Hanger



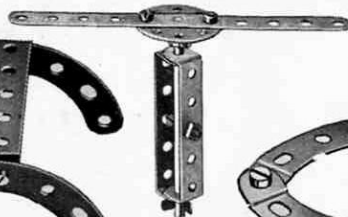
Model No. 00.125
Tin Opener



Model No. 00.126
Porter's Trolley



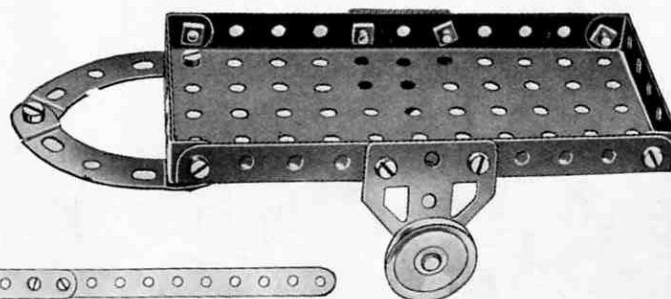
Model No. 00.129
Propeller



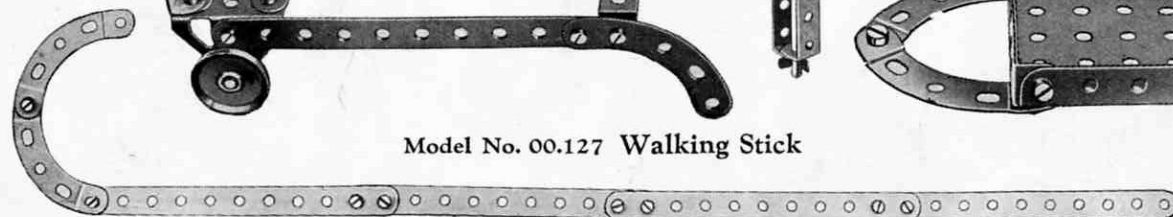
Model No.
00.135
Street
Lamp



Model No. 00.134 Hand Truck

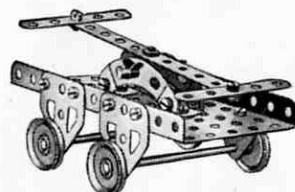


Model No. 00.127 Walking Stick

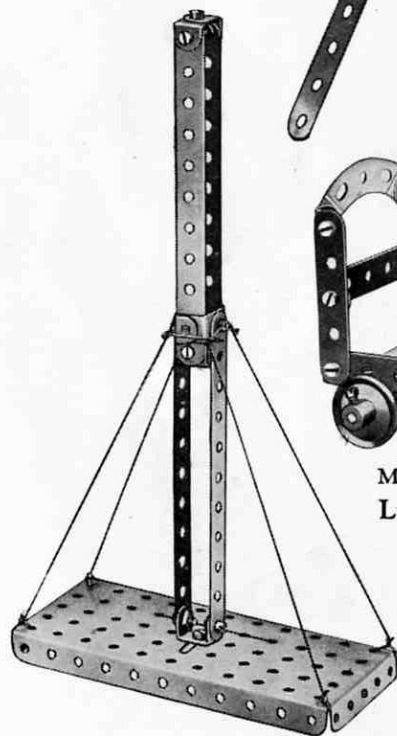


All these Models can be built with MECCANO Outfit No. 00

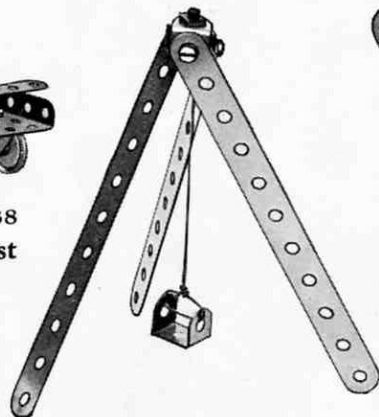
Model No. 00.136
Hand Car



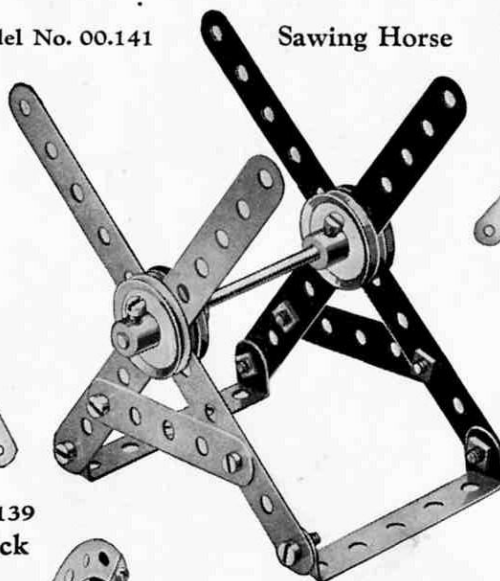
Model No. 00.138
Telescopic Mast



Model No. 00.137
Tripod

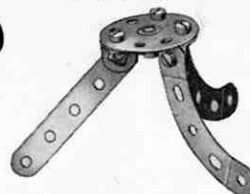


Model No. 00.141

