

MECCANO

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901



INSTRUCTIONS



FOR BUILDING No. O OUTFIT MODELS

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No. 31.00A

ENGLISH EDITION

MECCANO

This Meccano 00A Accessory Outfit converts your No. 00 Outfit into a No. 0, and enables you to build the splendid models illustrated in this Manual. As a Meccano enthusiast, you will realise that our examples do not exhaust the possibilities of your Outfit. It is no exaggeration to say that the possibilities of Meccano are limitless—there is always something new that you can invent and build, and most models can be constructed in many alternative ways. In addition to the fascination and satisfaction obtained by building new models, you can enter them in the model-building competitions that are a regular feature of the "Meccano Magazine." These competitions are open to all Meccano boys, and valuable prizes are offered.

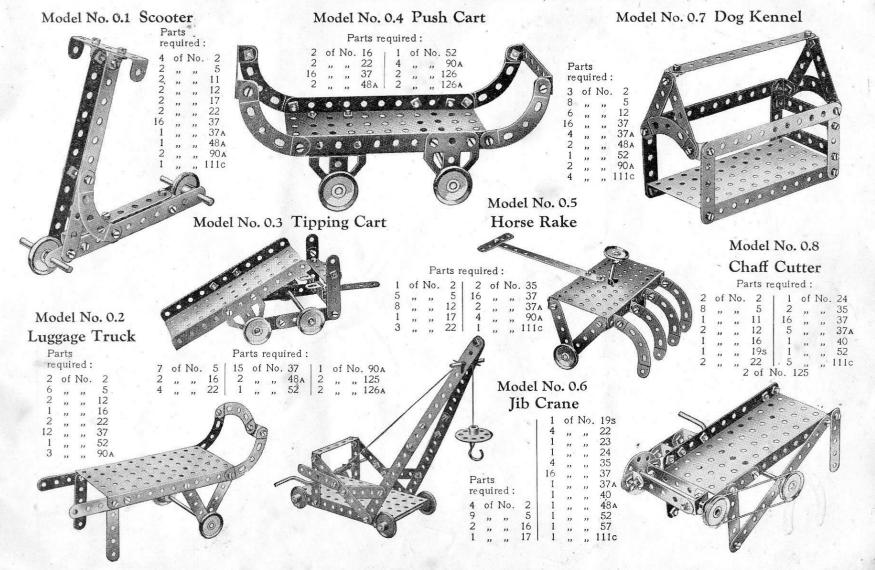
The "Meccano Magazine"

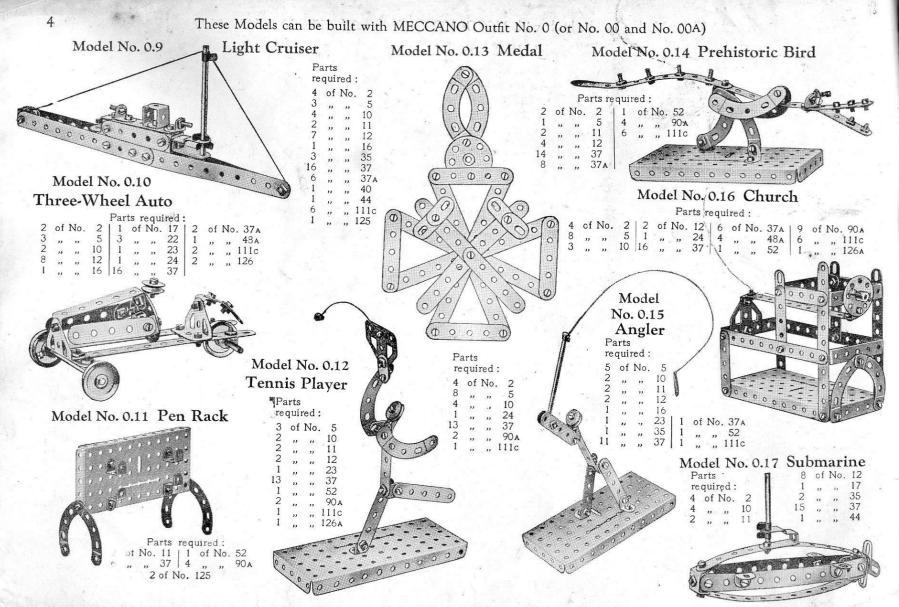
The "Meccano Magazine" is essential to the full enjoyment of the Meccano hobby. A section of it is devoted to the Editor's replies to his readers' enquiries; the progress of Meccano clubs throughout the world is reported; and full details are given of the latest model-building achievements. In addition, a wealth of informative articles on all subjects of interest to boys is included in every issue. The publishing date is the first of each month. If you are not already a reader of the "Meccano Magazine" write to the Editor for full particulars, or order a copy from your Meccano dealer or from any newsagent.

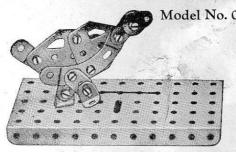
How to Progress Further

When you desire to build the bigger and better models that the No. 1 Outfit makes, it is only necessary for you to purchase a No. 0A Accessory Outfit. In turn, a No. 1A Accessory Outfit will convert your equipment into No. 2, and so on. As you progress by these easy stages, you will obtain an increasing variety of perfectly-made engineering parts—Gear Wheels, Pulleys, Worms, Couplings, Cranks and many others—until ultimately you attain the ambition of every Meccano enthusiast and possess a No. 7 Outfit.

