

EAS SpeedHone

Compact, easy
operation, precision
honing for one-off and
batch production



Introduction to SpeedHone

SpeedHone is a compact machine with considerable flexibility and capability. With electronic controls, it de-skills the honing process and offers semi-automatic as well as manual operation. Tooling changes are quick and easy, making SpeedHone ideal for one off and batch production work. Honing from 1.14mm - 80mm diameter, with a increment of one micron, it has a stroke length to suit most applications and, with a wide rotational speed range, from 250-2500rpm, it is an essential machine for every tool room.

Precision Control

Reliable accuracy and consistency

- Tolerance accuracy to below 2 μ
- One micron adjustment
- Exact cycle times
- Siemens HMI screen
- Precision stock removal

Operational Efficiency

Reduced cost per part

- Repeatable full and short stroke to 0.1mm
- Fully adjustable spindle and stroking speeds
- Quick change tooling (optional)
- Push button, closed door, hands-free operation
- Operation by non-skilled workers
- Online diagnostics (via Internet)
- Reduced maintenance
- Extended tool life

Versatile and Flexible

Wide ranging application and capability

- From one-offs to batch production (1-100)
- Manual and semi-automatic operation
- Honing diameters from 1.14mm - 80mm
- Blind end bores
- Rotational speed from 250-2500rpm
- Stroke length to suit most applications

*subject to application



High quality, high performance, best value



“The value offered by SpeedHone is best measured by the flexibility it affords and the simplicity of its operation. With electronic control, including Siemens HMI, this affordable machine de-skills the honing process and achieves reliable, repeatable precision. A compact machine with big capability.”

Martin Elliott, Managing Director

Innovative in design, flexible in operation

- Clocking fixture: mandrel trued in by alignment gauge for speed & accuracy
- Foot pedal control function
- Integral coolant system
- Mach 2 LED lighting system
- Lightweight safety interlock guard

Electronic control system with Siemens' digital HMI

- Conversational programming
- Tolerance accuracy to 0.001mm
- Remote access for assistance, immediate diagnosis, rapid support



Easy operation

- Operatives can be trained in just one hour
- Can be used in manual, semi-automatic and automatic modes
- Ergonomic controls
- Electronically controlled
- Easy and rapid tool changes (circa 10 mins)
- Multiple changes per day

Compact footprint, space-efficient

- W: 823mm x D: 1410mm x H: 1331mm
- Can be lifted and relocated on standard pallet truck

Capacity and Stroke

Diameter range	1.14 – 80mm
Maximum stroke length	Fully adjustable (3-250mm)*
Stroking motor speed	Fully adjustable (1 – 25m/min)*
Stroking motor power	3 Nm
Stroking movement	Precision reciprocating ball screw
Short stroking	n/a

Spindle Drive and Stone Expansion

Spindle speed	Fully adjustable 250 - 2500 RPM
Spindle motor power	1.5 kW
Braking	Dynamic braking resistor
Feed type	Programmable electro-mechanical
Feed rate	Programmable + timer
Incremental feed	1 micron increments per second
Feed movement	Precision ball screw
Stone pressure	Programmable to 670N

Electrical Equipment

Conformity	CE approved. Conforms to Machine Directive 2006/42/EC
Motor protection category	IP54
Standard electrical supply	380 – 415V, 3 Phase, 50Hz
Control voltage	24VDC

Weight

Net	700kg
Gross	850kg

Machine

Dimensions	823mm (W) x 1410mm (D) x 1331mm (H)
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All dimensions are nominal. As a result of our policy of ongoing product development, Delapena reserves the right to revise specifications and design, without prior notice.

