

MECCANO



(TRADE MARKS 296321, 12633, 10274, 55/13476, 569/13, 884/25, 2913)

INSTRUCTIONS

FOR OUTFIT No. 0

Price 4d.

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No. 27.0

ENGLISH EDITION

A TALK WITH NEW MECCANO BOYS



THE Meccano No. 00 Outfit is the first step in the Meccano system ; then comes No. 0 with which 67 working mechanical models can be made, each one a perfect little toy.

After you have made them all, you will wish to go on building, and you can do this by adding new parts to your No. 0 or by purchasing a No. 0A Accessory Outfit, thus converting your No. 0 into a No. 1. You will then be able to build 102 models, including larger and better cranes, bridges, wagons, trucks, windmills, etc.

Already known as the greatest constructional system in the world, Meccano now has an additional attraction—the steel parts are richly coloured in red and green. Thus, not only are Meccano models real engineering structures in miniature, but they are also objects of beauty and charm. Each one you build, as it is completed and "tuned up," will give you a thrill of pleasure such as you have never previously experienced.

As you progress in Meccano you obtain a greater variety of parts, Gear-Wheels, Pulley-Wheels, Worm-Wheels, Couplings, Cranks, and all manner of perfectly-made real engineering parts. These enable you to construct

complicated mechanical movements without any difficulty. The most wonderful feature of Meccano is that it is *real engineering*; it is fascinating and delightful to play with, 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 ; has a shot at 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.

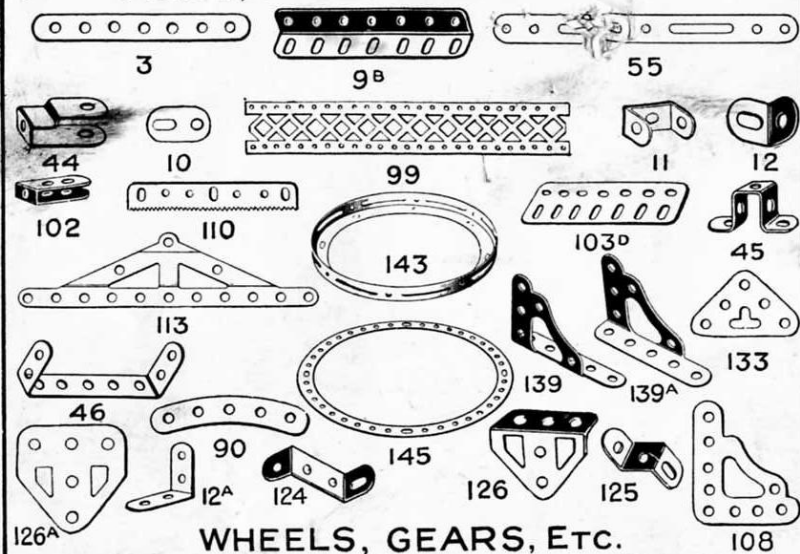
The *Meccano Magazine* is the Meccano boy's newspaper. It tells him of the latest Meccano models ; what Meccano Clubs are doing ; how to correspond with other Meccano boys ; the Competitions that are running, etc. It contains interesting articles on Engineering and Electrical subjects, Railways, Aeroplanes, Cycling, Stamps, Photography, 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, Liverpool, giving the names and addresses of three of your chums who are not Meccano boys and 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 6 issues or 8/- for 12 issues, post free. On the other hand, if you prefer it, you may order the Magazine from your Meccano dealer, or from any newsagent or bookstall, price 6d.

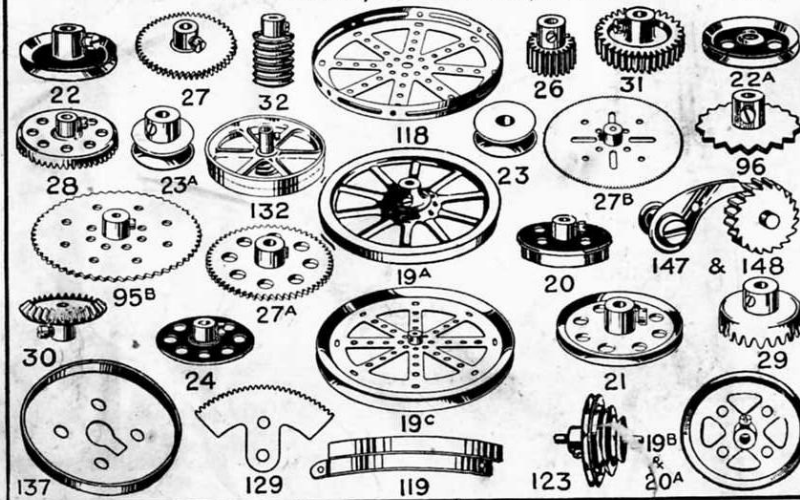
HOW TO BUILD WITH MECCANO

Follow the instructions closely at first, and build the models just as you see them. Then take each model and try to improve our design. Every model can be made in a dozen different ways. Screw up all the nuts and bolts and you will find that you can play with the trucks, cranes, signals, etc., and obtain many hours of fun from them.

STRIPS, GIRDERS AND BRACKETS



WHEELS, GEARS, ETC.



Particulars and Prices of Meccano Parts

No.		s.	d.	No.		s.	d.	
1.	Perforated Strips, 12 $\frac{1}{2}$ " long	1	0	27.	50 teeth to gear with $\frac{1}{2}$ " pinion	0	9	
1a.	" " 9 $\frac{1}{2}$ " " "	0	9	27a.	57 " " " " (3 $\frac{1}{2}$ " dia.)	0	9	
1b.	" " 7 $\frac{1}{2}$ " " "	0	8	27b.	133 " " " " " "	1	6	
2.	" " 5 $\frac{1}{2}$ " " "	0	6	28.	Contrate Wheels, 1 $\frac{1}{2}$ " diam.	0	9	
2a.	" " 4 $\frac{1}{2}$ " " "	0	5	29.	Bevel Gears, 26 teeth	0	6	
3.	" " 3 $\frac{1}{2}$ " " "	0	4	30.	" " 16 " "	0	6	
4.	" " 3" " "	0	3	30a.	" " 24 " "	0	9	
5.	" " 2 $\frac{1}{2}$ " " "	0	3	30b.	" " 48 " "	1	0	
6.	" " 2" " "	0	3	30c.	" " 1 $\frac{1}{2}$, 48 " "	1	0	
6a.	" " 1 $\frac{1}{2}$ " " "	0	3	31.	Gear Wheels, 1", 38 teeth	1	0	
7.	Angle Girders, 24 $\frac{1}{2}$ " long	each	0	32.	Worm Wheels	0	6	
7a.	" " 18 $\frac{1}{2}$ " " "	0	6	33.	Spanners	0	2	
8.	" " 12 $\frac{1}{2}$ " " "	1	9	34b.	Box Spanners	0	3	
8a.	" " 9 $\frac{1}{2}$ " " "	1	3	35.	Spring Clips	per box (doz.)	0	3
8b.	" " 7 $\frac{1}{2}$ " " "	1	2	36.	Screw Drivers	each	0	3
9.	" " 5 $\frac{1}{2}$ " " "	1	0	36a.	Extra Long	0	6	
9a.	" " 4 $\frac{1}{2}$ " " "	0	10	37.	Nuts and Bolts, 7/32"	per box (doz.)	0	6
9b.	" " 3 $\frac{1}{2}$ " " "	0	8	37a.	Nuts	0	3	
9c.	" " 3" " "	0	8	37b.	Bolts, 7/32"	" " "	0	3
9d.	" " 2 $\frac{1}{2}$ " " "	0	7	*38.	Washers	" " "	0	1
9e.	" " 2" " "	0	6	40.	Hanks of Cord	2 for	0	3
9f.	" " 1 $\frac{1}{2}$ " " "	0	6	41.	Propeller Blades	per pair	0	4
*10.	Flat Brackets	each	0	43.	Springs	each	0	2
*11.	Double Brackets	each	0	*44.	Cranked Bent Strips	0	1	
*12.	Angle Brackets, 1" x 1"	doz.	0	45.	Double Bent Strips	0	1	
*12a.	" " 1" x 1"	each	0	46.	Double Angle Strips, 2 $\frac{1}{2}$ " x 1"	1 doz.	0	6
*12b.	" " 1" x 1"	0	1	47.	" " 2 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	0	9	
13.	Axle Rods, 11 $\frac{1}{2}$ " long	0	3	47a.	" " 3" x 1 $\frac{1}{2}$ "	1	0	
13a.	" " 8" " "	0	3	48.	" " 1 $\frac{1}{2}$ " x 1"	0	4	
14.	" " 6 $\frac{1}{2}$ " " "	0	2	48a.	" " 2 $\frac{1}{2}$ " x 1"	0	5	
15.	" " 5" " "	0	2	48b.	" " 3 $\frac{1}{2}$ " x 1"	0	6	
15a.	" " 4 $\frac{1}{2}$ " " "	0	1	48c.	" " 4 $\frac{1}{2}$ " x 1"	0	9	
16.	" " 3 $\frac{1}{2}$ " " "	0	1	48d.	" " 5 $\frac{1}{2}$ " x 1"	0	9	
16a.	" " 2 $\frac{1}{2}$ " " "	0	1	50.	Eye Pieces	each	0	2
16b.	" " 2" " "	0	1	52.	Perforated Flanged Plates, 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	0	5	
17.	" " 2" " "	0	1	52a.	Flat Plates, 5 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	0	5	
18a.	" " 1 $\frac{1}{2}$ " " "	0	1	53.	Perforated Flanged Plates, 3 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	0	3	
18b.	" " 1" " "	0	1	53a.	Flat Plates, 4 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	0	3	
19.	Crank Handles (6" shaft)	0	3	54.	Perforated Flanged Sector Plates	0	3	
19a.	Wheels, 3" diam., with set screws	0	8	55.	Perforated Strips, slotted, 5 $\frac{1}{2}$ " long	0	2	
20.	Flanged Wheels	0	6	55a.	" " 2" " "	0	1	
19b.	3" dia. with centre boss and set screw	0	8	56.	Instruction Manuals, Complete	2	6	
19c.	6" " " " " "	2	6	56a.	" " No. 0-3	1	0	
20a.	2" " " " " "	0	6	56b.	" " No. 0	0	4	
21.	1 $\frac{1}{2}$ " " " " " "	0	6	56c.	Standard Mechanisms Manual	1	0	
22.	1" " " " " "	0	4	57.	Hooks	0	1	
23a.	" " " " " "	0	4	57a.	" (Scientific)	0	1	
22a.	1" without	0	2	57b.	" (Loaded)	0	5	
23.	" " " " " "	0	2	58.	Spring Cord	per length	0	9
24.	Bush Wheels	0	6	59.	Collars with Set Screws	each	0	2
25.	Pinion Wheels, 1" diam.	0	6	61.	Windmill Sails	0	2	
25a.	face " " double width	0	9	62.	Cranks	0	3	
26.	Pinion Wheels, 1" diam.	0	4	62a.	Threaded Cranks	0	4	
26a.	face " " double width	0	6	62b.	Cranks with centre boss	0	3	
				63.	Couplings	0	6	
				63a.	Octagonal Couplings	0	8	
				63b.	Strip Couplings	0	0	

IMPORTANT.—Meccano Accessory Parts will be supplied in colours unless customers ask specially for nickelled parts.

*These parts are available with nickel finish only.

