



Leader in Superabrasive Finishing Systems

# FL-42V FastLap® System



Model FL-42VP (Pneumatic) shown above with optional Dust Cover



Model FL-42V 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 1100 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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FL42-0913





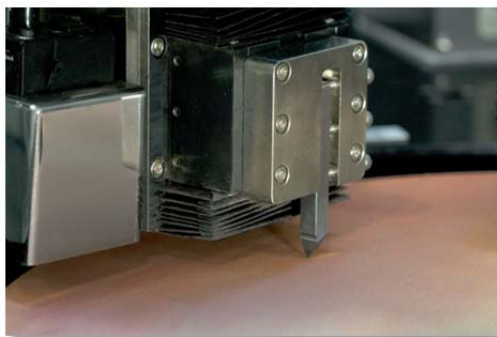
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## FL-42V FastLap<sup>®</sup> System

FL-42V Specifications:	Hand Weight Model	Pneumatic Model
Machine Weight (lbs/kg):	3000 lbs / 1361 kg	3850 lbs / 1746 kg
Dimensions (in/mm):	78" x 75" x 39" 1981 x 1905 x 991mm	78" x 75" x 84" 1981 x 1905 x 2134mm
Lap Plate Diameter (in/mm):	42" / 1067mm	42" / 1067mm
Conditioning Ring OD/ID (in/mm):	19.763" / 17.007" 502mm / 432mm	19.763" / 17.007" 502mm / 432mm
Work Stations/Rings:	3	3
Work Area Available (sq. in/sq. cm):	681 sq. in 4394 sq. cm	681 sq. in 4394 sq. cm
Standard RPM:	0-70	0-70
Work Table Height (in/mm):	37" / 940mm	37" / 940mm
Work Table Dimension (in/mm):	50" x 50" 1270mm x 1270mm	50" x 50" 1270mm x 1270mm
Main Drive Motor (H.P. rating/Kilowatts):	10 H.P. / 7.4 kW	10 H.P. / 7.4 kW
Operating Voltage:	230-460 VAC-3 Phase	230-460 VAC-3 Phase
FLC @ 230 VAC:	25.A	25.A
Required Air Pressure (minimum):	N/A	0-60 PSI / 4.1 Bar
Air Consumption:	N/A	24.2 CFM
Pneumatic Pressure System:	N/A	Standard
Pneumatic Down-Force Range @ 60 PSI (lbs/kg):	N/A	0-1,100 lbs 0-498.9 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<sup>®</sup> Slurries, Accessories, Lap Plates and Dispensing Systems are available



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