

The FORCIMAT® is a microprocessor controlled sample mover designed to be used with the GRIPO® series of grinder/polishers. The FORCIMAT® is ideally suited for small or medium sized laboratories where modest quantities of samples are prepared or where consistent results are desired.

- Cost Effective ...
- Adjustable Individual Sample Force Application ...
- Single Sample Capability (without the use of dummy samples) ...
- Adjustable Drip Lubricator ...
- Consistent and High Quality Results ...
- Quick and Easy Operation ...



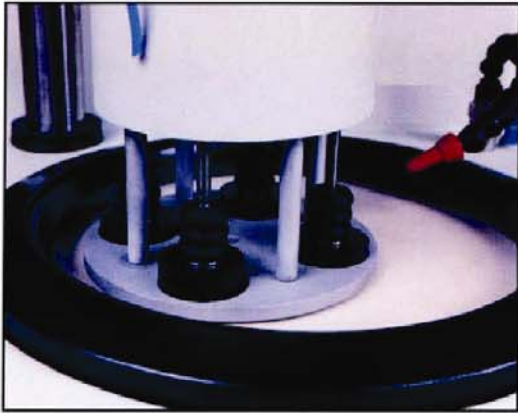
Design

The FORCIMAT® Automatic Head is mounted on a rigid hardened post which is affixed to the base of the GRIPO® machine. It can be adapted to any model of the GRIPO® series and is easily and rapidly positioned by means of a quick-locking clamping mechanism. The sample holder is driven by a 60 W (1/12 HP) DC motor at 90 rpm. The pneumatically applied individual force is adjustable between 5 N (1.1 lb.) and 60 N (13.5 lb.) from the front panel and is displayed on a gauge. The housing is made of GRP with a touch-pad front control panel.

An adjustable and exchangeable drip lubricator is standard and the dosing level is done through an adjustable flow valve. A choice of easily exchangeable sample holders (4 samples) from 25 to 40 mm and 1" to 1½" diameter is available for use on the FORCIMAT®.

Automatic Operation

The samples (1 to 4) are placed in the sample holder and the dosing level of the drip lubricator is adjusted. Sample force is set on the front panel of the FORCIMAT®. Cycle time, wheel speed and direction are set on the control panel of the GRIPO® grinder/polisher. When the start button is depressed, both the FORCIMAT® and GRIPO® start operating simultaneously. Upon completion of the cycle, both instruments stop and an audible signal informs the operator.



Ordering Specifications:

Order No.: 40 00 10 FORCIMAT® Automatic Sample Mover, microprocessor controlled, pneumatically adjustable individual force loading system, touch-pad control panel, audible signal, communication capability with all GRIPO® grinder/polishing machines. Steel mounting post and one standard drip lubricator, (LESS Sample Holder). Otherwise complete and ready for installation on the GRIPO®. 115 V., 60 Hz., 1 phase. Operating instructions. *Requires clean/dry air supply of 6 bar (90 psi)*

Technical Data:

Mains power: 115 V., 60 Hz., 1 ph.
Motor: 60 watts (1/2 HP)
Rotational Speed: 90 rpm
Sample Capacity: 1 to 4
Individual Sample Force: Minimum 5 N (1.1 lb.) to 60 N (13.5 lbs.)
Compressed Air Supply: 6 bar (90 psi)
Dimensions: 220 mm W x 450 mm D x 380 mm H (8.75" W x 17.7" D x 15" H)
Weight: 12 kg (26.4 lbs.)

Optional Accessories and Sample Holders:

Order No.: 40 00 11 Additional Drip Lubricator
40 00 12 Sample Holder 4 x 25 mm Ø or 1" samples.
40 00 13 Sample Holder 4 x 30 mm Ø samples.
40 00 14 Sample Holder 4 x 40 mm Ø samples.
40 00 15 Sample Holder 4 x 1¼" Ø samples.
40 00 16 Sample Holder 4 x 1½" Ø samples.
40 00 17 Blank Holder (Customer to custom size)