						ENTS OF								
			(No	. 00 O	utfi	t and No. 00A	Acc	essory	Outi	fit con	nbined)			
No.			Quantit	y. N	lo.				Quar	ntity.	No.		Quar	ntity
2.	5½" Perforated Strips		4	23	3.	½" Pulley Wheel	(witho	ut Set-s	crew)	1	48A.	$2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip	s	2
5.	$2\frac{1}{2}''$, , ,		9	24	4.	Bush Wheel				1	52.	Perforated Flanged Plate, 5	$\frac{1}{2}'' \times 2\frac{1}{2}''$	″ 1
0.	Flat Brackets		4	34	4.	Spanner				1	56в.	Manual of Instructions No.	0	1
1.	Double "		2	35	5.	Spring Clips				6	57.	Hook		1
2.	Angle " $\frac{1}{2}$ " $\times \frac{1}{2}$ "		8	36	ó. i	Screwdriver				1	90a.	Curved Strips, 21" Small Ra	dius	4
6.	$3\frac{1}{2}$ Axle Rods		2	37	7.	Nuts and Bolts,	32"			16	111c.	Bolts, 3"		6
7.	2" " "		2	37	7A.	Nuts				6	125.	1" Reversed Angle Brackets	S	2
9s.	Crank Handle, Small $3\frac{1}{2}$	" Shaf	t 1	40).	Hank of Cord				1	126.	Trunnions		2
2.	1" Pulley Wheels (with S	et-scr	ew) 4	44	ł. (Cranked Bent St	rip		- 19	1	126a.	Flat Trunnions		2

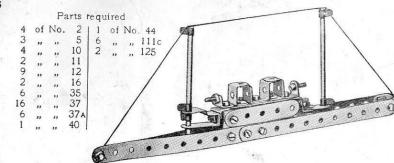






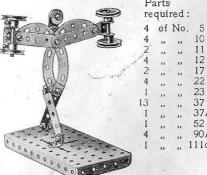
Model No. 0.18 Goose Model No. 0.22

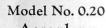
Lazy	Tongs



Model No. 0.23 Battleship

Model No. 0.19 Strong Man



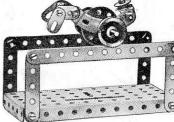




d:

4	of	No.	2	8	of	No	. 37 111c 125 126A
3	,,	. ,,	5	1.	,,	,,	111c
2	,,	"	12	2	,,	,,	125
1	,,	"	24	1	,,	,,	126A

Model No. 0.24 Gymnast



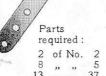
			alto	1040	1110	u.	
12	of	No.	2	1 1	of	No.	24
4	,,	,,	5	12	,,	,,	37
4	,,	,,	10	1	,,	,,	37A
1	,,	,,	12	1	,,	,,	52
1.	,,	,,	16	1	,,	,,,	90 A
2	,,	"	22	1	. ,,	,,	111c
1			23				11%





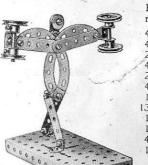
required:

Parts



Parts required:





Aeroplane

Parts

required:

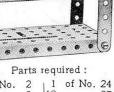
of No. 10

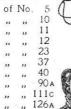


-44000	SOLA .	
Parts	required	:

4	of	No.	2	18	of	No	. 37	
	,,		5	1.	,,	,,	111c	
2		,,	12	2	,,	,,	111c 125 126a	
1	,,	,,	24	1	,,	,,	126A	



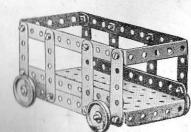




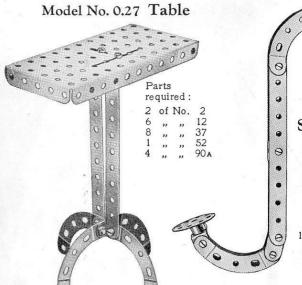
Parts required:

Model No. 0.25 Rocking Horse





Model No. 0.21 Cattle Truck



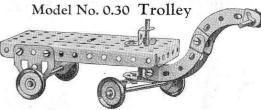
Model No. 0.28 Crocodile Parts required: 4 of No. 2 | 6 of No. 12 -" " 5 16 " 37 " " 10 6 " 37A " " 11 6 " " 111c

Model

No. 0.29

Saxophone

re	qui	red		
2	of	No.	2	
2	,,	,,	10	
2	,,	,,	11	
2	,,	"	12	
1	,,	"	23	
1	"	"	24	2000
12	,,	"	37	2000
4	,,	"	37 A	
2	"	"	111c	
2	"	"	1110	



Parts required:

1	of	No.	11	4	of	No.	35	4	of	No.	. 90a 125 126a	
2	,,	"	16	12	,,	"	37	1	,,		125	
2	,,	,,	17	1	,,	,,	48A	2			126A	
1	,,	,,	24	1			52					

Model No. 0.31 Field Gun and Carriage



Parts required:

8	of	No.	5	1 2	of	No	17	1 1	of	No	44	
2	,,	,,	10	4			22 37 37 _A	i		140	111c	
2	,,	"	11	13	21	"	37	1	"	,,	125	
6	,,	,,	12	1	,,	,,	37A		"	,,		



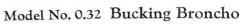
Model No. 0.33 Ape

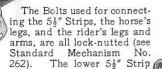
Parts required:

Model No. 0.34 Gangway

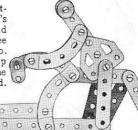
Parts required:

4	of	No.	2	16	of	No.	37
2	"	"	5	2	,,	,,	37 A
2	,,	"	10	- 1	"	,,	40
2	,,	,,,	12	2	"	"	48A
1	,,	**	19s	1	"	,,	52 -
1	,,	"	23	1	,,	,,	111c
3			35		-		