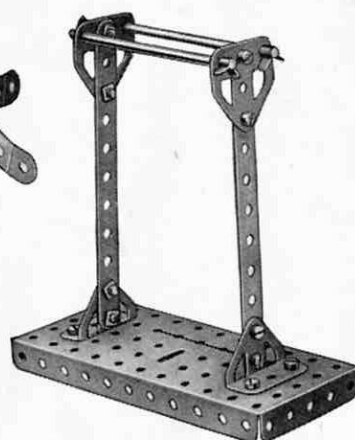


Sawing Horse

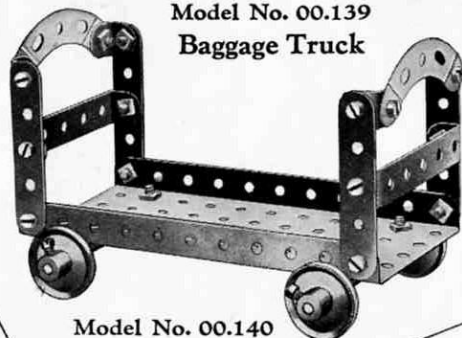
Model No. 00.142
Piano Stool



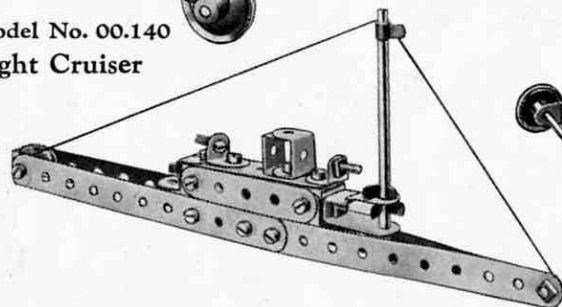
Model No. 00.143
Towel Horse



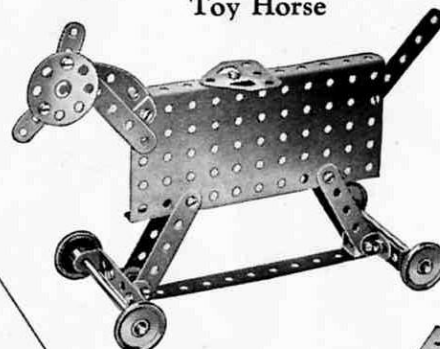
Model No. 00.139
Baggage Truck



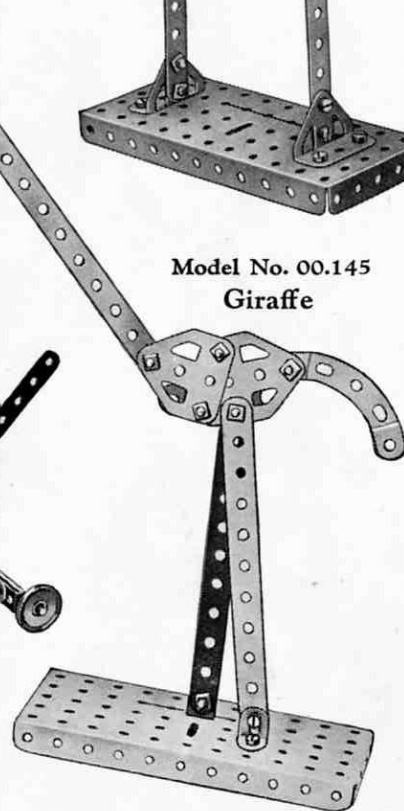
Model No. 00.140
Light Cruiser



Model No. 00.144
Toy Horse

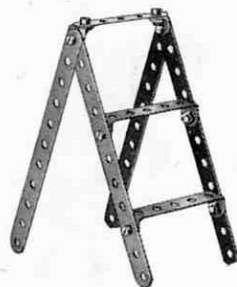


Model No. 00.145
Giraffe



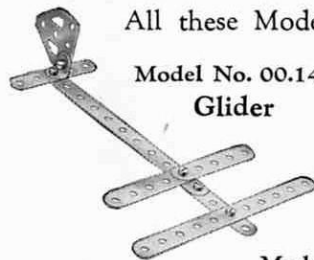
14

Model No. 00.146
Step Ladder

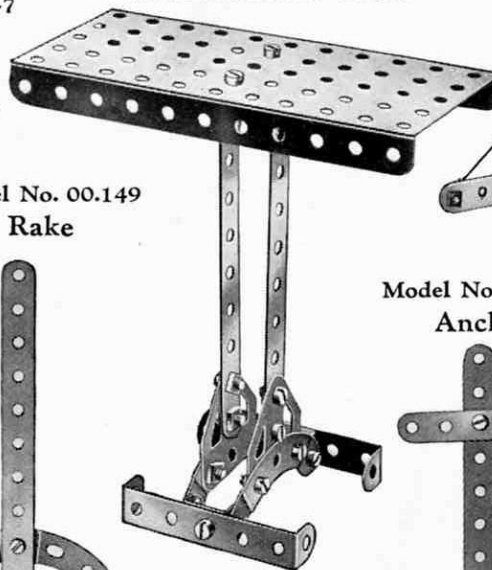


All these Models can be built with MECCANO Outfit No. 00

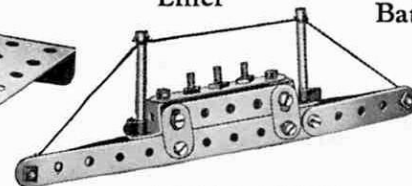
Model No. 00.147
Glider



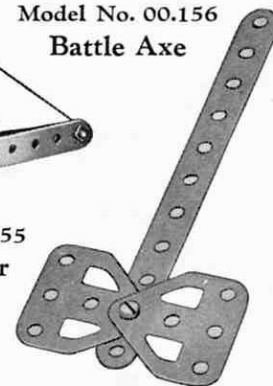
