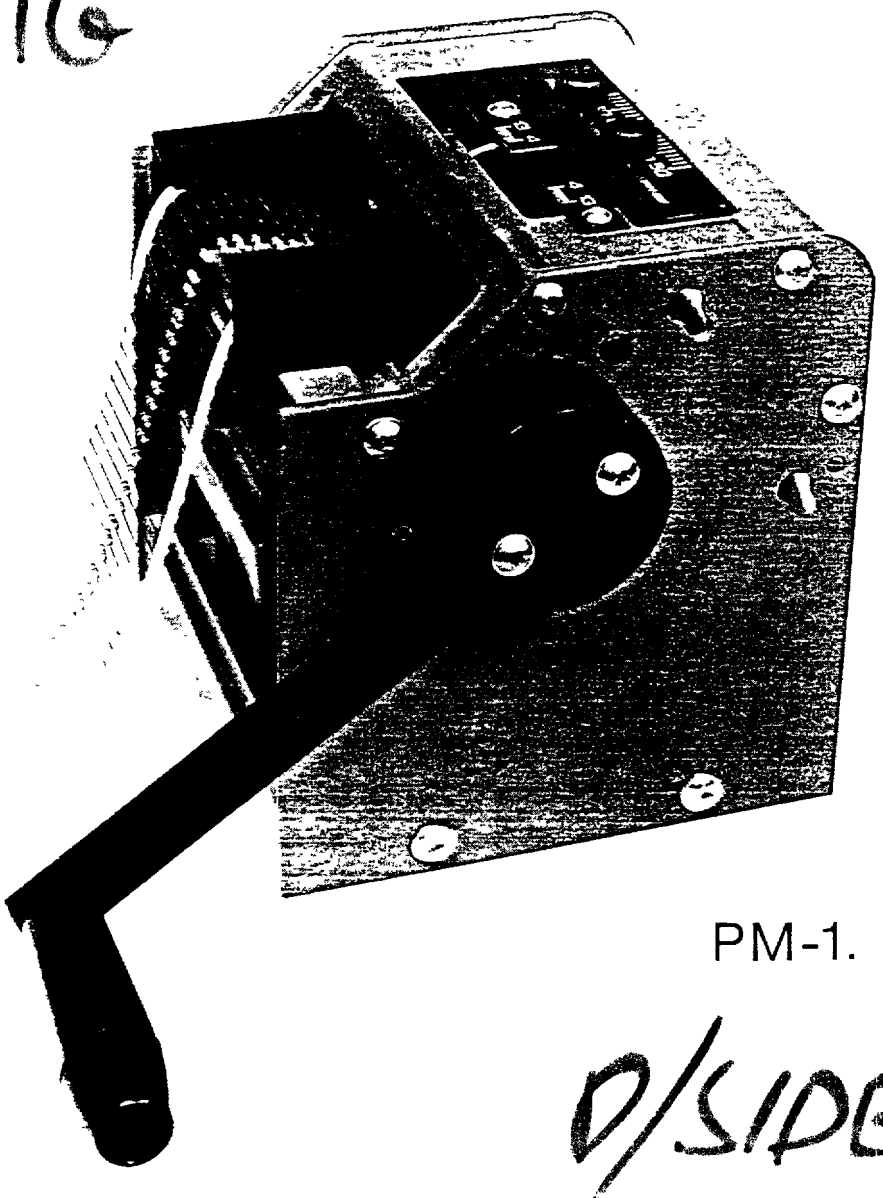
CLIFF

COMPONENT PREFORMING MACHINES PM—Series

147835

ORIG



PM-1.

D/SIDED

PM-1. FEATURES INCLUDE

- Adjustable steel anvils for producing a perfect score free bend on wires up to 1mm diameter
- 35mmØ free running cutting wheels minimising wear and maximising efficiency and ease of use
- Built-in scales on top of machine for pitch and down lead adjustments.
- Fitted guards all round the cutting and bending wheels for protection against trapping fingers.
- Optional plug in sensor for electronic component counting.
- Optional plinth to raise height of machine where not practical to site the handle over the edge of a bench.
- Optional motor drive.

