



Leaders in Superabrasive Finishing Systems

PW-1000 Vertical Cylinder Honing Machine



- Fully guarded
- Low noise emission
- Fulfills CE Certification Standards

Vertical Honing Solution

The Engis PW-1000 is a competitively priced vertical honing solution for large and heavy components in small to medium size batches and prototypes. The PW-1000 is suitable for both through and blind bores, producing an excellent surface finish. This machine has been designed for safety, durability, efficiency and economical honing.

The PW-1000 offers precision honing and maximum power via a highly efficient hydraulic stroking motor. Stable machine design, accurate and repeatable stroking movement, the capacity to short stroke at any position and a bore diameter range of 1" – 28.35" (25.4mm–720mm) all combine to provide a versatile honing solution for a wide variety of applications.

Operational Efficiency – Reduced Cost Per Part

Compact and space saving, the PW-1000 features an integrated worktable and an easily removable 60 liter honing fluid tank with magnet and cartridge filtering system. A flexible jig and tool system and ease of access ensure swift production changeover for operational efficiency. The user-friendly controller features a digital cycle timer and includes control of the feed unit. As standard, the PW-1000 is supplied with an automatic feed system, with an optional friction feed system available upon request.

ENGIS OFFERS COMPLETE SOLUTIONS:

- Engis is the only company with a complete range of bore honing solutions: *Single-Pass, Multi-Stroke and Helical Laps.*
- Process development labs and decades of applications experience.
- Dedicated engineering teams for designing systems, tools and fixtures.
- A global presence – worldwide installation and post-sale support.

Versatile and Flexible:

- Fully adjustable spindle and stroking speeds
- Accurate and repeatable stroking movement
- Highly efficient hydraulic stroking motor
- Bore diameter range from 1" – 28.35" (25.4mm – 720mm)
- User-friendly controller
- Integrated worktable
- Automatic feed system supplied as standard
- Quiet operation

ENGIS CORPORATION

Leaders in Superabrasive Finishing Systems
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PRECISION BORE HONING





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PW-1000 Vertical Honing Machine



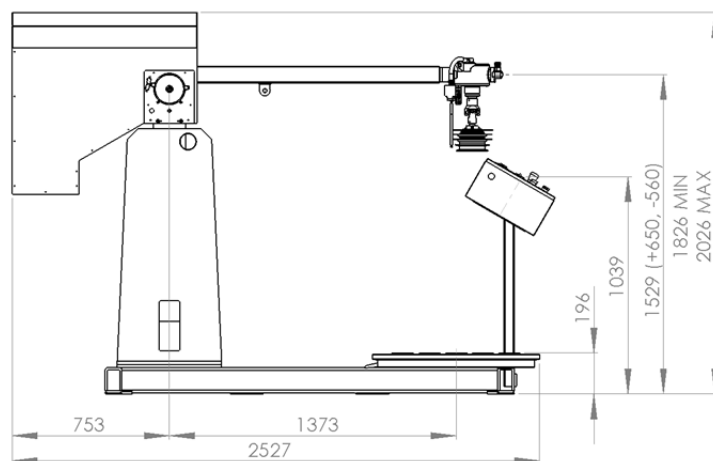
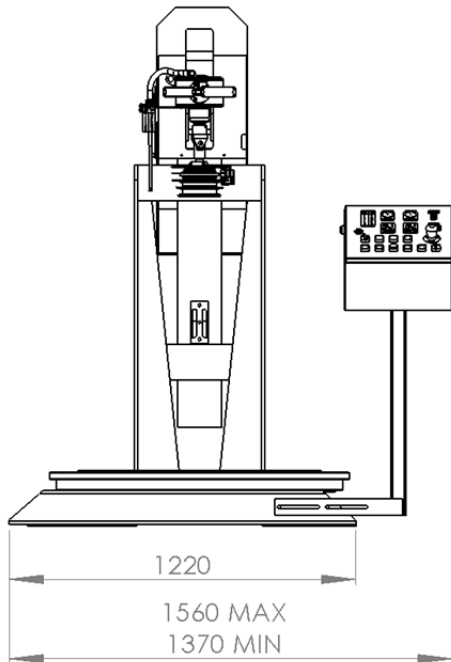
Ideal for marine cylinder liners, pump bodies, hydraulic cylinders, large valve bodies, compressor bodies.

Machining Length is Diameter Dependent

Diameter	Honing Length
1.00" (25.4mm)	15.75" (400mm)
1.25" (31.8mm)	20.47" (520mm)
1.50" (38.1mm)	23.78" (604mm)
1.75" (44.5mm)	25.98" (660mm)
2.00" (50.8mm)	29.53" (750mm)
2.25" (57.1mm)	31.97" (812mm)
2.67" (68.0mm)	39.37" (1000mm)

SPECIFICATIONS:

Diameter range:	1" – 14.5" (25.4 – 368mm) Other diameters upon request
Stroke length:	39.4" (1000mm) Fully adjustable at the spindle
Stroking motor speed:	Fully adjustable up to 20m/min
Stroking motor power:	1.5kW at 40 Bar
Spindle speed:	Fully adjustable 40 – 250 rpm
Spindle motor power:	1.5 kW
Feeding system:	Automatic – Standard Optional manually operated friction feed system available
Electrical conformity:	CE approved – conforms to BS EN 6024 and BS7671
Motor protection category:	IP54
Standard electrical supply:	480V 3 Phase 60 Hz
Control voltage:	24V DC
Dimensions:	51.2" (W) x 98.5" (D) x 71" (H) 1370mm(W) x 2527mm(D) x 2026(H)
Weight (net/gross):	1985lbs / 2205lbs 900kg / 1000kg



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