



Leaders in Superabrasive Finishing Systems

FL-20V FastLap™ System



Model FL-20VPF (Pneumatic) shown above with optional Plate Facing and built-in Hyprez Minimiser/Auto Dispensing System



Model FL-20V 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 200 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

Leaders in Superabrasive Finishing Systems
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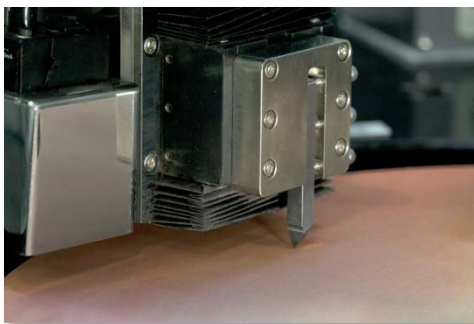
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FL-20V FastLap™ System

FL-20V Specifications:	Hand Weight Model	Pneumatic Model
Machine Weight (lbs/kg):	1800 lbs / 816 kg	2100 lbs / 953 kg
Dimensions (in/mm):	47" x 53" x 39" 1194 x 1334 x 991mm	47" x 53" x 74" 1194 x 1334 x 1880mm
Lap Plate Diameter (in/mm):	20" / 508mm	20" / 508mm
Conditioning Ring OD/ID (in/mm):	8.976" / 7.48" 228mm / 190mm	8.976" / 7.48" 228mm / 190mm
Work Stations/Rings:	3	3
Work Area Available (sq.in/sq.cm):	132 sq. in 852 sq. cm	132 sq. in 852 sq. cm
Standard RPM:	0-90	0-90
Work Table Height (in/mm):	39" / 991mm	39" / 991mm
Work Table Dimension (in/mm):	36" x 36" 902mm x 902mm	36" x 36" 902mm x 902mm
Main Drive Motor (H.P. rating/Kilowatts):	3 H.P. / 2.2 kW	3 H.P. / 2.2 kW
Operating Voltage:	230-460 VAC-3 Phase	230-460 VAC-3 Phase
FLC @ 230 VAC:	9.0A	9.0A
Required Air Pressure (minimum):	N/A	60 PSI / 4.1 Bar
Air Consumption:	N/A	3.2 CFM
Pneumatic Pressure System:	N/A	Standard
Pneumatic Down-Force Range @ 60 PSI (lbs/kg):	N/A	0-200 lbs 0-90 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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