Particulars and Prices of Meccano Parts (continued)

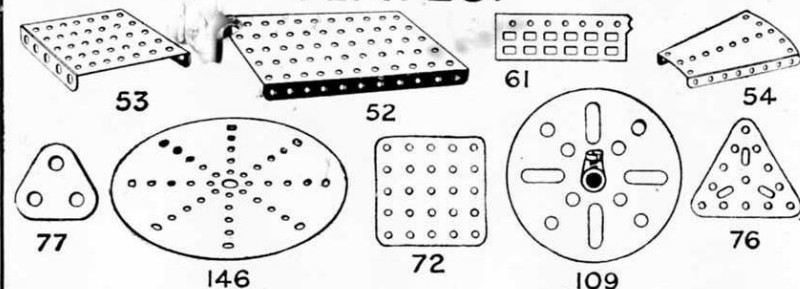
No.		s.	d.	No.		s.	d.
63c.	Threaded Couplings	each	0 6	*110.	Rack Strips, 3 1/2"	each	0 2
64.	Threaded Bosses	"	0 2	111.	Bolts, 1/2"	"	0 1
65.	Centre Forks	"	0 2	111a.	"	2 for	0 1
66.	Weights, 50 grammes	"	1 0	111c.	"	doz.	0 4
67.	25	"	1 0	113.	Girder Frames	each	0 2
68.	Woodscrews, 1/2"	doz.	0 3	*114.	Hinges	per pair	0 4
69.	Set Screws	"	0 4	115.	Threaded Pins	each	0 2
69a.	Grub Screws, 5/32"	"	0 4	*116.	Fork Pieces	"	0 3
69b.	7/32"	"	0 6	117.	Steel Balls, 1/2" diam.	doz.	0 6
70.	Flat Plates, 5 1/2" x 2 1/2"	each	0 3	118.	Hub Discs, 5 1/2" diam.	each	1 3
72.	2 1/2" x 2 1/2"	"	0 2	119.	Channel Segments (8 to circle, 1 1/2" diam.)	"	0 4
76.	Triangular Plates, 2 1/2"	"	0 2	120.	Buffers	"	0 2
77.	1"	"	0 1	120a.	Spring Buffers	per pair	0 8
78.	Screwed Rods, 1 1/2"	"	0 6	120b.	Springs for Spring Buffers	each	0 1
79.	"	"	0 5	*121.	Train Couplings	each	0 2
79a.	"	"	0 4	122.	Miniature Loaded Sacks	"	0 2
80.	"	"	0 3	123.	Cone Pulleys	"	1 3
80a.	"	"	0 3	*124.	Reversed Angle Brackets, 1"	1 doz.	0 10
80b.	"	"	0 3	*125.	"	"	0 6
81.	"	"	0 2	126.	Trunnions	each	0 3
82.	"	"	0 1	126a.	Flat Trunnions	"	0 2
89.	Curved Strips, 5 1/2"	"	0 2	127.	Simple Bell Cranks	"	0 3
90.	2 1/2" large radius	"	0 1	128.	Boss Bell Cranks	"	0 4
90a.	2 1/2" small radius	"	0 1	*129.	Rack Segments, 3" diam.	"	0 6
94.	Sprocket Chain, per 40" length	0 6		*130.	Triple Throw Eccentrics	"	1 3
*95.	Sprocket Wheels, 2" diam.	each	0 5	131.	Dredger Buckets	"	0 2
*95a.	1 1/2"	"	0 4	132.	Flywheels, 2 1/2" diam.	"	2 3
*95b.	3"	"	0 6	133.	Corner Brackets	"	0 3
*96.	3 1/2"	"	0 3	*134.	Crank Shafts, 1" stroke	"	0 3
*96a.	4"	"	0 3	135.	Theodolite Protractors	"	0 3
97.	Braced Girders, 3 1/2" long	1 doz.	0 9	136.	Handrail Supports	"	0 3
97a.	3"	"	0 8	137.	Wheel Flanges	"	0 4
98.	2 1/2"	"	0 6	138.	Ship's Funnels	"	0 4
99.	12 1/2"	"	1 9	139.	Flanged Brackets (right)	"	0 2
99a.	9 1/2"	"	1 6	139a.	(left)	"	0 2
99b.	7 1/2"	"	1 3	140.	Universal Couplings	"	0 9
100.	5 1/2"	"	1 0	141.	Wire Lines (for suspending clock weights)	"	0 9
100a.	4 1/2"	"	0 10	142a.	Dunlop Tyre, 2"	"	0 4
101.	Healds, for looms	doz.	0 9	142b.	3"	"	0 6
102.	Single Bent Strips	each	0 1	143.	Circular Girders, 5 1/2" diam.	"	1 0
103.	Flat Girders, 5 1/2" long	1 doz.	1 0	144.	Dog Clutches	"	0 6
103a.	9 1/2"	"	1 6	145.	Circular Strips, 7" diam. over all	"	1 0
103b.	12 1/2"	"	2 0	146.	Plates, 6"	"	1 3
103c.	4 1/2"	"	0 9	*147.	Pawls with pivot bolt and nuts	"	0 3
103d.	3 1/2"	"	0 7	*147a.	Pawls	"	0 2
103e.	3"	"	0 6	*147b.	Pivot Bolt with 2 nuts	"	0 2
103f.	2 1/2"	"	0 5	148.	Ratchet Wheels	"	0 9
103g.	2"	"	0 4	149.	Collecting Shoes, for Electric Locomotives	"	1 6
103h.	1 1/2"	"	0 3	150.	Crane Grabs	"	0 6
103k.	7 1/2"	"	1 3	151.	Pulley Blocks, single sheave	"	0 6
*104.	Shuttles, for looms	each	4 0	152.	" two	"	0 9
105.	Reed Hooks, for looms	"	0 4	153.	" three	"	1 0
106.	Wood Rollers	"	1 3	154.	Corner Angle Brackets, 1/2"	1 doz.	0 6
106a.	Sand Rollers	"	1 6	156.	Pointers, 2 1/2" overall, with boss	each	0 3
107.	Tables for Designing Machines	"	1 0	157.	Fans, 2" diam.	"	0 3
108.	Architraves	"	0 2				
109.	Face Plates, 2 1/2" diam.	"	0 4				

IMPORTANT.—Meccano Accessory Parts will be supplied in colours unless customers ask specially for nickel-plated parts.

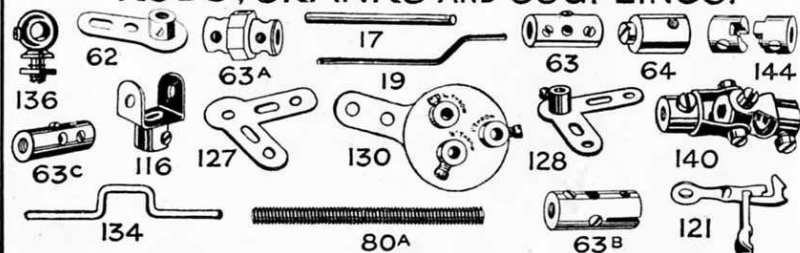
*These parts are available with nickel finish only

As new parts are frequently added to the Meccano system the foregoing list is not necessarily complete. The latest illustrated list should be obtained from your dealer, or from Meccano Ltd., Liverpool.

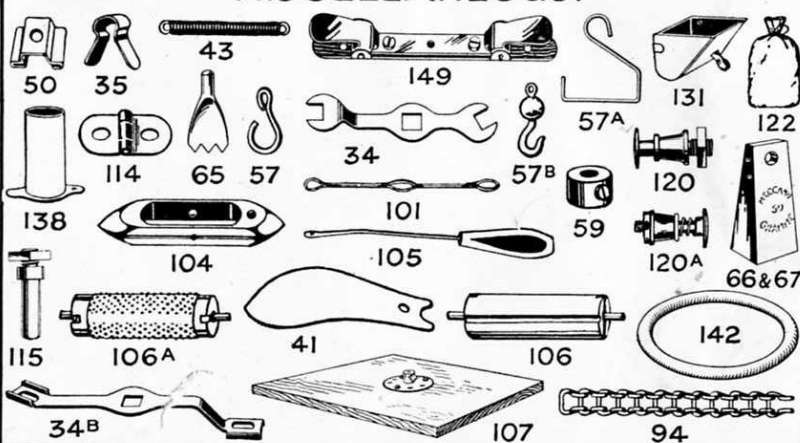
PLATES.



RODS, CRANKS AND COUPLINGS.

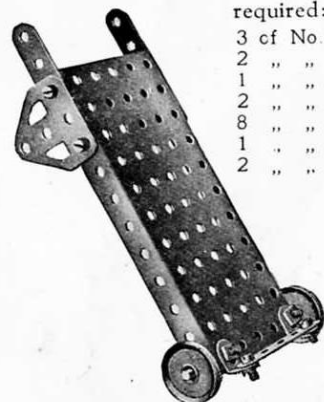


MISCELLANEOUS.



These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

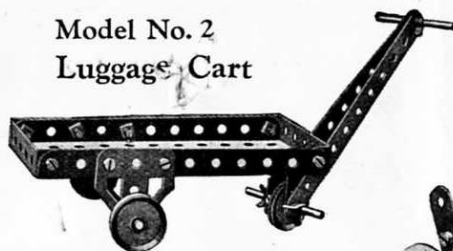
Model No. 1 Flat Truck



Parts
required:

3 of No.	5
2 " "	12
1 " "	16
2 " "	22
8 " "	37
1 " "	52
2 " "	126A

**Model No. 2
Luggage Cart**



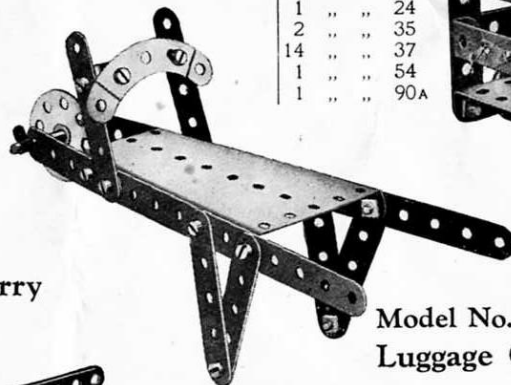
Parts required:

2 of No.	2	2 of No.	37A
1 " "	16	1 " "	44
2 " "	17	2 " "	48A
3 " "	22	1 " "	52
4 " "	35	1 " "	111c
8 " "	37	2 " "	126A

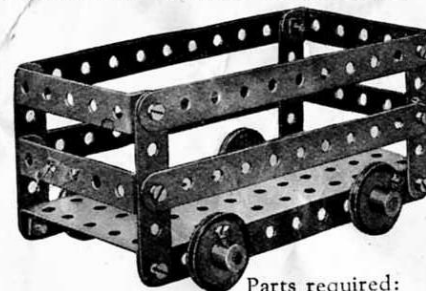
**Model No. 3
Wheel Barrow**

Parts required:

2 of No.	2	2 of No.	12
8 " "	5	1 " "	17
		1 " "	24
		2 " "	35
		14 " "	37
		1 " "	54
		1 " "	90A



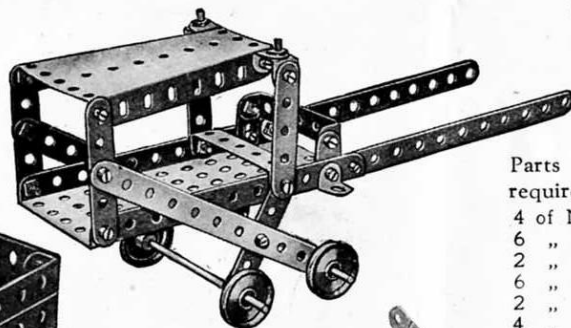
Model No. 4 Truck with Sides



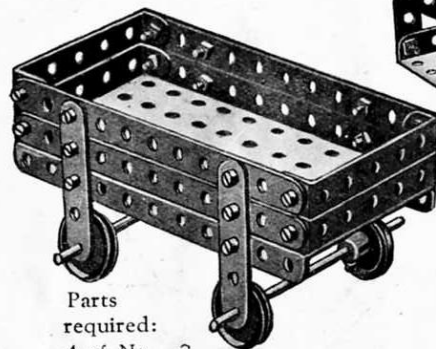
Parts required:

4 of No.	2	4 of No.	22
4 " "	5	12 " "	37
2 " "	16	4 " "	48A
		1 of No.	52

Model No. 5 Ticca Gharry



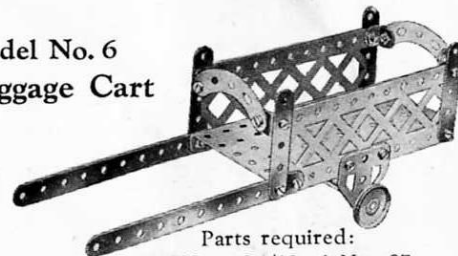
**Model No. 7
Truck**



Parts
required:

