

MECCANO®

MECCANO SETS

(Complete with illustrated Books of Models)

Set No.	£ s. d.
0 Playset	15 11
1 Junior Kit	1 5 11
2 Super Junior	1 18 11
3 Highway Vehicles	2 9 11
4 Airport Services	3 15 6
5 Site Engineering	4 19 6
6 Ocean Terminal	6 7 6
7 Mountain Engineer	8 13 6
8 Breakdown Crew	14 18 6
9 Master Engineer's Set	27 0 0
10 Meccano Outfit in 4-Drawer Cabinet	73 15 0
Meccano Gears Set	1 8 6
Meccano Mechanisms Set	2 5 0
Elektrikit	4 15 0

MECCANO CONVERSION SETS

	£ s. d.
No. 1a Converts No. 1 into No. 2	12 11
No. 2a Converts No. 2 into No. 3	17 11
No. 3a Converts No. 3 into No. 4	1 9 11
No. 4a Converts No. 4 into No. 5	1 15 6
No. 5a Converts No. 5 into No. 6	1 8 6
No. 6a Converts No. 6 into No. 7	2 7 6
No. 7a Converts No. 7 into No. 8	5 19 6

MECCANO POWER DRIVE SERIES

	£ s. d.
Junior Power Drive Set	4 5 0
Power Drive Set	6 17 6
Power Drive 4½v. D.C. Reversible Motor Battery Operated	1 6 11
Power Drive Unit (Gear Box & 6 volt D.C. Motor)	
Battery Operated or from a 3-12 volt D.C. power supply	2 15 11
Power Drive Gear Box and Coupling	1 16 11
Power Drive Steam Engine	3 15 0

MECCANO MOTORS, ETC.

	£ s. d.
Clockwork, Magic, non-reversing (including key)	11 6
Clockwork No. 1, reversing (including key)	1 12 6
E15R Electric, reversing†	3 9 11
EMEBO Electric Motor (Battery Operated)	1 9 11
43,901 B Key for No. 1 Clockwork Motor	1 3
43,903 S Key for Magic Clockwork Motor	6

†Fitted with T.V. and Radio interference suppressors

Please ask our advice regarding the most suitable Transformer for use with E15R Motor.



5



8

PERFORATED STRIPS

	£ s. d.	
1. 12½" : 32cm	1 2 3 3½" : 9cm	7
1a. 9½" : 24cm	11 4 3" : 7½cm	7
1b. 7½" : 19cm	10 5 2½" : 6cm	7
2. 5½" : 14cm	9 6 2" : 5cm	7
2a. 4½" : 11½cm	8 6a 1½" : 38mm	6

ANGLE GIRDERS

7. 24½" : 62cm	3 5 8a. 4½" : 11½cm	11
7a. 18½" : 47cm	2 8 9b. 3½" : 9cm	10
8. 12½" : 32cm	1 9 9c. 3" : 7½cm	10
8a. 9½" : 24cm	1 5 9d. 2½" : 6cm	10
8b. 7½" : 19cm	1 3 9e. 2" : 5cm	9
9. 5½" : 14cm	1 0 9f. 1½" : 38mm	9



10



11



11a



12

10. Fishplate	(6)	1 0
11. Double Bracket ½" x ½" : 12 x 12 mm		4
11a. Double Bracket 1" x ½" : 25 x 12 mm		6

ANGLE BRACKETS

12. ½" x ½" : 12 x 12 mm		3
12a. 1" x 1" : 25 x 25 mm		6
12b. 1" x ½" : 25 x 12 mm		6
12c. Obtuse, ½" x ½" : 12 x 12 mm	(6)	1 6

AXLE RODS

13. 11½" : 29cm		11
13a. 8" : 20cm		10
14. 6½" : 16½cm		9
14a. 5½" : 14cm		8
15. 5" : 13cm		8



17



19a

AXLE RODS (continued)

	£ s. d.
15a. 4½" : 11½cm	7
15b. 4" : 10cm	7
16. 3½" : 9cm	6
16a. 2½" : 6cm	5
16b. 3" : 7½cm	5
17. 2" : 5cm	4
18a. 1½" : 38mm	4
18b. 1" : 25mm	4
19b. 5" : 13cm shaft Crank Handle	1 2
19c. 3½" : 9cm	9



19a



20



20b

19a. Spoked Wheel, 3" diam., 75mm	3 3
20. Flanged Wheel, 1" diam., 28mm	2 0
20b. Flanged Wheel, ½" diam., 19mm	1 9



19c



21



22

PULLEYS

19b. 3" diam. with boss and screw, 7½cm	2 3
19c. 6" diam. with boss and screw, 15cm	7 6
20a. 2" diam. with boss and screw, 5cm	1 9
21. 1½" diam. with boss and screw, 38mm	1 9
22. 1" diam. with boss and screw, 25mm	1 5



22a



23

PULLEYS (Cont.)

