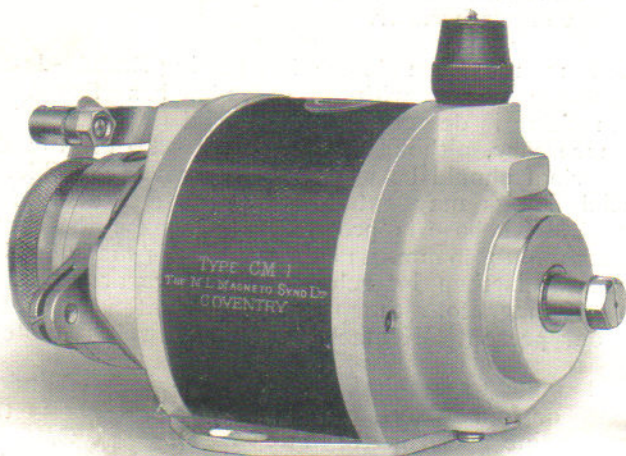




THE M-L MAGNETOS

Types CM1, CM2, CMK1 and CMK2.

Protected by Patent Nos. 113910, 176032 and 189918.



THESE magnetos have been introduced to meet the demand for a light magneto of first-class performance for motor-cycle work. They are made for single cylinder engines both two-stroke and four-stroke, for horizontally opposed four-stroke engines, and for two and four-stroke engines with two cylinders side by side. Although weighing only $4\frac{1}{2}$ lbs. they are equal in electrical performance to most magnetos of considerably greater size and weight. The reduction in weight has been obtained not by paring down useful material, but by the employment of cobalt steel magnets. These enable the machine to be made very small and compact and circular in shape, thus giving a clean smooth exterior, without projections, which serve to collect dirt.

Designed specially for motor cycle work they possess several features which will appeal to motor cycle manufacturers and users.

Chief among these may be mentioned:—

1. Complete and thorough waterproofing.
2. Self-contained spring control to the timing lever, thus saving the expense of fitting an outside spring control which is generally unsightly. The spring is contained in a dustproof housing packed with grease and the control cannot therefore stick in service. Either spring retard or spring advances can be supplied as specified.



3. Accessible contact breaker. This portion of the machine is of novel design and construction. There is no fibre bush to swell, or pivot to stick, and the points can be adjusted from almost any position, a great consideration on sidecar machines where the sidecar often interferes with access to the contact breaker.

Type CM magneto is made to Engineering Standards dimensions, 35 mm. centre height, with an extended base fixing. The base of the machine is detachable and special fixings can be provided where necessary, although we recommend that the dimensions given overleaf should be worked to wherever possible. The use of special fixings may entail extra cost and delay in delivery. On type CMK a base is provided to increase the centre height of the machine to 45 mm. and the spindle is made to the K taper. The machine is then interchangeable as regards fixings with an ordinary K magneto, although it is not intended that it should replace our present CK machine on heavyweight motorcycles.

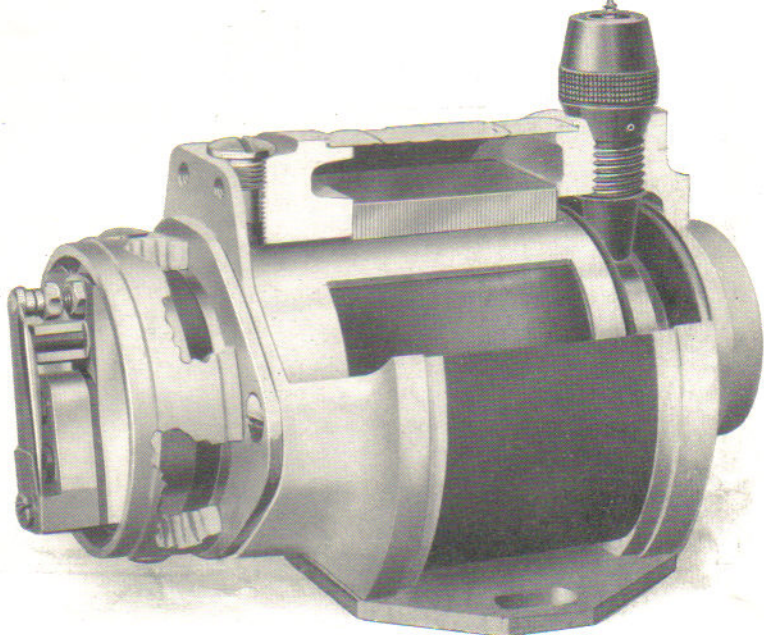
The CM1 magneto is suitable for use on single cylinder engines, either two or four stroke, running at engine speed in the former, and half engine speed in the latter case. Type CM2 magneto is suitable for two cylinder horizontally opposed four stroke engines running at half engine speed, or two cylinder side by side two stroke engines running at engine speed.

The CMK machines are suitable for similar service, but in addition to the increase in centre height are fitted with somewhat more powerful magnets, so as to be adaptable to rather larger engines than the CM type. Engines of more than 350 cc capacity per cylinder should be fitted with type CMK.