4 of No.	2
4 " "	5
2 " "	16
4 " "	22
20 " "	37
4 " "	48A
1 " "	52

**Model No. 6
Luggage Cart**



Parts required:

2 of No.	2	18 of No.	37
4 " "	5	1 " "	52
4 " "	12	2 " "	90A
1 " "	16	2 " "	100
2 " "	22	2 " "	126A

**Model No. 8
Pen Rack**



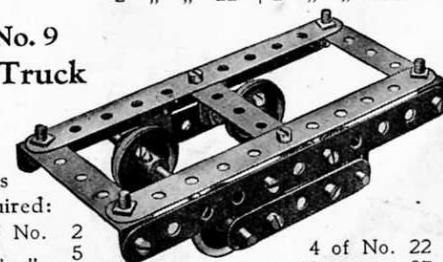
Parts
required:

4 of No.	2
6 " "	5
2 " "	10
6 " "	12
2 " "	16
4 " "	22
22 " "	37
2 " "	48A
1 " "	52
1 " "	54

Parts
required:

2 of No.	5
8 " "	37
2 " "	48A
1 " "	52
4 " "	90A

**Model No. 9
Bogie Truck**



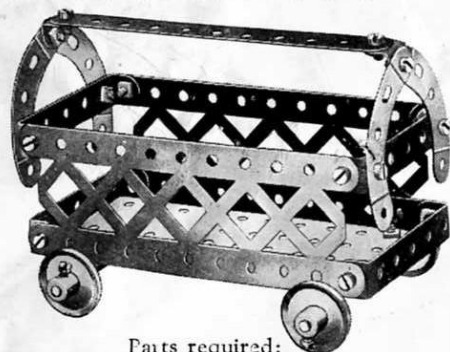
Parts
required:

4 of No.	2
3 " "	5
4 " "	10
2 " "	16

4 of No.	22
18 " "	37
2 " "	48A

These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

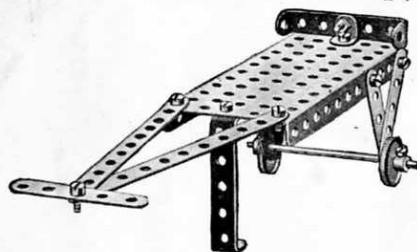
Model No. 10 Covered Truck



Parts required:

1 of No. 2	4 of No. 22	1 of No. 52
6 " " 12	" " 37	4 " " 90A
2 " " 16	4 " " 48A	2 " " 100

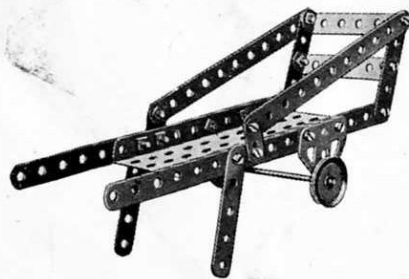
Model No. 13 Shipyard Bogie



Parts required:

2 of No. 2	5 " " 5
1 " " 12	1 " " 16
2 " " 22	10 " " 37
2 " " 48A	1 " " 52

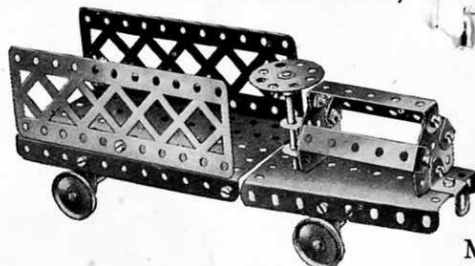
Model No. 16 Coster's Barrow



Parts required:

4 of No. 2	4 " " 5
1 " " 16	2 " " 22
16 " " 37	2 " " 48A
1 " " 52	2 " " 126A

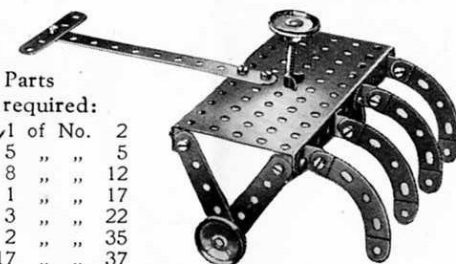
Model No. 11 Motor Lorry



Parts required:

2 of No. 16	4 of No. 48A
1 " " 17	1 " " 52
2 of No. 5	4 " " 22
4 " " 10	1 " " 24
1 " " 11	1 " " 35
2 " " 12	23 " " 37
	2 " " 126A

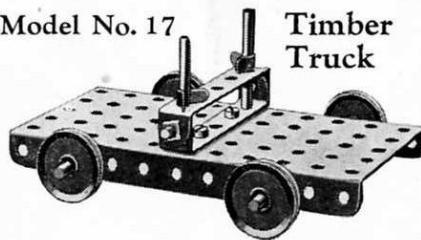
Model No. 14 Horse Rake



Parts required:

1 of No. 2	5 " " 5
5 " " 12	8 " " 17
1 " " 22	3 " " 35
2 " " 37	4 " " 90A
17 " " 111c	

Model No. 17 Timber Truck



Parts required:

2 of No. 16	2 " " 17
4 " " 22	4 " " 35
4 " " 37	2 " " 48A
1 " " 52	

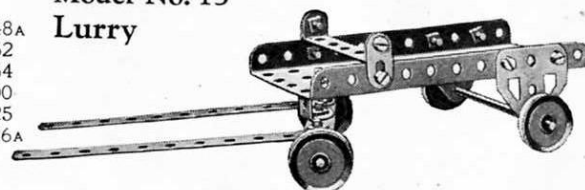
Model No. 12 Timber Drag



Parts required:

4 of No. 2	2 of No. 16	8 of No. 37
2 " " 11	4 " " 22	4 " " 48A

Model No. 15 Lorry



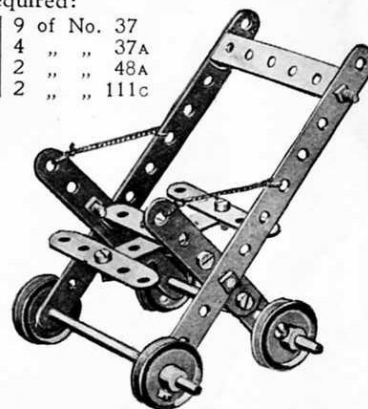
Parts required:

2 of No. 2	2 of No. 16	2 of No. 48A
2 " " 10	4 " " 22	1 " " 52
1 " " 11	12 " " 37	2 " " 126A

Model No. 18 Go Chair

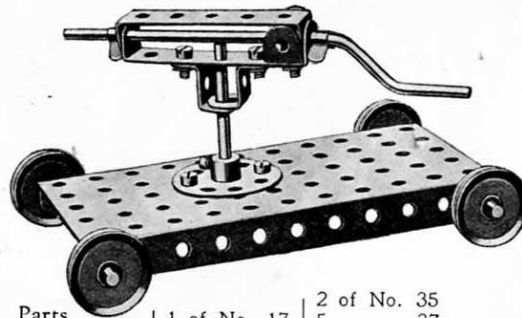
Parts required:

2 of No. 2	9 of No. 37
7 " " 5	4 " " 37A
2 " " 16	2 " " 48A
4 " " 22	2 " " 111c



These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

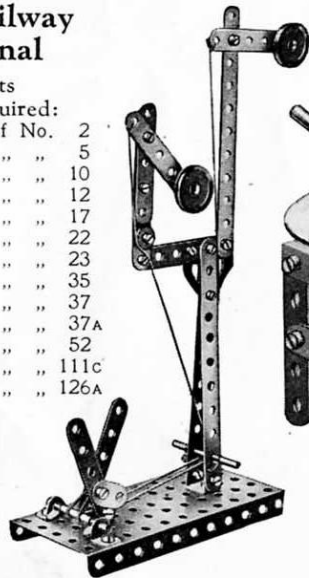
Model No. 19 Rock Drill



Parts required:		1 of No. 17	2 of No. 35
1 of No. 11	4	" " 19	" " 37
2 " " 16	1	" " 22	" " 48A
		" " 24	" " 52
			" " 125

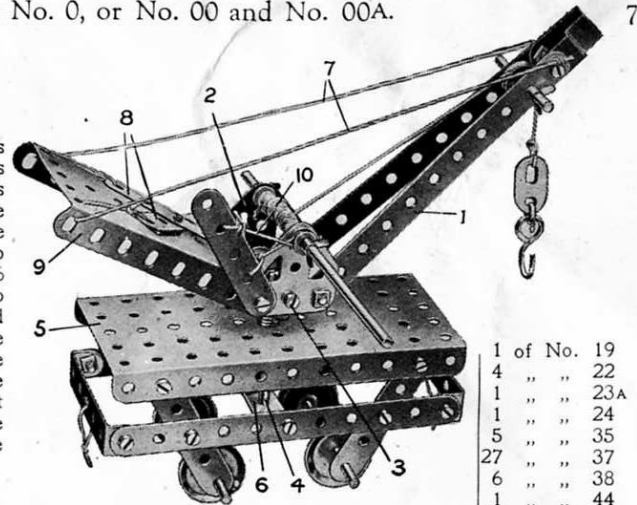
Model No. 21 Railway Signal

Parts required:	
3 of No. 2	7 " " 5
2 " " 10	6 " " 12
2 " " 17	2 " " 22
1 " " 23	4 " " 35
14 " " 37	6 " " 37A
1 " " 52	6 " " 111c
1 " " 126A	



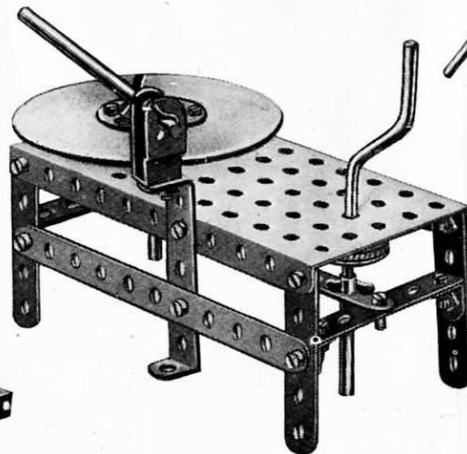
Model No. 20 Travelling Crane

The jib 1 is pivoted to the flat trunnions 2, which are bolted at 3 to angle brackets secured to a bush wheel. The latter is nipped to a 2" rod 4 passing through the plate 5 and further supported in a double angle strip 6. A washer and spring clip mounted on the rod 4 below the strip 6 secure the crane to the carriage. The jib is supported by means of cords 7 tied to 2 1/2" strips 8, the holes of which engage the shank of a bolt passed through the sector plate 9, and its elevation may be altered by inserting this bolt in different holes in the strips 8. The cord 10 of the brake lever is wound once round the crank handle, between two washers.