Model No. 00.151 Table



Model No. 00.153
Liner



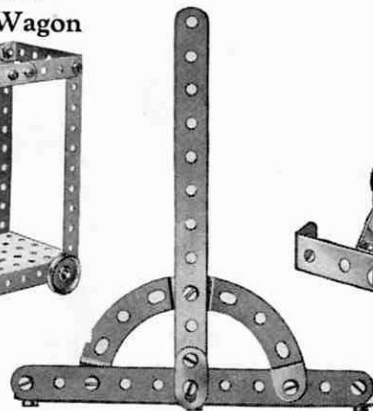
Model No. 00.156
Battle Axe



Model No. 00.148
Refreshment Wagon



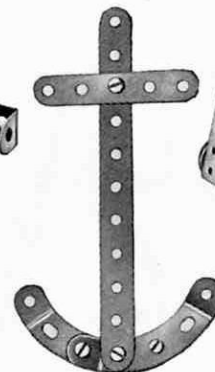
Model No. 00.149
Rake



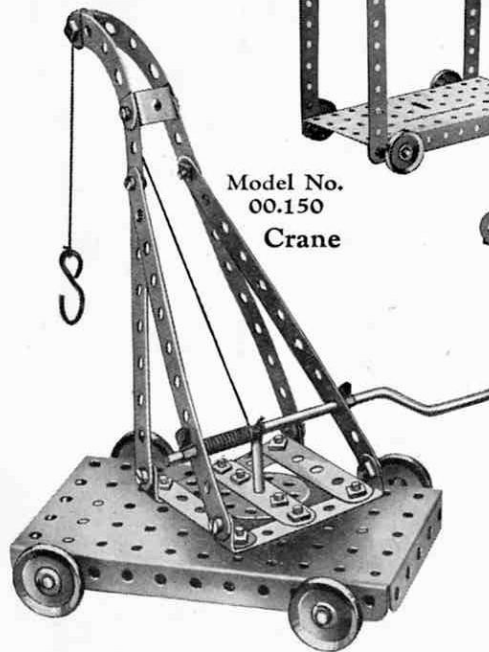
Model No. 00.155
Gravel Sifter



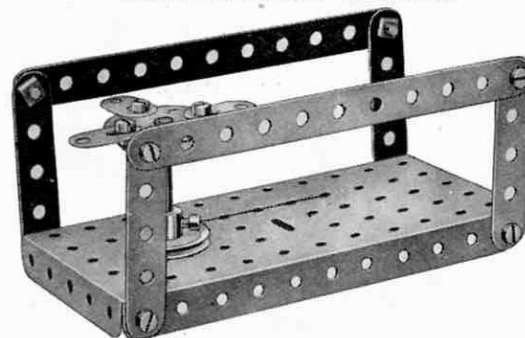
Model No. 00.154
Anchor



Model No.
00.150
Crane



Model No. 00.152 Turnstile



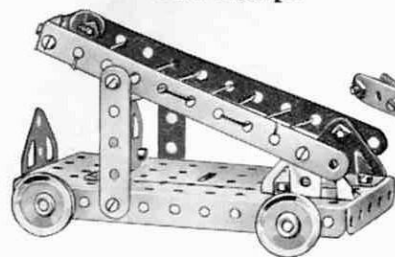
Model No.
00.157
Mail
Bag
Hanger



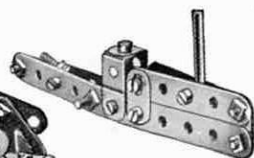
All these Models can be built with MECCANO Outfit No. 00

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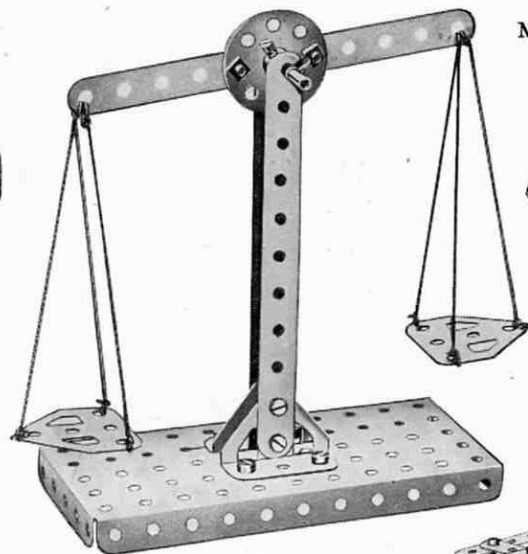
Model No. 00.158
Fire Escape



