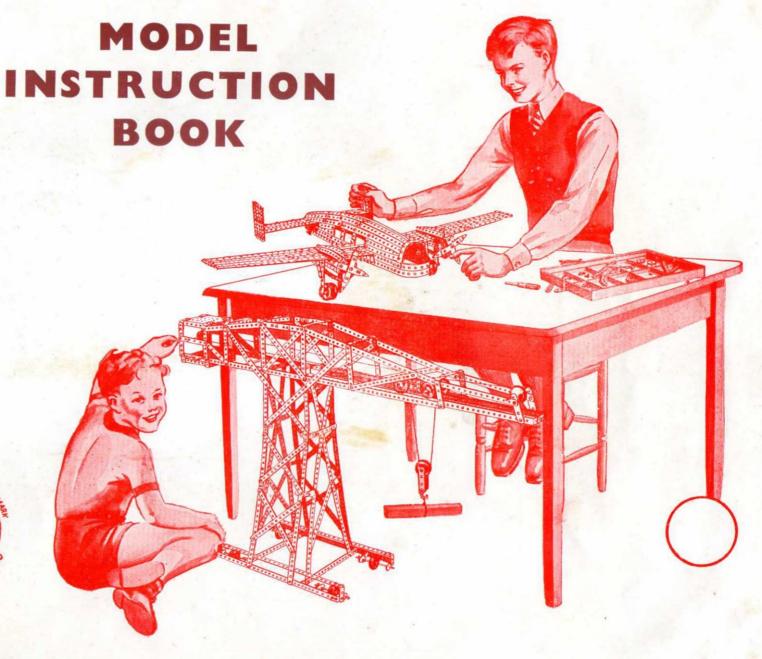


MINIATURE ENGINEERING FOR BOYS

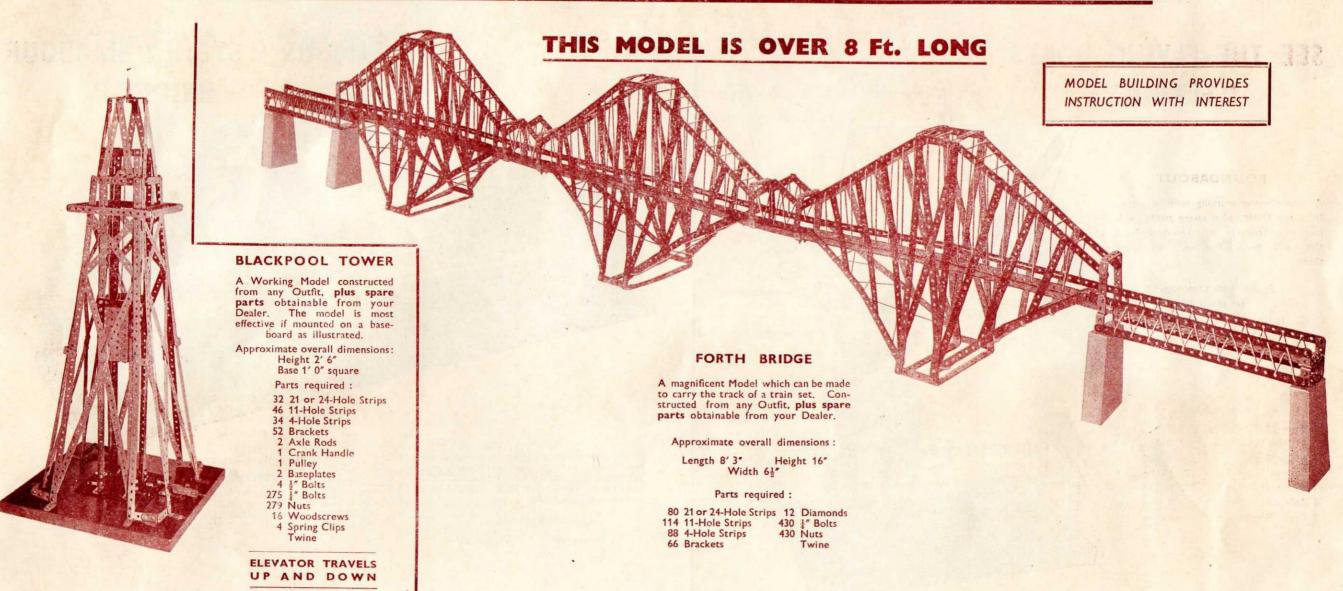
EDUCATION WITH INTEREST





MADE IN ENGLAND

MODEL BUILDERS - AHOY!



MODEL BUILDERS-GET READY

SEE THE FLYING BOATS "FLYING"

ROUNDABOUT

A most effective working model constructed from any Outfit, plus spare parts available from your Dealer. It is recommended that this model be mounted on a baseboard as shown.

