

MECCAN

TRADE MARKS 296321, 501113, 76, 12633, 10274, 55/13476, 569/13, 884/25, 2913, 80, 124, 336, 4174, 91637, 83171, 157149, 32822, 200639, 209733, 214061, 214062, 12892, 29094, 33316, 1818, 16737, 383/13, 5848, 50204, 10/12258, 22826, 18982, 20063/925, 9048, 5549, 2189, 16900, 72286, 2389, 41812, 5403, 7315, 18066, 139420, 494933-4-5-6, 29041, 26877, 6595, 404718, 410379, 55096, 12240, 41234, 8223, 1855.

HORNBY'S ORIGINAL SYSTEM-FIRST PATENTED 1901

INSTRUCTIONS

FOR OUTFITS

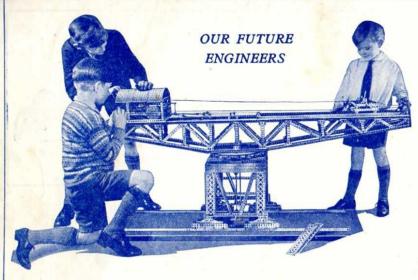
No. 00



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No. 34.00

ENGLISH EDITION



A TALK WITH NEW MECCANO BOYS

The Meccano No. 000 and 00 Outfits are the first steps in the Meccano system. After you have made all the models shown in this Manual you will want to build bigger models and you may do this by adding new parts to your Outfit or, by purchasing a No. 00A Accessory Outfit, you may convert your No. 00 into a No. 0. You will then be able to build many more models, including larger and better Cranes, Bridges, Wagons, Trucks, Windmills etc.

HOW TO BUILD WITH MECCANO

First build the models exactly as they are illustrated in the Manual, and then take each model and try to improve on our design. Every one can be made in a dozen different ways. Screw up all the nuts and bolts tightly to ensure that your models will be strong and firm when they are completed.

MECCANO ACCESSORY OUTFITS

It is important to remember that each Outfit (with the exception of Outfit No. 000) may be converted into the one next higher by means of an Accessory Outfit Your No. 00 Outfit is converted into a No. 0 by adding to it a No. 00a. A No. 0a will then convert it into a No. 1 and so on. As you progress in Meccano you obtain a greater variety of perfectly-made engineering parts—Gear Wheels, Pulley Wheels, Worm Wheels, Couplings, Cranks, and many others. These enable you to construct complicated mechanical movements without any difficulty. The most wonderful feature about Meccano is that it is real engineering: it is a fascinating and delightful hobby, and yet so simple that even an inexperienced boy may join in the fun without first having to study or learn anything.

THE LIFE OF A MECCANO BOY

A Meccano boy is the happiest boy in the world. He builds models from the Meccano Instruction books; invents new models; enters the Competitions which are always being held in connection with the hobby; joins the Meccano Guild and a Meccano Club, and by wearing the Guild badge proclaims himself to be the friend of millions of other Meccano boys all over the world. Time never hangs heavily on his hands and he is too busy and too happy to grumble. He reads the "Meccano Magazine" regularly and corresponds with his friend the Editor when he feels like it.

If you are not already a reader of the "Meccano Magazine" write to the Editor, Binns Road, Liverpool 13, England, for full particulars of the current subscription