Both types are suitable for stationary engine work. On large slow running single cylinder engines the magneto should be arranged to run at engine speed.

These magnetos can be relied on to give efficient starting at magneto speeds of 100 r.p.m. and the special contact breaker which is fitted can be run at 3,500 r.p.m. for long periods and will function perfectly up to 5,000 r.p.m. They are therefore, particularly suitable for small high speed engines, either two or four stroke.

Tungsten contact points are fitted as standard. Not only does this material result in a considerable saving in cost, but the contact points are harder and have proved in service to possess a longer life than platinum.



DISSECTED VIEW. M-L MAGNETO—Type CM1.

SOLE MANUFACTURERS:

THE M-L MAGNETO SYNDICATE, LTD., VICTORIA WORKS - COVENTRY.

Telephone: Coventry, 1008 and 1009.

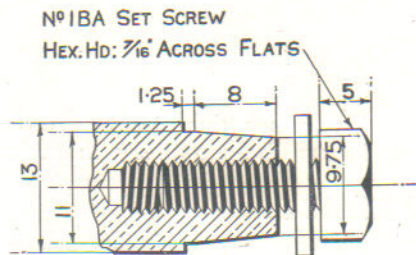
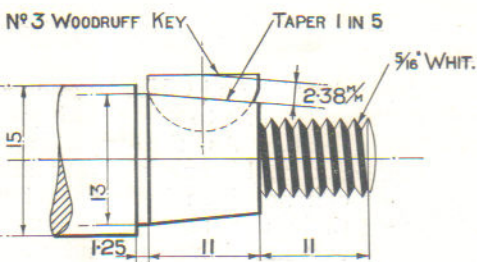
Telegrams: Carlton, Coventry.

To whom enquiries and correspondence from manufacturers
should be addressed.

S. SMITH & SONS (M.A.) LTD.
Central Works, Cricklewood, London, N.W.2.

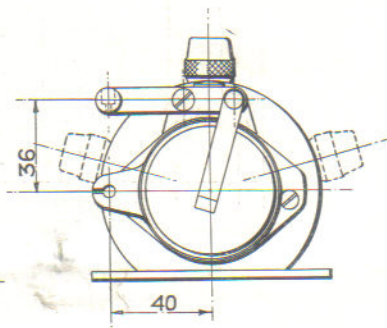
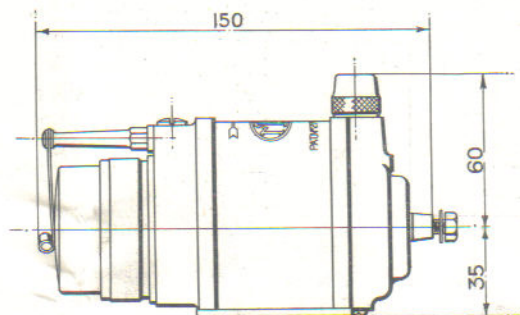
Telephone: Willesden, 2335. Telegrams: Speedofac, Crickle, London.

Sole distributors overseas and to retail and trade buyers
in this country.

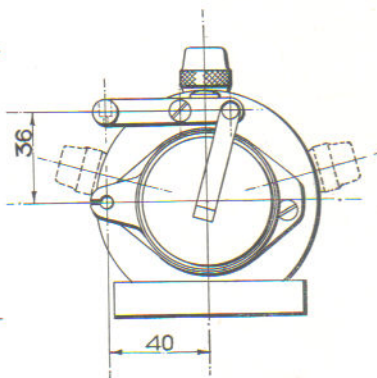
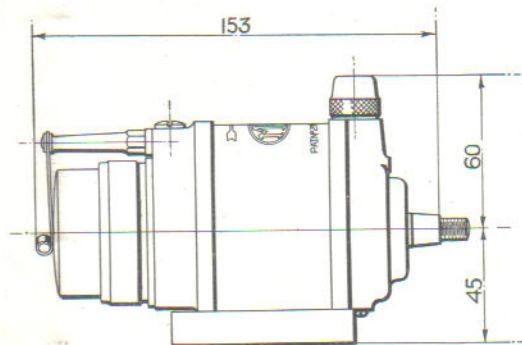


CMKI & 2 SPINDLE TAPER

CMKI & 2 SPINDLE TAPER



TYPES CMKI & 2



TYPES CMKI & 2
DIMENSIONS IN MILLIMETERS.

THE M-L MAGNETO.

For particulars of base and fixing holes see overleaf.

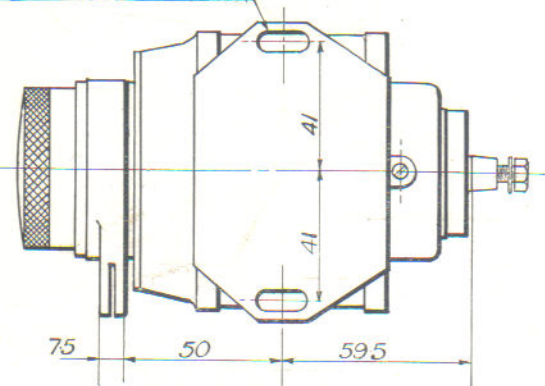
Direction of Rotation should be specified as Clockwise or Anti-Clockwise as viewed from the Driving or Spindle End.

