



Leader in Superabrasive Finishing Systems

FL-28V FastLap® System



Model FL-28VP (Pneumatic) shown above with optional Dust Cover & Hyprez Minimiser/Auto Dispensing System



Model FL-28V Non-Pneumatic (Hand Weight)

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

This 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.

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

Robust, durable, variable speed drive systems, paired with touch-screen controls, give operators a pressure range and speed settings of up to 500 pounds per head and 90 RPM, respectively.

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 semiconductor, advanced, industrial grade and other specialty materials.

LAPPING / POLISHING

FASTLAP MACHINE

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
- Water cooling system (lap plate)
- Customization packages are available
- Abrasive pump
- Abrasive slurry reservoir
- Stainless work & drainage area
- Integrated plate facing and/or grooving
- Power arms – motorized roller to drive work rings

ENGIS CORPORATION

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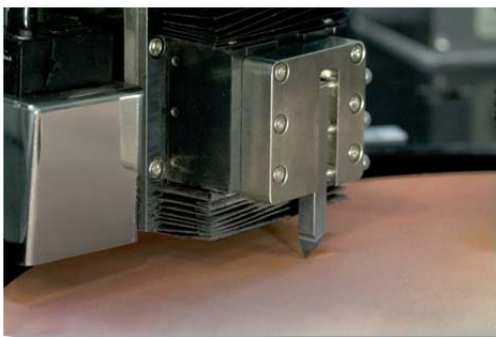
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FL-28V FastLap[®] System

FL-28V Specifications:	Hand Weight Model	Pneumatic Model
Machine Weight (lbs/kg):	1900 lbs / 953 kg	2315 lbs / 1050 kg
Dimensions (in/mm):	65" x 68" x 39" 1651 x 1727 x 991mm	65" x 68" x 79" 1651 x 1727 x 2007mm
Lap Plate Diameter (in/mm):	28" / 711mm	28" / 711mm
Conditioning Ring OD/ID (in/mm):	13.858" / 12.007" 352mm / 305mm	13.858" / 12.007" 352mm / 305mm
Work Stations/Rings:	3	3
Work Area Available (sq. in/cm):	339 sq. in 2187 sq. cm	339 sq. in 2187 sq. cm
Standard RPM:	0-90	0-90
Work Table Height (in/mm):	37" / 940mm	37" / 940mm
Work Table Dimension (in/mm):	40" x 40" 1016mm x 1016mm	40" x 40" 1016mm x 1016mm
Main Drive Motor (H.P. rating/Kilowatts):	5.5 H.P. / 4 kW	5.5 H.P. / 4 kW
Operating Voltage:	230-460 VAC-3 Phase	230-460 VAC-3 Phase
FLC @ 230 VAC:	15.0A	15.0A
Required Air Pressure (minimum):	N/A	60 PSI / 4.1 Bar
Air Consumption:	N/A	8.2 CFM
Pneumatic Pressure System:	N/A	Standard
Pneumatic Down-Force Range @ 60 PSI (lbs/kg):	N/A	0-500 lbs 0-226.8 kg
OPTIONAL: Water Cooling Rate @ 10 PSI:	1 GPM	1 GPM

Dimensions & weights are rounded.

LAPPING / POLISHING



Optional Plate Facing Device Ensures Consistent Plate Flatness



Full line of Hyprez[®] Slurries, Accessories, Lap Plates and Dispensing Systems are available



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