

# DFL400

# LAPMASTER®

## PRECISION DUAL FACE SURFACING MACHINE



The Lapmaster DFL400 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 jog 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 pressure system.
- Abrasive slurry distribution system with reservoir tank and agitator unit.
- Waste bucket
- Upper wheel speed 10 - 100 rpm  
1.5kW
- Lower wheel speed 10 - 100 rpm  
1.5kW
- Sun gear speed 8 - 80 rpm  
1.1kW

### STANDARD TOOLING

- One set cast iron lap plates, 420mm O.D, 210mm I.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
- Pendulum arm for HMI

## PART PROCESSING

- Maximum diameter 125mm
- Maximum thickness 40mm

## APPROXIMATE WEIGHT

- 1566 kg.

## APPROXIMATE DIMENSIONS

- (w) 1460mm
- (l) 800mm
- (h) 2250mm

## SERVICES

- Electrical: 3 Phase, 50/60Hz.
- Air: 480 kPa / 4.8 bar minimum
- Water: 100 kPa / 1 bar minimum. (if applicable).

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