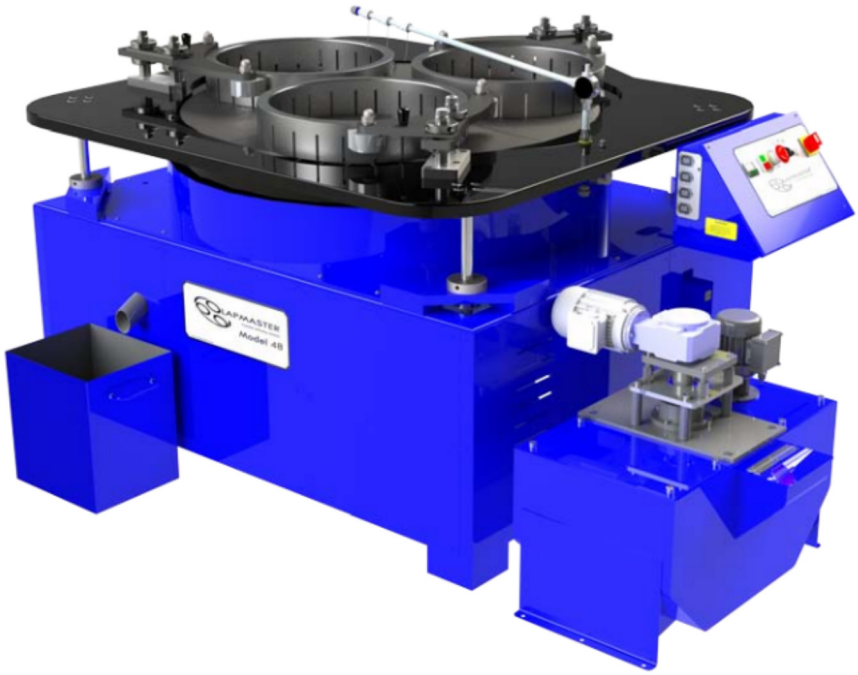
48

LAPMASTER®

PRECISION OPEN FACE 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.

Outlets are provided to feed each conditioning ring via a track wire, with individual control valves. This system is designed so that a circulatory flow is established. The pump is capable of delivering far more compound to the outlets than is necessary.

Excess compound is returned to the reservoir via a sloping drain tube. This together with the constant agitations provided by the stirrer minimises the tendency of the abrasive grains to settle out in the vehicle.

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.

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 lap plate drive system uses a separate motor and worm & wheel mechanical reduction gearbox with multi-belt drive. and is mounted in a floor standing base.

This base is a fabricated steel channel framework with removable panels for ease of access during maintenance.

The drive system incorporates an electronic soft start which will smoothly accelerate the lap plate from standstill to full speed over a controlled time period. This is preset, though can be adjusted if required, to suit particular process conditions.

This machine is also available in a pneumatic lift version. See appropriate datasheet, available on request.