Approximate Dimensions : (as illustrated)

Height 18" Length 12"
Width 7"

Parts required:

6 21 or 24-Hole Strips 2 I

35 11-Hole Strips

36 4-Hole Strips 54 Brackets

8 Diamonds

1 Axle Rod 1 Crank Handle 2 Pulleys

1 Rubber Wheel

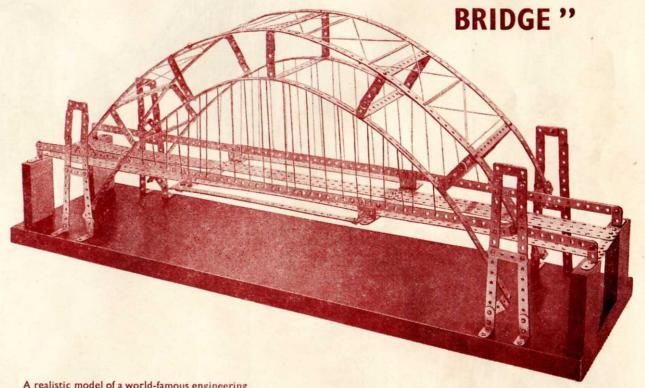
6 ½" Bolts 176 ½" Bolts

182 Nuts

3 Spring Clips Twine

A .. WORKING MODEL

THE FAMOUS "SYDNEY HARBOUR BRIDGE"



A realistic model of a world-famous engineering feat. Can be built from any Outfit, plus spare parts available from your Dealer. The model looks most effective if mounted on a baseboard as illustrated.

Approximate Dimensions:

Height 14" Length 36" Width 10"

Parts required:

38 21 or 24-Hole Strips 24 11-Hole Strips

18 4-Hole Strips

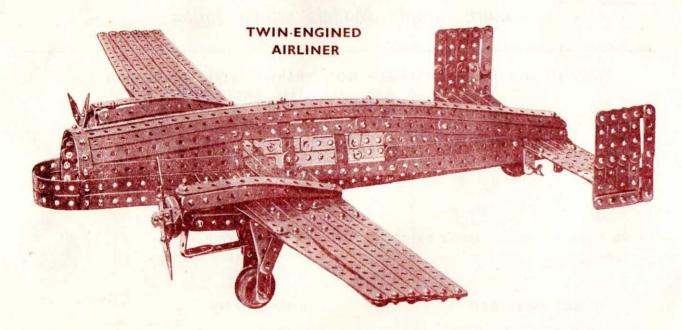
50 Brackets

8 Angles 110 4" Bolts

110 Nuts 8 Woodscrews Twine

MODEL BUILDERS-STEADY

"WHAT A BEAUTY"



This fine model illustrates the beautiful streamlined effects which can be obtained by curving the strips. Can be constructed from any Outfit, plus spare parts available from your Dealer.

> Approximate Dimensions: Length 28" Wingspan 20"

Height 6"

Parts required:

34 21 or 24-Hole Strips 3 Axle Rods

41 11-Hole Strips

68 4-Hole Strips 11 1 Bolts

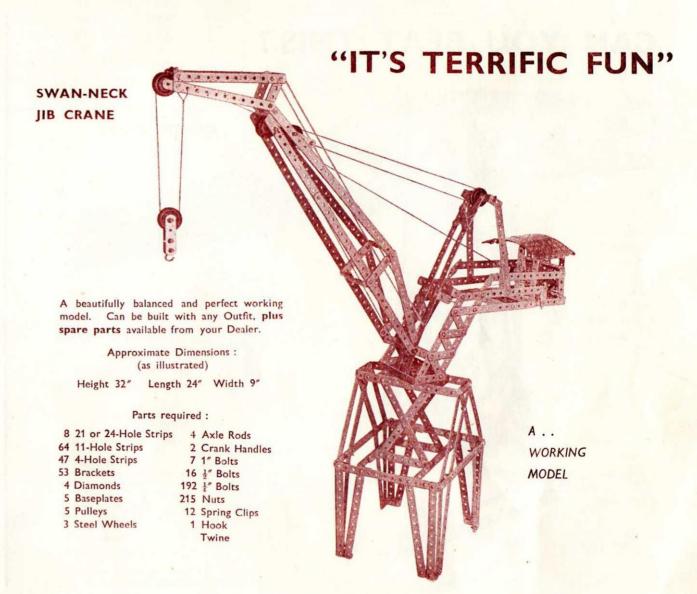
49 Brackets

285 1" Bolts

1 1" Bolt

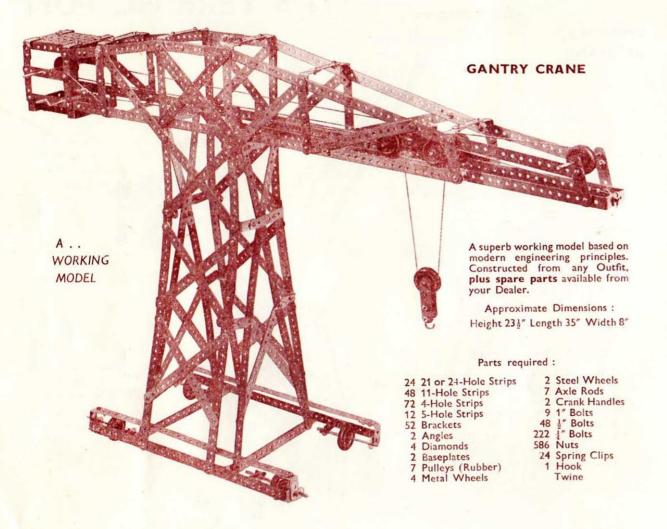
10 Angles 8 Diamonds 297 Nuts 6 Spring Clips

7 Rubber Wheels



MODEL BUILDERS—GO-

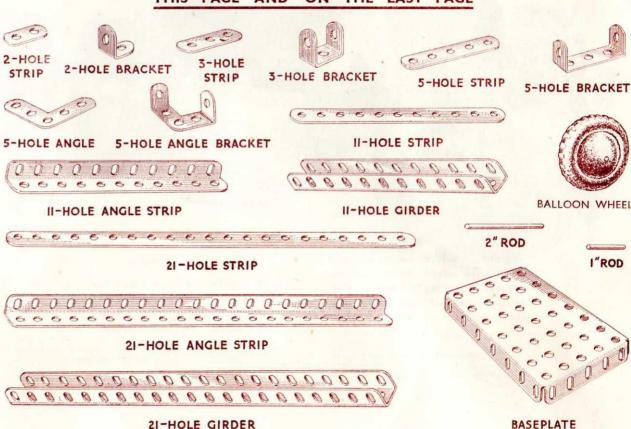
CAN YOU BEAT THIS?