	£ s. d.
22a. 1" diam. without boss, 25mm	10
23. ½" diam. without boss, 12mm (Plastic)	6
23a. ½" diam. with boss and screw, 12mm	1 5
23b. ½" diam. without boss, 12mm (Metal)	1 4



24b



24c



26a

24. Bush Wheel, 1½" diam. 8 holes, 34mm	1 5
24a. Wheel Disc, 1½" diam. 8 holes, without boss, 34mm	1 0
24b. Bush Wheel, 1½" diam. 6 holes, 34mm	1 5
24c. Wheel Disc, 1½" diam. 6 holes, without boss, 34mm	1 0

PINIONS

25. ½" diam. ¼" face, 25 teeth, 19 x 6mm	2 9
25a. ½" diam. ½" face, 25 teeth, 19 x 12 mm	3 3
25b. ½" diam. ¼" face, 25 teeth, 19 x 19 mm	4 3
26. ½" diam. ¼" face, 19 teeth, 12 x 6 mm	2 3
26a. ½" diam. ½" face, 19 teeth, 12 x 12 mm	2 9
26b. ½" diam. ¼" face, 19 teeth, 12 x 19 mm	3 3
26c. ½" diam. ½" face, 15 teeth, 11 x 6 mm	1 11



27



27a



27c

GEAR WHEELS

27. 1½" diam. 50 teeth, 32 mm	2 4
27a. 1½" diam. 57 teeth, 38 mm	2 9
27b. 3½" diam. 133 teeth, 9 cm	5 0
27c. 2½" diam. 95 teeth, 6cm	3 0
27d. 1½" diam. 60 teeth, 41 mm	2 9



CONTRATE WHEELS

Part No.	Description	QTY	UNIT
28	1 1/2" diam. 50 teeth; 38mm	2	9
29	3/4" diam. 25 teeth; 19mm	2	0



30a & 30c

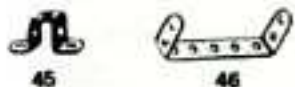
30	Bevel Gear, 1/2" diam., 26 teeth; 22mm (for use in pairs)	4	0
30a	Bevel Gear, 1/2" diam., 18 teeth; 12mm	1	9
30c	Bevel Gear, 1 1/2" diam., 48 teeth; 38mm (Can only be used together)		
31	Gear Wheel, 1" diam. 1/4" face, 38 teeth, 25mm x 6mm	4	9
32	Worm, 1/2" diam; 12mm	2	2
34	Spanner		9



34b	Box Spanner		3
35	Spring Clip	Pkt. of 24	6
36	Screwdriver		5
36a	Screwdriver (longer)		3
36c	Drift (for levering bolt holes into line)		8
37	Nut and Bolt, 5mm	Pkt. of 24	3
37a	Nut	Pkt. of 24	2
37b	Bolt, 5mm	Pkt. of 24	2
38	Washer, 10mm	Pkt. of 20	0
38d	Washer, 19mm	Pkt. of 12	0
40	Hank of Cord		8



41	Propeller Blade		0
43	Tension Spring, 2" long; 5cm		10



44	Bent Strip, Stepped		8
45	Double Bent Strip		8

DOUBLE ANGLE STRIPS

Part No.	Description	QTY	UNIT
46	2 1/2" x 1"; 60 x 25mm		10
47	2" x 1 1/2"; 60 x 38mm		11
47a	3" x 1 1/2"; 75 x 38mm		1 0
48	1 1/2" x 1/2"; 38 x 12mm		7
48a	2" x 1/2"; 60 x 12mm		8
48b	3" x 1/2"; 90 x 12mm		9
48c	4" x 1/2"; 115 x 12mm		10
48d	5" x 1/2"; 140 x 12mm		11