Timing Lever can be arranged Right or Left Hand as desired. Spring retard to the timing lever is included.

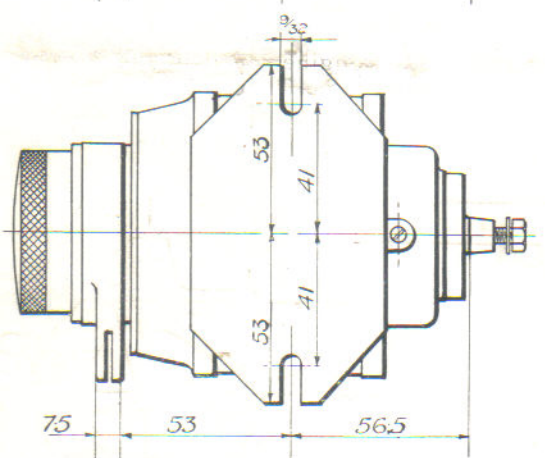
Standard Mountings for CM Magnetos

The bases given below are our standards for CM and CMK Magnetos, and it will help us very materially if customers work to one or other of these. As the base is a detachable one special fixings can be given if desired, but their use may entail extra cost and delay in delivery.

SLOT $\frac{9}{32}$ " WIDE $\times \frac{19}{32}$ " LONG

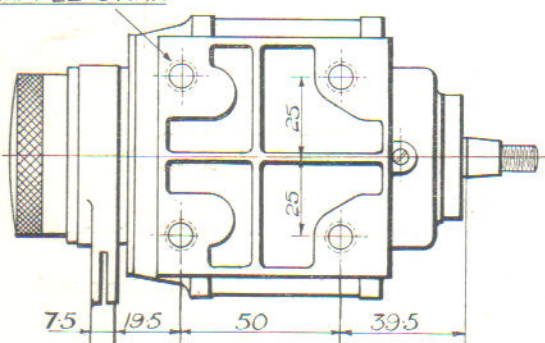


- 1.—35 mm. centre height with extended base and slots, giving adjustment in an axial direction, and suitable for direct gear drive or for use with a coupling between the magneto and the driving shaft.



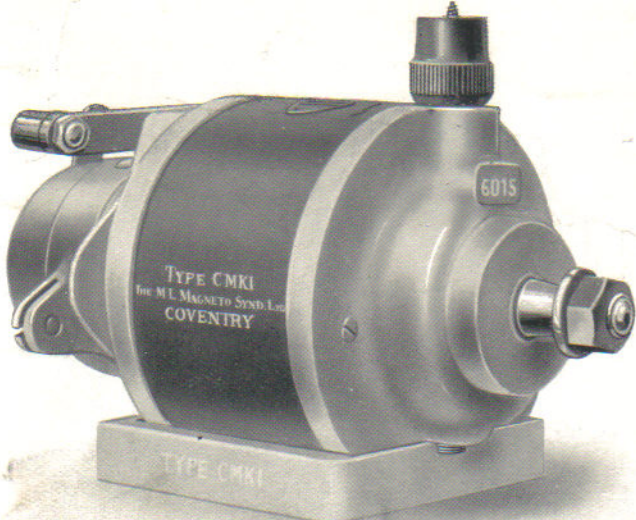
- 2.—35 m.m. centre height with extended base and slots, giving adjustment at right angles to the axis, and suitable for chain drive.

TAPPED $\frac{3}{8}$ " WHIT

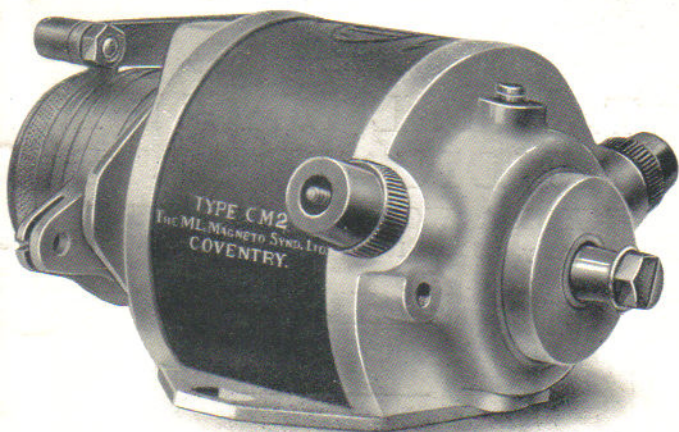


- 3.—45 mm. centre height, four hole fixing. Engineering Standards K dimensions.

The 35 mm. centre height machines have the small M type taper with an internal fixing screw, 1 BA, while the 45 mm. centre height is supplied with the large K type taper, screwed $\frac{5}{16}$ " Whit. for a fixing nut.



TYPE CMK1 MAGNETO.



TYPE CM2 MAGNETO.