

PRECISION PNEUMATIC LIFT FLAT LAPPING MACHINE


The pneumatic lift version of the Lapmaster Model 36 is based on the open face machine.

Pressure plates are attached through self aligning bearings to the rods of the pneumatic cylinders. The cylinders are mounted on a framework located over the lap plate on two upright columns.

The primary function of the pneumatic arrangement is to permit loading and unloading to be carried out without the need to lift pressure weights manually. However, they can be used to supply additional loading to the components within the conditioning ring should this be required.

The machine is intended for use with free abrasive compounds. A dispensing system, for use with water and diamond compounds etc., can also be fitted.

Operator safety is a primary concern in the design. Movement of each pressure weight up or down is controlled by a two hand anti tie down control box. This arrangement requires the use of both hands on two separate buttons to function and ensures the operator cannot injure their hands or arms when lowering the weights.

A further safety feature is that the pressure weights are locked in any position, in the event the air or electrical supplies fail, the weights will not fall.

Flatness of the machines lap plate, and consequently of the work, is controlled by adjusting the position of the conditioning rings relative to the lap plate track.

The lapping plate drive system uses a separate motor and worm & wheel mechanical reduction gearbox with multi-belt drive.

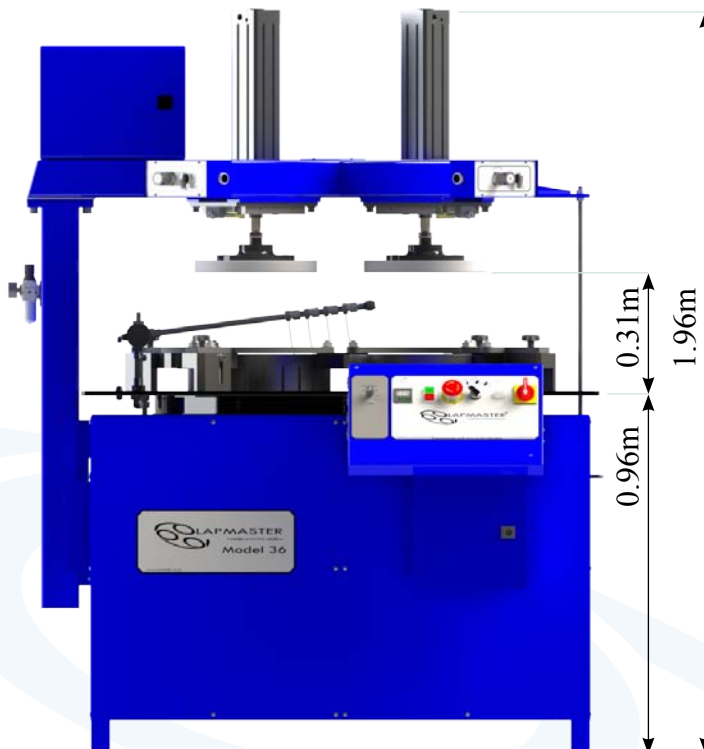
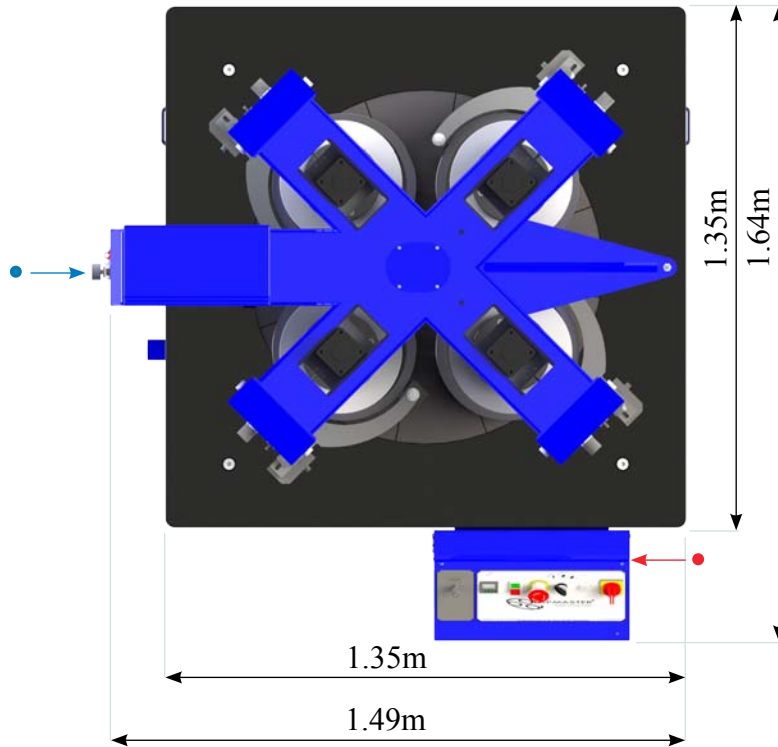
STANDARD FEATURES

- Heavy duty floor standing base with integrally mounted drive motor, reduction gearbox.
- Range of loads for pressure weights 28 kg to 190 kg @ 400 kPa / 4 bar.
- Heavy duty work table, vertically adjustable.
- Four conditioning rings, with adjustable, sealed roller bearing yoke assemblies to maintain lap flatness.
- Free standing abrasive system complete with pump multiple point distribution.
- High torque drive unit consisting of 4.0kW motor and reduction gearbox. Lap plate speed 58 rpm.
- Operator controls at 100V, complies with EN 60 204.
- CE compliant.
- Soft start to main drive motor.
- Operator panel with start / stop controls, and multiple range digital process timer.
- Waste tank.

STANDARD TOOLING

- High density, cast iron serrated lap plate. 914mm O.D. x 263mm I.D.
- Four high density cast iron serrated conditioning rings. 373mm O.D. x 322mm I.D.
- Four blank workholder discs.
- Four felt pads.
- Lap plate lifting tool.
- Operation and maintenance manual.

MODEL 36 - PRECISION PNEUMATIC LIFT FLAT LAPPING MACHINE



OPTIONAL TOOLING

- Solid stainless steel backing plates.
- Composite faced plates.
- Solid cast iron lap plate.
- Polishing pads.

OPTIONAL FEATURES

- Three ring model.
- Open face version.
- Electronic variable speed drive.
- Water cooled lap plate.
- Non-standard voltages.
- Stainless steel wetted parts.
- Peristaltic pump.
- Corporate colours.
- 5.5kW Drive motor.
- Fixed or light beam guarding.

APPROXIMATE WEIGHT

- 1250 kg.

SERVICES

- Electrical: 230/380V, 3 Phase, 50Hz.
- Air: 400 kPa / 4 bar minimum. (if applicable).
- Water: 100 kPa / 1 bar minimum. (if applicable).

Lapmaster International Ltd

International Lapping and Polishing Machine Systems

Lee Mill Industrial Estate, Ivybridge, Devon, PL21 9EN UK

T: + 44 (0)1752 893191 F: + 44 (0)1752 896355 E: sales@lapmaster.co.uk

www.lapmaster.co.uk