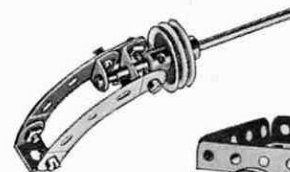
Model No. 00.159
Torpedo Boat



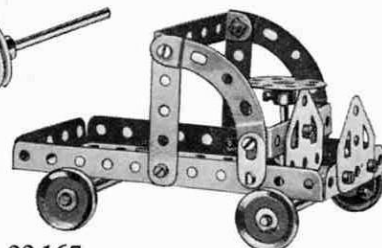
Model No. 00.163 Scales



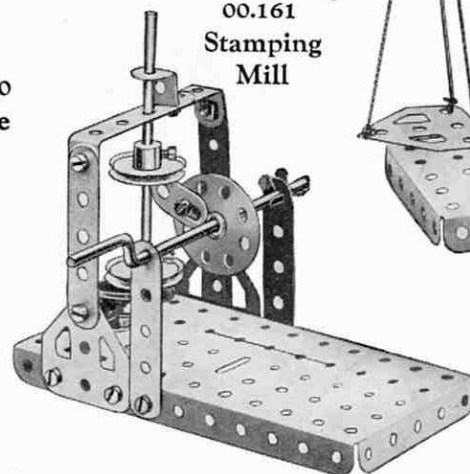
Model No. 00.165 Pistol



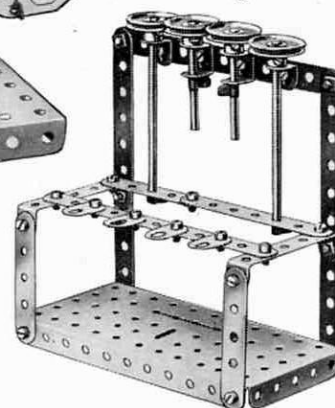
Model No. 00.166
Motor Car



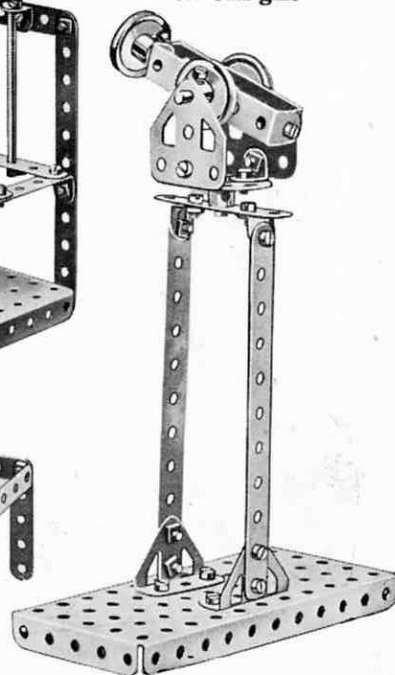
Model No.
00.161
Stamping
Mill



Model No. 00.167
Organ



Model No. 00.169
Searchlight



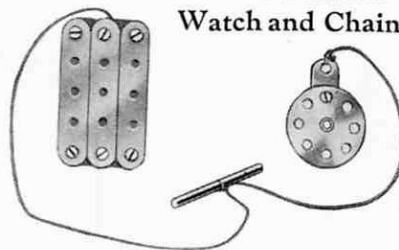
Model No. 00.160
Telegraph Pole



Model No. 00.164
Clothes
Drying Frame



Model No. 00.162
Watch and Chain

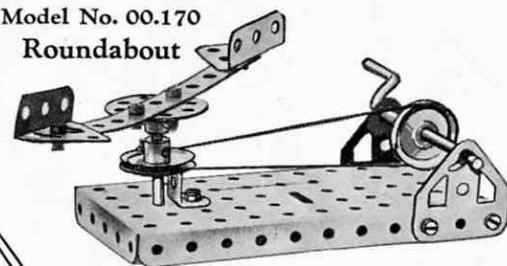


Model No. 00.168
Drinking Trough

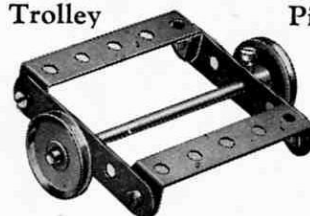


All these Models can be built with MECCANO Outfit No. 00

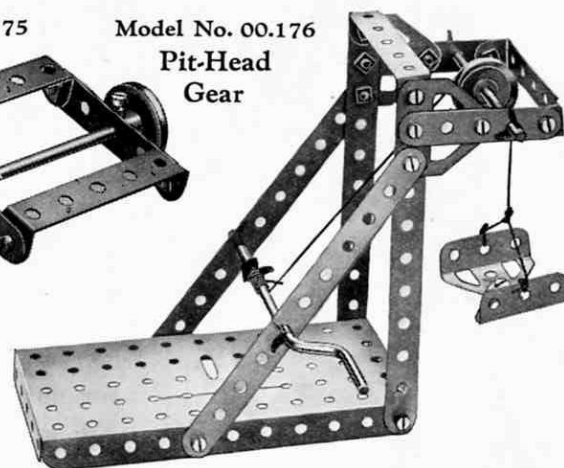
Model No. 00.170
Roundabout



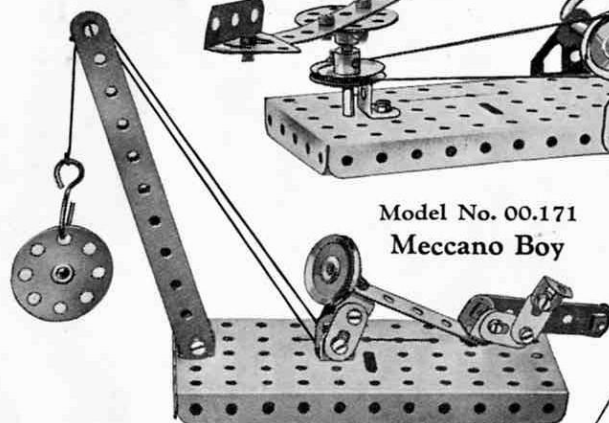
