

## FL-28V FASTLAP™ Lapping System



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

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.

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.

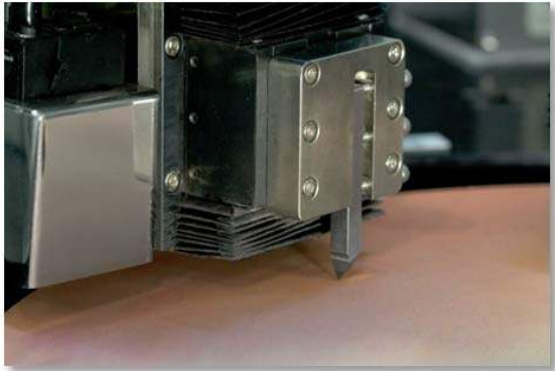
This makes the FL system both fast and flexible, capable of processing a wide range of compound semiconductor, advanced, industrial grade and other specialty materials.

### Standard Features:

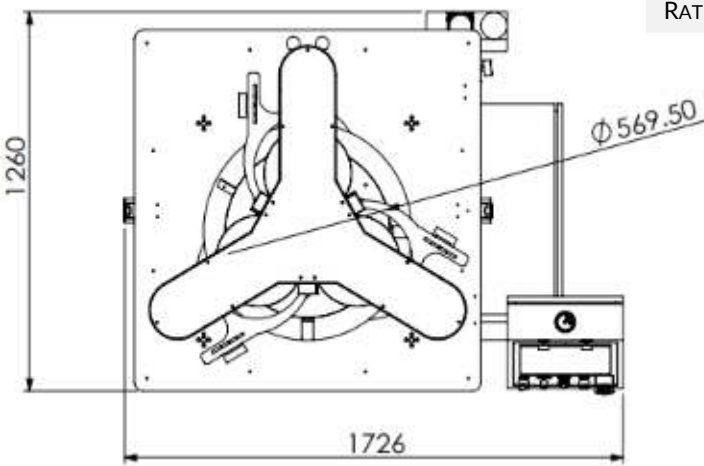
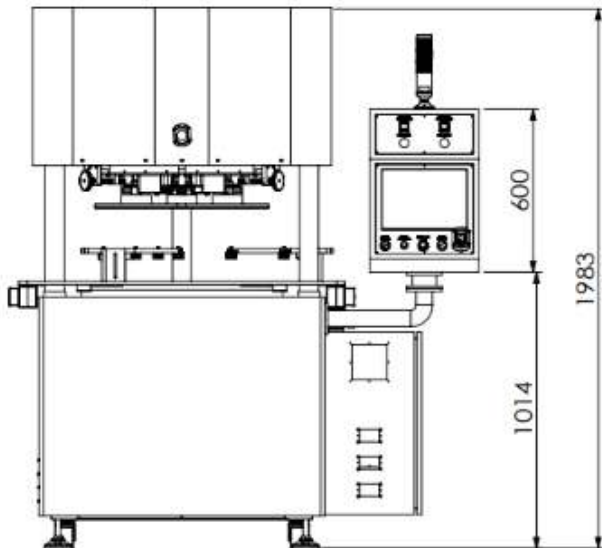
- Machines available in eight plate sizes: 15" / 20" / 24" / 28" / 36" / 42" / 48" / 60"
- Soft start ramp up to protect parts during start up
- Corrosion-resistant worktable, chrome pressure plates, arms and hardware
- 3 Ring Arms - roller yoke type with adjustment for both inward and outward positioning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

### 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
- Handweight model is available



Optional Plate Facing Device Ensures Consistent Plate Flatness



### FL-28VP FASTLAP™ PNEUMATIC SPECIFICATIONS:

MACHINE WEIGHT	1,050 kg (2.315 lb)
DIMENSIONS (IN/MM):	65" x 68" x 79" 1651 x 1727 x 2007mm
LAP PLATE DIAMETER (IN/MM):	28" / 711mm
CONDITIONING RING OD/ID (IN/MM)	13.85" / 12,007" 352MM/ 305MM
WORK STATIONS/RINGS:	3
WORK AREA AVAILABLE (SQ. IN/CM):	339 sq. in. 2187 sq. cm
STANDARD RPM:	0-90
WORK TABLE HEIGHT (IN/MM):	37" / 940MM
WORK TABLE DIMENSION (IN/MM):	40" x 40" 1016MM X 1016MM
MAIN DRIVE MOTOR (H.P. RATING/KILOWATTS):	5.5 H.P. / 4kW
OPERATING VOLTAGE:	230-480 VAC-3 PHASE
FLC @ 230 VAC:	15.0A
REQUIRED AIR PRESSURE (MINIMUM):	60 PSI/ 4.1 BAR
AIR CONSUMPTION:	8.2 CFM
PNEUMATIC PRESSURE SYSTEM:	STANDARD
PNEUMATIC DOWN-FORCE RANGE @ 60 PSI (LBS/KG)	0-500 lbs 0-226.8 kg
OPTIONAL: WATER COOLING RATE @ 10 PSI:	1 GPM

### CUTTING EDGE PROCESS DEVELOPMENT:

- The state-of-the-art Engis Industrial Markets Lab is staffed with technicians who have decades of experience in both the lapping and polishing of a wide variety of materials utilized in oil & gas, aerospace, automotive, medical, ceramic, mechanical seal and other markets.
- All supporting consumable items (slurries, compounds, lap plates and accessories) are designed to ensure consistent, efficient and effective performance.