Parts required:	
1 of No. 19	4 " " 22
1 " " 23A	1 " " 24
5 " " 35	27 " " 37
6 " " 38	1 " " 44
3 " " 48A	1 " " 52
1 " " 54	1 " " 57
2 " " 126A	

Model No. 22 Potter's Wheel



Parts required:	
2 of No. 2	1 of No. 24
4 " " 5	2 " " 35
1 " " 16	17 " " 37
1 " " 19	1 " " 44
2 " " 22	3 " " 48A
1 of No. 52	

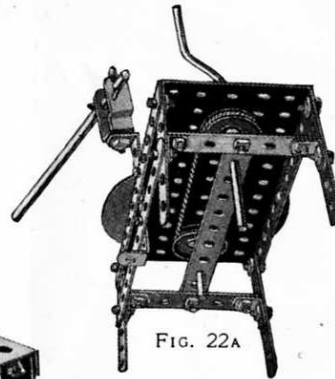
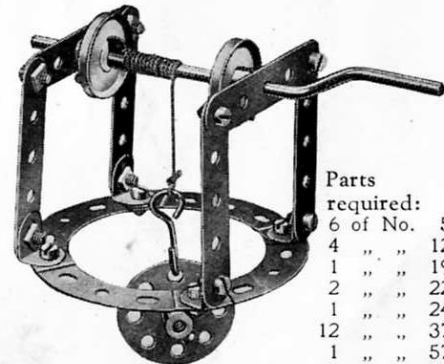


FIG. 22A

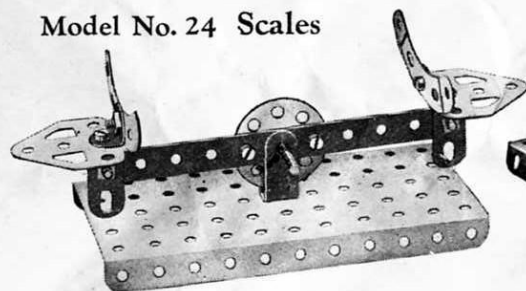
Model No. 23 Well Windlass



Parts required:	
6 of No. 5	4 " " 12
1 " " 19	2 " " 22
1 " " 24	12 " " 37
1 " " 57	4 " " 90

These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

Model No. 24 Scales



Parts required:

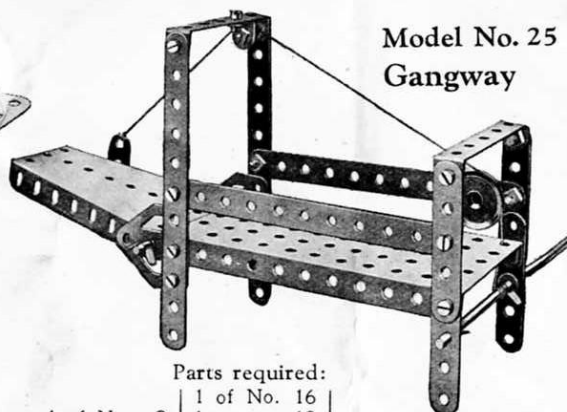
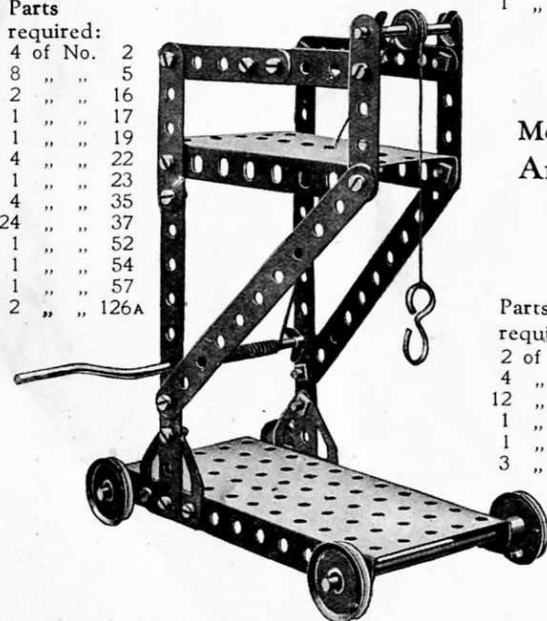
1 of No. 2	1 of No. 17	1 of No. 52
2 " " 10	1 " " 24	2 " " 90A
2 " " 12	9 " " 37	2 " " 126A
	1 " " 44	

Model No. 27 Tower Wagon

Parts

required:

4 of No. 2	8 " " 5
2 " " 16	2 " " 17
1 " " 19	1 " " 22
4 " " 23	1 " " 35
4 " " 37	24 " " 52
1 " " 54	1 " " 57
2 " " 126A	



**Model No. 25
Gangway**

Parts required:

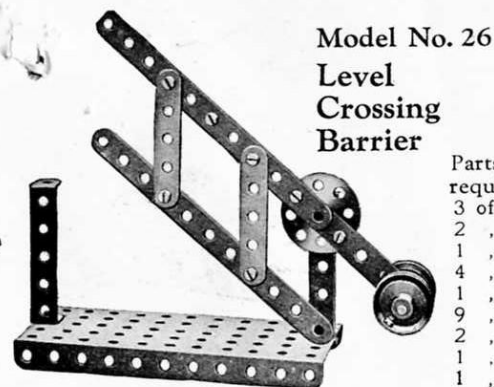
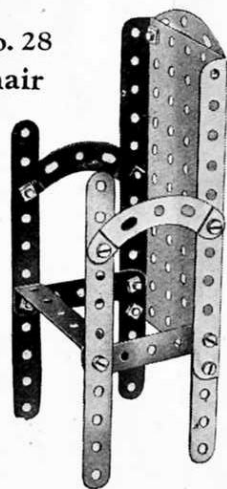
4 of No. 2	1 of No. 16	
4 " " 5	1 " " 19	
1 " " 10	1 " " 22	2 of No. 48A
1 " " 12	4 " " 35	1 " " 52
	18 " " 37	1 " " 54
		2 " " 126A

**Model No. 28
Arm Chair**

Parts

required:

2 of No. 2	4 " " 5
12 " " 37	1 " " 48A
1 " " 52	3 " " 90A



**Model No. 26
Level
Crossing
Barrier**

Parts

required:

3 of No. 2	2
2 " " 5	5
1 " " 17	17
4 " " 22	22
1 " " 24	24
9 " " 37	37
2 " " 48A	48A
1 " " 52	52
1 " " 111c	111c

**Model No. 29
Hoisting Block**

Parts

required:

4 of No. 2	6 " " 5
6 " " 12	6 " " 17
1 " " 22	1 " " 23
2 " " 35	25 " " 37
3 " " 38	2 " " 48A
2 " " 52	1 " " 57

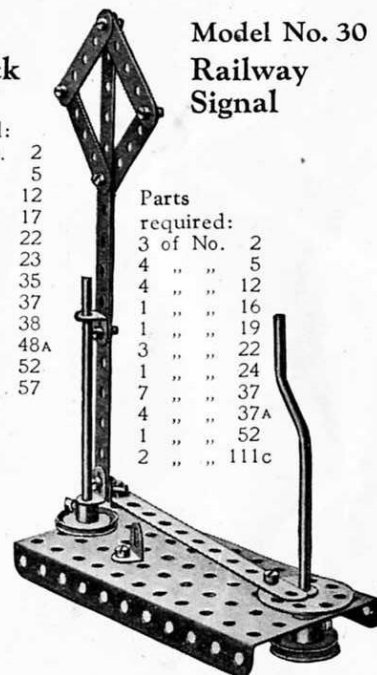


**Model No. 30
Railway
Signal**

Parts

required:

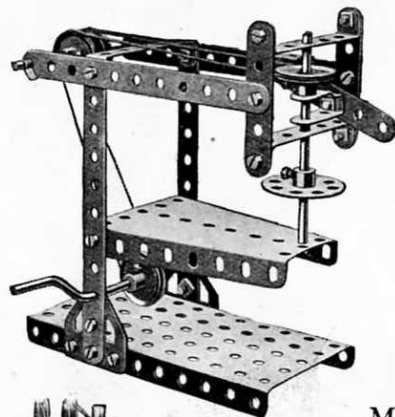
3 of No. 2	4 " " 5
4 " " 12	4 " " 16
1 " " 19	1 " " 22
3 " " 24	1 " " 37
7 " " 37A	4 " " 52
1 " " 52	2 " " 111c



These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

9

Model No. 31 Drilling Machine

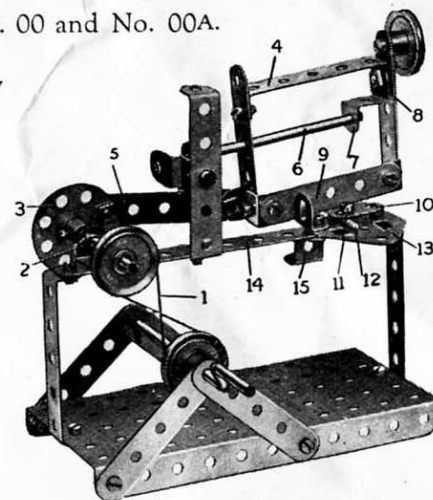


Parts required:

4 of No.	2
3 " "	5
1 " "	11
2 " "	16
1 " "	19
4 " "	22
1 " "	24
4 " "	35
19 " "	37
1 " "	44
3 " "	48A
1 " "	52
1 " "	54
2 " "	126A

Model No. 32 Mechanical Saw

The strip 9 represents the saw. The crank handle drives through a belt 1 a short rod journalled in a double bracket 2 and carrying a bush wheel 3. The latter imparts a reciprocating motion to the saw frame 4 through a 2 1/2" strip 5 loosely mounted on belts secured to the bush wheel and to an angle bracket bolted to the saw frame. This frame slides on a 3 1/2" rod 6, which acts as a guide, passing through the frame and supported in a reversed angle bracket 7. A washer is placed on the bolt 8 behind the bracket 7. A vice to secure the objects in position for cutting consists of a flat bracket 10 mounted on a bolt 11, a few turns of which causes the flat bracket to grip the object 12. The bolt 11 enters a nut held between the flat trunnion 13 and 5 1/2" strip 14, which are spaced apart for the purpose by washers placed on the two bolts holding the trunnion in position. The saw frame rests on the stop 15 when not in use. A 1" pulley secured to the top of the frame acts as a weight and helps to steady the saw.



Model No. 34 Swing

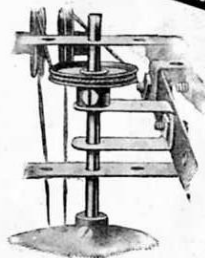
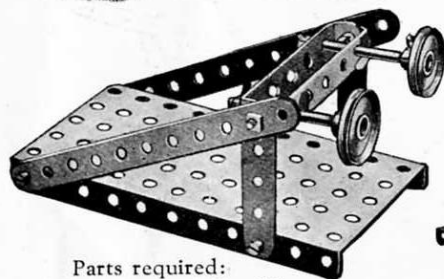


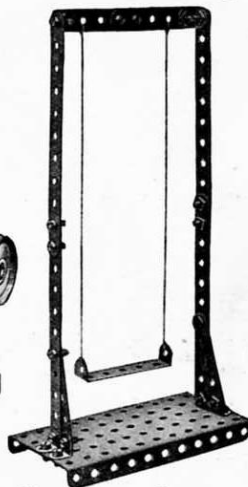
FIG. 31A
(Detail of
Drilling
Machine)

Model No. 33 Buffers



Parts required:

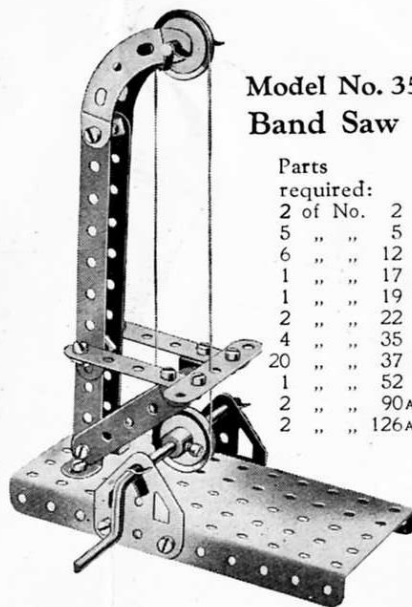
2 of No.	2	2 of No.	35
2 " "	5	6 " "	37
2 " "	17	2 " "	48A
2 " "	22	1 " "	52



Parts required:

4 of No.	2	20 of No.	37
4 " "	5	1 " "	48A
6 " "	12	1 " "	52

Model No. 35 Band Saw



Parts required:

2 of No.	2
5 " "	5
6 " "	12
1 " "	17
1 " "	19
2 " "	22
4 " "	35
20 " "	37
1 " "	52
2 " "	90A
2 " "	126A

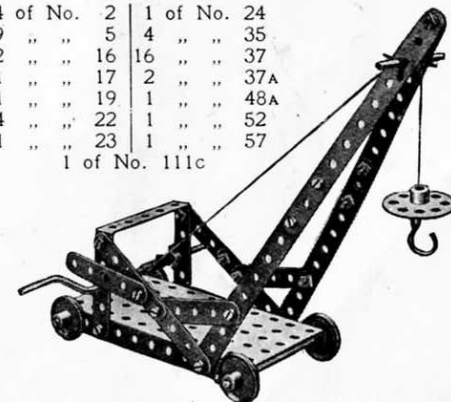
Parts required:

1 of No.	2	1 of No.	17	4 of No.	38
8 " "	5	1 " "	19	1 " "	44
1 " "	10	3 " "	22	4 " "	48A
1 " "	11	1 " "	24	1 " "	52
4 " "	12	3 " "	35	2 " "	125
1 " "	16	22 " "	37	1 " "	126A

Model No. 36 Jib Crane

Parts required:

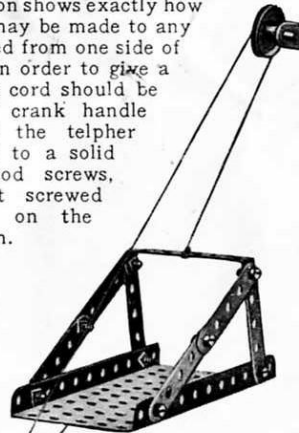
4 of No.	2	1 of No.	24
9 " "	5	4 " "	35
2 " "	16	16 " "	37
1 " "	17	2 " "	37A
1 " "	19	1 " "	48A
4 " "	22	1 " "	52
1 " "	23	1 " "	57
1 of No. 111c			



These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

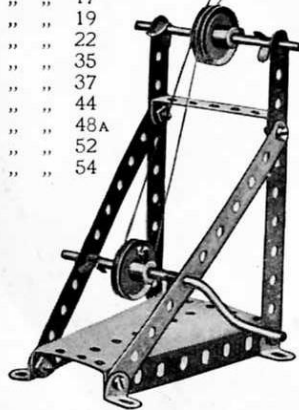
Model No. 37 Telfer Span

Many hours of enjoyment may be obtained from this model. The illustration shows exactly how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank handle pulley. The body of the telfer should be screwed down to a solid base with ordinary wood screws, and the pulley bracket screwed in a suitable position on the opposite side of the room.



