P080i Crimping machine

P080i
TECHNICAL DATASHEET



Force	80kN (17985 lbf)
Working height	135.8 ±0.02 mm (5.35 in) Applicators 212 ±0.02 mm (8.35 in) Dies
Stroke	30 / 35 / 40 / 50 mm (1.18 / 1.38 / 1.57 / 1.97 in)
Power	4.2 kW (5.5 hp)
Power supply	3x230 – 3x400 V
Voltage	230 – 400 Vac
Frequencies	50 – 60 Hz
Settable cycles	Mode A – B - Split cycle
Functions	Jog – Split cycle
Connections	Ethernet – Wi-Fi
Communication	Modbus TCP IP
Monitor interface	HMI 4.3” color
Weight	165 Kg (364 lb) compact version
Dimensions [LxPxH]	600 x 550 x 1010 mm (24 x 22 x 40 in)
Finishing	White paint RAL 9003
Configuration	Bench top – automatic – on workbench
Safety guard versions	Tiltable – Pantograph – IR – Pneumatic
Management	PLC
Braking	Inverter
CFA	CDA10 integrated, or other
CAO	Included
Safety system	Integrated module
Pneumatics	Safety kit included
Tool anchoring system	Quick release baseplate included
External interface	Ethernet – CFA – CAO – I/O Accessories
Protection degree	IP40
Operating temperature	from +10 to +70 °C



ON WORKBENCH



AUTOMATIC



TILTING SAFETY GUARD



IR SAFETY GUARD

DESCRIPTION

The P080i is an electromechanical crimping machine with inverter technology, capable of exerting a force of 80 kN. Thanks to its monolithic cast iron structure and precision mechanical components, the machine offers excellent rigidity, compactness, and reduced weight, ensuring precise, reliable, and consistent crimping over time.

Available in both automatic and manual versions, the P080i is equipped with a protective casing made of stainless steel and transparent impact-resistant polycarbonate. These casings, available in tilting, pantograph, or door variants with safety barriers, provide an optimal view of the crimping operations while ensuring full operator protection in compliance with CE regulations.

The machine allows customization of height and stroke based on the installed applicators, including models from the Evolution, Restyling, FAKRA, MK, FMK, and Magnum series. Pneumatic dies of the MFMP and MSMP series. It is also prepared for the installation of load cells, either internal (CDA10 model) or third-party units.

The P080i can be mounted on a workbench, with or without a wooden top, or integrated into a cabin-type protective casing. It allows the installation of various plug-in accessories for stripping, scrap cable management, and collection of processing waste. All machine and accessory parameters can be managed through an integrated display, providing full and intuitive control of the production process.

Mecal S.r.l. reserves the right to modify the characteristics of the product described in this datasheet without notice.

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