PM-2.

- Similar to PM-1 designed to cut components from bandoliers without bending

Specifications

PM-1

The machine is designed to cut to length and pre-form axial lead components ready for fitting into PC Boards, where the component is parallel to the board The components may be fed in bandolier form (assuming a 5mm pitch between components or multiple thereof), or loose by means of the built in chute slots

Finished components are collected in a standard size storage box which may be located under the cutter head, or(preferably) in front of the machine — using the supplied metal chute under the cutters

A separate plinth is available to raise the height of the machine by 80mm where it is not practical to site the handle over the edge of a bench

All adjustments are carried out on top of the machine using the built - in scales Setting instructions are printed on the machine

Components are cut and formed without scoring or damaging the leads Wire links can also be rapidly produced from bandoliered wire

General construction features anodised aluminium body with heavy steel sides The free running blades are 35mm diameter and produced in M2 high speed steel The cutting and bending wheels are in high carbon steel, all are hardened and tempered as appropriate

The bandolier drum supports have lugs which latch into keyhole slots on the sides of the machine allowing the drum to sit over the machine when in use This system takes up less space and allows a gravity feed of components into the machine

The machine will cut and form a comfortable and effortless 40,000 components per hour

Guards are fitted all round the cutting and bending wheels for protection of fingers.

PM-2. Most axial lead components are nowdays supplied in bandoliered form There are often occasions when circuit design dictates use of components which are not PCB mounted It is time consuming to remove components from bandoliers by hand PM-2 is designed to rapidly cut components out of bandolier form to produce loose axial components — with straight wires

MD-1 Motor Drive This accessory quickly converts the manual machines to electric operation. The set speed gives 23/25,000 pcs /hour output The motor drive also permits preforming/cutting of single components — by dropping them individually into the chute slots in the bandolier guides

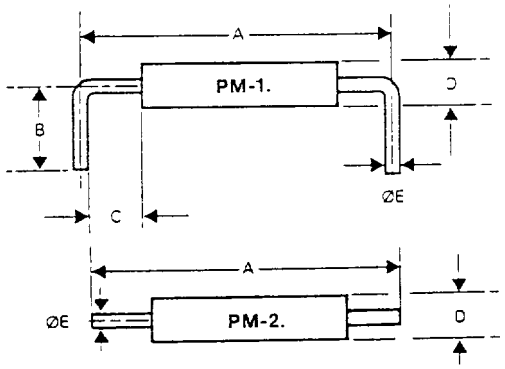
Dimensions

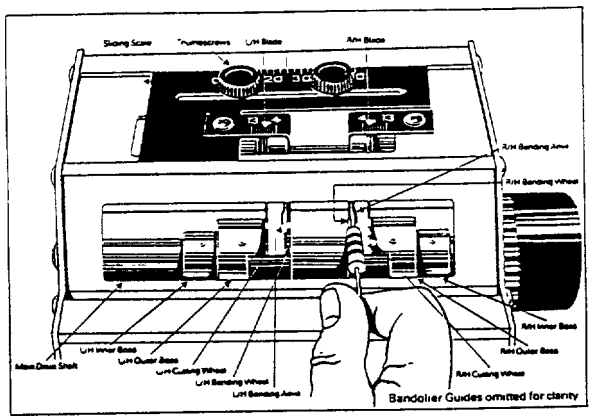
PM-1.

Bending Between Centres	A	From 5mm to 50mm
Length of Cut .	B	From 4mm to 13mm
Minimum Bending	C	1 2mm Minimum
Diameter of Component	D	From 0 4mm to 15mm
Diameter of Wire	E	From 0 4mm to 1mm

PM-2.

Cutting Between Centres	A	From 4 6mm to 50mm
Diameter of Component .	D	From 0 4mm. to 15mm
Diameter of Wire	E	From 0 4mm to 1mm





Physical Dimensions of the Machines

Width 200mm
Height ..... 175mm. (with plinth) 250mm.
Depth ..... 165mm.
Weight..... 2.8Kg. (with plinth) 4.2Kg.
Motor Drive (only) Weight ..... 6 3Kg.