Parts
required:

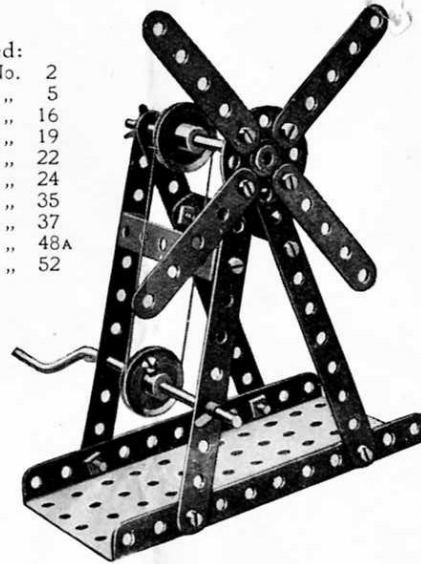
4 of No.	2
6 " "	5
4 " "	12
1 " "	16
1 " "	17
1 " "	19
4 " "	22
4 " "	35
14 " "	37
1 " "	44
2 " "	48A
1 " "	52
1 " "	54



Model No. 38 Windmill

Parts
required:

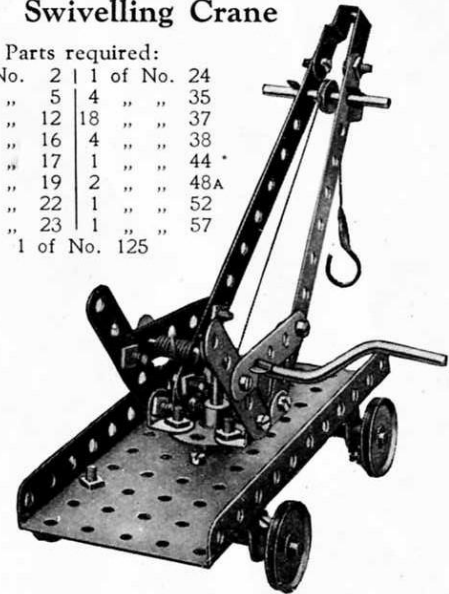
4 of No.	2
4 " "	5
1 " "	16
1 " "	19
2 " "	22
1 " "	24
4 " "	35
12 " "	37
2 " "	48A
1 " "	52



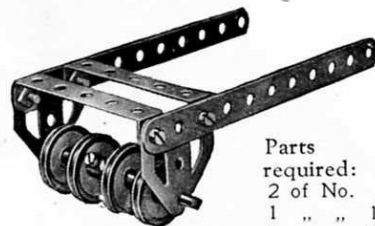
Model No. 39 Swivelling Crane

Parts required:

2 of No.	2	1 of No.	24
4 " "	5	4 " "	35
4 " "	12	18 " "	37
2 " "	16	4 " "	38
2 " "	17	1 " "	44
1 " "	19	2 " "	48A
4 " "	22	1 " "	52
1 " "	23	1 " "	57
1 of No. 125			



Model No. 40 Furrow Roller



Parts
required:

2 of No.	2
1 " "	16
4 " "	22
4 " "	37
2 " "	48A
2 " "	126A

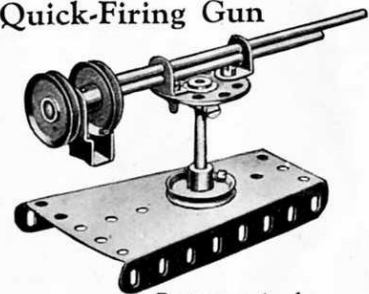
Model No. 41 Lawn Mower



Parts required:

4 of No.	2	1 of No.	17
7 " "	5	4 " "	22
2 " "	11	19 " "	37
2 " "	16	1 " "	44
3 of No. 48A			

Model No. 42 Quick-Firing Gun



Parts required:

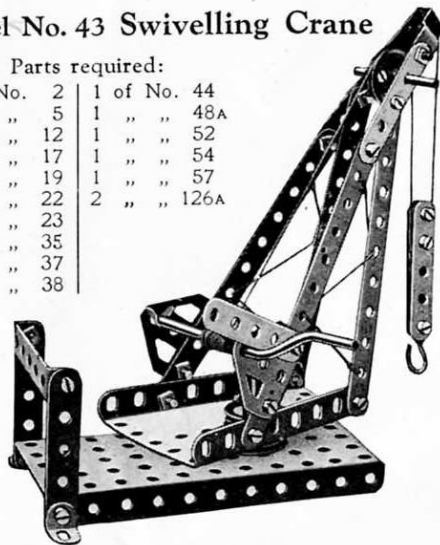
2 of No.	12	1 of No.	24
2 " "	16	4 " "	37
1 " "	17	1 " "	44
2 " "	22	1 " "	54

These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

Model No. 43 Swivelling Crane

Parts required:

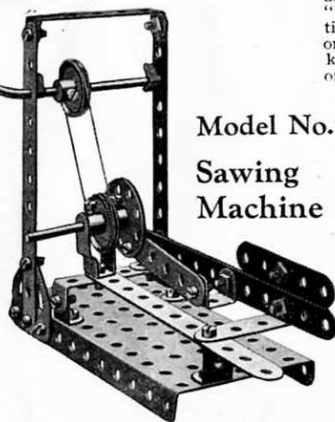
4 of No. 2	1 of No. 44
7 " " 5	1 " " 48A
2 " " 12	1 " " 52
2 " " 17	1 " " 54
1 " " 19	1 " " 57
4 " " 22	2 " " 126A
1 " " 23	
2 " " 35	
21 " " 37	
3 " " 38	



The sector plate of the Crane in this model is pivoted to the base with a fast pulley above and below.

Parts required:

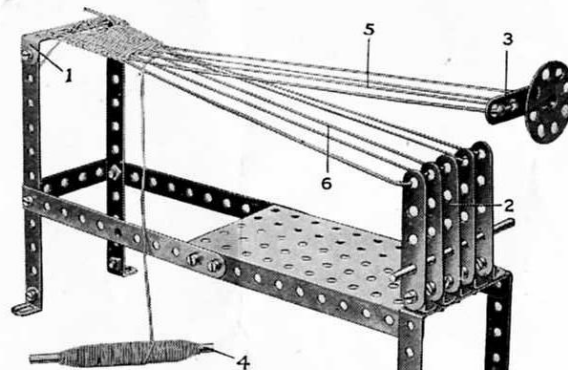
4 of No. 2	
3 " " 5	
1 " " 10	
2 " " 11	
4 " " 12	
1 " " 17	
1 " " 19	
2 " " 22	
1 " " 24	
2 " " 35	
23 " " 37	
1 " " 44	
2 " " 48A	
1 " " 52	
2 " " 126A	



Model No. 46

Sawing Machine

Model No. 44 Hand Loom



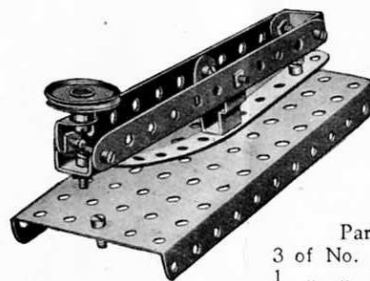
Parts required:

4 of No. 2	1 of No. 24
6 " " 5	21 " " 37
7 " " 12	4 " " 48A
2 " " 16	1 " " 52

The warp threads are tied at one end to a double angle strip 1, whilst their other ends are secured alternately to the tops of the upright strips 2, and the $2\frac{1}{2}$ " strip 3. The "shedding" movement of the warp is obtained by moving the strip 3 up or down each time the shuttle—a $3\frac{1}{2}$ " rod 4—is passed between the two layers of warp 5 and 6. Wool or similar material is particularly suited to this apparatus. The strands 6 should be kept very taut, and the weft threads may be closed up with the woven portion by means of an ordinary comb each time the shuttle passes.

Model No. 47

Telegraph Key



Parts required:

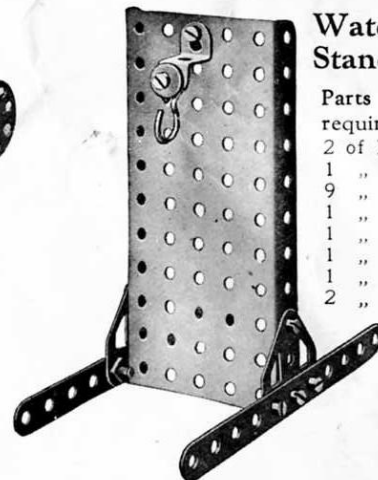
3 of No. 2	1 of No. 22
1 " " 10	11 " " 37
2 " " 11	1 " " 44
1 " " 12	1 " " 52

Model No. 45

Watch Stand

Parts required:

2 of No. 2	
1 " " 23	
9 " " 37	
1 " " 52	
1 " " 57	
1 " " 111c	
1 " " 125	
2 " " 126A	



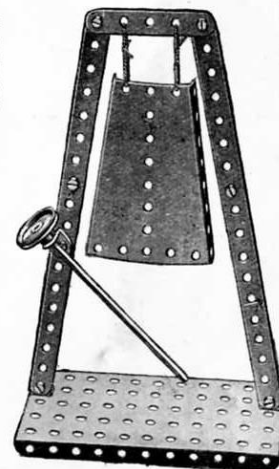
Model No. 48

Gong

Parts

required:

4 of No. 2	
1 " " 5	
3 " " 12	
1 " " 16	
1 " " 22	
9 " " 37	
1 " " 52	
1 " " 54	

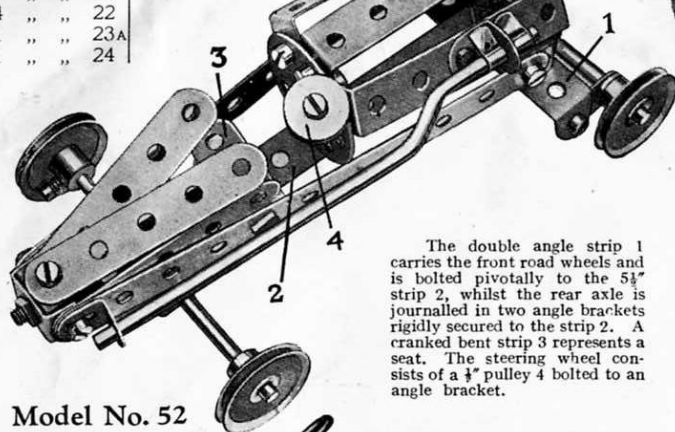


These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

Model No. 49 Racing Motor Car

Parts required:

3 of No. 2	4 of No. 35
4 " " 5	25 " " 37
4 " " 10	3 " " 38
2 " " 11	1 " " 44
8 " " 12	4 " " 48A
2 " " 16	1 " " 126A
1 " " 19	
4 " " 22	
1 " " 23A	
1 " " 24	



The double angle strip 1 carries the front road wheels and is bolted pivotally to the 5 1/2" strip 2, whilst the rear axle is journaled in two angle brackets rigidly secured to the strip 2. A cranked bent strip 3 represents a seat. The steering wheel consists of a 1/4" pulley 4 bolted to an angle bracket.

