



Leader in Superabrasive Finishing Systems

# FL-48V FastLap® System



Model FL-48VP (Pneumatic) shown above with optional Dust Cover



Model FL-48V 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 1600 pounds per head and 50 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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FL48-0913





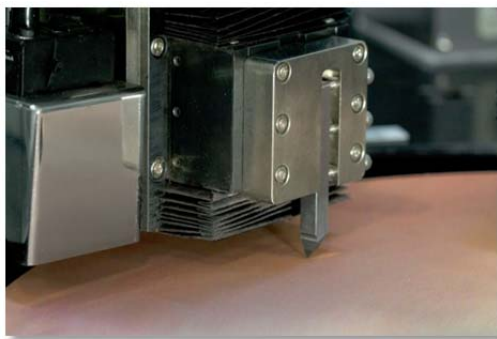
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## FL-48V FastLap<sup>®</sup> System

FL-48V Specifications:	Hand Weight Model	Pneumatic Model
Machine Weight (lbs/kg):	3300 lbs / 1497 kg	4000 lbs / 1800 kg
Dimensions (in/mm):	82" x 78" x 39" 2083 x 1981 x 991mm	82" x 78" x 84" 2083 x 1981 x 2134mm
Lap Plate Diameter (in/mm):	48" / 1219mm	48" / 1219mm
Conditioning Ring OD/ID (in/mm):	19.763" / 17.007" 502mm / 432mm	19.763" / 17.007" 502mm / 432mm
Work Stations/Rings:	4	4
Work Area Available (sq. in/sq.cm):	908 sq. in 5858 sq. cm	908 sq. in 5858 sq. cm
Standard RPM:	0-50	0-50
Work Table Height (in/mm):	37" / 940mm	37" / 940mm
Work Table Dimension (in/mm):	67" x 67" 1700mm x 1700mm	67" x 67" 1700mm x 1700mm
Main Drive Motor (H.P. rating/Kilowatts):	15 H.P. / 7.4 kW	15 H.P. / 7.4 kW
Operating Voltage:	230-460 VAC-3 Phase	230-460 VAC-3 Phase
FLC @ 230 VAC:	37.A	37.A
Required Air Pressure (minimum):	N/A	0-60 PSI / 4.1 Bar
Air Consumption:	N/A	34.9 CFM
Pneumatic Pressure System:	N/A	Standard
Pneumatic Down-Force Range @ 60 PSI (lbs/kg):	N/A	0-1,600 lbs 0-725 kg
OPTIONAL: Water Cooling Rate @ 10 PSI:	1 GPM	1 GPM

*Dimensions & weights are rounded.*

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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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