*subject to application

Delapena offers the complete honing solution

To optimise performance of the EAS SpeedHone

Tooling & abrasives

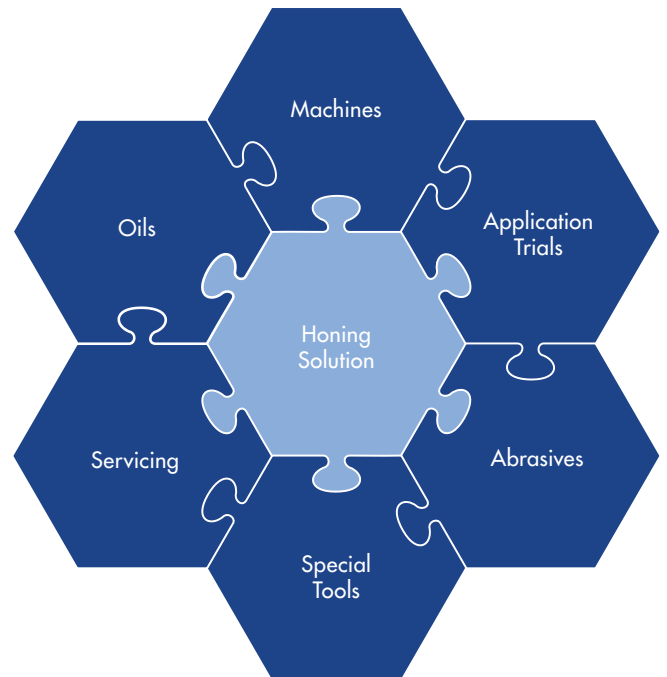
Delapena offers a complete range of horizontal, vertical and heavy duty tooling, plus special tooling which is designed and manufactured to order. Our tooling is supported by a full range of Standard and Super Abrasives to satisfy the most demanding requirements for the honing process, providing size, geometry and surface finish.

We also provide a professional refurbishment service for all variants of honing heads, to support your preventative maintenance programme.

Oils

We offer a range of high quality oils that focus upon:

- Improved surface finish
- Reduced environmental impact
- Improved operator health and safety, with low misting additives
- Improved lubricity, for reduced tool wear, better surface finishes and consistency for components
- Improved oil longevity for better value



To support use of the EAS SpeedHone

Application trials

Each application trial includes data on surface finish, cycle times, abrasives and the best honing solution for the job.

Commissioning

Every machine is commissioned by a Delapena engineer who manages the set up and provides training for all operatives.

Training & continued education

To support clients to meet their Health & Safety requirements, we offer training as required for machine operatives. This is tailored to the specific client's requirements.

Maintenance

The name Delapena is synonymous with reliability and the EAS SpeedHone is designed to be virtually maintenance free, with only annual checks required to ensure optimised operation. For reduced cost and downtime, the EAS SpeedHone can be remotely accessed via an internet connection to the Siemens control unit. This enables global remote access for assistance, immediate diagnostic assessment and rapid support.

The wider range



E1000S
ProductionHone Mini

Competitively priced NC controlled horizontal honing machine for the production of small to medium sized batches.



E2000S
ProductionHone Maxi

The next step up from the ProductionHone Mini, offering increased capacity and torque, the ProductionHone Maxi is used for bores up to 80mm diameter. A NC controlled horizontal honing machine with a wide range of rotational and reciprocation speeds, allowing the workpiece to automatically stroke over the tool.



E2000S-XL
CalibreHone

An innovative long bore precision honing machine, designed specifically to hone straight and tapered bores at lengths up to 1200mm. The CalibreHone (E2000S-XL) achieves tolerances and geometries to below 2μ , for diameters up to 50mm.



PowerHone

A competitively priced vertical honing machine for large and heavy components in small to medium sized batches and one-offs. Suitable for both through and blind bores, producing an excellent surface finish and repeatability. Designed and engineered for durability, efficiency and economical honing.



E3000S
PrecisionHone

A high precision vertical honing machine with wide ranging capability to hone parts from small scale to heavy components, with a diameter range of 1.14mm to 80mm (subject to application) and a tolerance accuracy to 0.001mm, with sub-micron adjustment.

