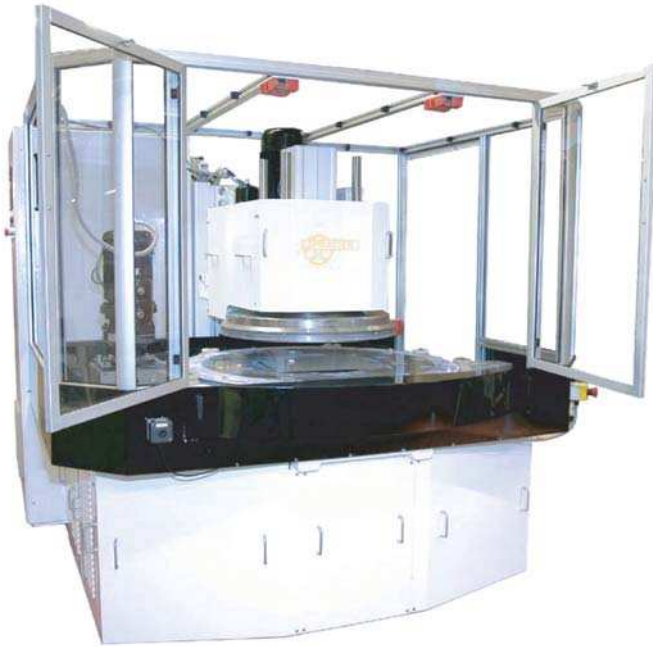


MODEL DFO 700 DUAL FACE OSCILLATING OPTICAL POLISHING LAPPING MACHINE



- The Lapmaster DFO700 is a 5-way infinitely variably stroked oscillating optical polishing/lapping machine with a sophisticated control system. It can execute complex polishing/ lapping routines while producing precise and repeatable results.
- Depending on the application the DFO700 utilizes fixed polishing pads with a polishing medium or a loose abrasive for lapping or polishing a wide range of materials to very tight specifications.
- The DFO700 represents the state of the art in precision optical polishing/ lapping technology with many advantages over traditional processes. The polishing/lapping process is fully programmable in auto or manual mode with adjustable stroke, oscillation and reciprocation producing an infinitely variable motion ensuring the work piece never follows the same path which eliminates problems associated with conventional methods.
- The DFO700 is driven by 5 variable speed motors which are all independently controlled for maximum process control and flexibility. In process down pressure is pneumatically regulated and continuously monitored by load cell.
- The machine is operated through a fully programmable interface. The custom design software allows for complete manual or automatic control of up to 10 programs each with up to 10 different process steps which can be recalled for later use.
- The work holder is driven for smooth action while processing fragile parts. Plates, carrier, oscillation and reciprocating speeds and acceleration are precisely controlled through AC frequency converters for gentle machine cycle start and end steps.
- The DFO700 is built on a heavy duty fabricated frame. Wetted parts and hardware can be made of corrosion resistant materials as an option.
- The entire head assembly is supported by a heavy duty fabricated stanchion and pivoting gantry system that can raise, lower or swing out of the way and a manual jog feature is also included for ease of loading and unloading.
- The exposed rotating parts are enclosed in a polycarbonate and alloy structured guarding system with fully interlocked doors allowing full and safe access to worked components.
- An optional abrasive feed cooling system and/or bottom plate cooling system with separate chiller can control working temperature for guaranteed thermal stability.

LAPMASTER®

MODEL DFO 700

STANDARD FEATURES

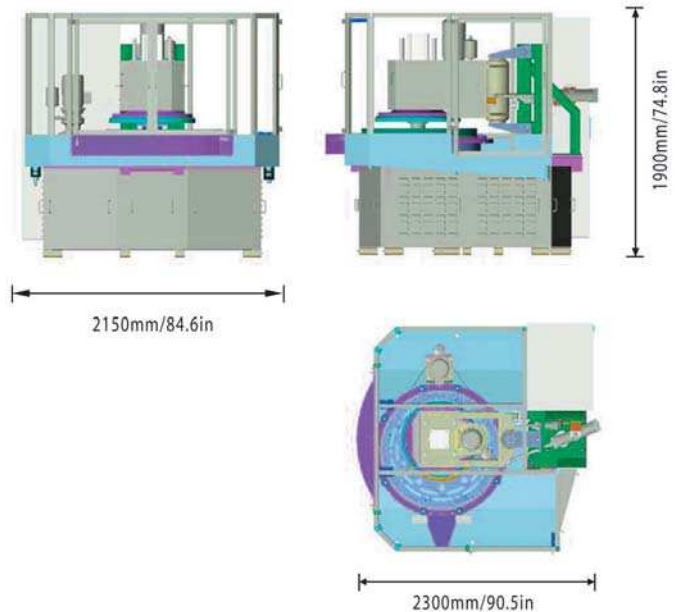
- Programmable process control.
- Pneumatic top plate control with precise in-process monitoring by load cell.
Loads to 363Kg/800Lb
- Five independently controlled plate and work piece carrier drives.
- Transparent interlocked safety guards with machine access to two sides.
- Anti-vibration mounting and leveling pads.
- Abrasive dispensing system.
- Jog facility for easy loading and unloading.

STANDARD TOOLING

- Two polishing/lapping plates.
Dimension: 700mm/27.5in O.D.
- One set of dresser/conditioner as required.
- One set of work piece carrier to suit.
Dial type precision flatness gauge.
- Set of Allen keys.
- Operating and maintenance manual.

MACHINE SPECIFICATIONS

- Upper Plate Drive 4 KW
RPM range 8-80
- Lower Plate Drive 4 KW
RPM range 8-80
- Carrier Plate Drive 1.5 KW
RPM range 8-80
- Oscillation Drive 1.5 KW
RPM range 10-60
- Reciprocating Drive 4 KW
RPM range 10-60
- Number of Carriers 1
- Carrier Diameter 1000mm/39.4in
- Max part diameter 630mm/24.8in



PACKING SPECIFICATIONS
Weight: 3207Kg/7055Lb
Net weight: 3951Kg/8692Lb

AVAILABLE OPTIONS

- Water cooled bottom Plate complete with temperature control and 5kW chiller system.
- Corrosion resistant wetted parts and hardware.
- Machine to suit electrical supplies.



Lapmaster International
6400 West Oakton Street
Morton Grove, IL 60053 U.S.A.
telephone 847.967.2975
fax 847.967.3903
toll free 877.352.8637
web www.lapmaster.com

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