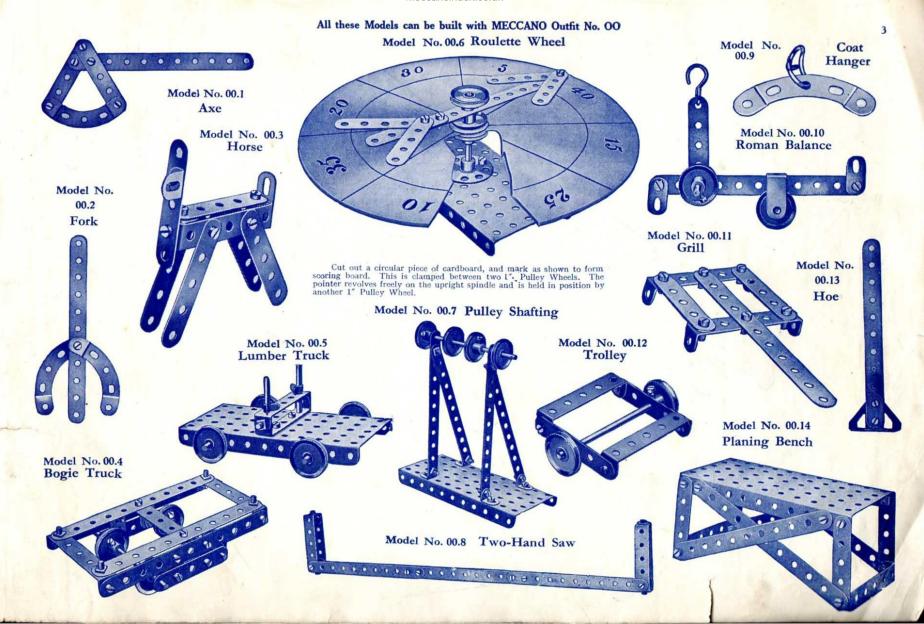
rates. If you prefer to do so, you may order the Magazine from your Meccano dealer or from any newsagent or bookstall.

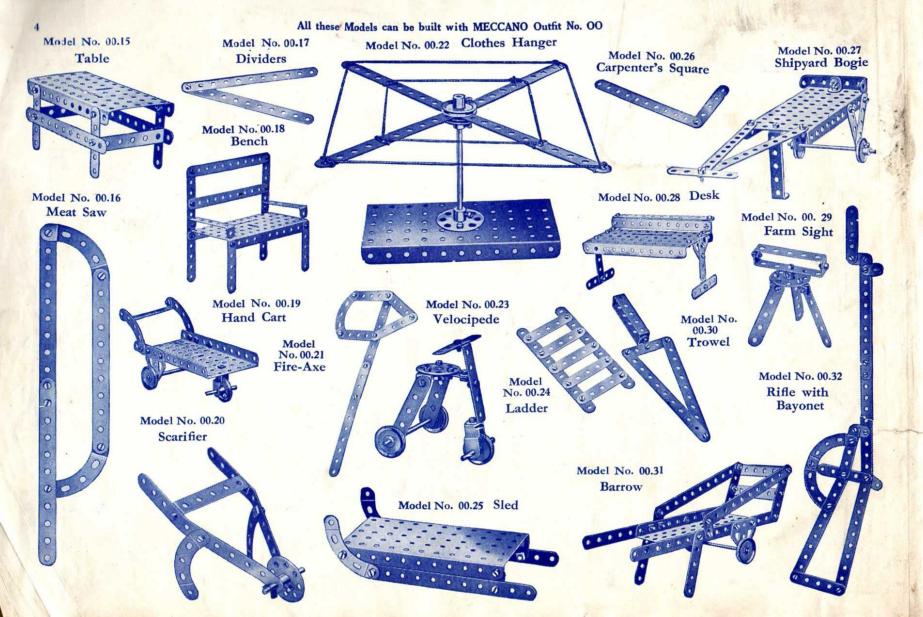
MECCANO SERVICE

The service of Meccano does not end with selling an Outfit and an Instruction Manual. When you want to know something more about engineering than is now shown in our books, or when you strike a tough problem of any kind, write to us. We receive over 200 letters from boys every day all the year round. Some write to us because they are in difficulty, others because they want advice on their work or pleasures, or about their choice of a career. Others, again, write to us just because they like to do so and we are glad to know that they regard us as their friends.