50	Slide Piece		3
51	Flanged Plate, 2" x 1 1/2"; 60 x 38mm		0
52	Flanged Plate, 5" x 2"; 14 x 6cm		6
52a	Flat Plate, 5" x 3 1/2"; 14 x 9cm		6
53	Flanged Plate, 3" x 2 1/2"; 9 x 6cm		3
53a	Flat Plate, 4" x 2 1/2"; 11 x 6cm		2



54	Flanged Sector Plate, 4 1/2" long; 11x6cm		3
55	Perforated Strip, slotted, 5 1/2" long; 14cm		9
55a	Perforated Strip, slotted 2" long; 5cm		7



57b	Small Hook, loaded		8
57c	Hook, loaded		10
57d	Wire Hook		3
58	Spring Cord, 40" length; 1 metre		3
58a	Coupling Screw for Spring Cord	Pkt. of 12	0
58b	Hook for Spring Cord	Pkt. of 12	0
59	Collar with screw		10



61	Windmill Sail		1
62	Crank		5
62a	Threaded Crank		5
62b	Double Arm Crank		5



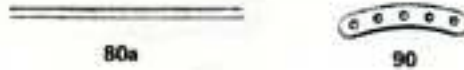
63	Coupling		3
63b	Strip Coupling		3
63c	Threaded Coupling		0
63d	Short Coupling		9



64	Threaded Boss		2
65	Centre Fork		9
69	Set Screw, 1/4", 4mm	(12)	6
69a	Grub Screw, 1/4", 4mm	(12)	0
69b	Grub Screw, 3/8", 5mm	(12)	0
69c	Grub Screw, 1/2", 3mm	(12)	0



70	Flat Plate, 5" x 2 1/2"; 14 x 6cm		4
72	Flat Plate, 2" x 2 1/2"; 6 x 6cm		0
73	Flat Plate, 3" x 1 1/2"; 75 x 38mm		0
74	Flat Plate, 1 1/2" x 1 1/2"; 38 x 38mm		8
76	Triangular Plate, 2 1/2"; 6cm		10
77	Triangular Plate, 1"; 25mm		7



SCREWED RODS

Part No.	Description	QTY	UNIT
78	1 1/2"; 29cm	4	0
79	8"; 20cm	3	0
79a	6"; 15cm	2	6
80	5"; 12 1/2cm	2	3
80a	3"; 9cm	1	9
80b	4 1/2"; 11 1/2cm		0
80c	3"; 7 1/2cm		8
81	2"; 5cm		7
82	1"; 25mm		6

CURVED STRIPS

89	5" (110" radius); 14cm (25 cm radius)		10
89a	Stepped, 3" (1 1/2" radius); 7 1/2cm (4 1/2 cm radius)		9
89b	Stepped, 4" (4 1/2" radius); 10cm (11 1/2cm radius)		9
90	2" (2 1/2" radius); 6cm (6cm radius)		7
90a	Stepped, 2 1/2" (1 1/2" radius); 6cm (35mm radius)		7



94	Sprocket Chain, 40" length; 1 metre		3
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SPROCKET WHEELS

95	2" diam., 36 teeth; 5cm		10
95a	1 1/2" diam., 28 teeth; 38mm		11
95b	3" diam., 56 teeth; 75mm		3
96	1" diam., 18 teeth; 25mm		10
96a	3/4" diam., 14 teeth; 19mm		9






BRACED GIRDERS



97	3 1/2" long; 9cm		0
99	12 1/2" long; 32cm		3
99a	9 1/2" long; 24cm		9
99b	7 1/2" long; 19cm		5
100	5 1/2" long; 14cm		3

			s	d
101. Heald for Loom		(12)	9	
102. Single Bent Strip			7	

FLAT GIRDERS




s	d			
103. 5 1/2" long; 14cm	1 0	103e. 3" long; 7 1/2cm	10	
103a. 9 1/2" long; 24cm	1 6	103f. 2 1/2" long; 6cm	10	
103b. 12 1/2" long; 32cm	1 9	103g. 2" long; 5cm	9	
103c. 4 1/2" long; 11 1/2cm	11	103h. 1 1/2" long; 38mm	9	
103d. 3 1/2" long; 9cm	10	103k. 7 1/2" long; 19cm	1 3	

				
106. Wood Roller (complete with Rod and two Collars)			5 3	
108. Corner Gusset			10	
109. Face Plate, 2 1/2" diam.; 6cm			1 9	