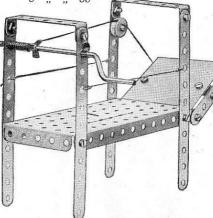




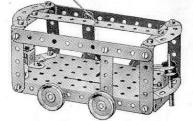
should be held rigidly and the upper one jerked forward; the horse will then throw its rider completely over its head.



required: 37A



Model No. 0.35 Tramway Car



		Pai	ts re	quir	ed		
3	of	No.	2	16	of	No.	37
6	,,	,,,	5	6	,,	**	37A
2	,,	,,	10	2	,,	,,	48A
2	,,	,,	16	1	,,	,,	52
2		,,	17	4	,,	,,	90A
. 4	,,,	,,	22	6	,,	,,	111c
6			35	2	35		125

Model No. 0.36 Motor Boat



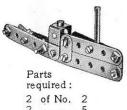
2	of	No.	2	1	of	No.	23	
2		,,	5 10	7		,,	37	
3	,,	,,	10	1	,,		37A	
1			11	1			111c	

Model No. 0.37



	CIL		llai
	arts qui	red:	
2	of	No.	2
7 14	,,	,,	5
14	22	"	37
2	"	"	48A

Model No. 0.38 Torpedo Boat

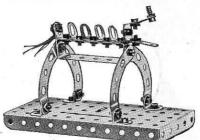


2	of	No.	. 2
2	,,	,,	- 5
	,,	,,	10
2	,,	,,	11
2	,,	,,	12
1	,,	,,	17
11	,,	,,	37
4	,,	,,	37A
5	,,	,,	111c

Model No. 0.40 Gramophone

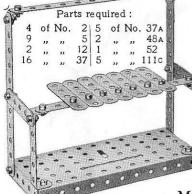
re	qui	red	:						red:	
2	of I	No	12				4	01	No.	
1	01 .						1	,,	"	11
1	"	,,	22 23				8	,,	,,	12
ī	,,	"			1	5	16	,,	,,	37
1	,,	,,	24		10	1/2	4	,,	,,	37A
3	,,	,,	37			60	1			40
1	,,	,,	37A			VOI	2	"	"	48A
1	,,	,,	52			0	1	"	"	52
2			90A				1	"	"	
3	"	,,	111c	6	20	\mathcal{N}_{0}	4	"	,,	90 A
U	"	,,	1110		/	A)	4	"	, ,,	111c
				Œ cu		135	-			

Model No. 0.43 Prehistoric Armadillo



Model No. 0.44 Motor Cycle and Side Car

Model No. 0.39 Piano



Model No. 0.41 Milk Maid

			1		
	T.	=	13		•
5 0 1			Λ	December	
0			100	9	
1			L_{λ}	_ 8	
2		-	0121	a L	
2 2 3 7	1		10		2
3	4	1		1	
7				100	
7 A				M	
)				VA.	
2			0-		-
DA (-	J-34			
1c	1.				
10	V 11 a				

111c

		P	arts	requ	ired	:	
1	of	No.	5	10	of	No.	37
4	,,	,,	10	1	,,	,,	37A
2 3	,,	,,	11	1	,,,	,,	44
3	,,	,,	12	3	,,	,,	90 A
3	,,	,,	16	1	,,	,,	111c
3	,,	,,	22 23	1	,,	,,	125
1	,,	"	23	1	"	,,	126a