Model No. 52 Anchor

Parts required:

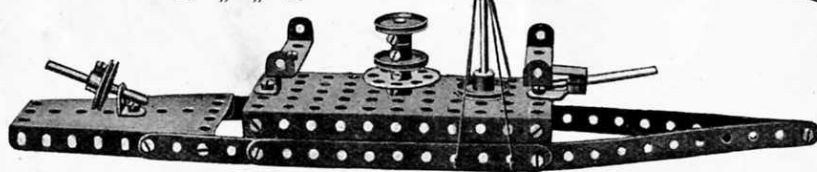
2 of No. 2
3 " " 5
4 " " 10
4 " " 12
11 " " 37
1 " " 57



Model No. 53 Battleship

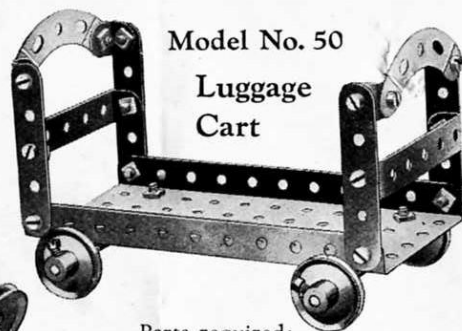
Parts required:

4 of No. 2	2 of No. 17	1 of No. 44
3 " " 5	4 " " 22	2 " " 48A
4 " " 10	1 " " 23	1 " " 52
1 " " 12	1 " " 24	1 " " 54
1 " " 16	3 " " 35	1 " " 125
	19 " " 37	



Model No. 50

Luggage Cart



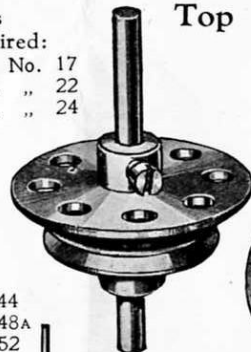
Parts required:

4 of No. 5	20 of No. 37
4 " " 12	2 " " 48A
2 " " 16	1 " " 52
4 " " 22	2 " " 90A

Model No. 54 Spinning Top

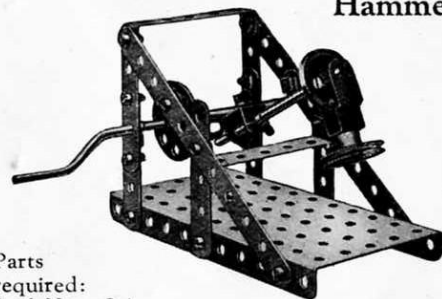
Parts required:

1 of No. 17
1 " " 22
1 " " 24



Model No. 51 Mechanical

Hammer



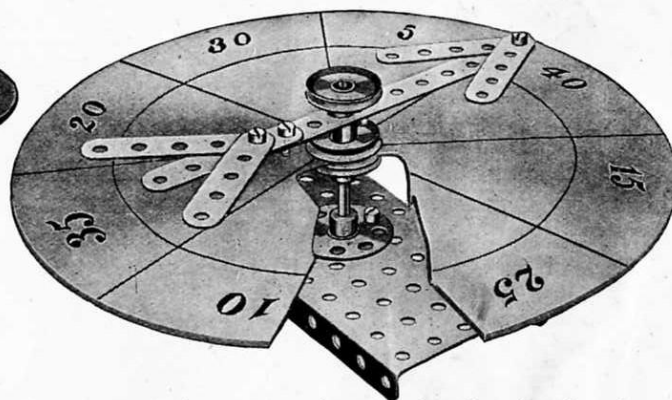
Parts required:

2 of No. 2	1 of No. 19	18 of No. 37
6 " " 5	2 " " 22	1 " " 44
1 " " 11	1 " " 24	3 " " 48A
1 " " 12	4 " " 35	1 " " 52
1 " " 16		

Model No. 55 Roulette Wheel

Parts required:

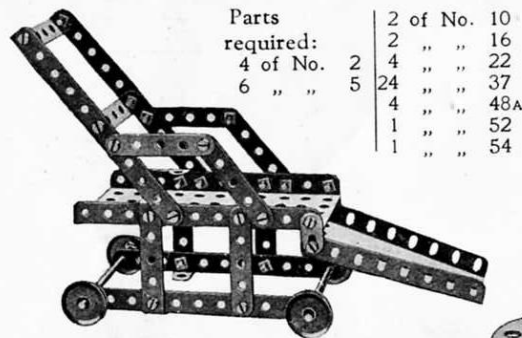
5 of No. 5	1 of No. 24
1 " " 16	5 " " 37
1 of No. 2	3 " " 22
	1 " " 52



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.

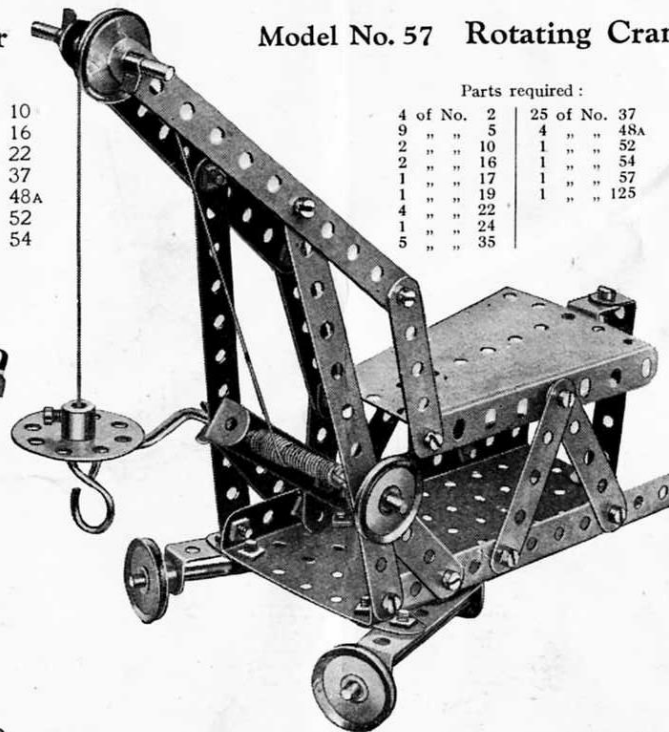
These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

Model No. 56 Invalid Chair



Parts required:	2 of No.	10
4 of No.	2	16
6 " "	4	22
	24	37
	4	48A
	1	52
	1	54

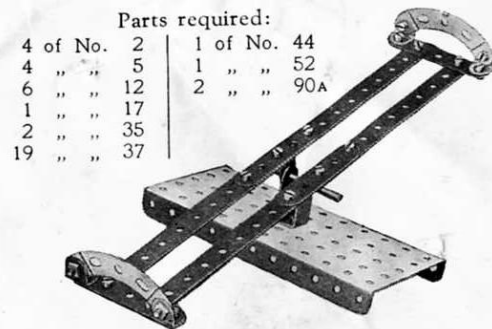
Model No. 57 Rotating Crane



Parts required:

4 of No.	2	25 of No.	37
9 " "	5	4 " "	48A
2 " "	10	1 " "	52
2 " "	16	1 " "	54
1 " "	17	1 " "	57
1 " "	19	1 " "	125
4 " "	22		
1 " "	24		
5 " "	35		

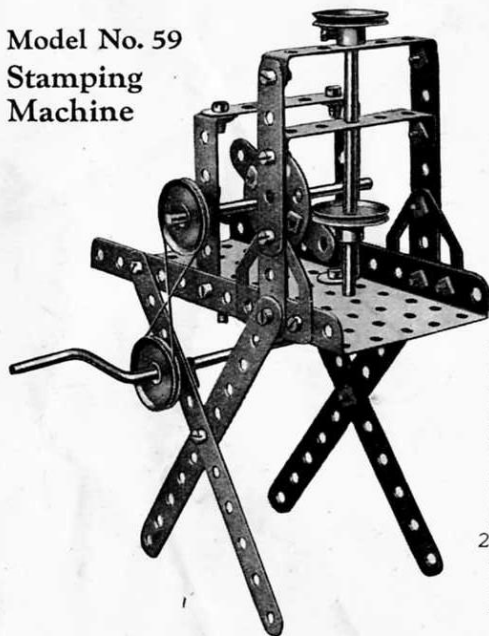
Model No. 58 See-saw



Parts required:

4 of No.	2	1 of No.	44
4 " "	5	1 " "	52
6 " "	12	2 " "	90A
1 " "	17		
2 " "	35		
19 " "	37		

Model No. 59
Stamping
Machine

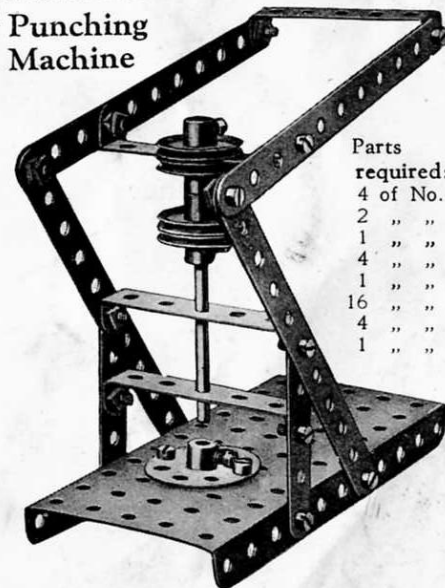


Parts required:

4 of No.	2
4 " "	5
2 " "	10
2 " "	16
1 " "	19
4 " "	22
1 " "	24
2 " "	35
22 " "	37
4 " "	48A
1 " "	52
2 " "	126A

The running wheels of this crane are journaled in double angle strips bolted to the base plate and secured at an angle by means of flat brackets. The rear of the base plate is supported on a double bracket. The jib is bolted loosely to the supporting $5\frac{1}{2}$ " strips and is connected by $2\frac{1}{2}$ " strips to the sector plate which pivots about its supporting bolts. By moving this sector plate the elevation of the jib may be altered as desired. The movement is controlled by a double angle strip mounted on the crank handle and connected pivotally to the plate by means of a $2\frac{1}{2}$ " strip. A reversed angle bracket bolted to an upright double angle strip in the rear of the model serves to restrict the movement of the sector plate.

