

PRECISION OPEN FACE DIAMOND FLAT LAPPING MACHINE



The Lapmaster Model 20 lapping / polishing machine is fitted with an electronic dispenser for the liquid diamond abrasive slurry and the appropriate lubricating fluid, a dual head spray bar and an electrically driven stirrer unit which houses small glass reservoirs of both fluids

The liquid diamond — electronic dispenser controls the supply of liquid diamond abrasive and lubricating fluid, automatically feeding it at pre-set intervals in conjunction with the machine's process timer. The unit incorporates microprocessor control based circuitry giving consistent performance and reliability.

The fluids are fed to the dual head spray bar using compressed air (regulated to 0.5 bar) in an aspiratory fashion so that the glass reservoirs are never pressurised. The duration period of the spray and interval between sprays can be independently set for both

liquid diamond and lubricating fluid. These variables and the time to the next spray are shown on the digital displays. A manual override button which activates spraying for as long as it is depressed is also provided for both fluids. Once programmed, the settings are stored in a memory, and are not lost when the machine system is disconnected from the power supply.

The stirrer unit is designed to hold two glass bottles, one for liquid diamond, the other for lubricating fluid. The agitating action only takes place in the liquid diamond bottle position, using a triangular or round Teflon coated stirring bar. The rate of agitation is controlled by adjustment of a potentiometer on the front of the unit

This size of machine is ideally suited for maintenance and repair facilities, particularly those involved in the relapping of mechanical seals or pressure relief safety valves.

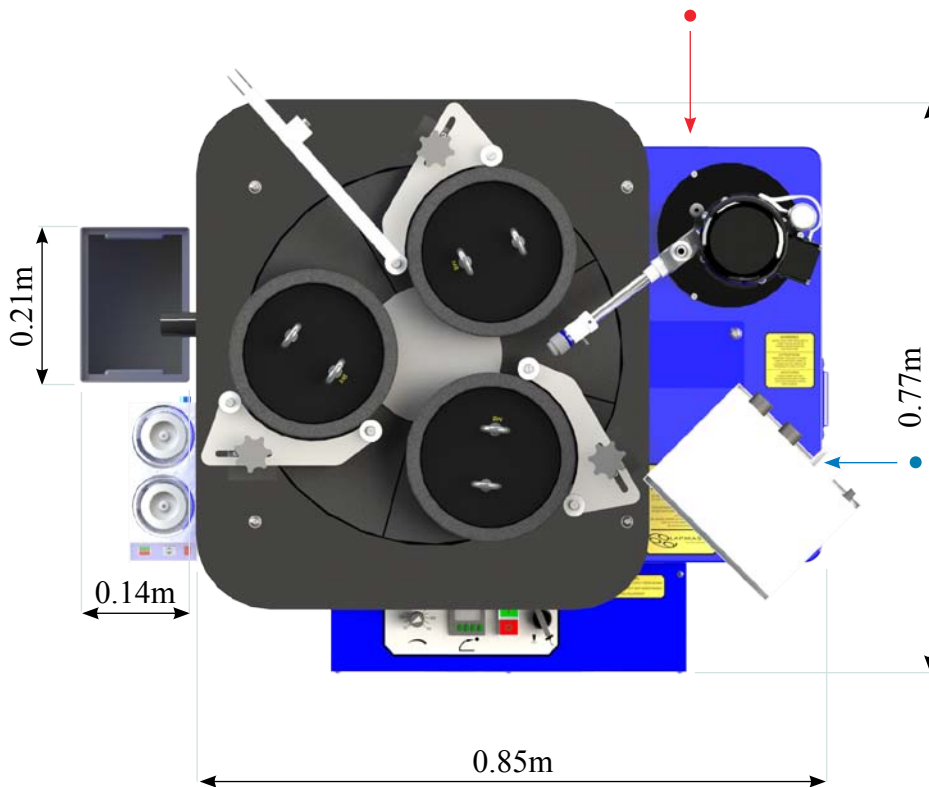
STANDARD FEATURES

- Heavy duty base with integrally mounted drive motor, reduction gearbox.
- Heavy duty work table, vertically adjustable.
- Three conditioning rings, with adjustable, Zytel roller bearing yoke assemblies to maintain lap flatness.
- Integral abrasive system complete with pump and multi point compound distribution.
- High torque drive unit consisting of 0.75kW motor and reduction gearbox. Lap plate speed 70 rpm.
- Operator controls at 100V, complies with EN 60 204.
- CE compliant.
- Operator panel with start / stop controls, and multiple range digital process timer.
- Waste tank.
- Electronic dispensing system for use with water and diamond compounds.

STANDARD TOOLING

- Composite faced lap plate. 508mm O.D. x 127mm I.D.
- Three high density cast iron serrated conditioning rings. 229mm O.D. x 191mm I.D.
- Three pressure weights.
- Three blank workholder discs.
- Three felt pads.
- Operation and maintenance manual.

MODEL 20 - PRECISION OPEN FACE DIAMOND FLAT LAPPING MACHINE



OPTIONAL TOOLING

- Flatness gauge.
- Solid stainless steel backing plates.
- Cast iron lap plate.
- Polishing pads.

OPTIONAL FEATURES

- Electronic variable speed drive.
- Electronic soft start to main drive.
- Water cooled lap plate.
- Non-standard voltages.
- Stainless steel wetted parts.
- Peristaltic pump.
- Corporate colours.
- Fixed or light beam guarding.

APPROXIMATE WEIGHT

- 200 kg.

SERVICES

- Electrical: 230/380V, 3 Phase, 50Hz.
230V, 1 Phase, 50/60Hz.
- Air: 400 kPa / 4 bar minimum.

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