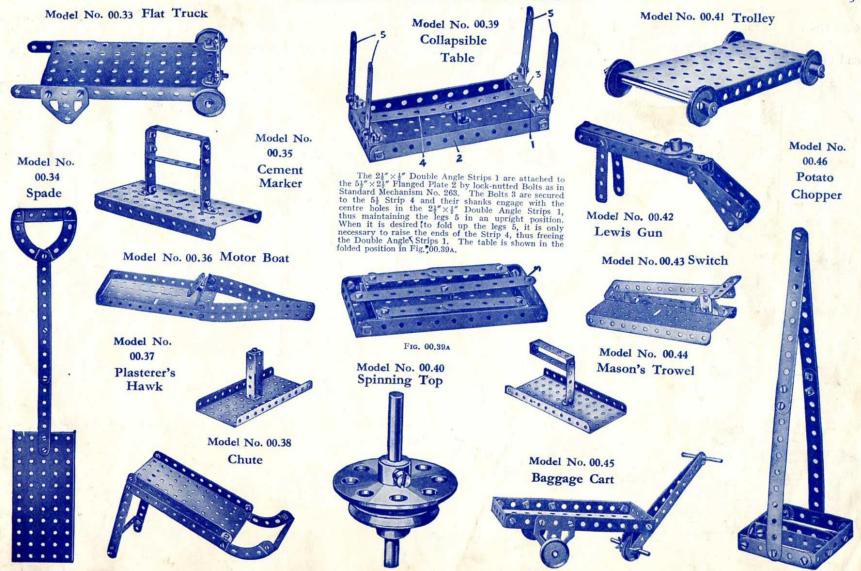
Although all kinds of queries are put to us on all manner of subjects, the main interest is, of course, engineering. No one has such a wonderful knowledge of

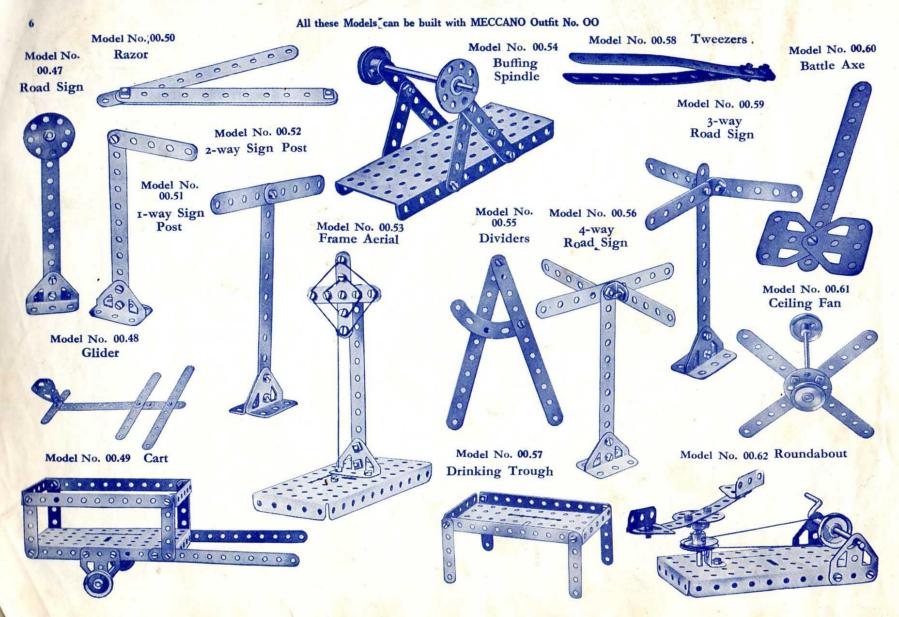
engineering matters as that possessed by our staff of experts. This vast store of knowledge, gained only by hard-earned experience, is at your service.

