**PW-1000 Vertical Cylinder Honing Machine**

**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.

**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 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.

**ENGIS CORPORATION**

Leaders in Superabrasive Finishing Systems
105 W. Hintz Road, Wheeling, IL 60090-6038
Tel: 847.808.9400 • Fax: 847.808.9430 • Toll Free 800.99.ENGIS
www.engis.com
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PW1000-001-0915

Leaders in Superabrasive Finishing Systems

PW-1000 Vertical Honing Machine

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

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Honing Length</th>
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<tbody>
<tr>
<td>1.00” (25.4mm)</td>
<td>15.75” (400mm)</td>
</tr>
<tr>
<td>1.25” (31.8mm)</td>
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Machining Length is Diameter Dependent

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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PW1000-001-0915

PRECISON BORE HONING

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