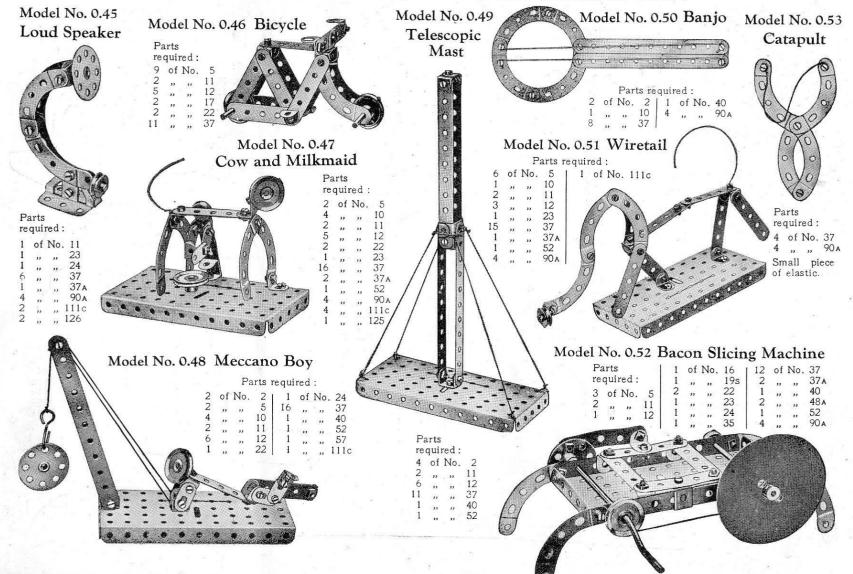
Model No. 0.42 Sword

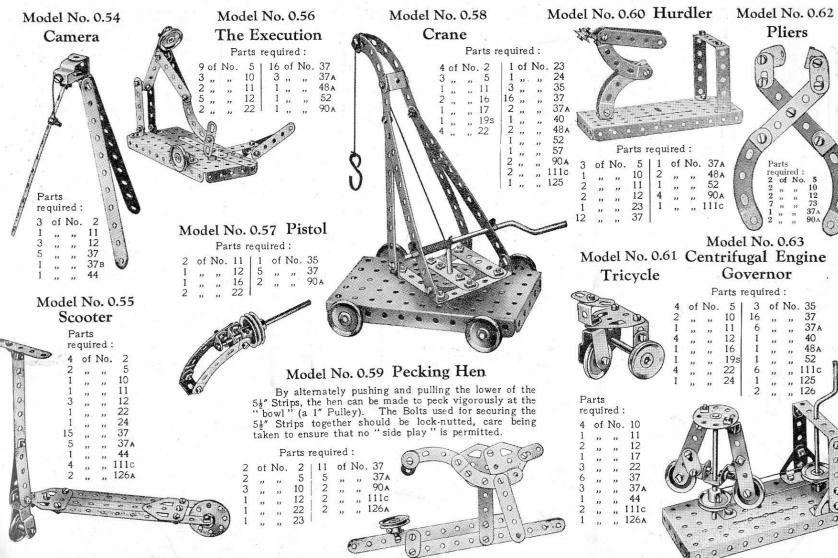
Parts required:

Parts required:

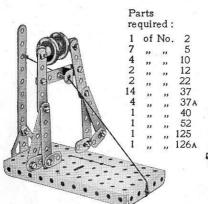
4 of No. 2 | 10 of No. 37 | 3 of No. 90A



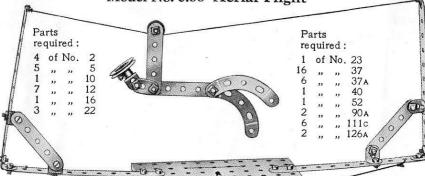




Model No. 0.64 Wrestlers



Model No. 0.66 Aerial Flight



Model No. 0.70 The Missing Link

of	No.	5
,,	,,,	10
,,	,,	12
"	,,	24
,,	,,	37
"	,,	37A
,,	,,	52
"	"	90A
11	,,	111c



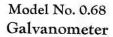
A Chase

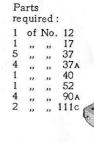
Parts required:

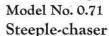
1	of	No.	5	16	of	No.	. 37
1	,,	,,	10	1	,,	,,	37A
2	,,	,,	11	1	,,	,,	52
7	,,	,,	12	4	,,	,,	90 A
1	"	,,	22	2	,,	,,	111c
1	,,	,,	23	2	"	,,	126a

Model No. 0.67

Bullock Cart







Parts required:

			100		- 1	-		
	7	of	No.	5	1	of	No.	37A
7	4	,,	"	10	1	,,	,,	48A
7	1	,,	,,	12	1	,,	,,	52
	1	,,	,,	23	4	,,	,,	90 A
	13	,,	,,	37	1	,,		111c
			1		1	,,	"	126a
		do				100	8	



3	of	No.	2	2	of	No.	37A
9	,,	,,	5	1	,,	,,	37A 40 52 111c 126A
1	,,	,,	16	1	,,	,,	52
2	,,,	1)	22	2	,,	"	111c
16	,,	,,	37	2	,,	,,,,,	126A