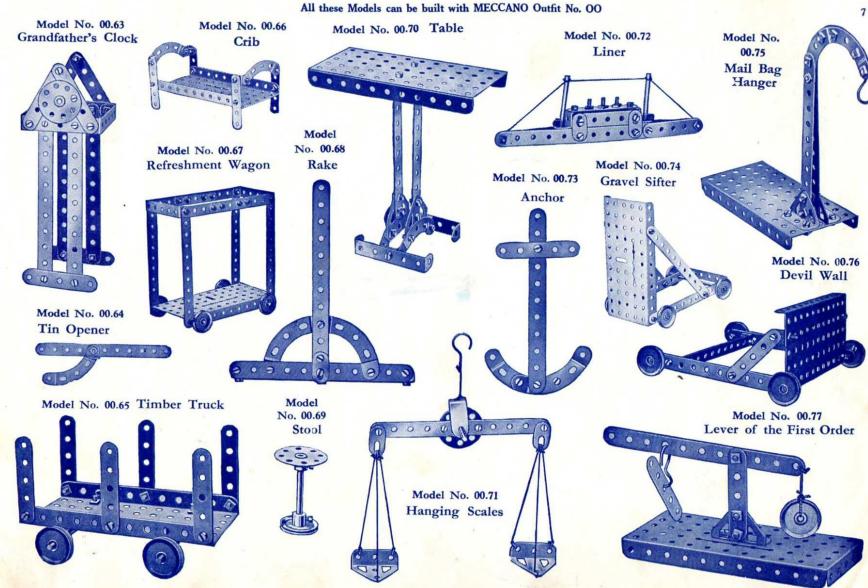


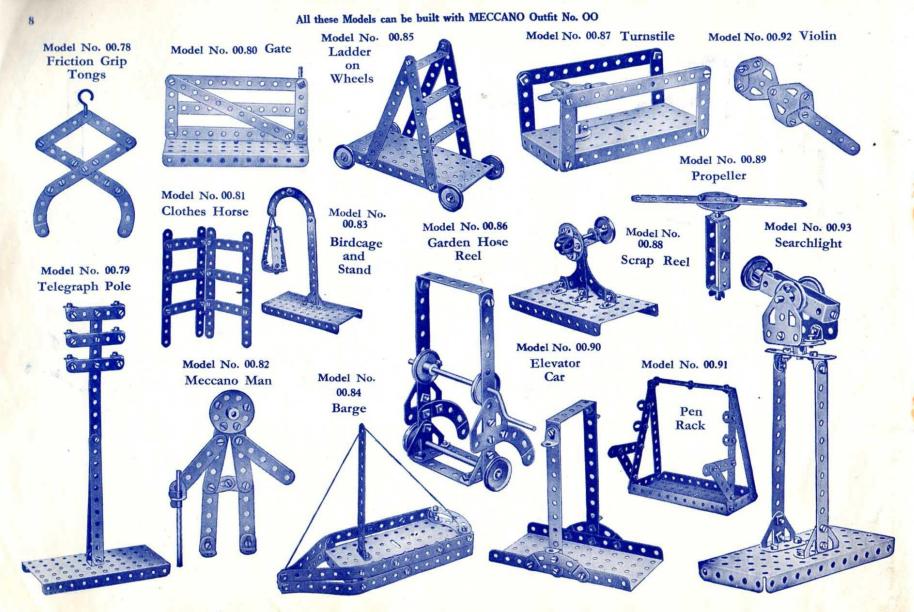


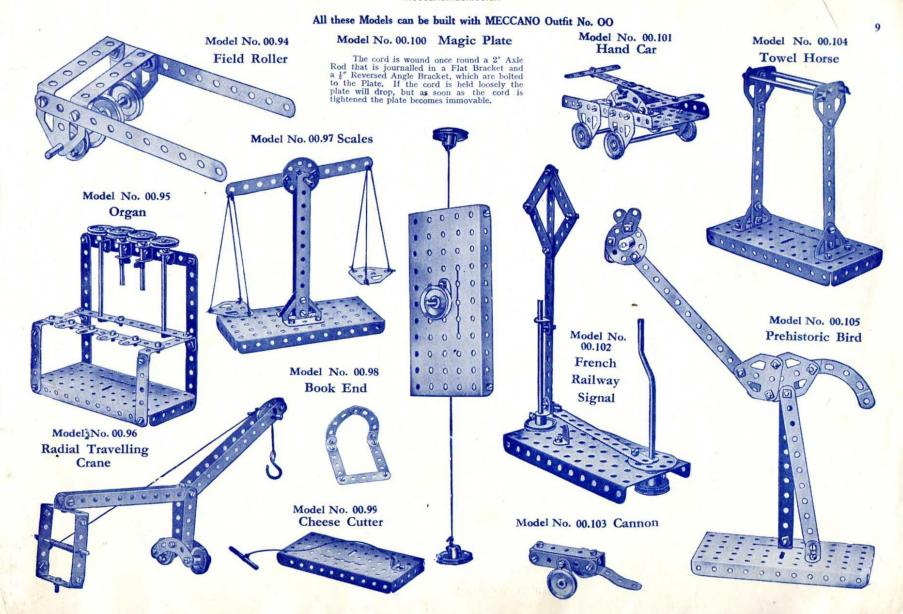
All these Models can be built with MECCANO Outfit No. CO