Model No. 00.175
Trolley



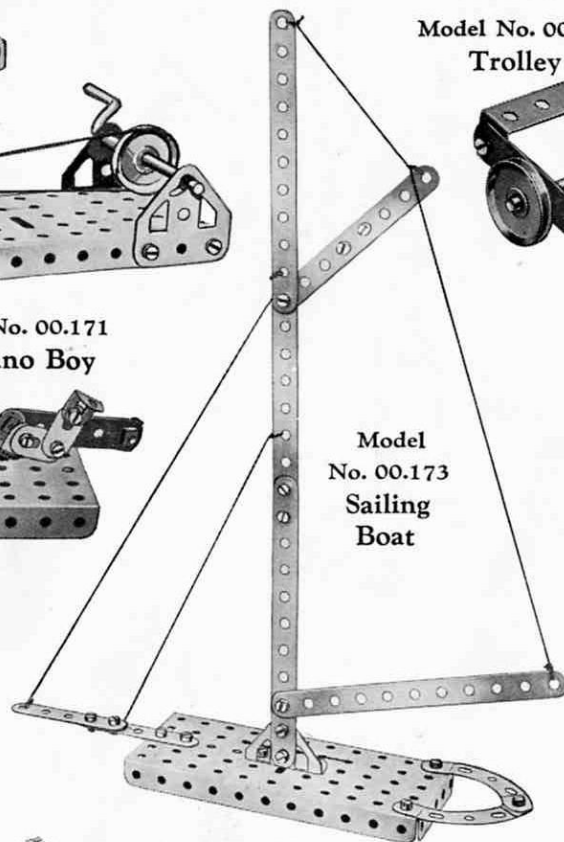
Model No. 00.176
Pit-Head
Gear



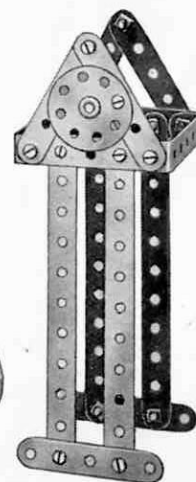
Model No. 00.171
Meccano Boy



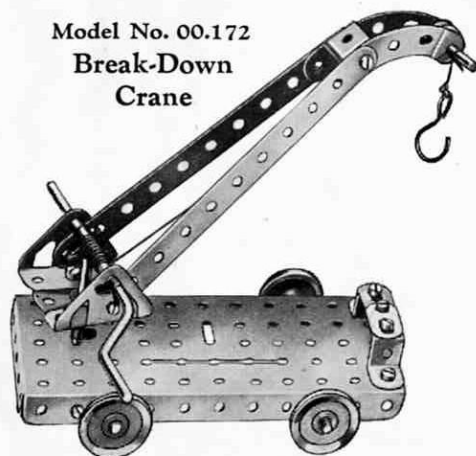
Model
No. 00.173
Sailing
Boat



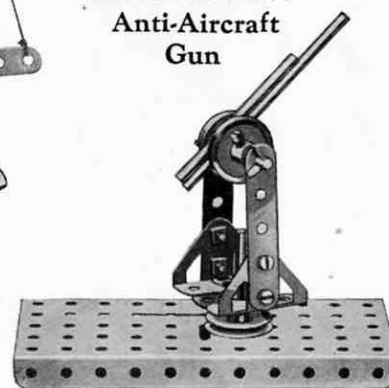
Model No. 00.178
Grandfather's Clock



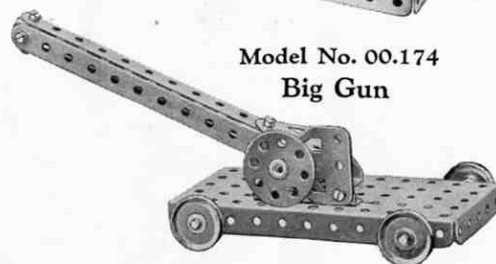
Model No. 00.172
Break-Down
Crane



Model No. 00.177
Anti-Aircraft
Gun

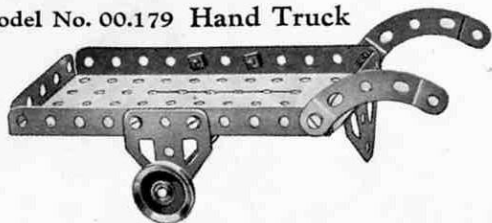


Model No. 00.174
Big Gun



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

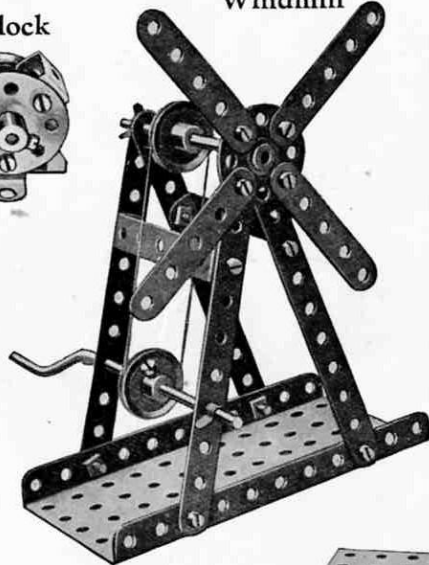
Model No. 00.179 Hand Truck



Model
No. 00.181
Clock



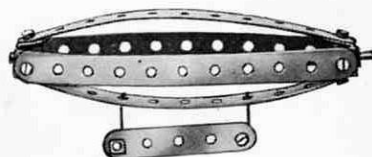
Model No. 00.183
Windmill



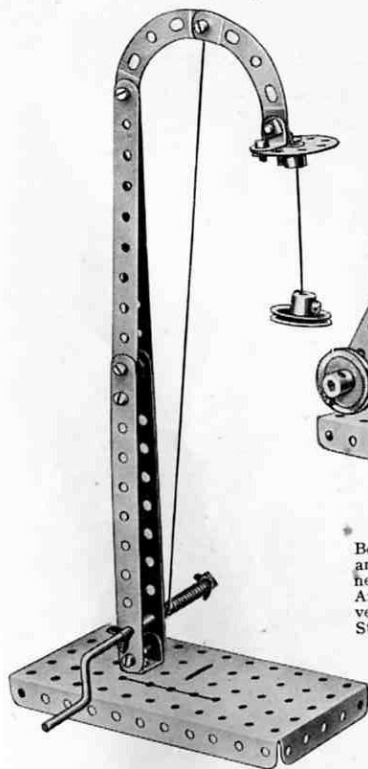
Model
No. 00.185
Flower Pot
Stand



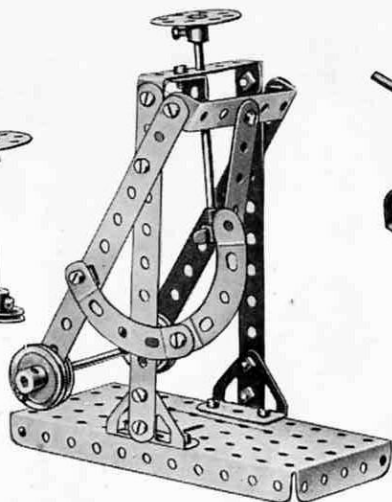