Model No. 60
Punching
Machine

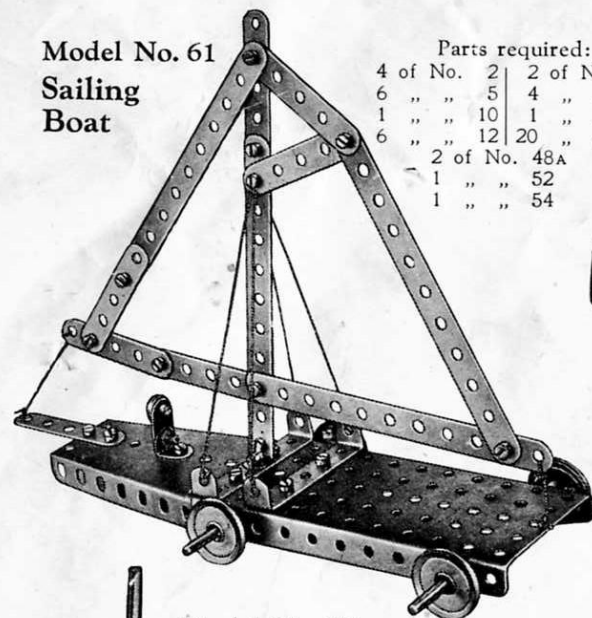


Parts required:

4 of No.	2
2 " "	5
1 " "	16
4 " "	22
1 " "	24
16 " "	37
4 " "	48A
1 " "	52

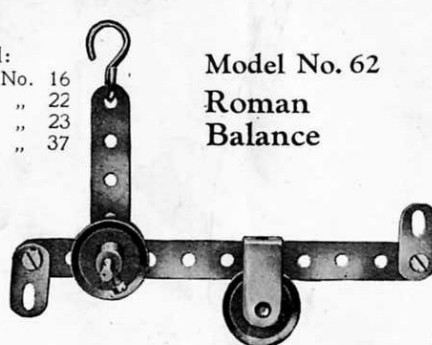
These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

Model No. 61
Sailing
Boat



Parts required:
 4 of No. 2 | 2 of No. 16
 6 " " 5 | 4 " " 22
 1 " " 10 | 1 " " 23
 6 " " 12 | 20 " " 37
 2 of No. 48A
 1 " " 52
 1 " " 54

Model No. 62
Roman
Balance



Parts required:
 1 of No. 2 | 3 of No. 22
 2 " " 5 | 2 " " 37
 2 " " 10 | 1 " " 44
 1 " " 17 | 1 " " 57
 1 of No. 111c

Model No. 63
Vegetable
Chopper

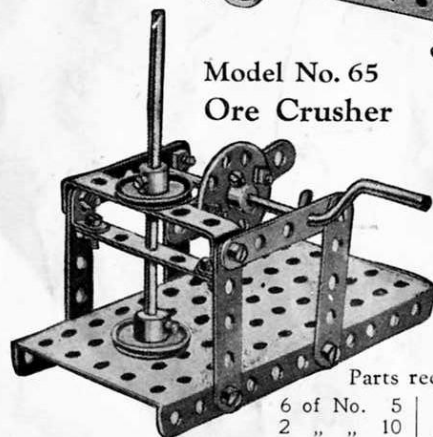
Parts required:
 4 of No. 2
 4 " " 5
 18 " " 37
 4 " " 48A



Model No. 64
Mail-Bag
Hanger

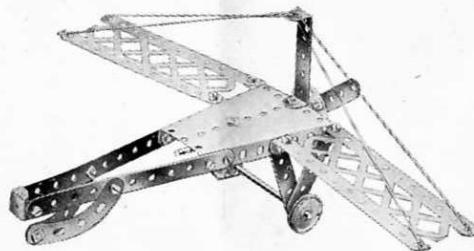
Parts required:
 4 of No. 2
 4 " " 12
 10 " " 37
 1 " " 48A
 1 " " 52
 1 " " 57

Model No. 65
Ore Crusher



Parts required:
 6 of No. 5 | 1 of No. 24
 2 " " 10 | 2 " " 35
 1 " " 16 | 12 " " 37
 1 " " 19 | 2 " " 48A
 2 " " 22 | 1 " " 52

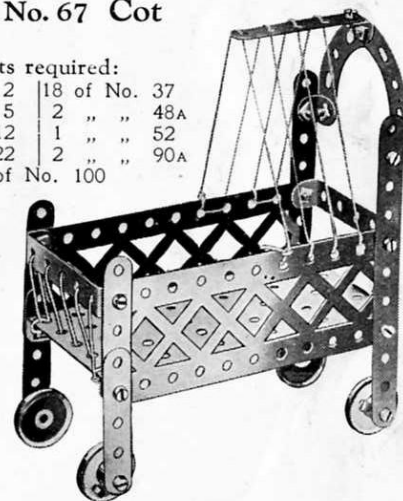
Model No. 66 **Aeroplane**



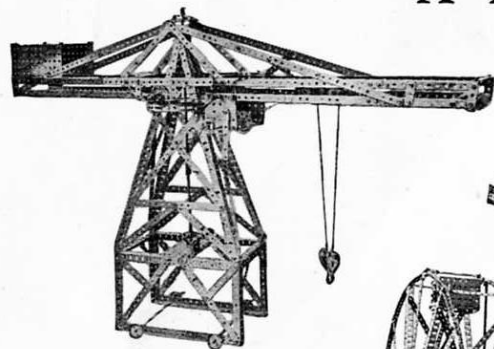
Parts required:
 2 of No. 2 | 2 of No. 16 | 1 of No. 48A
 5 " " 5 | 2 " " 22 | 1 " " 54
 1 " " 11 | 1 " " 24 | 2 " " 90A
 6 " " 12 | 21 " " 37 | 2 " " 100

Model No. 67 **Cot**

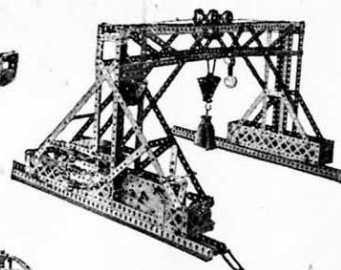
Parts required:
 2 of No. 2 | 18 of No. 37
 5 " " 5 | 2 " " 48A
 3 " " 12 | 1 " " 52
 4 " " 22 | 2 " " 90A
 2 of No. 100



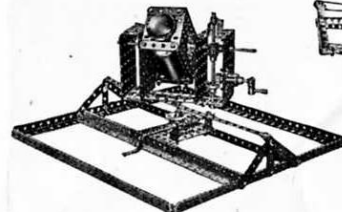
A FEW CHOICE MECCANO MODELS



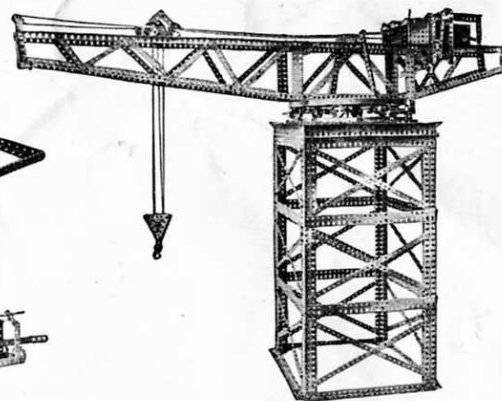
Radial Crane



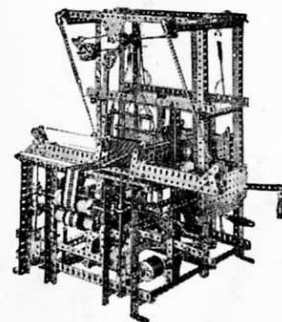
Travelling Gantry Crane



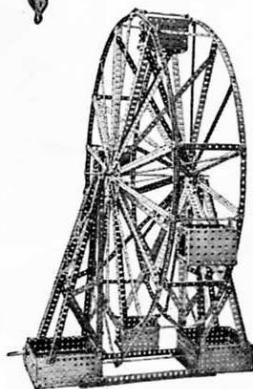
Searchlight



Hammer-Head Crane

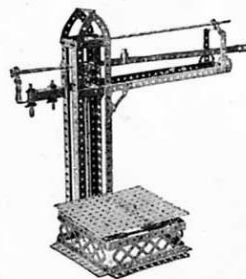


Loom

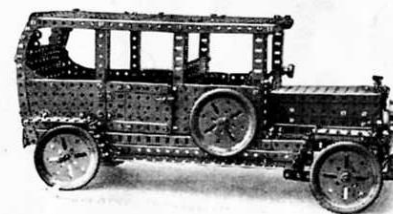


Big Wheel

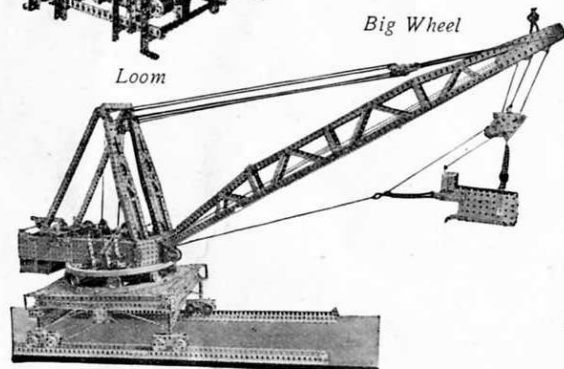
Here is a selection of splendid Meccano models that any boy may build without study. Full instructions for building most of those illustrated (as well as many other fine models) are contained in the Complete Meccano Manual of Instructions.



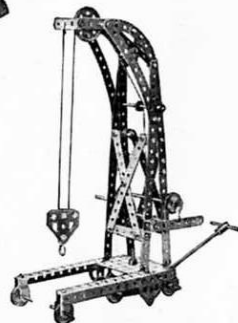
Platform Scales



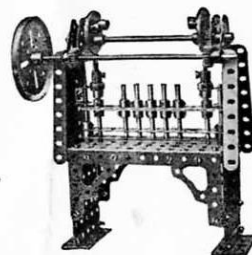
Meccano Limousine



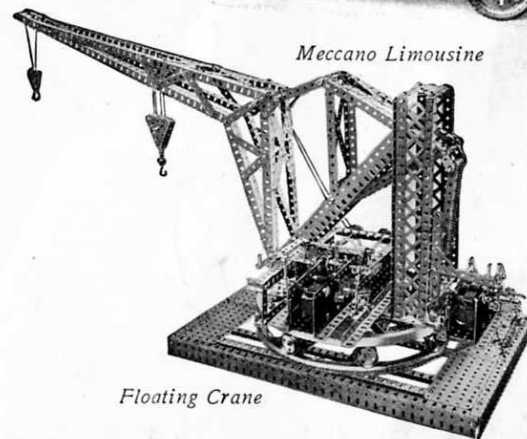
Dragline



Platform Crane



Punching Press



Floating Crane

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.



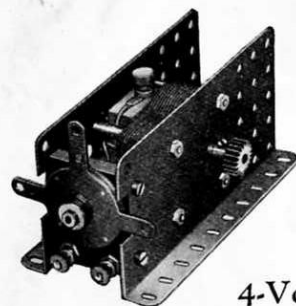
Electrical Outfit

The application of electricity to the Meccano system adds a further and wonderful charm, and the joys of model-building are now increased by the fascinating pastime of carrying out delightful electrical experiments.

The Meccano Electrical Outfit contains a number of specially designed electrical parts which may be used in conjunction with any of the regular Outfits.

MECCANO MOTORS

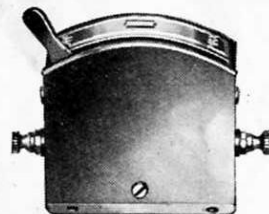
Electric Motor No. 1 (4 volt)



The 4-volt Motor is specially designed to build into Meccano models. It may be run from a 4-volt Accumulator, or, by employing a suitable transformer, direct from the main. It is fitted with reversing motion, provided with stopping and starting controls, and the gearing is interchangeable.

4-Volt Accumulators

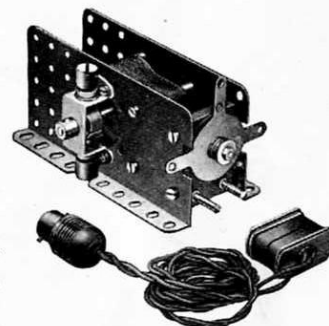
These new and excellent types of Accumulators have been adapted to drive the Electric Motor No. 1. They have been subjected to the severest tests and have proved themselves to be the most suitable accumulators for use with any type of electric motor. They are non-spillable, have remarkable recuperative powers, and will continue to supply current when nominally exhausted.



Resistance Controller

By employing this variable resistance the speed of the Meccano Electric Motor No. 1 (4 volt) may be regulated as desired. The controller is connected in series with the motor and accumulator, or with the motor and transformer if a transformer is used as the source of power. It will not regulate the speed of a high-voltage motor connected to the main.

Electric Motor No. 2 (100-250 Volt AC or DC)



This Electric Motor may be employed for any purpose for which a small motor is suitable, but it is specially adapted for driving Meccano models. The side plates are perforated with standard equidistant holes, thus allowing the motor to be built into any Meccano model. The motor is specially designed for connection with the electric-light main. It is supplied for 100-120 volts or 200-250 volts (alternating or direct), and is fitted with 6 ft. length of flex, an insulated plug for connection with the motor terminals, and an adapter for connection with an ordinary lamp socket.