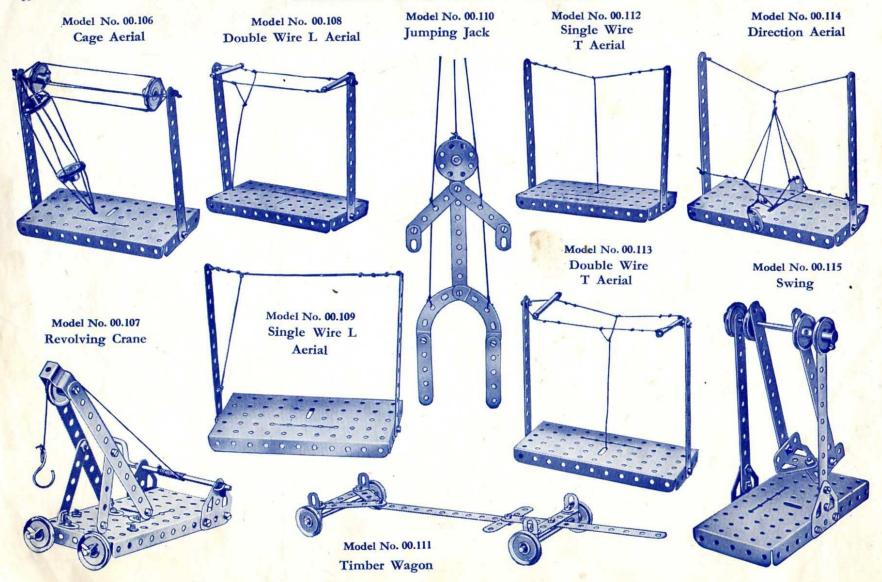


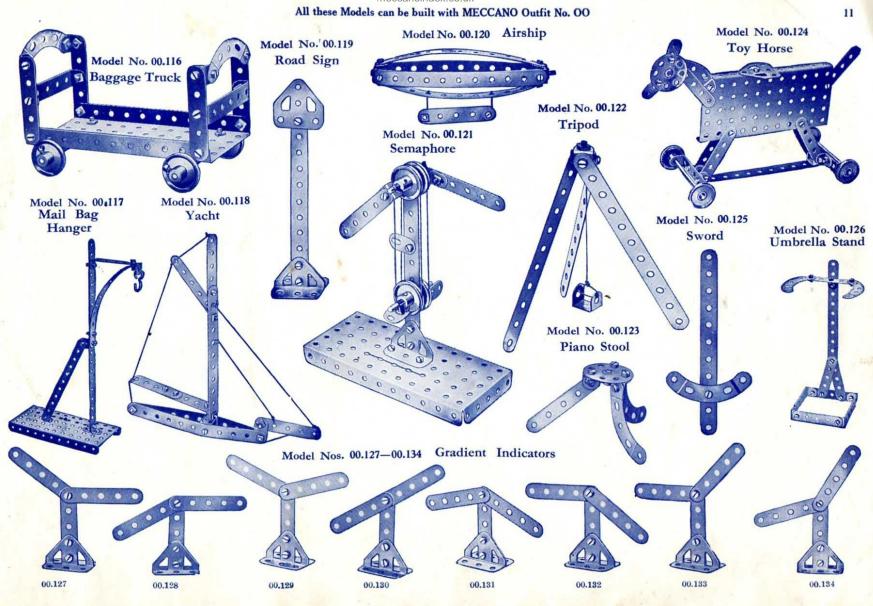


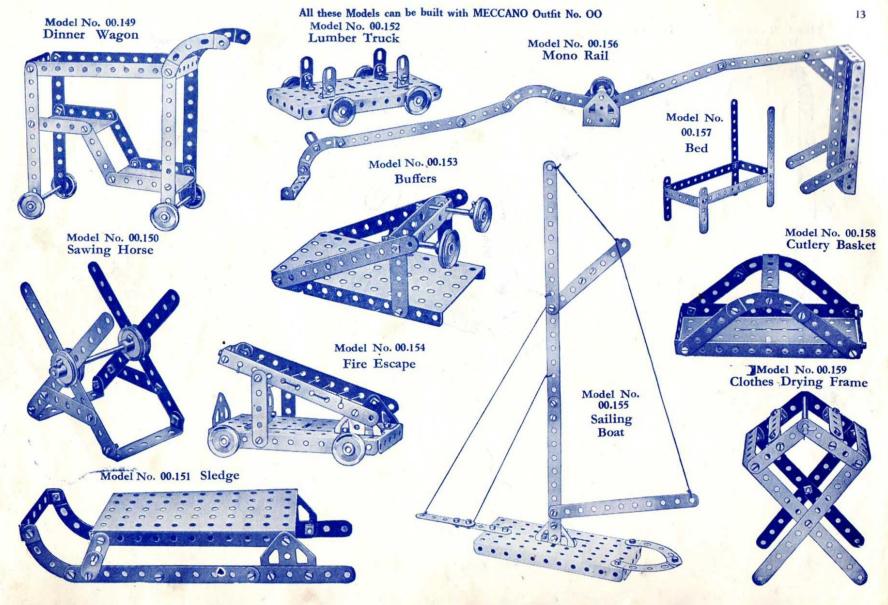