Model No. 00.186 Airship



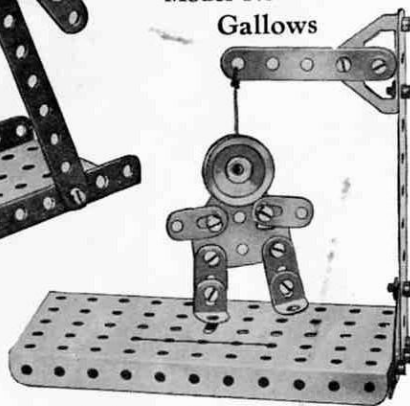
Model No. 00.180
Arc Lamp



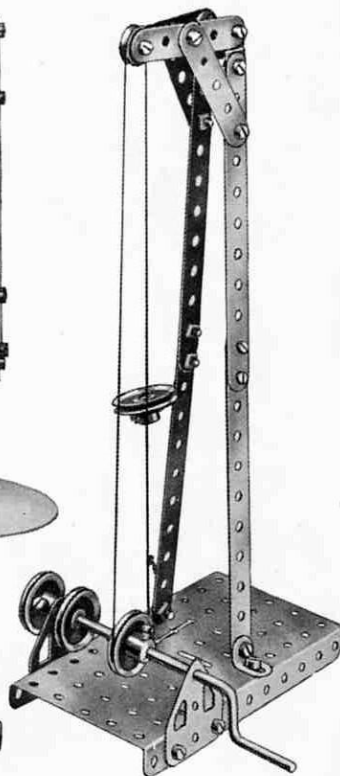
Model No. 00.182
Letter Balance



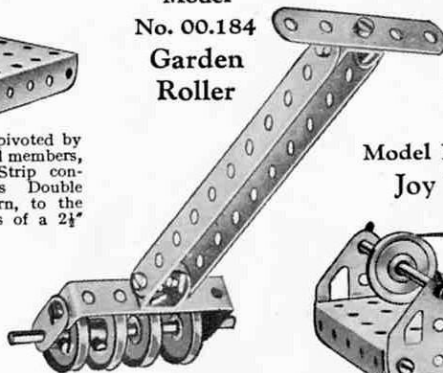
Model No. 00.187
Gallows



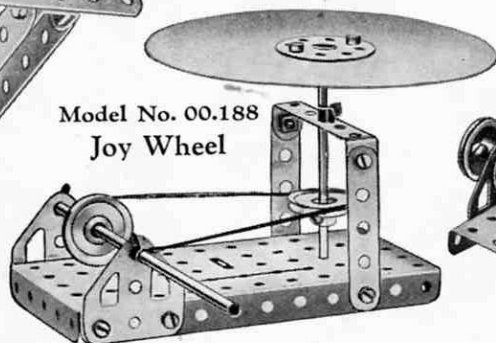
Model No. 00.189
Airship Mooring Mast



Model
No. 00.184
Garden
Roller



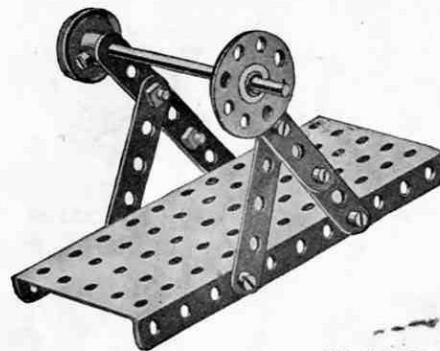
Model No. 00.188
Joy Wheel



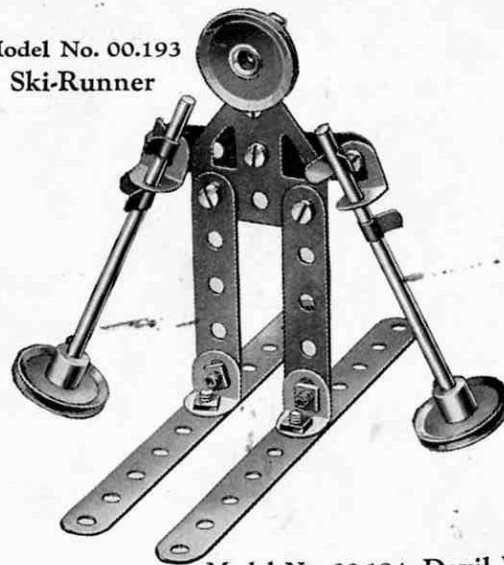
The weighted $5\frac{1}{2}$ " Strips are pivoted by Bolts and lock-nuts to the vertical members, and a $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip connects their upper ends. This Double Angle Strip is connected, in turn, to the vertical $3\frac{1}{2}$ " Axle Rod by means of a $2\frac{1}{2}$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

