

DL175

LAPMASTER®

PRECISION DUAL FACE LAPPING / POLISHING MACHINE



The Dual-Lap 175 is a small but versatile bench mounted machine ideally suited for small workshops and laboratories.

This Lapmaster line of dual face lapping/polishing machines are based upon a two way planetary concept designed to yield very precise and repeatable results at an economical price. Excellent results have been obtained in the processing of a wide range of materials and components including glass, ceramics, crystals and ferrous materials.

Only the Inner and Outer Gears rotate allowing the carriers to move around the surface of the stationary plates.

The machine is designed to Lap and Polish components on a 5 carrier format (51mm OD max component size, 20mm thick max) the components are placed in an offset position in the carrier to ensure full coverage of the lapping plate.

The machine structure comprises of a lightweight aluminium extrusion base which carries the main drive components and the drive motors.

The machine has two drive motors, each separately and independently controlled. Each Drive System is mounted in fully sealed ball race bearings to allow the smooth running of the carriers.

STANDARD FEATURES

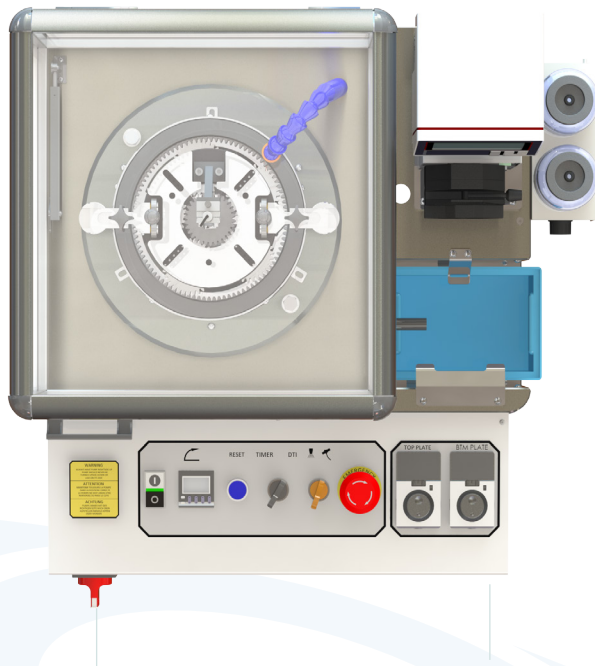
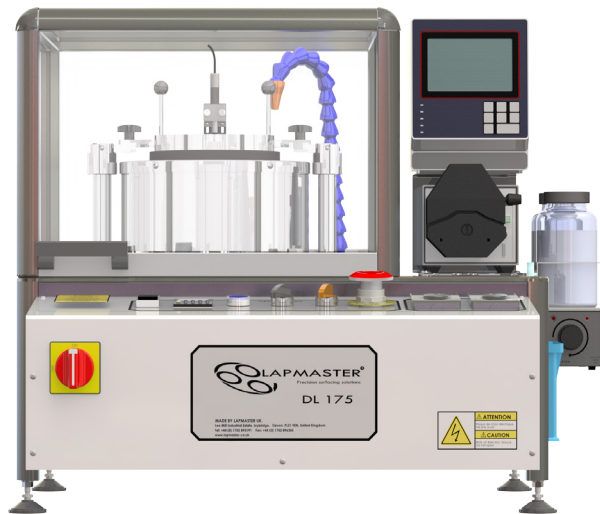
- Aluminium extrusion base
- Independent variable speed drives
- Operator controls at 24VDC.
- Interlocked guarding.
- Abrasive slurry distribution system with reservoir tank.
- Waste tank
- Outer ring gear speed 0 - 111 rpm
60W DC drive
- Inner sun gear speed 0 - 125 rpm
60W DC drive
- CE compliant
- Plate diameter 175mm
- 5kg Maximum plate force

STANDARD TOOLING

- One set cast iron lap plates
- One set cast iron conditioning gears
- One set top plate weights
- One set work carriers
- Operation and maintenance manual.

PROCESS CAPABILITIES

- Thickness +/- 0.005mm
- Flatness <0.0005mm
(component dependent)



OPTIONAL TOOLING

- Stainless steel backing plates
- Polishing pads
- Conditioning brushes

OPTIONAL FEATURES

- Electronic thickness control
- Stainless steel 316 parts for corrosion resistant processing

APPROXIMATE WEIGHT

- 80 kg

SERVICES

- Electrical: Single phase, 110V/230V, 50/60Hz

DIMENSIONS

- 630mm (h)
- 780mm (w)
- 770mm (d)

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