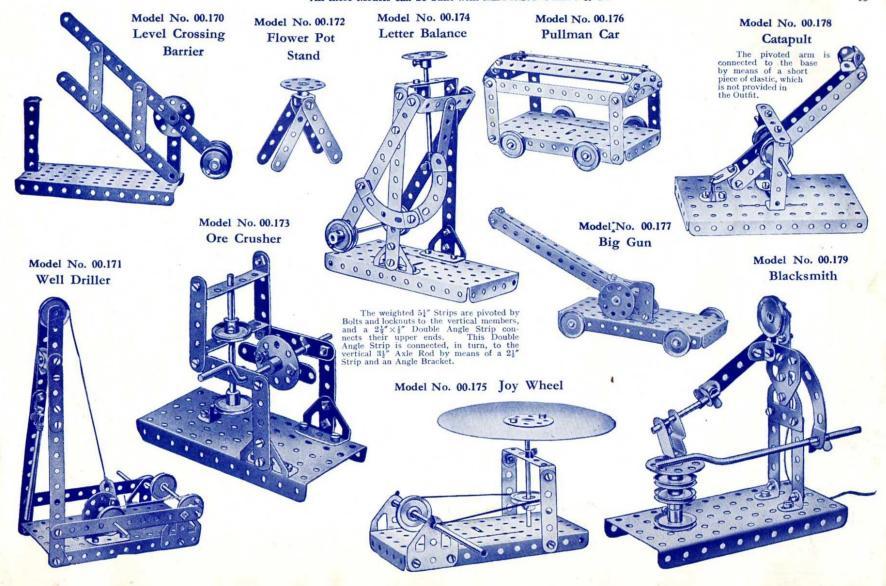
All these Models can be built with MECCANO Outfit No. OO