YOU HAVE NOW SEEN SOME OF THE GRAND WORKING MODELS

YOU can easily build them after you have practised on the more simple Models which follow.

FIRST OF ALL MAKE YOURSELF CONVERSANT WITH SPARE PARTS ON THIS PAGE AND ON THE LAST PAGE



BASEPLATE

The suggestions in this booklet are just a few of the unlimited number of fascinating models which you can make.

Even if you have one of the larger outfits, start by making up some of the smaller models. In this way you will gain experience in model construction which will help you when you pass on to the larger ones.

Once you have mastered the general principles, you will have no difficulty in "thinking out" new models, and you will quickly find model-making a fascinating hobby.

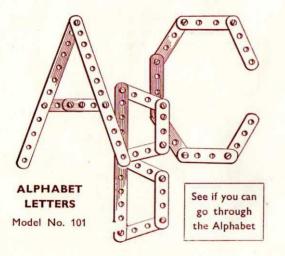
If you make a habit of adding a few parts every week or so-whatever the size of your outfit, you will soon be able to build whatever you wish. As you look through this booklet you will see photographs of some magnificent working models which have been built in this way.

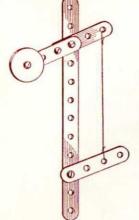
The models below illustrated can all be built very easily, and with practice you will soon become proficient.

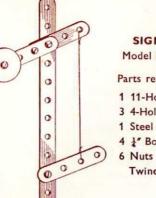
The number and complexity of models can be increased to keep pace with your advancing ingenuity.

CONSTRUCTORS NOTE.

If Spring Clips have a tendency to "Slip" on the Axle Rods and Crank Handles, this can be overcome by inserting a small piece of paper between the Clip and the Rods. Clips that are tight or "strong" can be pressed on with screwdriver blade. 21-Hole Strips can be extended to 24-Hole by attaching a 4-Hole Strip.





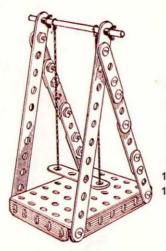




3 4-Hole Strips 1 Steel Wheel

4 1" Bolts

Twine



SWING

Model No. 103

Parts required:

1 Baseplate

2 11-Hole Strips

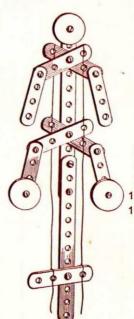
9 4-Hole Strips

1 Axle Rod 4 Spring Clips

14 1" Bolts

14 Nuts

Twine



MONKEY-ON-A-STICK

Model No. 104

Parts required:

2 11-Hole Strips

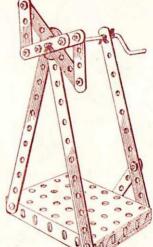
9 4-Hole Strips

3 Steel Wheels

10 1" Bolts

19 Nuts

Twine



WINDMILL

Model No. 105

Parts required:

1 Baseplate

3 11-Hole Strips

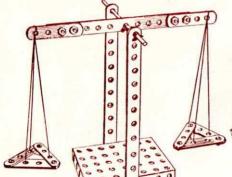
7 4-Hole Strips 1 Crank Handle

1 Steel Wheel

11 1" Bolts

11 Nuts

4 Spring Clips



SCALES

Model No. 106

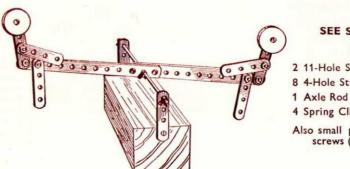
Parts required:

4 Spring Clips

3 11-Hole Strips 14 1" Bolts

10 4-Hole Strips 14 Nuts 1 Axle Rod

1 Baseplate



SEE SAW Model No. 107

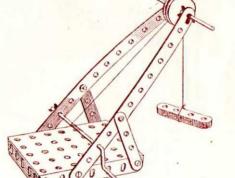
Parts required:

2 11-Hole Strips 2 Steel Wheels 8 4-Hole Strips 10 1" Bolts

10 Nuts

4 Spring Clips

Also small piece of wood and 2 wood screws (not included in Outfit).