A suitable resistance is required when the motor is run with a 200-250 volt current, and this is supplied by connecting a 60-watt lamp in series with the motor. A board on which are mounted a suitable lamp-holder (lamp not included) and a switch is provided separately.

Clockwork Motor

How splendid it is, after spending hours in building a model, to be able to set it in motion with a motor, just as do real engineers! The Meccano Clockwork Motor is specially made for this purpose and is a fine piece of mechanism—simple, powerful, and reliable. It is fitted with starting and stopping levers, and has a reversing movement.



For prices of the above see price list at end of Manual.

HORNBY TRAINS

Each Train is a beautiful piece of workmanship with perfect mechanism, ensuring smooth running. A guarantee of efficiency is furnished with each Loco.

A HORNBY TRAIN LASTS FOR EVER!

This Set contains Loco, Tender, two Pullman Coaches and Set of Rails. One of the latter is a brake rail by means of which the train may be braked from the track. Richly coloured and well finished; fitted with brake mechanism; non-reversing. Gauge 0.

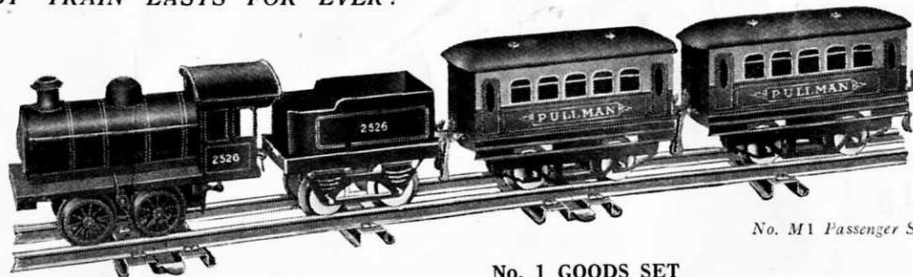
No. M1 Passenger Set complete, packed in strong cardboard box ... Price 7/6

Similar in every way to the above excepting that it has three Pullman Coaches instead of two, and additional rails.

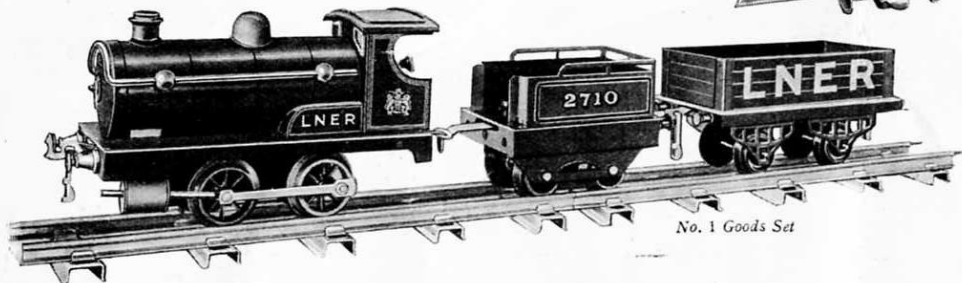
No. M2 Passenger Set complete, packed in strong cardboard box ... Price 9/-

M, No. 1 or 2 Loco	...	Price 3/-	M, No. 1 or 2 Tender	...	"	9d.
--------------------	-----	-----------	----------------------	-----	---	-----

M. No. 1 or 2 Pullman Coach	...	Price 1/-
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No. M1 Passenger Set



No. 1 Goods Set

This Set contains Loco, Tender and Wagon with Set of Rails. The rails form a circle 2 ft. in diameter or an oval 2 ft. 10 ins. in width, and they include one brake rail by means of which the train may be stopped from the track. The Loco is fitted with reversing gear and brake mechanism. Gauge 0.

Hornby No. 1 Goods Set complete, well boxed .. Price **20/-**

Hornby No. 1 Goods Set complete, well boxed 17/10
 " " " " fitted for Hornby Control .. 23/6

No. 1 Hornby Loco	12/6
-------------------	------

[illegible]

"	"	"	littered for Hornby, Centerville	"	"	2/6
Hornby Wagon	"	"	"	"	"	"

Homme, wagon	..	..	..	..	..	..	..
Tender	..	..	..	..	..	..	2/6

These splendid Train Sets are models of the famous express that runs regularly between Calais and the Mediterranean Coast. The Loco is coloured brown with yellow lining and the Coaches are coloured blue with white roofs. Two types are available, one with Clockwork Loco and the other with Electric Loco. Particulars are as follows:—

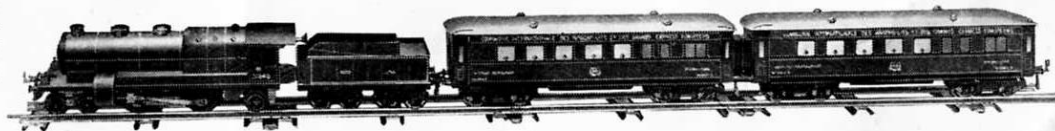
Contains Electric Loco, Tender, two Coaches, Resistance Controller and Electrical Rails to form a circle 4-ft. in diameter. The Loco is fitted with an electric motor which is operated from a 4-volt Accumulator or from a suitable transformer connected to the main (alternating current only). Gauge 0

Riviera "Blue" Train Set No. 1, complete, well boxed ... Price 85/-
 "Blue" Train Loco No. 1 "Blue" Train Tender No. 1

Blue Flamm Loco No. 1 Price 37/6

"Blue" Train Coach No. 1 Resistance Controller " 3/6

Price 16/6



Riviera "Blue" Train Set No. 2

Contains a powerful Clockwork Loco, Tender, two Coaches and Set of Rails including a Hornby Control Rail. The Loco is fitted for Hornby Control and has reversing gear and brake mechanism. Gauge 0.

Riviera "Blue" Train Set No. 2, complete, well boxed ...	...	...	...	...	...	Price 70/-
"Blue" Train Loco. No. 2 ...	Price 27/6	"Blue" Train Tender No. 2 ...	...	...	...	" 4/6

"Blue" Train Loco, No. 2 Price **21/6** Blue Train Tender No. 2 " **2/6**
 "Blue" Train Coach No. 2 Price **16/6**

5. TRAIN ACCESSORIES AND RAILS, POINTS AND CROSSINGS

SORIES AND RAILS, POINTS AND CROSS

SEND FOR COMPLETE LIST OF HORNBY TRAINS, TRAIN ACCESSORIES AND RAILS, POINTS AND CROSSINGS.

MECCANO PRICE LIST

MECCANO OUTFITS

No.	00	Meccano	Outfit	..	..	..	..	..	3/6
"	0	"	"	..	..	..	..	..	5/-
"	1	"	"	..	..	..	..	..	8/6
"	2	"	"	..	..	..	..	..	15/-
"	3	"	"	..	..	..	..	..	22/6
"	4	"	"	..	..	..	..	..	40/-
"	5*	"	" (Carton)	..	..	..	..	..	55/-
"	5*	"	Presentation Outfit	..	..	..	..	..	85/-
"	6*	"	Outfit (Carton)	..	..	..	..	..	105/-
"	6*	"	Presentation Outfit	..	..	..	..	..	140/-
"	7	"	"	..	..	..	..	..	370/-

ACCESSORY OUTFITS

No.	00A	Meccano	Outfit	..	..	..	..	..	1/6
"	0A	"	"	..	..	..	..	..	4/-
"	1A	"	"	..	..	..	..	..	7/6
"	2A	"	"	..	..	..	..	..	8/6
"	3A	"	"	..	..	..	..	..	18/6
"	4A	"	"	..	..	..	..	..	15/-
"	5A*	"	" (Carton)	..	..	..	..	..	50/-
"	5A*	"	" (Wood)	..	..	..	..	..	80/-
"	6A	"	"	..	..	..	..	..	210/-
	Meccano	Clockwork	Motor	..	..	..	..	..	7/6
"		Electric	Motor No. 1 (4 Volt)	..	..	..	..	..	15/6
"		"	" 2 (100-120 or 200-250 Volt)	..	..	..	..	..	32/6
	Lamp	Board (with lamp holder and switch)	..	..	..	..	..	..	4/6
	Resistance	Controller	..	..	..	..	..	..	3/6
	Meccano	Electrical	Outfit X2	..	..	..	..	..	42/-
"		Accumulator (4 Volt, 8 Amps.)	..	..	..	..	..	..	17/6
"		" (" 20 " )	..	..	..	..	..	..	25/-

* 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.

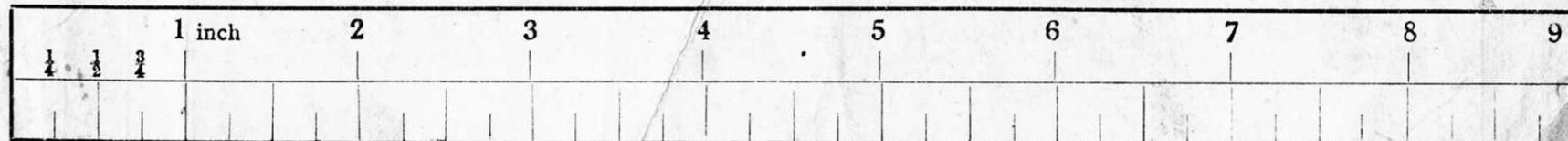
Meccano is sold in nine different Outfits, numbered 00 to 7. All parts are of the same high quality and finish, the larger Outfits containing a greater quantity and variety of parts.

Each Outfit may be converted into the one next higher by the purchase of an Accessory Outfit. Thus a No. 2 may be converted into a No. 3 by adding to it a No. 2A. A No. 3A would then convert it into a No. 4, and so on. In this way, no matter with which Outfit you commence, you may by degrees build up your Outfit to a No. 7.

CONTENTS OF No. 0 OUTFIT

No.	Quantity.	No.	Quantity.	No.	Quantity.
2. 5½" Perforated Strips	4	24. Bush Wheel	1	52. Perforated Flanged Plate, 5½" x 2½" 1	
5. 2½" " "	9	34. Spanner	1	54. " " Sector Plate	1
10. Flat Brackets	5	35. Spring Clips	6	56b. Manual of Instructions No. 0	1
11. Double " "	2	36. Screwdriver	1	57. Hook	1
12. Angle " ½" x ½"	8	37. Nuts and Bolts	19	90a. Curved Strips, 2½" Small Radius	4
16. 3½" Axle Rods	2	37a. Nuts	6	100. Braced Girders, 5½"	2
17. 2" " "	2	38. Washers	6	111c. Bolts, ¾"	6
19s. Crank Handle (Small)	1	40. Hank of Cord	1	125. ½" Reversed Angle Brackets	2
22. 1" Pulley Wheels (with Set-screw)	4	44. Cranked Bent Strip	1	126a. Flat Trunnions	2
23. ½" " Wheel (without Set-screw)	1	48a. 2½" x ½" Double Angle Strips	4		

This rule is provided for measuring rods, strips and other parts.



MECCANO

Hornby's Original System, First Patented 1901

PATENTS AND DESIGNS, GREAT BRITAIN

21,117/12	4,564/15	648,958	680,416	686,112
20,535/13	139,125	671,484	682,208	698,054
22,962/13	177,430	671,485	682,209	718,404
3,869/14	250,378	671,534	682,934	718,731
4,183/14	253,236	671,790	683,011	

Meccano is more than a Toy

IT is important to remember that when a boy is playing with MECCANO he is using engineering parts in miniature, and that these parts act in precisely the same way as do the corresponding engineering elements in actual practice. No other system of model construction can be correct, and other toys which attempt the same object by other methods must avail themselves of constructive elements which are not correct engineering elements. Consequently, though a boy may succeed in building playthings with them, they are merely toys and nothing else, and his mind, as regards proper mechanical construction and methods, is distorted instead of instructed. He thus learns wrong principles, and when his ambition tempts him to invent or construct more elaborate models, he will find that he cannot do so because of the deficiencies of his non-mechanical system.

No Outfit is genuine unless it bears the Trade Mark MECCANO