				
110. Rack Strip, 3 1/2" long; 9cm			1 3	
110a. Rack Strip, 6 1/2" long; 16 1/2cm			1 6	

BOLTS


111. 1/2", 19mm		(12)	1 6	
111a. 1/2", 12mm		(12)	1 0	
111c. 1/2", 9 1/2mm		(12)	1 0	
111d. 1/2", 28 1/2mm		(12)	2 0	
113. Girder Frame			1 6	

				
114. Hinge			1 3	
115. Threaded Pin			1 2	
115a. Threaded Pin, Long 1 1/2"; 34mm			1 6	
116. Fork Piece, large			1 6	
116a. Fork Piece, small			1 3	

				
118. Hub Disc, 5 1/2" diam.; 14cm			5 0	
120b. Compression Spring, 3/16" long; 14mm			3	
122. Loaded Sack			11	




				
123. Core Pulley, 1 1/2", 1" and 3/4" diam. 32 x 25 x 19mm			5 4	
124. Reversed Angle Bracket, 1"; 25mm			6 9	
125. Reversed Angle Bracket, 1/2"; 12mm			6	
126. Trunnion			5	





124. Reversed Angle Bracket, 1"; 25mm			6	
125. Reversed Angle Bracket, 1/2"; 12mm			5	
126. Trunnion			9	



				
126a. Flat Trunnion			7	
128. Bell Crank, with bow			1 6	

				
130. Eccentric, Triple Throw, 1/2", 1/4" and 1/8" 6 x 9 x 12mm			6 0	
130a. Eccentric, Single Throw, 1/2"; 6mm			4 0	

130. Eccentric, Triple Throw, 1/2", 1/4" and 1/8" 6 x 9 x 12mm			6 0	
130a. Eccentric, Single Throw, 1/2"; 6mm			4 0	


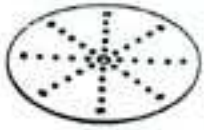
				
133. Corner Bracket, 1 1/2"; 38mm			8	
133a. Corner Bracket, 1"; 25mm			6	
134. Crank Shaft, 1" stroke; 25mm			10	

				
136. Handrail Support				2 3
136a. Handrail Coupling				2 3
137. Wheel Flange				1 3
138. Ship's Funnel				3 6

				
139. Flanged Bracket (right)			1 0	
139a. Flanged Bracket (left)			1 0	
140. Universal Coupling			4 3	

				
142c. Motor Tyre (to fit 2" diam. rim); 5cm			2 4	
142b. Motor Tyre (to fit 3" diam. rim); 7 1/2cm			3 11	
142a. Motor Tyre (to fit 1" diam. rim); 25mm			10	
142d. Motor Tyre (to fit 1 1/2" diam. rim); 38mm			1 6	
143. Circular Girder, 5 1/2" diam.; 14cm			4 6	
144. Dog Clutch			2 6	




142a. Motor Tyre (to fit 1" diam. rim); 25mm			10	
142b. Motor Tyre (to fit 3" diam. rim); 7 1/2cm			3 11	
142c. Motor Tyre (to fit 2" diam. rim); 5cm			2 4	
142d. Motor Tyre (to fit 1 1/2" diam. rim); 38mm			1 6	
143. Circular Girder, 5 1/2" diam.; 14cm			4 6	
144. Dog Clutch			2 6	

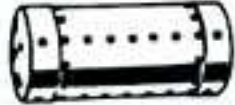

				
145. Circular Strip, 7 1/2" diam. overall; 19cm			3 6	
146. Circular Plate, 6" diam. overall; 15cm			3 9	
146a. Circular Plate, 4" diam. overall; 10cm			2 6	

145. Circular Strip, 7 1/2" diam. overall; 19cm			3 6	
146. Circular Plate, 6" diam. overall; 15cm			3 9	
146a. Circular Plate, 4" diam. overall; 10cm			2 6	

				
147. Pawl with Pivot Bolt and Nuts			1 9	
147a. Pawl			1 0	
147b. Pawl Bolt, with two Nuts			10	
147c. Pawl, without boss			5	
148. Ratchet Wheel			2 3	
151. Single Pulley Block			4 3	
153. Triple Pulley Block			5 3	
154a. Corner Angle Bracket, 1/2" (right-hand); 12mm			7	
154b. Corner Angle Bracket, 1/2" (left-hand); 12mm			7	
155. Rubber Ring (for 1" Pulley); 25mm			6	