BEING DEVELOPED:-

* Axial to vertical preform.
* Radial preform.

PART NUMBERS

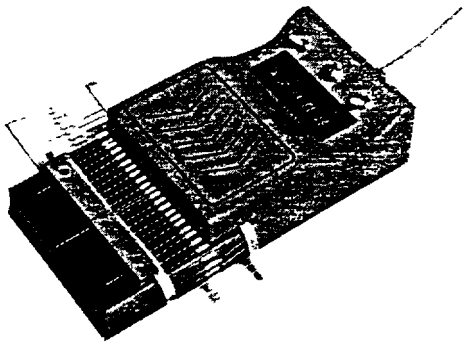
MD-1. Motor Drive Unit.

220/240V. AC. (Europe) Part No OD66451.
115V AC 60Hz (USA) Part No OD664511.
100V AC 50/60Hz. (Japan) Part No. OD664512.

BASIC PM-1 Part No. OD6645.
Optional Plinth Part No. OD664610.
PM-1 with Plinth Part No. OD6644.
BASIC PM-2 Part No OD66450.
PM-2 with Plinth Part No OD664501.

CC-1 Low Cost Electronic Component Counter

Counts bandoliered components which are fed through the counting slot Slot width is adjustable to all bandolier sizes
Reverse counting by switching reversing switch
Reset by push button
Mains operated 100/115V or 220/240V (specify)



For Use With PM-1 & PM-2 Machines

An external sensor can be used which is plugged into the component counter By removing a dummy plug from the left hand bandolier guide of the preforming machine, the specially moulded sensor can be inserted into the guide ready for automatic counting
The counting slot of CC-1 is inoperative whilst the remote sensor is plugged in

CC-1 (100/115VAC)	Part No CP3011
CC-1 (220/240VAC)	Part No CP3010
Optional Ext Sensor CCRS	Part No OD6647

Distributed By -

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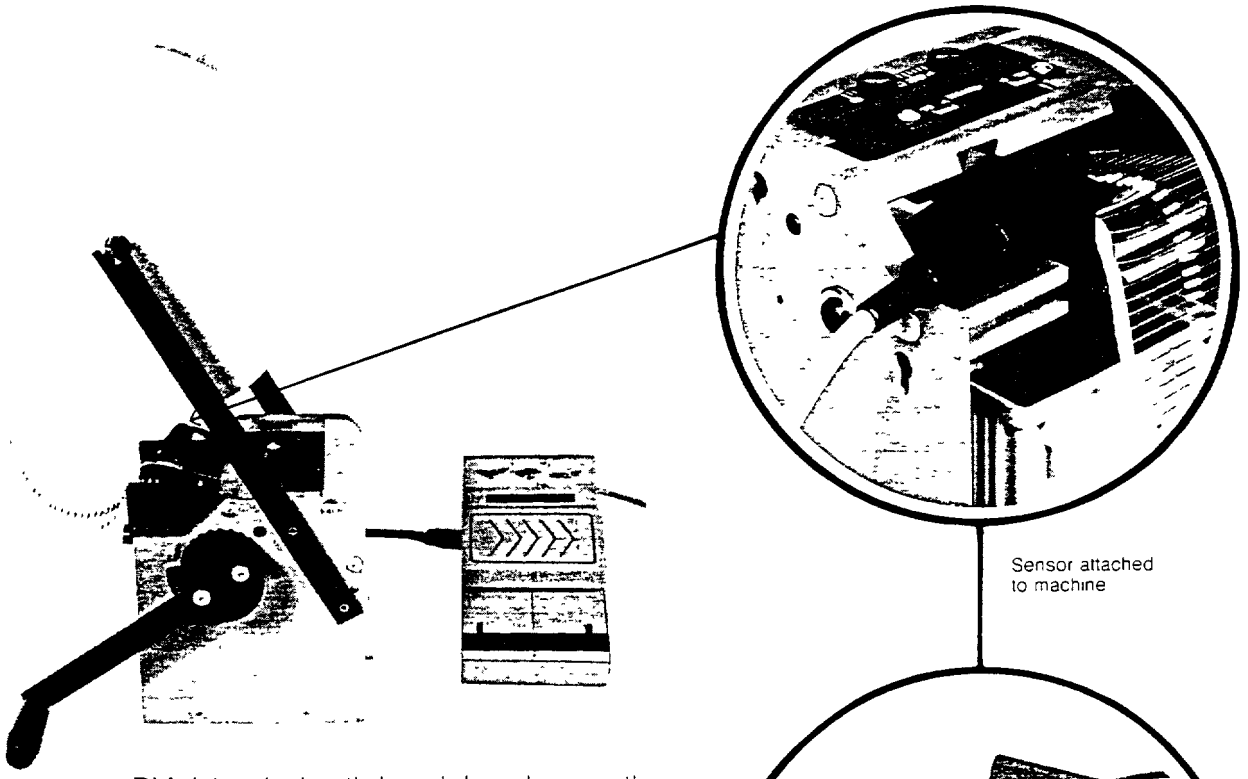
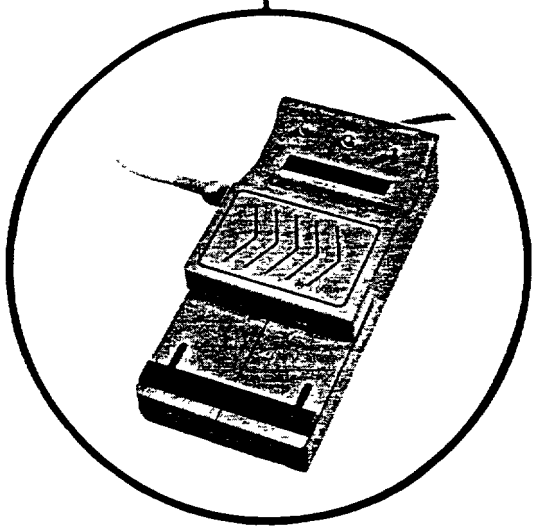
COUNTING COMPONENTS