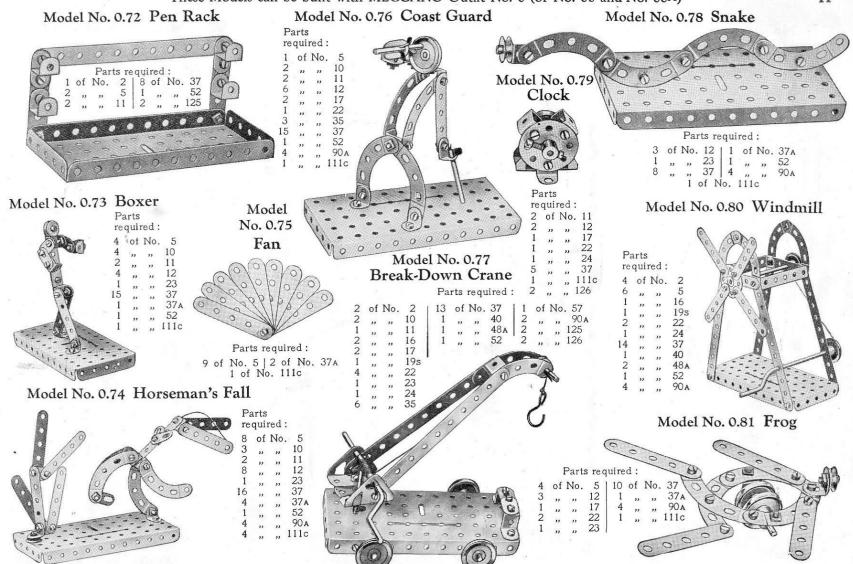


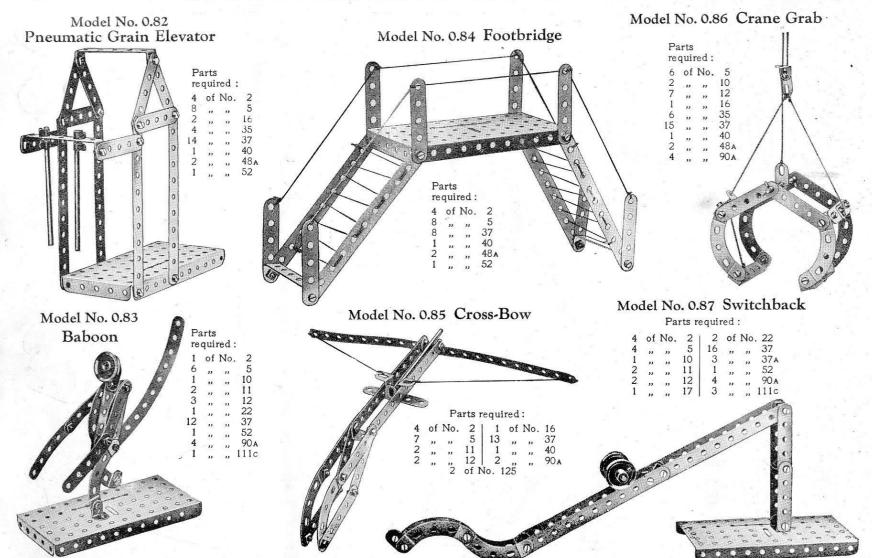


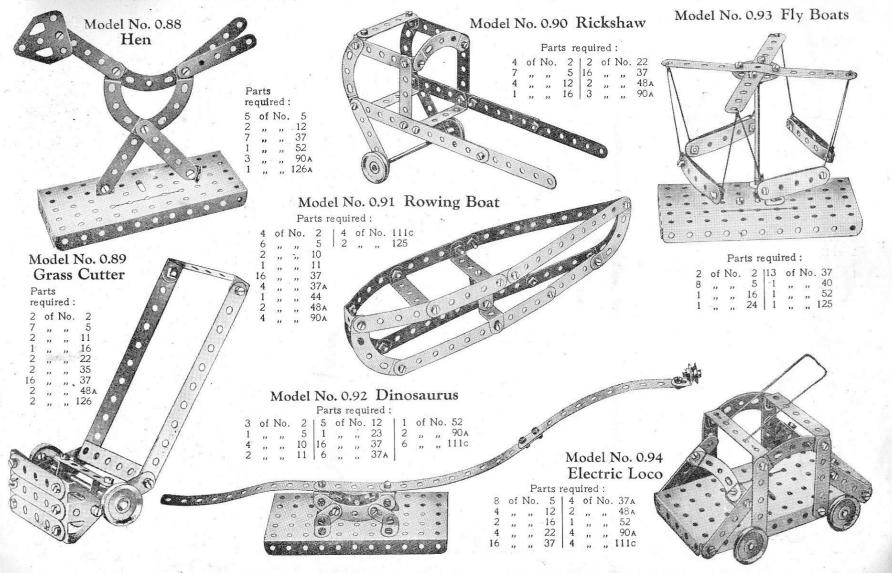
Parts required:

2	of	No.	5	13	of	No.	37 52 90 a 126 a
1	,,	,,	11	1	,,	"	52
1	,,	,,	17	4	,,	,,	90 A
1	"	**	24	2	,,	,,	126a

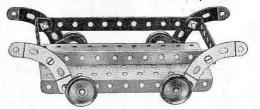








Model No. 0.95 Trolley



Parts required:

2	of	No.	2	8 2 1 No.	of	No.	37
2	,,	,,	16	2	,,	,,	48.
4	,,	,,	22	1	,,	,,	52
		4	of	No.	90.	A	

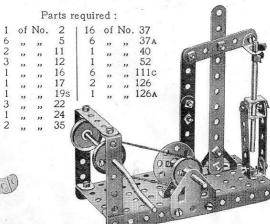
Model No. 0.96 Pen Rack



Model No. 0.97 Walking Man

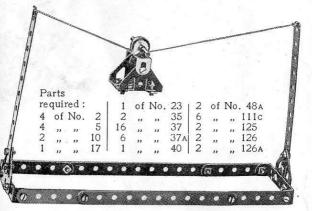
Parts required:
5 of No. 5
3 ,, 10
2 ,, 12
1 ,, 22

Model No. 0.98 Pump

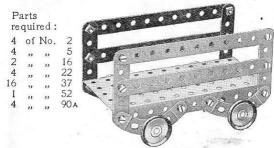


The connecting Strip is pivoted by Bolts and Nuts at one end to the Bush Wheel and at the other end to the cross beam. The latter is pivoted by the same means to the upright.

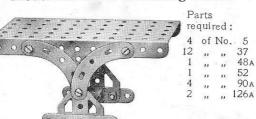
Model No. 0.99 Aerial Ropeway



Model No. 0.100 Luggage Truck



Model No. 0.101 Drafting Table

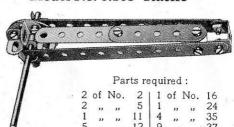


Model No. 0.102 Arm Chair

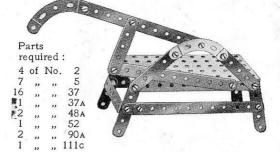
Parts required:
2 of No. 2
4 " " 5
12 " " 37
1 " " 48A
1 " " 52
3 " " 90A



Model No. 0.103 Rattle



Model No. 0.104 Shearing Machine



Model No. 0.105 Anchor

Parts required:

2 of No. 2 | 1 of No. 11

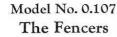
1 ,, ,, 5 | 1 ,, ,, 57

2 ,, ,, 90A

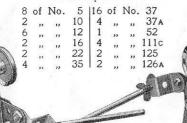
2 | 126A



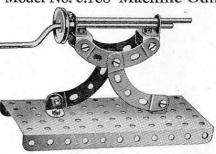
Model No. 0.106 Portal



Parts required:



Model No. 0.108 Machine Gun



Parts required:

2	of	No.	11	1	of	No.	22
4	,,	,,	12	12	,,	,,	37
1	,,	,,	16	1	,,	,,	52
1	,,	,,	19s	4	.,,		90A