147. Pawl with Pivot Bolt and Nuts			1 9	
147a. Pawl			1 0	
147b. Pawl Bolt, with two Nuts			10	
147c. Pawl, without boss			5	
148. Ratchet Wheel			2 3	
151. Single Pulley Block			4 3	
153. Triple Pulley Block			5 3	
154a. Corner Angle Bracket, 1/2" (right-hand); 12mm			7	
154b. Corner Angle Bracket, 1/2" (left-hand); 12mm			7	
155. Rubber Ring (for 1" Pulley); 25mm			6	

				
157. Fan, 2" diam.; 5cm			2 6	
160. Channel Bearing, 1 1/2" x 1" x 1/2"; 38 x 25 x 12mm			10	
161. Girder Bracket, 2" x 1" x 1/2"; 50 x 25 x 12mm			9	

				
162. Boiler, complete, 5" long x 2 1/4" diam. 12 1/2 x 5 cm			4 6	
162a. Boiler End 2 1/4" diam. x 1/2"; 50 x 19mm			1 5	
163. Sleeve Piece, 1 1/2" long x 1 1/4" diam.			10	
164. Chimney Adaptor, 1/2" diam. x 1/2" high 15 x 12mm			1 4	



165. Swivel Bearing	3 3
166. End Bearing	1 6
167a. Flanged Ring, 9 1/2" diam.; 25cm	8 6
168. Ball Thrust Race, 4" diam.; 10cm	6 9
168a. Ball Thrust Race, flanged disc, 3 1/2" diam.; 9 1/2cm	2 6
168b. Ball Thrust Race, toothed disc, 4" diam.; 10cm	2 6
168c. Ball Cage, 3 1/2" diam., complete with balls; 9cm	4 6
168d. Ball, 7/8" diam.; 9 1/2mm	4



171. Socket Coupling	3 11
173a. Adaptor for Screwed Rod	11
175. Flexible Coupling Unit	3 3
176. Anchoring Spring for Cord	7



179. Rod Socket	1 11
180. Gear Ring, 3 1/2" diam. (133 ext. teeth, 95 mt.) 9cm	4 3



185. Steering Wheel, 1 1/2" diam.; 4 1/2cm	1 11
187a. Steering Wheel, 2 1/2" diam.; 6cm	2 3

DRIVING BANDS

186. 2 1/2" (light); 6cm	3
186a. 6" (light); 15cm	5
186b. 10" (light); 25cm	7
186c. 10" (heavy); 25cm	9
186d. 15" (heavy); 37 1/2cm	1 1
186e. 20" (heavy); 50cm	1 4
187. Road Wheel, 2 1/2" diam.; 60mm	1 11
187b. Road Wheel, 4 1/2" diam.; 108mm	4 3
187c. Conical Disc, 1 1/4" diam.; 47mm	1 11

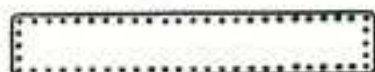


FLEXIBLE PLATES

188. 2 1/2" x 1 1/2"; 60 x 38mm	8
189. 5 1/2" x 1 1/2"; 140 x 38mm	1 0
190. 2 1/2" x 2 1/2"; 6 x 6cm	11
190a. 3 1/2" x 2 1/2"; 9 x 6cm	1 0
191. 4 1/2" x 2 1/2"; 11 1/2 x 6cm	1 2
192. 5 1/2" x 2 1/2"; 14 x 6cm	1 3

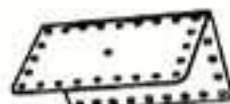
PLASTIC PLATES

193. 2 1/2" x 1 1/2" (Transparent); 60 x 38mm	7
193a. 2 1/2" x 2 1/2" (Transparent); 60 x 60mm	8
193b. 3 1/2" x 2 1/2" (Transparent); 90 x 60mm	10
193c. 4 1/2" x 2 1/2" (Transparent); 115 x 60mm	11
193d. 5 1/2" x 1 1/2" (Transparent); 140 x 38mm	9
193e. 5 1/2" x 2 1/2" (Transparent); 140 x 60mm	1 0
194. 2 1/2" x 1 1/2" (Black); 60 x 38mm	7
194a. 2 1/2" x 2 1/2" (Black); 60 x 60mm	8
194b. 3 1/2" x 2 1/2" (Black); 90 x 60mm	10
194c. 4 1/2" x 2 1/2" (Black); 115 x 60mm	11
194d. 5 1/2" x 1 1/2" (Black); 140 x 38mm	9
194e. 5 1/2" x 2 1/2" (Black); 140 x 60mm	1 0