CRANE

Model No. 108

Parts required:

1 Baseplate

2 11-Hole Strips

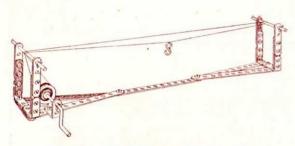
2 4-Hole Strips 1 Axle Rod

1 Crank Handle

2 Steel Wheels

6 1" Bolts 6 Nuts

6 Spring Clips Twine



AERIAL ROPEWAY Model No. 201

Parts required:

5 11-Hole Strips

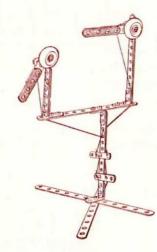
1 Crank Handle 25 Nuts 9 4-Hole Strips

1 Rubber Pulley 6 Brackets 24 1" Bolts

6 Spring Clips 1 Hook

2 Axle Rods 1 1" Bolt

Twine



RAILWAY SIGNAL

Model No. 202

Parts required:

5 11-Hole Strips 9 4-Hole Strips

6 Brackets

2 Rubber Wheel

24 1" Bolts 7 1" Bolts

35 Nuts Twine



SWING

Model No. 203

Parts required:

4 11-Hole Strips

9 4-Hole Strips 6 Brackets

1 Axie Rod 22 ¼" Bolts 6 ½" Bolts

28 Nuts

2 Spring Clips Twine

1 Rubber Pulley 15 1" Bolts

6 Brackets 6 4" Bolts 1 Axle Rod 25 Nuts

2 11-Hole Strips

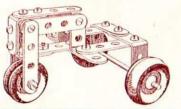
8 4-Hole Strips

2 Rubber Wheels 2 Spring Clips

MORGAN THREE-WHEEL CAR

Model No. 204

Parts required:



LIGHT TRACTOR Model No. 205

Parts required :

9 4-Hole Strips

6 Brackets 2 Rubber Wheels

1 Rubber Pulley

15 1" Bolts 2 1" Bolts

19 Nuts

2 Spring Clips

1 Axle Rod



CATALINA FLYING BOAT

Model No. 206

Parts required:

9 4-Hole Strips 4 Brackets

19 1" Bolts 3 1" Bolts 25 Nuts



PUSHCAR

Model No. 207

Parts required:

2 11-Hole Strips 9 4-Hole Strips

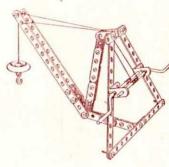
6 Brackets

2 Axle Rods 2 Rubber Wheels

18 !" Bolts

2 i Bolts 20 Nuts

4 Spring Clips



DERRICK CRANE

Model No. 208

Parts required:

5 11-Hole Strips 9 4-Hole Strips 5 Brackets 2 Crank Handles 1 Rubber Wheel

18 1" Bolts 6 4" Bolts

31 Nuts

4 Spring Clips 1 Hook Twine



MOBILE CRANE Model No. 209

Parts required: 4 11-Hole Strips

9 4-Hole Strips 6 Brackets

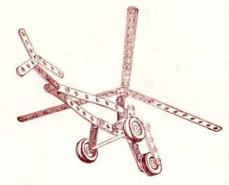
3 Axle Rods 1 Crank Handle

2 Rubber Wheels 1 Rubber Pulley

16 1" Bolts 1 1 Bolt

17 Nuts

6 Spring Clips 1 Hook Twine



4 11-Hole Strips

HELICOPTER

Model No. 210

Parts required:

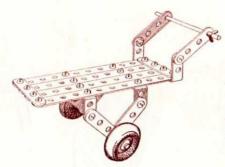
5 11-Hole Strips 9 4-Hole Strips

5 Brackets 1 Axle Rod

2 Rubber Wheels 1Rubber Pulley

7 1" Bolts 10 1 Bolts

28 Nuts 2 Spring Clips



HAND CART

Model No. 211

Parts required:

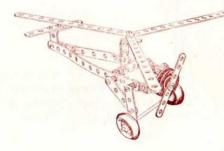
4 11-Hole Strips 8 4-Hole Strips

6 Brackets

2 Axle Rods 2 Rubber Wheels

22 4" Bolts 22 Nuts

4 Spring Clips



AUTOGYRO

Model No. 212

Parts required:

5 11-Hole Strips 9 4-Hole Strips

6 Brackets 1 Axle Rod

2 Rubber Wheels

1 Rubber Pulley 11 1 Bolts

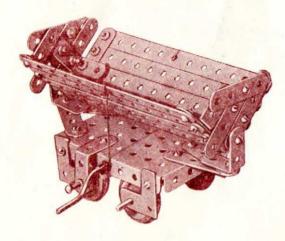
6 ½" Bolts 27 Nuts

2 Spring Clips

SUGGESTIONS FOR MORE ADVANCED MODEL BUILDING

The illustrations show a number of interesting working models which have been designed for older boys. The inventive child will get real enjoyment from planning and building many others.

Although a large variety of models can be constructed without any additional parts or tools whatever, the scope of your outfit can naturally be increased by adding new parts from time to time.

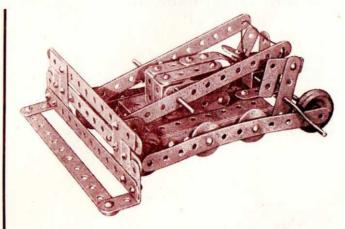


SIDE-TIP TRUCK

Model No. 301

Parts required:

- 1 Baseplate 8 11-Hole Strips 14 4-Hole Strips 1 Crank Handle
- 2 Axle Rods
- 4 3-Hole Angles 4-Hole Brackets
- 4 Rubber Wheels
- 2 Spring Clips 31 ½" Bolts 5 ½" Bolts
- 37 Nuts Twine

