

DFL700

LAPMASTER®

PRECISION DUAL FACE SURFACING MACHINE



The Lapmaster DFL700 dual face lapping, polishing and fine grinding machine is based on a 3 way planetary concept, designed to yield precise and repeatable results at an economical price. Excellent results are obtained in the processing of a wide range of component materials including glass, ceramics, crystals and ferrous materials.

The DFL range of machine systems present a versatile unique solution for solving critical tolerance issues on parts requiring.

- Excellent flatness capabilities < 1u
- Part to part size variance < 4u
- Parallelism < 3u
- Surface finish < 0.25 Ra
- Typical stock removal 0.6mm

Subject to component specifications.

The operation is governed by a HMI driving a programmable logic controller. The custom software prompts the operator for specific operating parameters and stores the routine by number. Up to 10 routines can be recalled for later use.

Two hand controls permit the operator to rotate the plates and gears at a slow speed. With the top plate open the carriers can be moved to a single loading station in the front of the machine. With plate down the operator can jog the carriers to check that all of the parts are properly seated.

STANDARD FEATURES

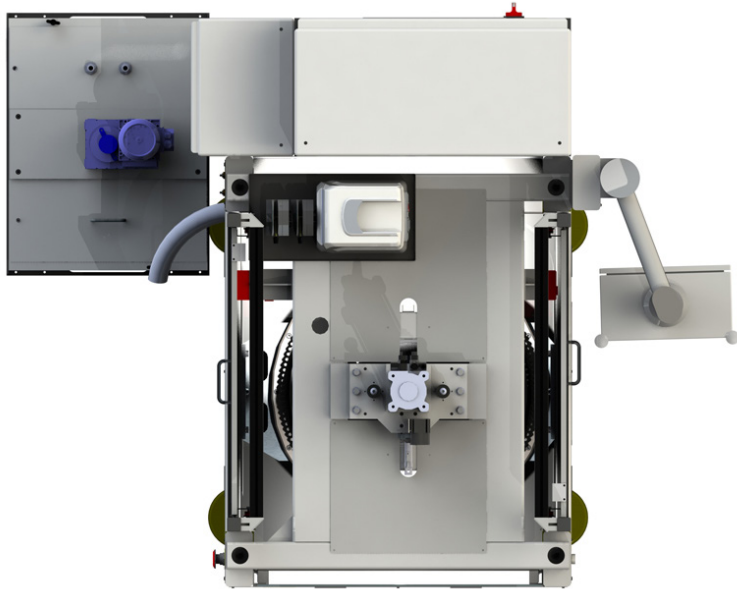
- Heavy duty fabricated base.
- Three independent variable speed drives.
- Automatic thickness control.
- Programmable process controller.
- Operator controls at 24VDC.
- Interlocked guarding.
- Pneumatic / load cell down pressure system.
- In process automatic plate flattening.
- Abrasive slurry distribution system with reservoir tank and agitator unit.
- Waste bucket
- Upper wheel speed 10 - 100 rpm 3kW
- Lower wheel speed 10 - 100 rpm 3kW
- Sun gear speed 8 - 80 rpm 2.2kW

STANDARD TOOLING

- One set cast iron lap plates, 684mm O.D
- One set cast iron serrated conditioning gears.
- One set work carriers
- Operation and maintenance manual.

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OPTIONAL TOOLING

- Solid stainless steel backing plates.
- Polishing pads.
- Composite faced plates.
- CBN and diamond pelleted grinding plates.

OPTIONAL FEATURES

- Hydro / pneumatic pressure system

PART PROCESSING

- Maximum diameter 205mm
- Maximum thickness 40mm

APPROXIMATE WEIGHT

- 1566 kg.

APPROXIMATE DIMENSIONS

- (w) 2070mm
- (l) 1294mm
- (h) 2750mm

SERVICES

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

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