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

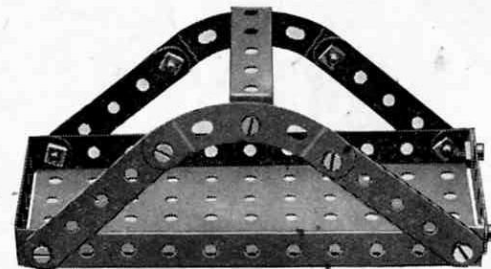
Model No. 00.190 Buffing Spindle



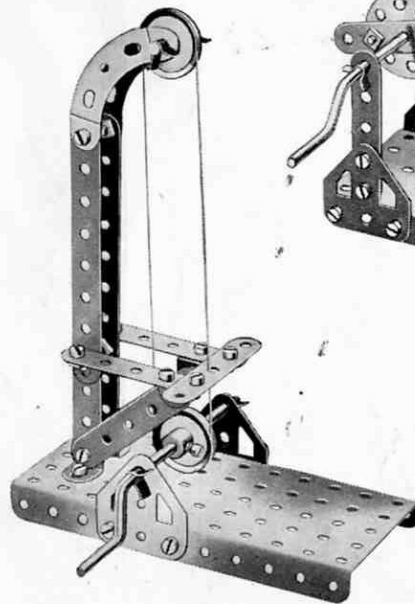
Model No. 00.193
Ski-Runner



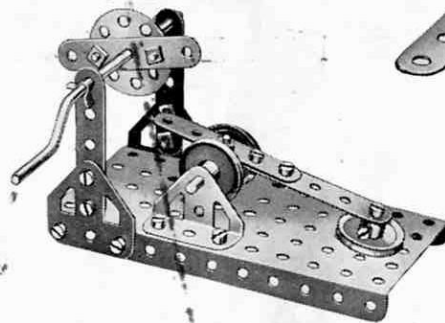
Model No. 00.196 Cutlery Basket



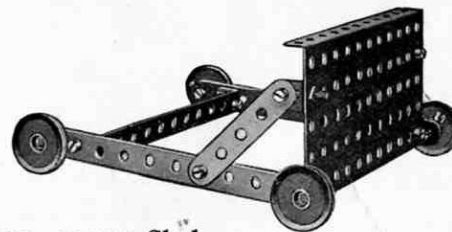
Model No. 00.191
Band Saw



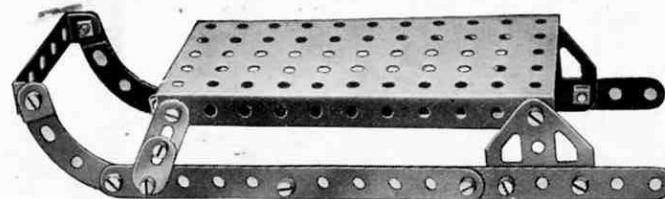
Model No. 00.192
Trip Hammer



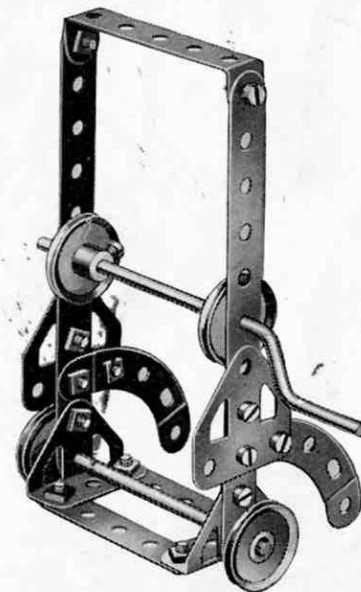
Model No. 00.194 Devil Wall



Model No. 00.195 Sled



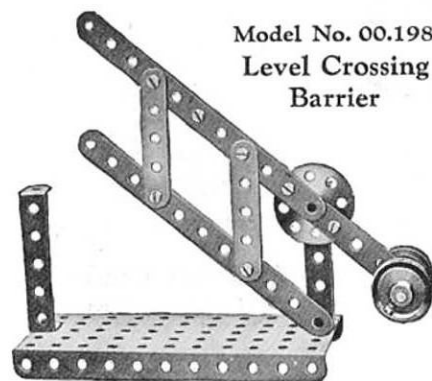
Model No. 00.197
Garden Hose Reel



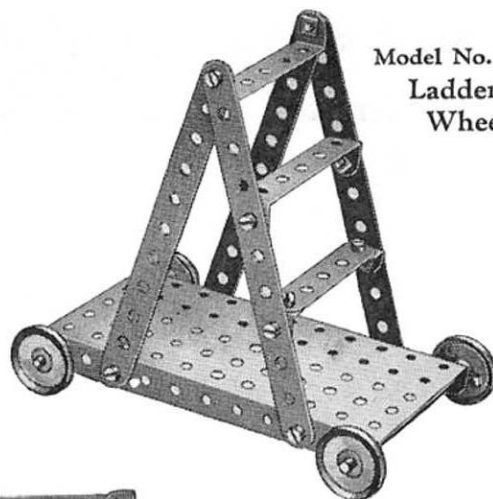
All these Models can be built with MECCANO Outfit No. 00

19

Model No. 00.198
Level Crossing
Barrier



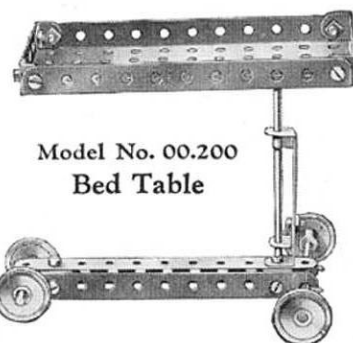
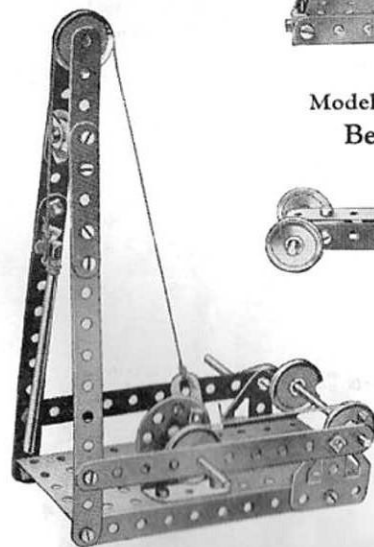
Model No. 00.201
Ladder on
Wheels



