



## MODEL 12

PRECISION OPEN FACE FLAT LAPPING MACHINE



- The Lapmaster Model 12 is a bench mounted unit with a rigid, lightweight, cast aluminum base. The machine is of the "ring lapper" configuration, enabling high standards of flatness and surface finish to be routinely achieved.
- In-process lap plate flatness control is provided for by three conditioning rings which locate in yoke/rollerbearing assemblies. Workpieces are located within carriers or appropriate fixtures which run within the rings. Large parts of cylindrical shape can be substituted for the rings.
- The Model 12 is equally at home in the laboratory or the production shop.
- In the laboratory, the Model 12 can be used to process a wide variety of materials on an experimental basis. These results can then be applied to a production situation.
- In the production shop, the Model 12 is ideally suited for lapping either low or high production jobs. In-shop lapping reduces individual component cost and equipment maintenance expense. Worn parts are reconditioned and salvaged thus reducing scrap. Valve bodies, discs, gears, vanes, valve plates and shaft seals are only a few of the components benefiting from the lapping process.

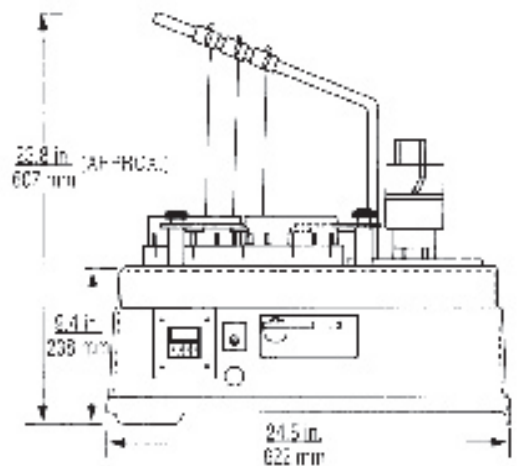
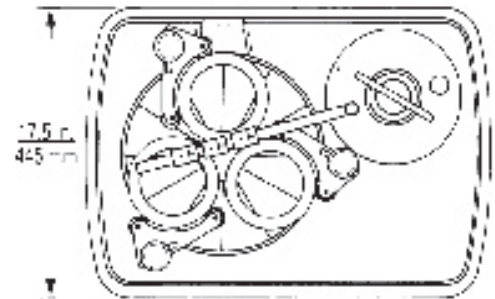


## MODEL 12 STANDARD FEATURES

- Heavy duty cast aluminum base.
- Three conditioning rings with roller yoke and bearing assemblies to facilitate in - process plate flatness control.
- Abrasive feed system designed for water or oil based lapping slurries, consisting of a 1/25hp/0.03 kW pump, tank and three outlet system with individual variable flow control. This permits uniform lapping rates at each work station.
- Electrical system wired for 110 volts, 60 hertz, 1 phase.
- Automatic digital cycle timer: time ranges from 0.1 to 999 seconds, minutes, hours.
- High torque drive unit with 1/3hp/ 0.25 kW motor and gear reducer.

## STANDARD TOOLING

- High density, cast iron radially serrated lap plate 12" O.D. x 3" I.D. / 30.5cm O.D. x 7.6cm I.D.
- Three high density cast iron serrated conditioning rings. 55/8" O.D x 41/4" I.D./ 14.3cm O.D x 10.8cm I.D.
- Three high density cast iron pressure plates with lifting eyebolts 43/16" dia. x 11/4" thick / 10.6cm dia. x 3.2cm thick.
- 12" / 30.5cm hardened straight edge.
- Three micarta workholder discs 43/16" dia. x 1/8" thick / 10.6cm dia. x 0.3 cm thick.
- Three sponge rubber pads 43/16" dia. x 1/2" thick / 10.6 cm dia. x 1.3cm thick.
- Starter sample of Lapmaster abrasive.
- Starter sample of Lapmaster vehicle.
- Operation and maintenance manual.
- Allen wrench.
- Vinyl machine cover.



Weight: 135 lbs/61 kg

## AVAILABLE OPTIONS

- Soft - start (to cushion start-up).
- Electronic variable speed drive, 0-70 rpm.
- Diamond slurry dispensing systems.
- Various lapping/polishing plates.
- Non - standard voltages.
- Custom machines and tooling.



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.