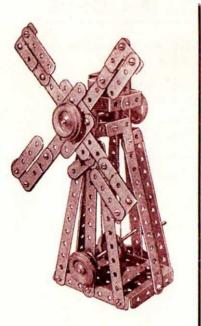


BULLDOZER

Model No. 302

Parts required

- 1 Baseplate 10 11-Hole Strips 11 4-Hole Strips 1 Crank Handle
- 3 Axle Rods 6 3-Hole Angles
- 12 4-Hole Brackets
- 4 Rubber Wheels 5 Steel Wheels
- 4 Spring Clips 43 ½" Bolts
- 1 1" Bolt 58 Nuts



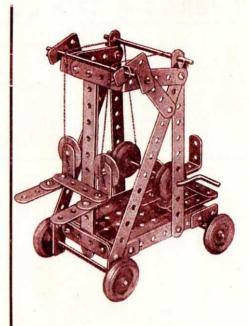
SNOW SHIFTER

Model No. 304

Parts required:

- 1 Baseplate
- 10 11-Hole Strips
- 18 4-Hole Strips
- 1 Crank Handle
- 4 Axle Rods
- 6 3-Hole Angles
- 12 4-Hole Brackets
- 4 Rubber Wheels
- 6 Steel Wheels
- 11 Spring Clips 42 1" Bolts
- 7 1" Bolts
- 57 Nuts

Twine



WINDMILL

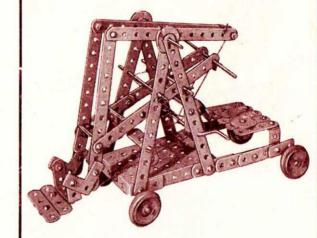
Model No. 303

Parts required:

- 1 Baseplate
- 10 11-Hole Strips 18 4-Hole Strips 1 Crank Handle

- 1 Axle Rod 6 3-Hole Angles 12 4-Hole Brackets
- 2 Rubber Pulleys
- 4 Rubber Wheels
- 2 Steel Wheels

- 1 Spring Clip
 41 ½" Bolts
 4 ½" Bolts
 4 ½" Bolts
- Twine



AUTOMATIC STACKER

Model No. 305

Parts required:

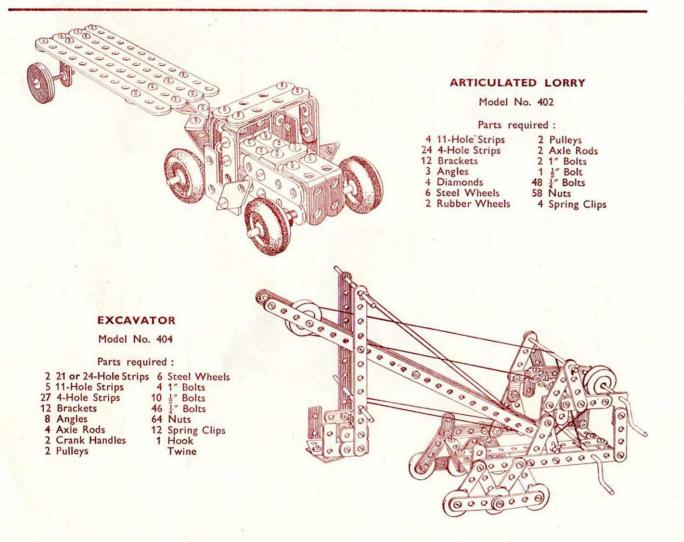
- 1 Baseplate 6 11-Hole Strips 15 4-Hole Strips 1 Crank Handle

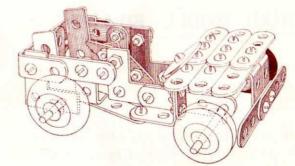
- 4 Axle Rods
- 6 3-Hole Angles
- 7 4-Hole Brackets
- 4 Rubber Wheels
- 3 Steel Wheels
- 2 Rubber Pulleys
- 4 Spring Clips
- 27 1" Bolts 8 1" Bolts
- 40 Nuts
- Twine

THERE'S A THRILL BUILDING THESE MODELS

There is virtually no limit to the number of fascinating models which these Outfits will build.

They provide a constant source of enjoyment to any boy interested in this grand hobby. It is a good idea to make a habit of adding a few parts at regular intervals, so that the more complicated models, such as large Bridges, Cranes, etc.. can soon be brought within the range of your outfit.





JEEP

Model No. 401

Parts required:

2 Rubber Wheels
2 Pulleys
3 1 Bolts
37 1" Bolts
44 Nuts
4 Spring Clips

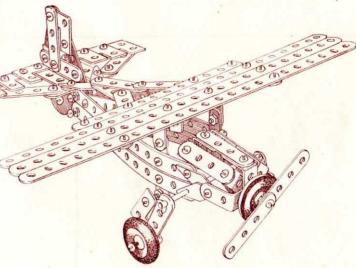
"RELIANT" CABIN MONOPLANE

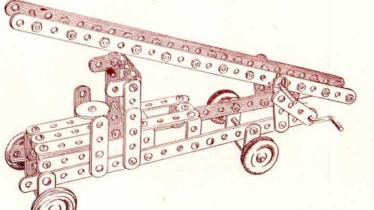
Model No. 403

Parts required:

			and the second s	
	3	21 or 24-Hole	2	Rubber Wheels
		Strips	1	Pulley
	5	11-Hole Strips	7	1" Bolts
		4-Hole Strips		1" Bolt or 6 1" E
	12	Brackets	53	1" Bolts OF 48 1" E

