

*Introducing the MCP MINIMOLDER 12/90VSP. A vertical clamping, pneumatic injection moulding machine for insert or over moulding in engineering thermoplastics.*

*The 'MCP MINIMOLDER 12/90VSP' is a 9 ton clamp force machine designed for the manufacture of components from 0.02 grams to 12 grams in the most aggressive production environments. Using screw plasticising with a choice of screw ratios and plunger injection controlled by linear transducers, the 12/90VSP is extremely accurate and repeatable from shot to shot.*

*The machine incorporates a sliding and rotating mould carrier to give a highly economical method of insert moulding with ease of positioning and operator comfort of paramount importance. Insert loading and unloading takes place during the moulding cycle to optimise processing time and increase efficiency.*

*Using only compressed air, single phase power and a supply of chilled water, the MPC MINIMOLDER 12/90VSP is easy to install and proves a cost effective package for moulding tight tolerance, precision engineered components. The four zone, closed loop, PID temperature control system enables the machine to process a wide variety of engineering thermoplastics. Tool changes take only five minutes and material changes as little as ten minutes, significantly reducing down time.*



*The built-in control panel with a memory for up to twenty five moulding recipes features a high resolution colour screen and allows touch sensitive setting of all moulding parameters. Graphical display, full fault diagnosis and a handy 'HELP!' facility make the MCP MINIMOLDER 12/90VSP a truly versatile and user friendly machine.*



# TECHNICAL SPECIFICATIONS

<i>CLAMP UNIT</i>	<i>(Metric)</i>	<i>(English)</i>
Clamp Force	9 Tonnes	9 Tons
Full Stroke	70 mm	2.7 ins
Tie Bar Diameter	25 mm	1.0 ins
Distance Between Bars	110 mm	4.3 ins
Fastest Closing/Opening Speed	1.9 Secs	1.9 Secs
Max Mould Size H x V	100 mm x 130 mm	3.9 ins x 5.1 ins
Mould Thickness	110 mm	4.3 ins

<i>INJECTION UNIT</i>	<i>(Metric)</i>	<i>(English)</i>
Screw Diameter	16 mm	0.63 ins
Screw Ratio	2:1 or 4:1	
Hopper Capacity	3 Kgs	6.6 lbs

<i>PLUNGER OPTIONS</i>	<i>(Metric)</i>	<i>(English)</i>
Plunger Diameter	10 mm	0.39 ins
Capacity	7 grams	0.25 ozs
Pressure	1,283 bar	18,333 psi
Plunger Diameter	13 mm	0.5 ins
Capacity	12 grams	0.42 ozs
Pressure	752 bar	10,751 psi
Plunger Diameter	18 mm	0.7 ins
Capacity	22 grams	0.78 ozs
Pressure	393 bar	5,608 psi
Plasticising Capacity (8.1 sec. cycle)	4.89 Kg/hour	10.7 lbs/hour

<i>GENERAL DETAILS</i>	<i>(Metric)</i>	<i>(English)</i>
Size of Machine (L x H x W)	1000 x 1300 x 900 mm	39 x 51 x 35 ins
Weight	240 Kgs	530 lbs
Size of Panel (D x H x W)	480 x 170 x 320 mm	18.8 x 6.7 x 12.5 ins
Power Supply	240 V 50 Hz	110 V 60 Hz
Total Heater Rating	3 Kw	
Average Operational Rating (Heaters)	1.8 Kw	
Water Supply	2 Litres/min @ 10°C	
Air Supply	Approx. 350 Lrs/min free air	

A variety of optional extras can be supplied, including Hopper Loaders, Hopper Dryers, Chillers, Auxiliary heating Zones.

We are always seeking to improve the quality of our products and therefore reserve the right to change specifications at any time.

Presented by:



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