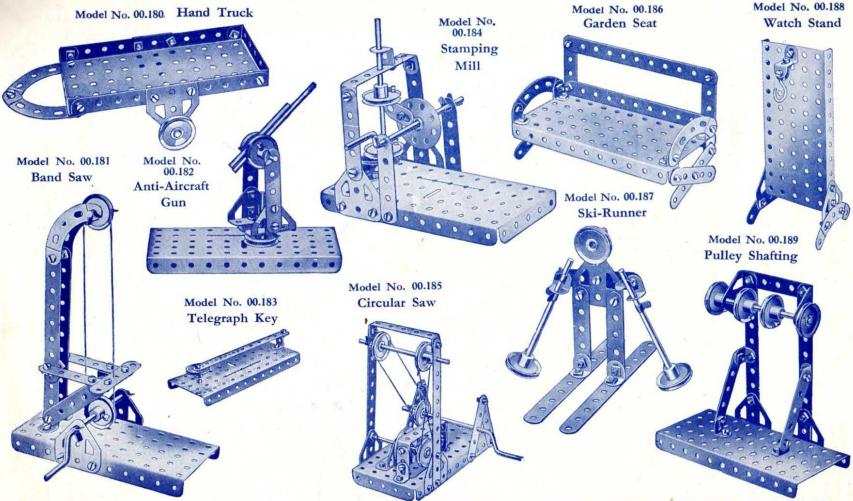




All these Models can be built with MECCANO Outfit No. OO

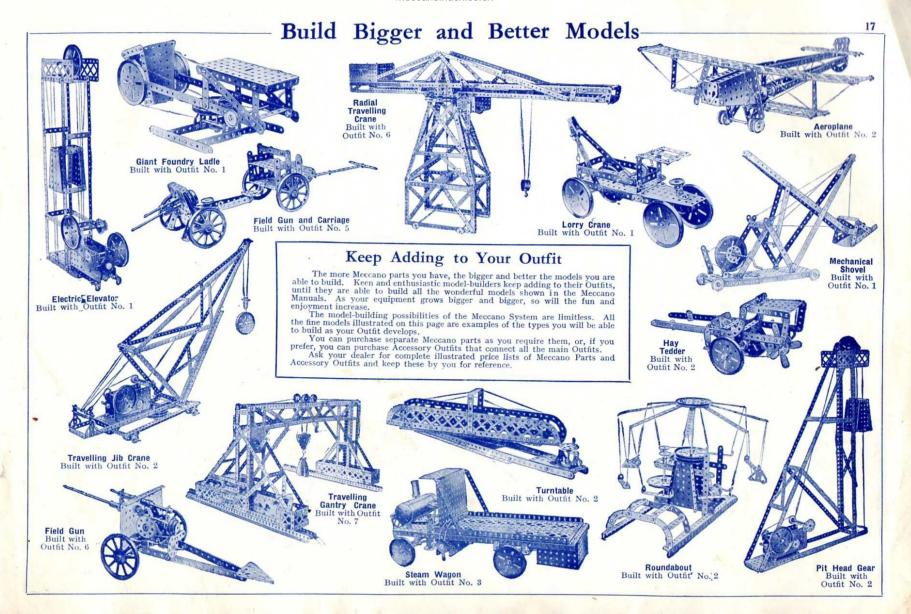


All these Models can be built with MECCANO Outfit No. OO



HOW TO CONTINUE

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



MECCANO

POWER UNITS FOR DRIVING MODELS

In order to obtain the greatest possible enjoyment from the Meccano hobby, the models must be set to work by means of one of the Meccano power units. Each of these units has side plates and base pierced with the Standard Meccano equidistant holes.

MECCANO CLOCKWORK MOTORS

All Meccano Clockwork Motors are strongly built and are fitted with powerful spring mechanisms that ensure a long steady run on each winding.

 ${\bf X}$ Series Clockwork Motor. This non-reversing motor is specially designed to drive models made with Meccano ${\bf X}$ Series parts.

No. I Clockwork Motor. Non-Reversing.

No. IA Clockwork Motor. Reversing.

No. 2 Clockwork Motor. Reversing.

MECCANO ELECTRIC MOTORS

There are five Electric Motors in the series—two 6-volt and three 20-volt. Each is a highly efficient power unit and, with ordinary care, will give long and excellent service. It is important to note that these Electric Motors cannot be run satisfactorily from dry cells.

No. El Electric Motor (6 volt). Non-reversing.

No. E6 Electric Motor (6 volt). Reversing.

No. E1/20 Electric Motor (20-volt). Non-reversing.

No. E20A Electric Motor (20-volt). Non-reversing.

No. E20B Electric Motor (20-Volt). Reversing.