12 Angles 78 Nuts
6 Diamonds 1 Axle Rod
1 Steel Wheel 2 Spring Clips



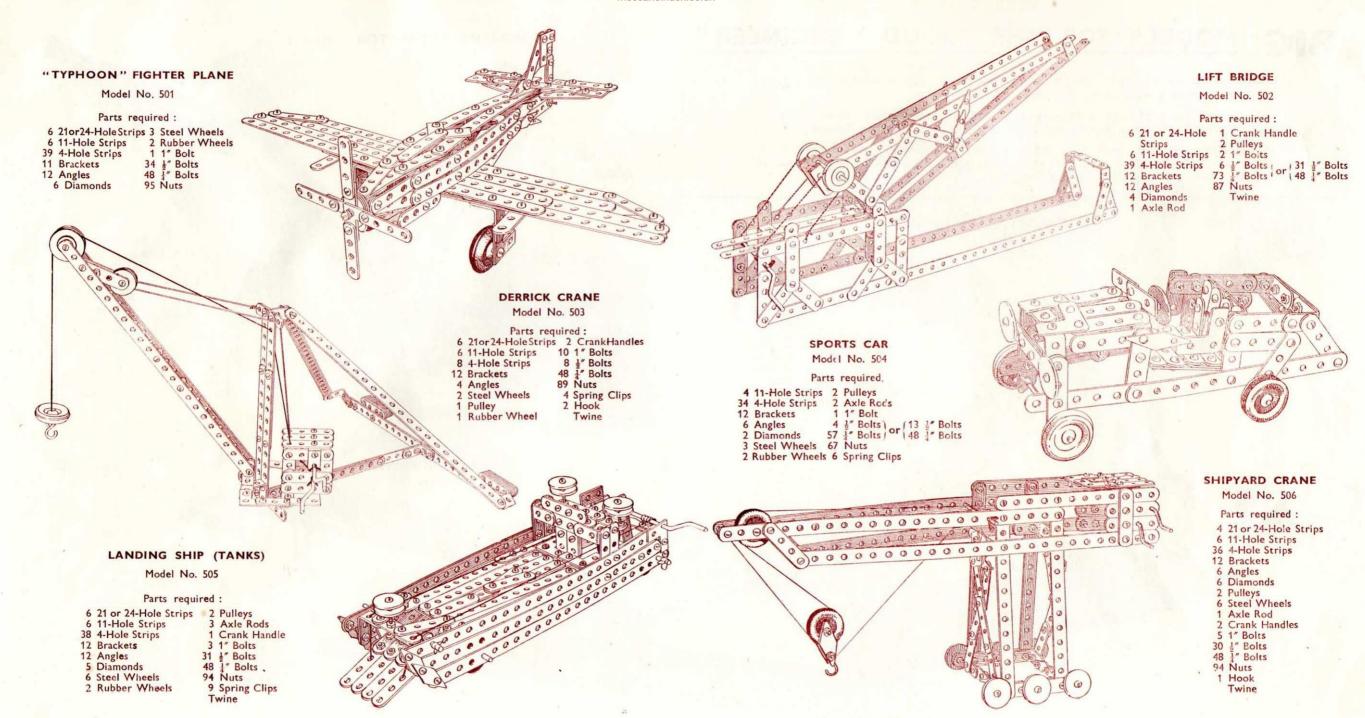


FIRE-ENGINE

Model No. 405

Parts required:

2	21 or 24-Hole Strips	2	Rubber Wheel
4	11-Hole Strips		Pulleys
20	4-Hole Strips		1" Bolts
12	Brackets	40	1" Bolts
1	Steel Wheel	76	Nuts
3	Axle Rods	10	Spring Clips
1	Crank Handle		Twine