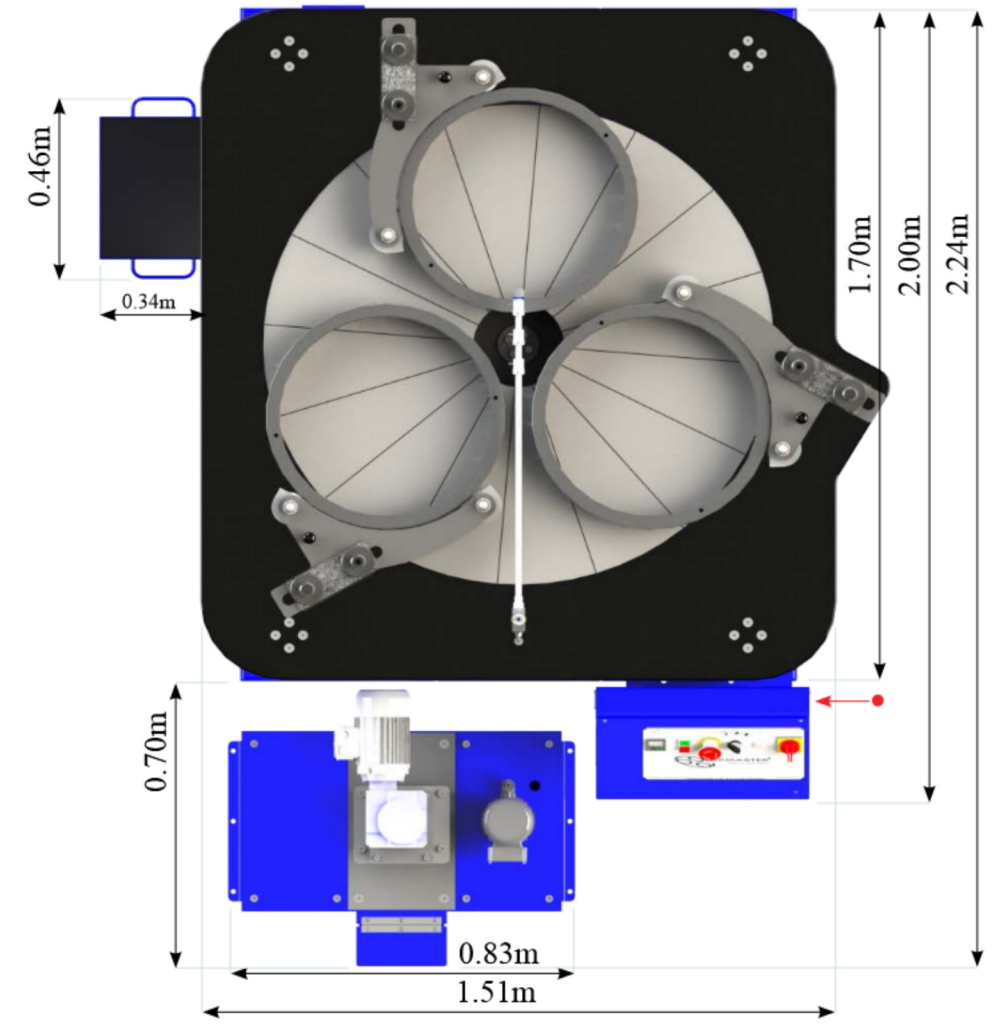
STANDARD FEATURES

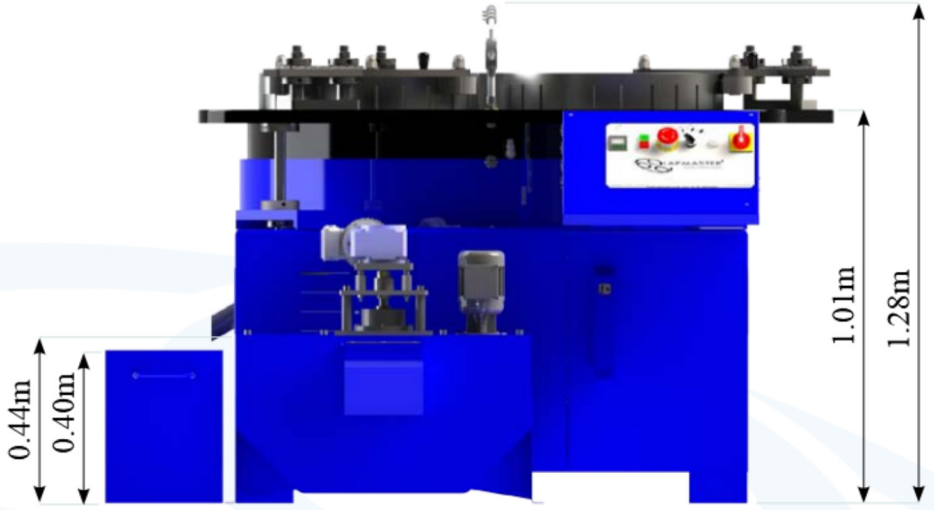
- Heavy duty floor standing base with integrally mounted drive motor, reduction gearbox, abrasive distribution system, complete with control panel.
- Heavy duty work table, vertically adjustable.
- Three conditioning rings, with adjustable, sealed roller bearing yoke assemblies to maintain lap flatness.
- Free standing abrasive system complete with pump and driven stirrer tank with multiple point distribution.
- High torque drive unit consisting of 7.5kW motor and reduction gearbox. Lap plate speed 48 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 segmented (serrated) lap plate.
  1219mm O.D. x 578mm I.D.
- Three high density cast iron serrated conditioning rings.
  570mm O.D. x 505mm I.D.
- Three blank workholder discs.
- Operation and maintenance manual.

MODEL 48 - PRECISION OPEN FACE FLAT LAPPING MACHINE





OPTIONAL TOOLING

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

OPTIONAL FEATURES

- Four ring model.
- Pneumatic lift version.
- 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

- 3400 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

Lapmaster has a policy of continued development and the specifications outlined in this document are subject to change without notice.