STRIP PLATES

195. 7 1/2" x 2 1/2"; 19 x 6cm	1 9
196. 9 1/2" x 2 1/2"; 24 x 6cm	2 0
197. 12 1/2" x 2 1/2"; 32 x 6cm	2 6



198. Hinged Flat Plate, 4 1/2" x 2 1/2"; 11 1/2 x 6cm	3 0
199. Curved Plate, U Section, 2 1/2" x 2 1/2" x 1 1/2" radius; 60 x 60 x 7mm	11
200. Curved Plate, 2 1/2" x 2 1/2" x 1 1/2" radius; 60 x 60 x 43mm	11
201. Flexible Gusset Plate, 2 1/2" x 2 1/2"; 60 x 60mm	10



211a & 211b

212a

213

211a. Helical Gear, 3/8"; 12mm	Can only be used together } 1 ea.	11 9
211b. Helical Gear, 1 1/2"; 38mm		
212. Rod and Strip Connector		9
212a. Rod and Strip Connector, Right Angle		8
213. Rod Connector		7
213a. Three-way Rod Connector		11
213b. Three-way Rod Connector with boss		1 9



214

215

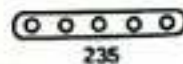
216

214. Semi-Circular Plate, 2 1/2"; 6cm	1 0
215. Formed Slotted Strip, 3"; 7 1/2cm	9
216. Cylinder, 2 1/2" long, 1 1/2" diam.; 60 x 30mm	1 9



TRIANGULAR FLEXIBLE PLATES

221. 2 1/2" x 1 1/2"; 60 x 38mm	9
222. 2 1/2" x 2 1/2"; 60 x 60mm	9
223. 2 1/2" x 2 1/2"; 60 x 60mm	10
224. 3 1/2" x 1 1/2"; 90 x 38mm	9
225. 3 1/2" x 2 1/2"; 90 x 60mm	10
226. 3 1/2" x 2 1/2"; 90 x 60mm	11



230

231

235

230. 4" Rod with Keyway; 10cm	11
231. Key Bolt	4
235. Narrow Strip, 2 1/2" x 1 1/2"; 60mm x 9mm	7
235a. Narrow Strip, 3" x 1 1/2"; 75mm x 9mm	8
235b. Narrow Strip, 3 1/2" x 1 1/2"; 90mm x 9mm	9
235d. Narrow Strip, 4 1/2" x 1 1/2"; 15mm x 9mm	9
235f. Narrow Strip, 5 1/2" x 1 1/2"; 40mm x 9mm	10

MECCANO BOOKS OF MODELS

1	1 3
2/3	1 9
4/5/6	4 3
7/8	6 9
9. Wallet with ten leaflets (see below?)	10 0
10. Wallet with 12 leaflets (see below?)	17 6
Gears Book	1 3
Book of Mechanisms	1 9
Elektrikit Manual	3 6
Junior Power Drive Manual	2 3
Power Drive Manual	2 3
1 No. 9 Special Model Leaflets	
9/1. Fire Escape	10
9/2. Wharf Crane	10
9/3. Fork Lift Truck	10
9/4. Giant Dragline Excavator	10
9/5. High Speed Press	10
9/6. Bascule Bridge	10
9/7. Robot or Mechanical Man	10
9/8. Freight Plane	10
9/9. Car and Caravan	10
9/10. Articulated Lorry	10
1 No. 10 Special Model Leaflets	
1. Railway Service Crane	1 3
2. Sports Car	1 3
3. Coal Tipper	1 0
4. Cargo Ship	1 3
5. Double Deck Bus	1 3
6. Lifting Shovel	1 3
7. Block Setting Crane	1 3
8. Beam Bridge	1 3
9. Dumper Truck	1 0
10. Automatic Gantry Crane	1 3
11. Automatic Snow Loader	1 6
12. 4-4-0 Locomotive and Tender	1 6
13. Combine Harvester	1 6
14. Eiffel Tower	1 0
15. Snowman's Traction Engine	1 3
16. Twin Cylinder Motor Cycle Engine	1 3
17. Trench Digger	1 3
18. Bottom Dump Truck	1 6
19. Road Surfacing Machine	1 6
20. Mechanical Loading Shovel	1 3