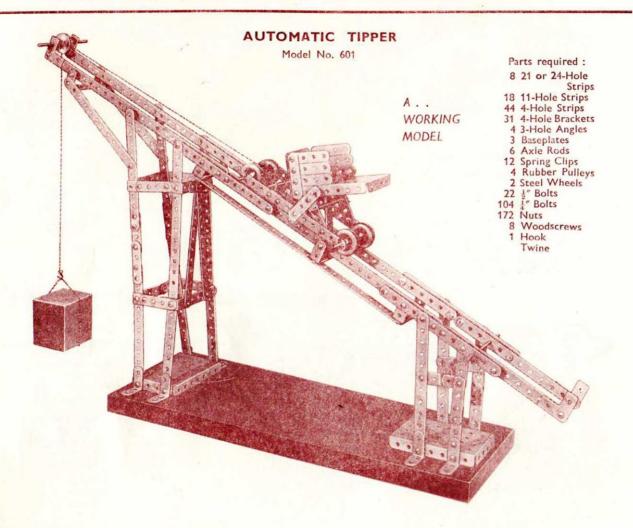


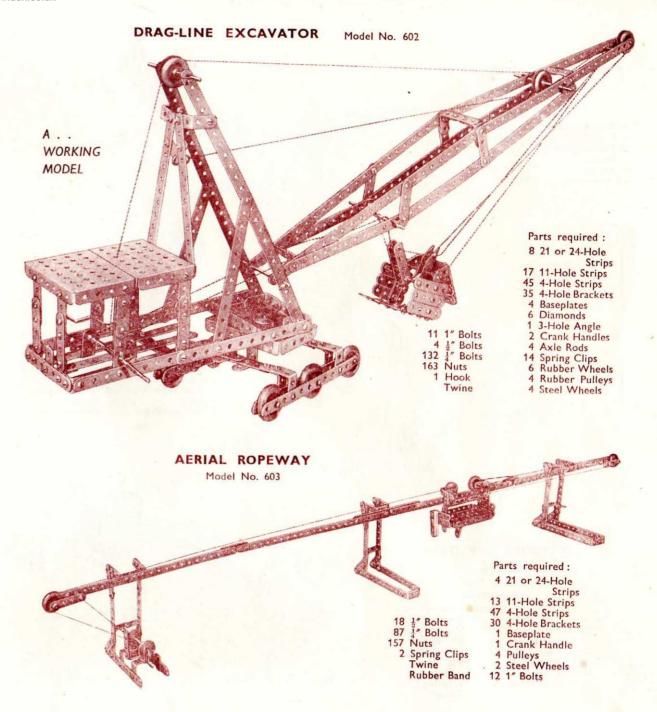
MODELS FOR THE PROUD "ENGINEER"

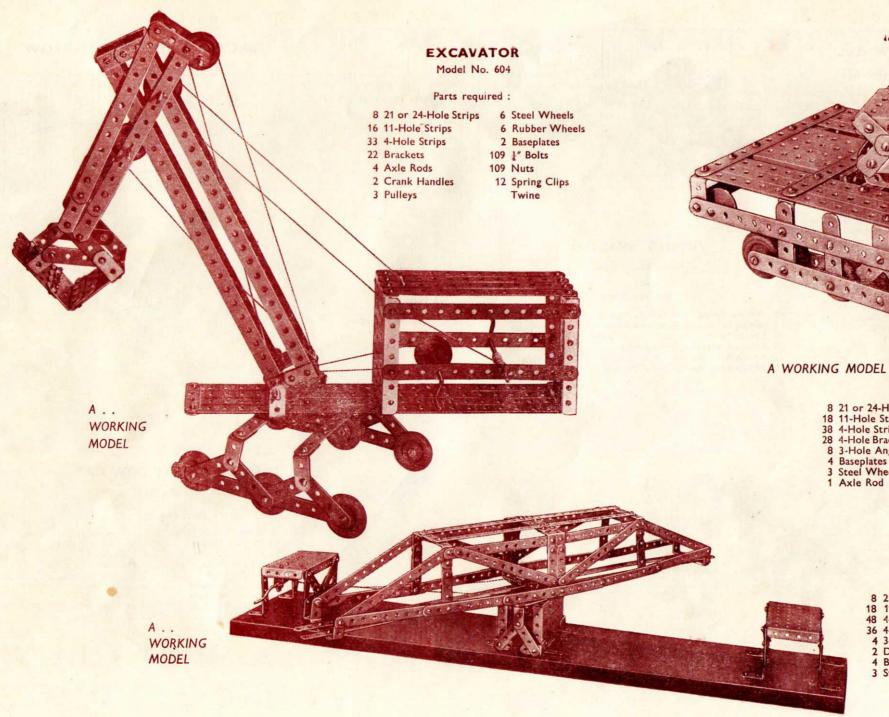
A glance at the many photographs in this booklet will indicate what a wide variety of most interesting working models can be constructed.

All the parts are of high quality, giving a realism and rigidity to the models, and this is a big factor in making this grand hobby of such absorbing interest.

The addition of extra parts from time to time, as required, makes it possible to construct lifelike working models of any suitable subjects, so that there are virtually no restrictions on imagination or inventiveness.

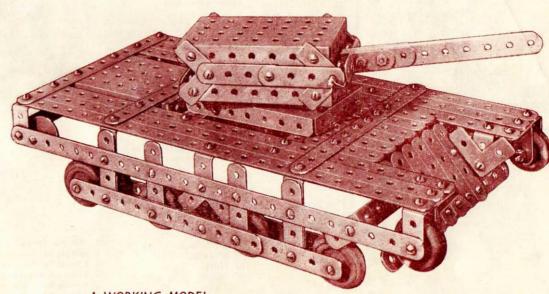






"CRUSADER" TANK

Model No. 605



Parts required:

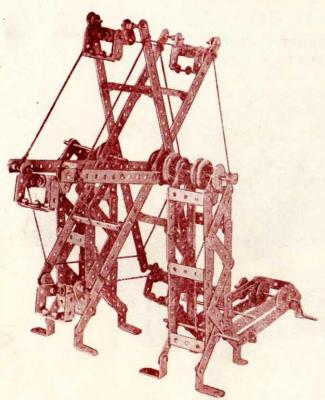
4 Spring Clips
6 Rubber Wheels
4 Rubber Pulleys
12 1" Bolts
8 ½" Bolts
92 ¼" Bolts
127 Nuts 8 21 or 24-Hole Strips
18 11-Hole Strips
38 4-Hole Strips
28 4-Hole Brackets
8 3-Hole Angles
4 Baseplates
3 Steel Wheels
1 Axle Rod

SWING BRIDGE

Model No. 606

Parts required:

8 21 or 24-Hole Strips 1 Crank Handle
18 11-Hole Strips 2 Spring Clips
48 4-Hole Strips 1 1" Bolt
36 4-Hole Brackets 128 \(\frac{1}{2}\)" Bolts
4 3-Hole Angles 130 Nuts
2 Diamonds 12 Woodscrews
4 Baseplates Twine
3 Steel Wheels



