LAPMASTER® DFL SYSTEMS

DUAL FACE PRECISION FLAT SURFACING MACHINES



- OThe Lapmaster DFL line of dual face lapping/polishing/fine grinding machines is based upon 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 materials and components including glass, ceramics, crystals, and ferrous materials.
- OThe Lapmaster DFL series of dual face flat surfacing machines is a versatile unique solution for solving critical tolerance issues on parts requiring:

Excellent flatness Capabilities: < 1 micron Part to Part Size Variance: < 4 microns

Parallelism: < 3 microns Surface Finish: < 0.25 mm Ra Typical Material Removal:0.6 mm

OLapmaster DFL machines are built in modular fashion, capable of dual face fine grinding, lapping or polishing. Equipped with three independent drives, a standard programmable controller storing up to 20 routines, a servo motor and ball screw down pressure system and pressure controlling load cell, the DFL series of machines incorporates complete, simple, repeatable and accurate process controls.



DFL SYSTEMS

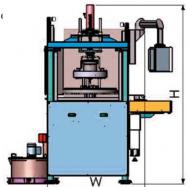
STANDARD FEATURES

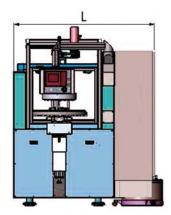
- O 3 Independent Variable Speed Drives.
- O Programmable Controller.
- O Ball Screw/Servo /Load Cell Down Pressure System.
- O Coolant System/Slurry Feed System
- O Heavy Duty Fabricated Base Construction.
- Interlock Guarding.
- O Fast/Easy Wheel Change.

OPTIONAL FEATURES

- O Vertically Adjustable.
- O Parts Load/Unload Table.
- O In-Process Sizing Control.
- Wheel Options

(Fine Grinding, Lapping, Polishing).





SPECIFICATIONS

	DFL 400	DFL 700	DFL 1000
GRINDING WHEELS (NOMINAL) 420 mm O.D.		684 mm O.D.	1050 mm O.D.
NO. OF CARRIERS	6	6	6
CARRIER PITCH/DIA.	140mm	229mm	345mm
DIMENSIONS (MM)	1000 x 1300x 2200	1200 x 1700 x 2200	1500x 2100 x 250
MAX DOWN FORCE (KG)	300	800	1200
NET WEIGHT	1800 kgs	2050 kgs	3888 kgs
DRIVE OUTPUT			
UPPER WHEEL	1.5/3 kw (20-200rpm)	3/5 kw (10-100rpm)	7.5/10 kw (8-80rpm)
LOWER WHEEL	1.5/3 kw (20-200rpm)	3/5 kw (10-100rpm)	7.5/10 kw (8-80rpm)
SUN GEAR	1.1/1.5kw (10-100rpm) 2.2/3kw (8-80rpm)	5.5/7.5kw (8-80rpm)
POWER SUPPLY	200-500V 3ph 4.1/7.5 kw	v 200-500V 3ph 8.2/13 kv	w 200-500V 3ph 20.5/25 kw

LAPMASTER®

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