Model No. 0.109 Single Sheave Pulley Block



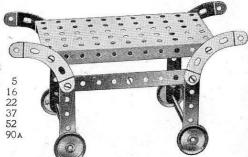
Parts required:

2 of No. 5 | 7 of No. 37A

1 ,, 23 | 1 ,, 57

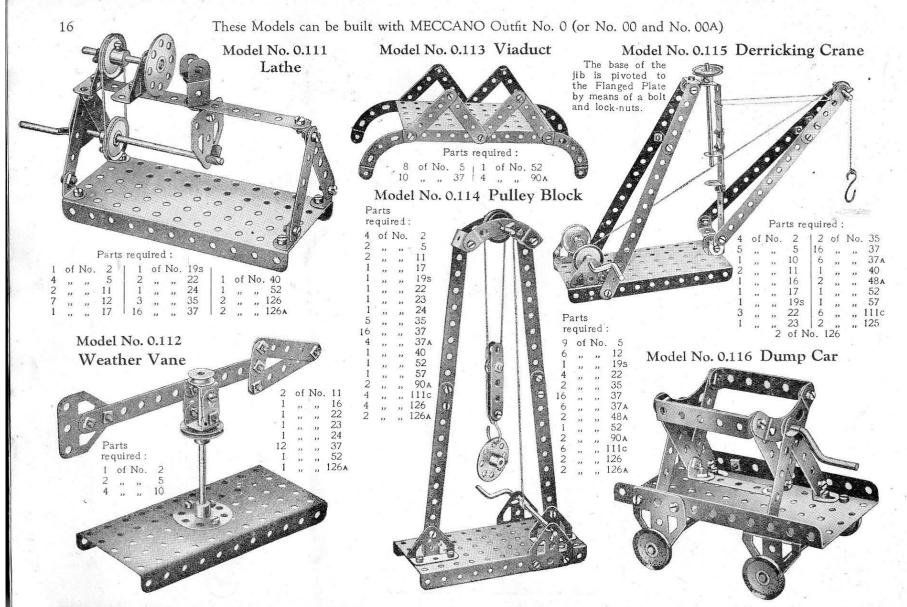
3 of No. 111c

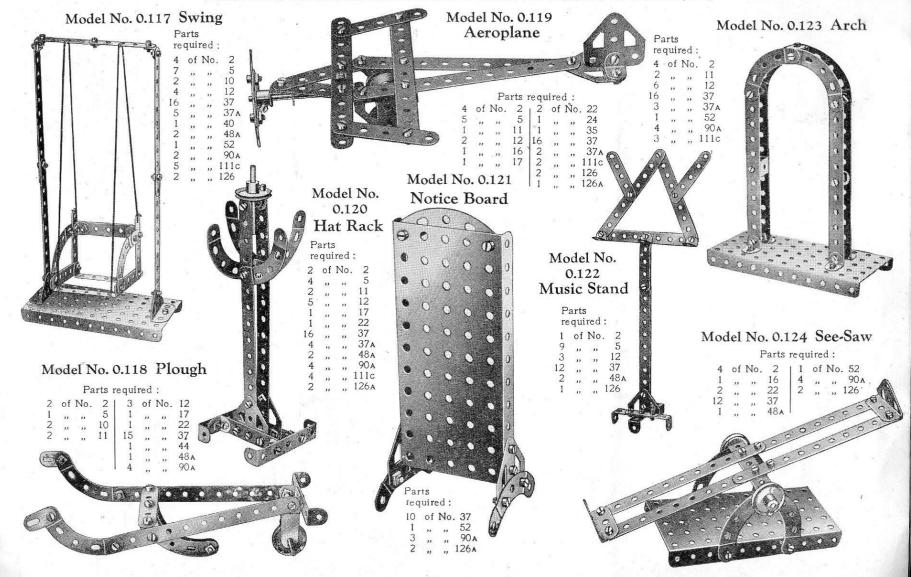
Model No. 0.110 Tea Wagon



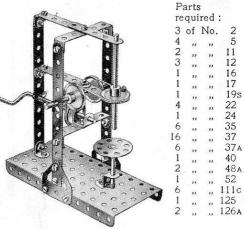


8 of No. 5 2 , , 16 4 , , 22 10 , , 37 1 , , 52 4 , , 90A

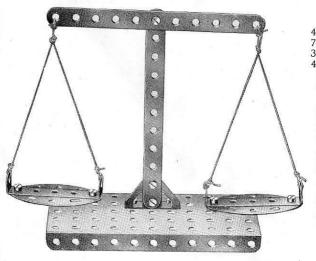




Model No. 0.125 Drilling Machine



Model No. 0.127 Scales



Parts required:

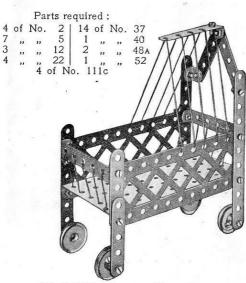
2	of	No.	2	1	2	of	No.	48A
9	,,	.,,	37		1	,,	"	52
1	,,	22	37a		4	,,	"	90a
1	,,	,,	40		1	,,	,,	126

Model No. 0.128 Single Sheave Pulley Block



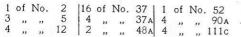
Parts required 1 of No. 23

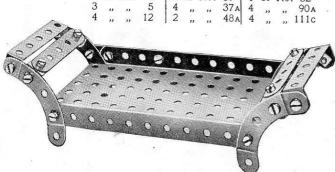
Model No. 0.129 Cot



Model No. 0.130 Couch

Parts required





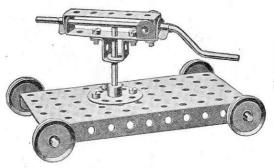


Model No. 0.126 Counter Scales

Parts required:

						30		
1 2 2 1	of ,,	No.	2 10 12 17	7 1 1 2	of ,, ,,		37 44 52 126	000
				9 5 \$	9			
				1		0	0	
a						ß		

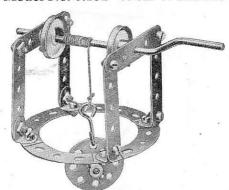
Model No. 0.131 Rock Drill



Parts required:

1	of	No.	11	14	of	No.	22	12	of	No.	48A
2	,,	,,	11 16 17 19s	1	,,	,,	24	1	,,	,,	52
1	,,	,,	17	2	,,	,,	35	2	,,	,,	125
1	10000	1223	198	5		0000	37				

Model No. 0.132 Well Windlass



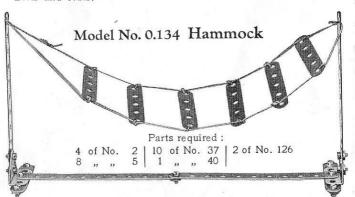
Parts required:

							oqui					
6	of	No.	5	1 **	2	of	No.	22	1 1	of	No.	40
4	,,	,,	12		1	٠,,	,,	24	1	,,	,,	57
1		**	195		12	,,	,,	37	4	,,	"	90 A

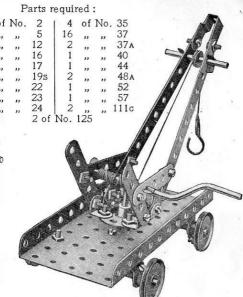
Model No. 0.133 Prancing Horse

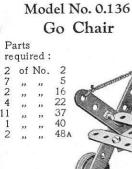
Pa	arts													
re	qui	red			1								2	of
6	of	No	. 5		1.5	ED.			/0	1			4	120
4	,,	,,	12		7	20			10/					"
1		,,	17		IVC	\wedge	1-5	\sim	αZ				2	"
î	"		19s					0.4	"	.2			1	"
1	"	"	22		0					Bead			1	"
4	"	,,				4	70						1	,,
1	"	,,	24			Ç	2	-		-1			4	,,
16	"	,,	37		par98	A	5 V 2	10		-	0		1	,,
4	,,	,,	37A		5-	-7	100	1 10	THEFT	-			1	,,
1	,,	,,	40			/0		0_1	M			\		
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1	,,	,,	126A	0		<i>y</i> 6		0			3	\ L	ø	
			1			5 _	്				777	2	74	
			/ **		0		0						40	
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					~		100					1	/\(\(\)	7
												V	13	
						C.								

The Strip 1 forming part of the body is free to move about the Bolt 2, but two Nuts on the latter secure the rear legs and tail rigidly together. The arrangement of the various Strips about this Bolt 2 is shown more clearly in Fig. 0.133A. The Strip 3 is free to move at each end about pivots formed from Bolts and Nuts.

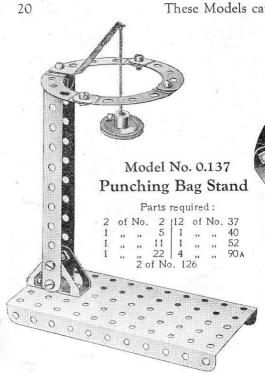


Model No. 0.135 Swivelling Crane



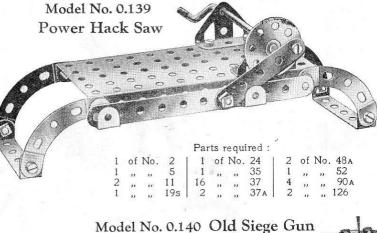




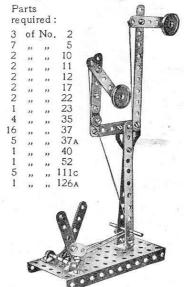


Model No. 0.138 Sled Parts required:

6 of No. 37 | 1 of No. 52 1 ,, ,, 48a | 4 ,, ,, 90a



Model No. 0.141 Junction Signal



Model No. 0.142 Battleship

Parts required:

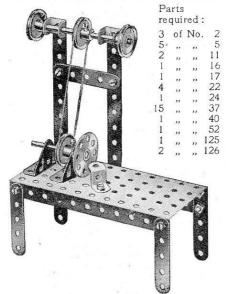
3	of	No.	2	1	of	No.	24
1	,,	**	11	16	,,	,,	37
4	,,	1)	12	2	,,	"	37A
1	,,	**	15	2	22	**	48 A
2	11	11	16	1	,,,	22	52
4	,,	,,	22	1 4	,,	**	90 A
		20	of N	lo. 1	110		



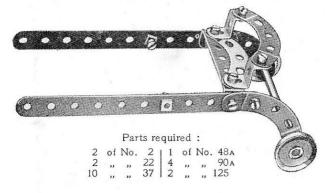
				1			
4	of	No.	2	1	of	No.	35
2	"	"	5	16	,,	,,	37
4	"	"	10	6	,,	,,	37A
1	,,	,,	11	2	,,	.,	48 A
1	,,	"	16	1	,,	,,	52
1	,,	,,	17	2	,,	"	90 A
3	.,		22	6	11	"	111c
1	,,,	**	24	1	,,	**	125
		2	of I	No. 1	26		