MECCANO RESISTANCE CONTROLLER

This Controller enables the speed of Meccano 6-volt Electric Motors to be regulated as desired.

MECCANO TRANSFORMERS

A Meccano Transformer provides a convenient and safe means of driving a Meccano Electric Motor from the mains supply where this is alternating current.

There are six Transformers in the series, all o fwhich are available for all standard alternating current supply mains from 100 to 250 volts, at all standard frequencies. With the exception of T6 and T20, all the Transformers can be supplied for frequencies lower than 50 cycles. When ordering any of the Transformers the voltage and frequency of the supply must always be stated.

No. T6 Transformer (Output 25 V.A.) for 6-volt Electric Motors. Fitted with speed regulator.

No. T6M Transformer (Output 25 V.A.) for 6-volt Electric Motors. This is similar to No. T6, but is not fitted with a speed regulator.

No. T6A Transformer (Output 40 V.A.) for 6-volt Electric Motors. Similar to No. T6, but provides three separate 9-volt circuits, the first of which is controlled by a 5-stud speed regulator.

No. T20 Transformer (Output 20 V.A.) for 20-volt Electric Motors. Fitted with 5-stud speed regulator.

No. T20M Transformer (Output 25 V.A.) for 20-volt Electric Motors. This is similar to No. T20, but is not fitted with speed regulator.

No. T20A Transformer (Output 35 V.A.) for 20-volt Electric Motors. Similar to T20, but provides three circuits—one at 20 volts controlled by 5-stud speed regulator, and two at 20 volts and $3\frac{1}{2}$ volts respectively, unaffected by the regulator.

100

Meccano X Series Clockwork Motor



Meccano Clockwork



Meccano Clockwork Motor No. 2

ASK YOUR DEALER FOR A COMPLETE PRICE LIST





Meccano Electric Motor No. El





Resistance Controller



Transformer No. T20

MECCANO ACCESSORY OUTFITS



No. 2a Accessory Outfit

The Purpose of Meccano Accessory Outfits

Meccano Accessory Outfits connect the main Outfits from No. 00 to No. 7 They are the stepping stones to bigger and better models. A No. 00 Outfit may be converted into a No. 0 by adding to it a No. 00A Accessory Outfit, and a No. 0A would then convert it into a No. 1. In this way, no matter with which Outfit a boy commences, he may build it up by degrees until he possesses all the parts contained in the largest Outfit.

IMPORTANT.—An Accessory Outfit No. 000a is not supplied, but details of the extra parts required to build all the models in the No. 00 Manual will be found in the Instruction Folder included in the No. 000 Outfit.



No. 3a Accessory Outfit

CONTENTS OF No. OO OUTFIT Perforated Strips, 51" 37A Nuts .. 40 Hanks of Cord ... 10 Flat Brackets 44 Cranked Bent Strips Angle Brackets, ½"×½" 48A Double Angle Strips, $2\frac{1}{2}'' \times \frac{1}{2}''$ 52 Perforated Flanged Plates, $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Axle Rods, 31" Crank Handles (Small) 57c Hooks. 90A 2½" Curved Strips, cranked, 1¾" radius, 4 to circle Pulley Wheels, 1" (Fast) 111c Bolts, 3" Bush Wheels Spring Clips Trunnions Screw Drivers 126A Flat Trunnions Nuts and Bolts, 7/32 Instructions Manual No. 00

Patents and Designs Great Britain

250,378 369,337 253,236 671,484 323,234 671,485 356,567 671,534 365,701 671,790 366,921 680,416 368,975 682,208

MECCANO

THE TOY THAT MADE ENGINEERING FAMOUS

Millions of Boys in every country throughout the world play with Meccano.

These are the Meccano Factories and distributing centres.

Patents and Designs Great Britain

682,934 733,541 683,011 733,542 698,054 740,413 718,404 740,723 718,731 767,865

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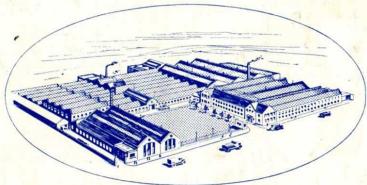


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