BIG WHEEL

Model No. N.701

Parts required:

6 21 or 24-Hole Strips

4 11-Hole Strips

26 5-Hole Strips 36 4-Hol Strips 16 3-Hole Strips 12 2-Hole Strips 13 5-Hole Brackets 12 4-Hole Brackets

12 2-Hole Brackets

4 5-Hole Angles 16 5-Hole Angle Brackets

4 Axle Rods

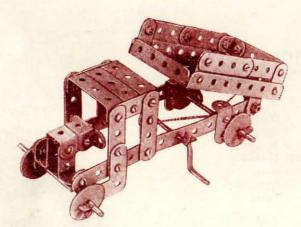
1 Crank Handle 2 Rubber Pulleys 2 Rubber Wheels

6 Steel Wheels 6 1" Bolts

6 1" Bolts 144 1" Bolts

167 Nuts 11 Spring Clips

Twine



TIPPING WAGON

Model No. AN.702

Parts required:

2 11-Hole Strips 4 5-Hole Ang 9 5-Hole Strips 4 4-Hole Ang 4 2-Hole Strips Bra 5 5-Hole Brackets 2 Axle Rods

4 5-Hole Angles 4 4-Hole Angle Brackets

2 3-Hole Brackets 1 Crank Handle 2 2-Hole Brackets 5 Steel Wheels

6 Spring Clips 1 Baseplate 40 ¼" Bolts

40 Nuts Twine

TRACTOR WITH DISC HARROW

Model No. AN.703

Parts required:

10 4-Hole Strips 5 5-Hole Strips 2 3-Hole Strips 2 2-Hole Strips 11 5-Hole Brackets 6 4-Hole Brackets 3 3-Hole Brackets

8 5-Hole Angle

Brackets 5 Rubber Wheels 4 Steel Wheels

2 Rubber Pulleys

3 Axle Rods

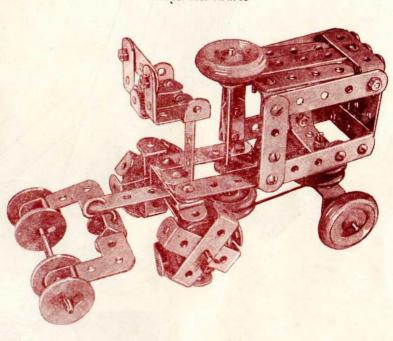
10 Spring Clips 2 1" Bolts

2 1" Bolts

31 1" Bolts

33 Nuts

1 Hook Twine



MERRY-GO-ROUND

Model No. AN.704

Parts required:

4 11-Hole Strips 8 5-Hole Strips 8 4-Hole Strips 4 3-Hole Strips 9 2-Hole Strips 4 4-Hole Brackets

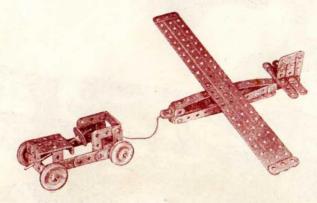
4 3-Hole Brackets 11 2-Hole Brackets

10 5-Hole Angles 8 5-Hole Angle Brackets

2 Rubber Wheels 1 Crank Handle

1 Spring Clip 68 4" Bolts

68 Nuts



GLIDER WITH TOW CAR

Model No. AN.705

Parts required:

3 21 or 24-Hole Strips 4 11-Hole Strips 11 4-Hole Strips 3 3-Hole Strips 1 2-Hole Strip 8 5-Hole Brackets 4 4-Hole Brackets

2 3-Hole Brackets

8 2-Hole Brackets 5 5-Hole Angles

1 5-Hole Angle Bracket

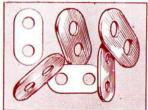
3 Axle Rods 2 Pulleys 2 Rubber Wheels

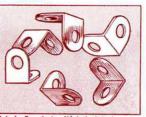
2 Spring Clips 3 ½" Bolts 40 ¼" Bolts

48 Nuts

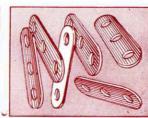
Twine

INTERCHANGEABLE SPARE PARTS



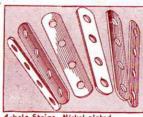




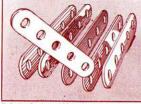






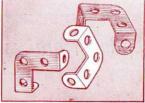






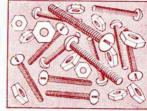






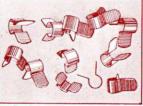






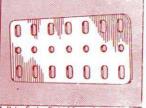


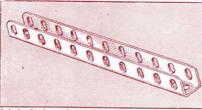




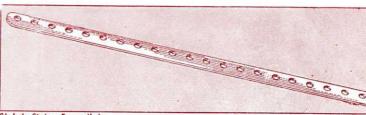
Spring Clips, blued.



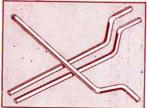


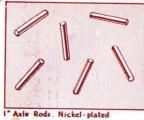


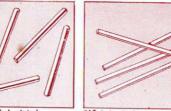
II-hole Girders, Enamelled

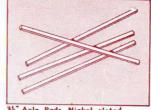


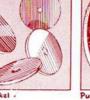
21- hole Strips. Enamelled

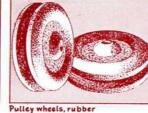






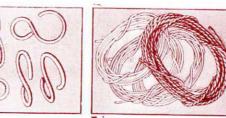












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