

PRECISION PNEUMATIC LIFT FLAT LAPPING MACHINE



The Lapmaster Model 48 is equipped with a 48 inch (1219mm) diameter lap plate. This is manufactured from Grade 300 grey cast iron to ISO 185(2005). It consists of individual segments bolted to a support plate.

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

Pressure weights 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.

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, which reduces the risk of injury 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 machine is intended for use with free abrasive compounds. A dispensing system, for use with water and diamond compounds etc., can also be fitted.

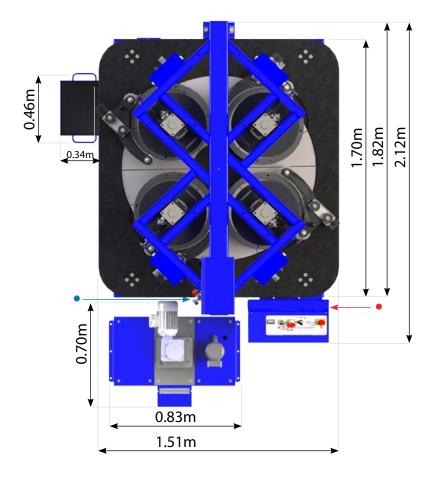
STANDARD FEATURES

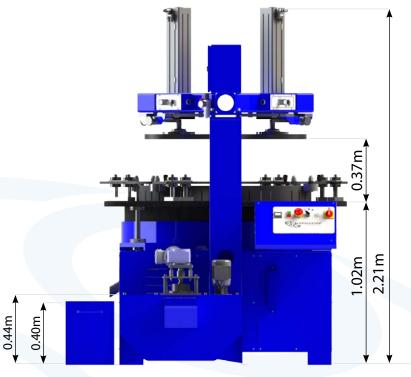
- Heavy duty floor standing base with integrally mounted drive motor, reduction gearbox and abrasive distribution system.
- Range of loads for pressure weights 45 kg to 296 kg.
- Heavy duty work table, vertically adjustable.
- Four conditioning rings, with adjustable, sealed roller bearing yoke assemblies to maintain lap flatness.
- Free standing abrasive system complete with pump and multiple point compound distribution.
- High torque drive unit consisting of 7.5kW motor and reduction gearbox. Lap plate speed 48 rpm.
- Operator controls at 110V, 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 segmented (serrated) lap plate.
 1219mm O.D. x 330mm I.D.
- Four high density cast iron serrated conditioning rings.
 508mm O.D. x 432mm I.D.
- Four blank workholder discs.
- Four felt pads.
- Operation and maintenance manual.

MODEL 48 - PRECISION PNEUMATIC LIFT FLAT LAPPING MACHINE





OPTIONAL TOOLING

- Flatness gauge.
- Solid stainless steel backing plates.
- Composite faced segments.
- Polishing pads.

OPTIONAL FEATURES

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

APPROXIMATE WEIGHT

• 4000 kg.

SERVICES

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

(if applicable).

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International Lapping and Polishing Machine Systems

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