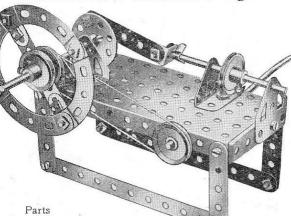
Model No. 0.143 Bench Lathe

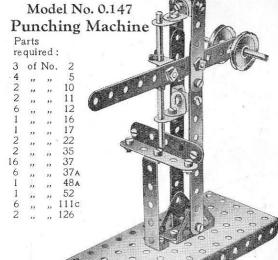


Model No. 0.145 Sulkey



Model No. 0.146 Horizontal Engine

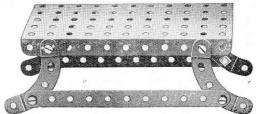




Model No. 0.144 Bench

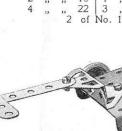
Parts required:

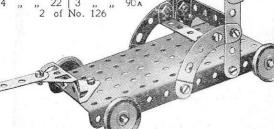
2 of No. 2 | 1 of No. 52 8 ,, ,, 37 | 4 ,, ,, 90A

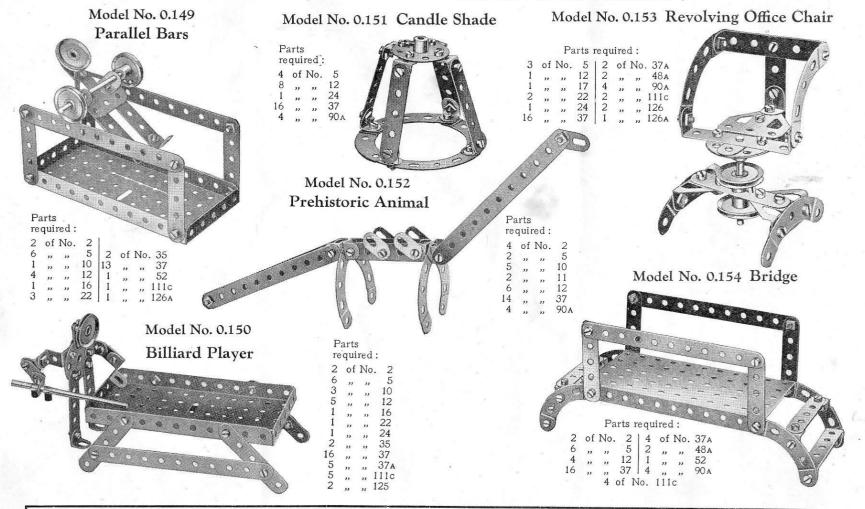


Model No. 0.148 Bath Chair

Parts required: of No. 5 |16 of No. 37 " 12 2 " " 48A







HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit No. 0 (or No. 00 and No. 00A). The next models are a little more advanced, requiring extra parts to construct them. The necessary parts are all contained in a No. 0A Accessory Outfit, the price of which may be obtained from any Meccano dealer.

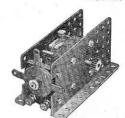
MECCANO

MECCANO ELECTRIC MOTOR No. E. 1 (6-volt)

This is a highly efficient electric motor (non-reversing) that will give excellent service. A 6-volt Accumulator will operate it, but it may also be driven from the main (alternating current only) through the Transformer described on this page.



MECCANO ELECTRIC MOTOR No. E. 6 (6-volt)



This powerful and reliable 6-volt Motor may be run from a 6-volt accumulator or, by employing the Transformer described on this page, from the main. It is fitted with a control mechanism that enables the motor to be started, stopped or reversed as desired.

NOTE.—The above Electric Motors will not run satisfactorily from dry cells.

MECCANO ACCUMULATOR

(6-volt, 20 amps.)

The Meccano Accumulator is of substantial construction and is specially recommended for running the Meccano 6-volt Electric Motors.

MECCANO RESISTANCE CONTROLLER

By employing this variable resistance the speed of the Meccano 6-volt Electric Motors 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.



MOTORS AND ACCESSORIES

In order to obtain the fullest possible enjoyment from the Meccano hobby the models should be operated with a Meccano power unit. The side plates and bases are pierced with the standard Meccano equidistant holes, which enable the motors or the steam engine to be built into any Meccano model in the position that is most suitable.

MECCANO STEAM ENGINE

Strong · Powerful

Safe - Reversing

On actua

ful steam unit has lifted over

test this power-

56 lbs. Opera-

tion of the re-

versing lever
enables the
crankshaft, which is
fitted with a special
compensating flywheel, to run
in either direction. The spirit
container for the lamp is placed well
outside the boiler-casing, eliminating all
risk of the spirit becoming heated. There is no
danger whatever of the boiler exploding. A special
Manual of Instructions is supplied with each engine.

TRANSFORMER



By means of this transformer the Meccano 6-volt Electric Motors may be driven from the main supply (alternating current only). It is available for all standard supply voltages, from 100 to 250 inclusive, at all standard frequencies. The supply voltage and frequency must be specified when ordering.

MECCANO CLOCKWORK MOTOR No. 1

(Non-Reversing)

A long-running and highly efficient clockwork motor (non-reversing), fitted with a brake lever by means of which it may be stopped and started, as desired.





MECCANO CLOCKWORK MOTOR No. 2

(Reversing)

This strongly-built clockwork motor is a compact self-contained power unit. An efficient governor controls the powerful spring that is fitted on the motor, and ensures a long steady run at each winding. Brake and reverse levers enable the motor to be stopped, started and reversed, as required.

