

## FL-15V FASTLAP™ Lapping System



Model FL-15VP (Pneumatic) shown above  
Model FL-15V (Hand Weight) shown below



Versatility and speed are the hallmarks of Engis lapping and polishing machines.

The FL Series of floor standing lapping & polishing systems is engineered to maximize the efficiency of diamond lapping and polishing processes, while giving operators optimal production speed and quality control. This results in maximized part quality, increased throughput and reduced per-piece finishing costs.

The FL-15 features a durable variable speed drive and control which allows continuous speed settings up to 90 RPM. The FL-15VP pneumatic version offers a robust tripod support structure handling up to 100 pounds per head for demanding applications. Floor standing and hand weight versions are also available.

Heavy duty steel frame construction, high torque gear box and a heavy duty spindle bearing make design and engineering second to none. This makes the FL system both fast and flexible, capable of processing a wide range of compound semi-conductor, advanced, industrial grade and other specialty materials.

FastLap machines are available in models utilizing 15", 20", 24", 28", 36", 42", 48" and 60" lapping plates.

### Standard Features:

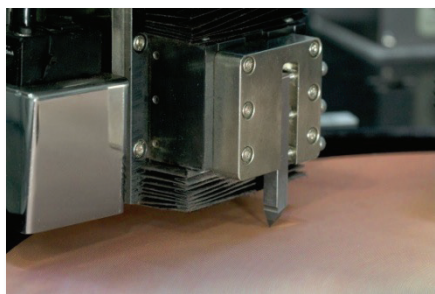
- Machines available in eight plate sizes: 15" / 20" / 24" / 28" / 36" / 42" / 48" / 60"
- Soft start ramp up to protect parts during start up
- Corrosion-resistant worktable, chrome pressure plates, arms and hardware
- 3 Ring Arms – roller yoke type with adjustment for both inward and outward positioning

### Options:

- Dust cover
- Heavy duty steel workbench
- Water cooling system (lap plate)
- Customization packages are available
- Abrasive pump
- Abrasive slurry reservoir
- Stainless work & drainage area
- Integrated plate facing and/or grooving (requires floor standing model machine)
- Power arms – motorized roller to drive work rings
- Handweight model is available

FL-15V SPECIFICATIONS:	Hand Weight Model	Pneumatic Model
Machine Weight (lbs/kg)	198 lbs / 90 kg	286 lbs / 129.7 kg
Dimensions (in/mm)	25" x 23" x 17" 635 x 584 x 432mm	25" x 23" x 42" 635 x 584 x 1067mm
Lap Plate Diameter (in/mm)	15" / 381mm	15" / 381mm
Conditioning Ring OD/ID (in/mm)	7" / 5.5" 178mm / 140mm	7" / 5.5" 178mm / 140mm
Work Stations/Rings	3	3
Work Area Available (sq.in/sq. cm)	71 sq. in 458 sq. cm	71 sq. in 458 sq. cm
Standard RPM	0-90	0-90
Work Table Height (in/mm)	17" / 432mm	17" / 432mm
Work Table Dimension (in/mm)	24" x 21" 610mm x 533mm	24" x 21" 610mm x 533mm
Main Drive Motor (H.P. rating/Kilowatts)	1 H.P. / 0.7 kW	1 H.P. / 0.7 kW
Operating Voltage	110 or 220 VAC-1 Phase	110 or 220 VAC-1 Phase
FLC @ 115 VAC	5.0A	5.0A
Required Air Pressure	N/A	0-80 PSI / 5.4 Bar
Air Consumption	N/A	1.32 CFM
Pneumatic Down-Force Range (lbs/kg)	N/A	0-100 lbs 0-45.36 kg
OPTIONAL: Water Cooling Rate @ 10 PSI	1 GPM	1 GPM

*Dimensions & Weights are Rounded*



Optional Plate Facing Device Ensures Consistent Plate Flatness



Model FL-15VPF (with Plate Facing and Main Bearing Grease Pump)



Full line of Hyprez Slurries, Accessories, Plates and Dispensing Systems are available