Component Counter CC-1 may be used with all models, to count the components being processed

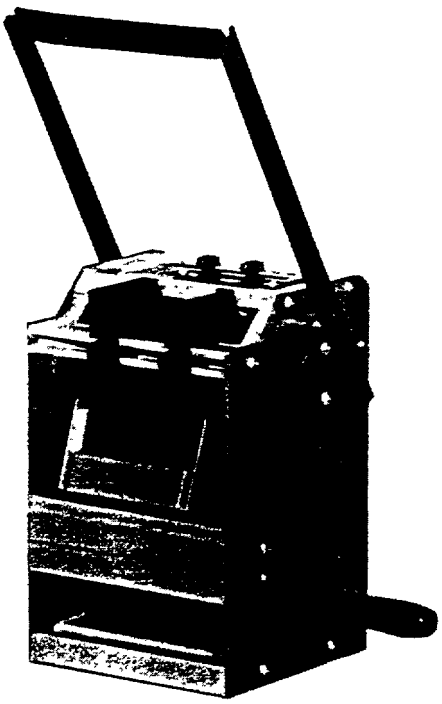


Sensor attached to machine

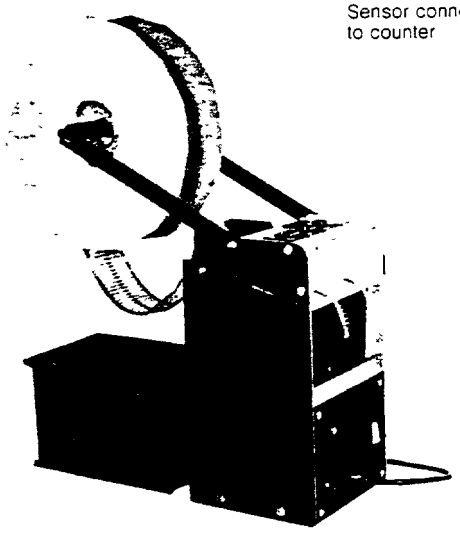
PM-1 loaded with bandolier drum with CC-1 counter attached to machine.



Sensor connected to counter



PM-1 with plinth



PM-1 with Motor Drive MD-1.
(Showing alternative bin mounting position large bin is not supplied)