



M.M.9100

NEW

Lapping techniques with heavy loads and intensive use require a suitably durable material. This is offered by the LAM PLAN mid and large diameter range of machines.

The rigidity of their structures and the gear motor group torque are especially suited to the high abrasion of LAM PLAN lapping plates.

The number of peripheral devices available make the machines particularly versatile and effective. Specific equipment can be made available according to requirements.



M.M. 9100

Intensive production for parts:
Ø 10 à 350 mm

AUTOPLAN system: flatness reconditioning and grooving of the plate.



AUTOPLAN system enables to manage efficiently the flatness and the grooving of the plate. It is installable and removable in a few minutes thanks to fixation points integrated to the machine.

M.M.9100 S VERSION

NEW

Version with pneumatic pressure comprising three double effect cylinders mounted on a fixed arm.



Technical data	M.M.9100 E version
Plate Ø	1 000 mm
Inner ring Ø	406 mm
Capacity per ring	1 part Ø 350 mm or 225 pièces Ø 10 mm
Number of rings	3
Electric power supply	400 V - 50 Hz - 3 phases + earth + neutral
Motor Power	5,5 kW
Pressure application system	3 weights of 28 kg included
Control	Touch screen 5,7 inches
Plate rotation speed	From 15 to 50 tr/min
Dimensions (W x H x D)	1900 x 1800 x 1500 mm
Weight (without plate)	1 000 kg
Abrasive distribution system	Included - see specific table
Reference	109100E 00

What changes	M.M.9100 S version
Pressure application system	3 double effect cylinders
Pressure	10 to 2500 N
Dimensions (W x H x D)	1900 x 1800 x 2300 mm
Weight (without plate)	1 400 kg
Reference	109100S 00

Options for M.M.9100 S

Level sensors for diamond liquid and lubricating fluid	08 90001 00
Refrigeration and heating unit P803, for lapping plate	10 80003 90
Flatness gauge for checking the flatness of the lapping plate	08 00893 00

LAPPING & POLISHING MACHINES

M.M.9100 SR VERSION**NEW**

The S, S HP and EC type lapping machines are equipped with pneumatic pressure systems of different powers. The cylinders are installed on fixed or mobile arms. On the SR version the arm turns around its 180° axis thanks to a motorised crown and is controlled by the man/machine interface. This facilitates access to the work zone, plate changing and allows passage of a robotised loading/unloading arm.

**What changes** **M.M.9100 SR version**

Pressure application system	3 pneumatic cylinders, rotating arm motorized
Dimensions (W x H x D)	1900 x 1900 x 2300 mm
Weight (without plate)	1 500 kg
Reference	10 9100SR 00

Options for M.M.9100 SR and EC

Level sensors for diamond liquid and lubricating fluid	08 90001 00
Refrigeration and heating unit P803, for lapping plate	10 80003 90
Flatness gauge for checking the flatness of the lapping plate	08 00893 00

M.M.9120 et M.M.9150

Based on the M.M.9000 series technology, we offer versions of our machines with plates between Ø 1200 mm and 1500 mm for maintenance operations on large parts or for production applications. A technical study and specifications will be provided on demand.

Available versions:

M.M.9120 E	Ø 1200 mm, without pressure system
M.M.9120 S	Ø 1200 mm, 3 pneumatic pressure cylinders
M.M.9120 SR	Ø 1200 mm, 3 pneumatic pressure cylinders on a motorized rotating arm
M.M.9120 S4R	Ø 1200 mm, 4 rings et 4 pneumatic pressure cylinders on a motorized rotating arm
M.M.9150 E	Ø 1500 mm, without pressure system
M.M.9150 S	Ø 1500 mm, 3 pneumatic pressure cylinders

M.M.9100 EC VERSION**NEW**

If the part which has to be worked is too heavy regarding the pressure prescription required for a lapping operation, lapping machine EC will have to be used. This machine's version is equipped with a pneumatic bracket which will unballast the lapping plate of the workpart weight, and provide an optimal pressure for the lapping process.

**What changes** **M.M.9100 EC version**

Load compensation system	1 pneumatic cylinder, rotating arm motorized
Compensation applicable	10 to 2500 N
Dimensions (W x H x D)	1900 x 1900 x 2300 mm
Weight (without plate)	1450 kg
Reference	10 9100EC 00

EQUIPMENT

All M.M.9000 series machines are fitted with an integrated modem as standard in order to carry out remote maintenance operations.

They are compatible with dedicated LAM PLAN distribution systems and can be optionally fitted with an abrasive and lubricant level sensor.

Production data collection in the form of CSV files is possible via the USB interface.