Model No. 00.204
Bath Chair

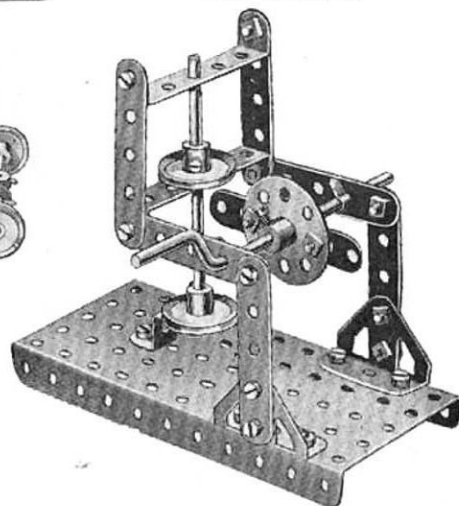


Model No. 00.199
Well Driller



Model No. 00.200
Bed Table

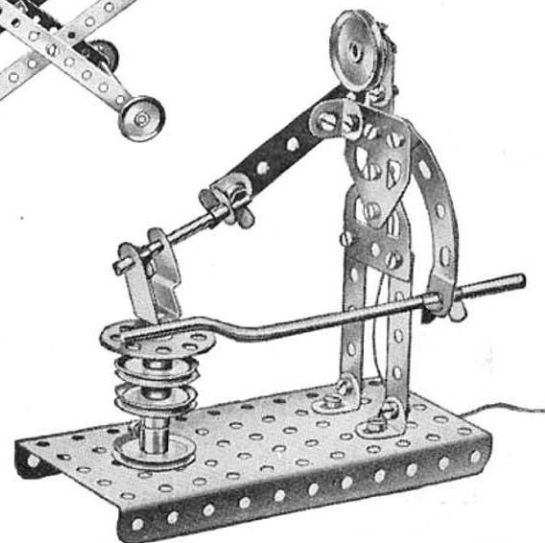
Model No. 00.202
Ore Crusher



Model No. 00.203
Tea Wagon



Model No. 00.205
Blacksmith





MECCANO

THE TOY THAT MADE ENGINEERING FAMOUS



CONTENTS OF No. 00 OUTFIT

No.		Qty.	No.		Qty.
2	Perforated Strips, $5\frac{1}{2}"$...	4	40	Hanks of Cord ...	1
5	" " $2\frac{1}{2}"$...	6	44	Cranked Bent Strips ...	1
10	Flat Brackets ...	4	48A	Double Angle Strips, $2\frac{1}{2}" \times \frac{1}{2}"$...	2
12	Angle Brackets, $\frac{1}{2}" \times \frac{1}{2}"$...	8	52	Perforated Flanged Plates, $5\frac{1}{2}" \times 2\frac{1}{2}"$...	1
16	Axle Rods, $3\frac{1}{2}"$...	2	57	Hooks ...	1
17	" " $2"$...	2	90A	$2\frac{1}{2}"$ Curved Strips, cranked, $1\frac{1}{2}"$ radius, 4 to circle ...	2
19s	Crank Handles (Small) ...	1	111c	Bolts, $\frac{3}{8}"$...	4
22	Pulley Wheels, $1"$ (Fast) ...	4	125	Reversed Angle Brackets, $\frac{1}{2}"$...	1
24	Bush Wheels ...	1	126	Trunnions ...	2
35	Spring Clips ...	4	126A	Flat Trunnions ...	2
36	Screw Drivers ...	1		Instructions Manual No. 00 ...	1
37	Nuts and Bolts, $7/32"$...	16			
37A	Nuts ...	4			

MECCANO PRICE LIST

Complete Outfits			Accessory Outfits		
No. 00 Meccano Outfit ...	3/6		No. 00A Meccano Accessory Outfit ...	1/6	
" 0 " " ...	5/-		" 0A " " ...	5/6	
" 1 " " ...	10/-		" 1A " " ...	7/-	
" 2 " " ...	16/-		" 2A " " ...	12/6	
" 3 " " ...	27/6		" 3A " " ...	23/6	
" 4 " " ...	50/-		" 4A " " ...	15/-	
" 5* " (Carton) ...	65/-		" 5A* " (Carton) ...	50/-	
" 5* " Presentation Outfit ...	95/-		" 5A* " (Wood) ...	80/-	
" 6* " Outfit (Carton) ...	115/-		" 6A " " ...	200/-	
" 6* " Presentation Outfit ...	150/-		Special Inventor's Outfit ...	17/6	
" 7 " " ...	365/-				

* Outfits Nos. 5, 5A and 6 are supplied in neat and well-made cardboard boxes (cartons) or in superior oak cabinets, with lock and key.

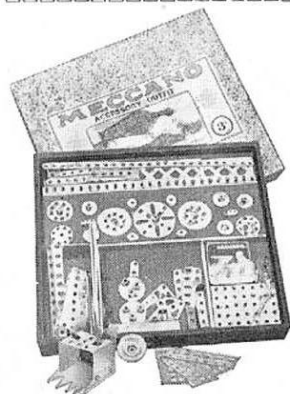
MECCANO ACCESSORY OUTFITS

Meccano Accessory Outfits

Our illustration shows one of the Meccano Accessory Outfits. As has already been explained, these Outfits connect the main Outfits from No. 00 to No. 7, making it possible for a boy who commences with one of the earlier Outfits to build up his equipment by easy stages, until he is the possessor of parts that cover the entire system.

Special Inventor's Outfit

This Outfit is intended for boys who already have Meccano, and who wish to satisfy their inventive inclinations by building models from their own designs. The parts contained include four large Pulley Wheels with Dunlop Tyres, Ball Race, Ship's Funnel, Pulley Blocks, Channel Bearing, Crane Grab and many others.



MECCANO LTD

BINNS ROAD

OLD SWAN

LIVERPOOL