

LAP MASTER[®]

CARLAP MACHINES

LAPPING/POLISHING MACHINES



2000 SERIES MACHINES

- The small 2000 series machines are designed to lap and Polish components on a 5 carrier format (40mm Max component size)
- The components are placed in an off-set position in the carrier to ensure full coverage of the lapping plate.
- The machine structure comprises a rigid welded steel frame which carries the main drive components and the drive motors.
- The machine has 2 drive systems, each independently controlled.
- Outer gear drive .95A DC drive motor. Speed 0-130rpm Inner gear drive .95A DC drive motor. Speed 0-130rpm



- Each Drive System is mounted in fully sealed ball race bearings to allow the smooth running of the lap plates.
- The motor drives are controlled by inserters and the machine runs off a 240V supply.



5000/8000/12000 SERIES MACHINES

- The mid-range series of machine is designed to Lap and Polish components on a 3/4/8 carrier format respectively (114/180/310mm Max component size respectively.)
- Once the components are in place on the machine the top plate can be lowered to make minimal contact with the components. The operator can then start the machine. Once the operator is satisfied that the components are running in the carriers correctly he can gradually apply pressure through the pressure control gauge from zero to 100%.



- Each Drive System is mounted in fully sealed taper roller bearings to allow the smooth running of the lap plates.



24000 SERIES MACHINES

- The large 2400 Carlap line of dual face lapping/polishing machines is based upon a 3 way planetary concept designed to yield precise and repeatable result 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.



- The 3 way drive concept has the top and bottom plates and sun gear running with independent drives with Variable speeds and fully reversible operation.





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 SPECIFICATIONS

MODEL	2000	5000	8000	12000	24000
PLATE SPEED	N/A	0-20 RPM	0-20 RPM	0-20 RPM	0-25 RPM
RING GEAR SPEED	94T	252T	252T	483T	364T
SUN GEAR SIZE	32T	120T	64T	64T	34T
SUN GEAR SPEED	0-135 RPM	0-40 RPM	0-40 RPM	0-40 RPM	0-75 RPM
MAX PART SIZE	40MM	114MM	180MM	310MM	640MM
NO. OF CARRIERS	5 X 32T	8 X 66T	4 X 96T	3 X 160T	3 X 165T
CONDITIONING GEARS	5 X 32T X 10MM	8 X 66T X 12MM	4 X 96T X 12MM	3 X 160T X 12MM	3 X 165T X 12MM
MACHINE SIZE	600 X 870 X 370	2100 X 1000 X 740	2100 X 1000 X 780	2100 X 1300 X 1000	3000 X 2000 X 2000
STANDARD ELECTRICS	240V 1PH 50 OR 60HZ	240V 1PH 50 OR 60HZ	240V 1PH 50 OR 60HZ	240V 1PH 50 OR 60HZ	415V 3PH 50 OR 60HZ
MAIN DRIVE POWER	0.85 A	0.75KW	0.75KW	1.1KW	11KW
GROSS WEIGHT	73KG	500KG	500KG	800KG	3800KG

2000 SERIES MACHINES

STANDARD FEATURES

- High density cast iron serrated lap plates.
- 1 set of cast iron conditioning gears.
- 1 set of blank work holders.
- Operation & maintenance manual.

OPTIONAL FEATURES

- Automatic Sizing.
- Abrasive delivery system with agitator.

5000/8000/12000 SERIES MACHINES

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- 1 set of cast iron conditioning gears.
- 1 set of blank work holders.
- Operation & maintenance manual.

OPTIONAL FEATURES

- Automatic Sizing.
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24000 SERIES MACHINES

STANDARD FEATURES

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- 1 set of cast iron conditioning gears.
- 1 set of blank work holders.
- Operation & maintenance manual.
- Automatic Sizing.
- Abrasive delivery system with agitator.



Lapmaster International
 501 West Algonquin Road
 Mount Prospect, IL 60056 U.S.A.
 telephone 224.659.7101
 fax 224.659.7103
 toll free 877.FLATNESS
 web www.lapmaster.com

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