

Pioneering the way forward with new generation honing machines

Visitors and exhibitors at MACH 2022 will see the unveiling of delapena group's generation honing machines.

The recent couple of years has been extraordinary for all. For delapena group, it has bought challenges and uncertainties that could not have been foreseen. However, this has allowed them the ideal opportunity to invest time in R & D which has proven to be both interesting and exciting. Renowned for being innovative, industry leaders in honing, delapena are pioneering the way for Industry 4.0. Intelligent honing machines. Mach 2022 will be the first public demonstration of three new generation honing machines. PowerHone E, ForceHone and PrecisionHone.

In addition to the eagerly awaited new machines, delapena new cutting-edge iHone technology will be showcased for the first time, featured on the PowerHone E and TubeHone.



iHone software

Designed by delapena's expert team of engineers, iHone is delapena's icon-based software providing the operator with a conversational clear graphic touch screen interface. The advanced iHone software serves to simplify and speed up the honing operation. Intelligent servomotors and cutting-edge iHone technology working in unison, to guarantee a consistent crosshatch surface finish across any application.

Using Siemen's touchscreen technology we now offer a conversational style interface that is easy to use, but still packed with features. Programs are stored on the HMI screen; from creating a program, to inputting parameters, to setting and running the cycle the iHone software flows in a conversational and logical order.

setup of repeat work maximizing productivity.

delapena honing developed the ground-breaking icon-based iHone software to improve ease of use. delapena's machines are utilised across the globe, so the iHone software will be available on all their new generation honing machines.

Introducing the PowerHone E precise/versatile/efficient

The PowerHone E joins our suite of electronically controlled state-of-the-art honing machines. The PowerHone E is a vertical honing machine for large and heavy components in small to medium size batches and prototypes. Designed for both through and blind bores, producing an excellent surface finish.

Offering precision honing and maximum power via a highly efficient electric actuator. Sturdy machine design, accurate and repeatable stroking movement, the capacity to short stroke at any position and a bore diameter range from 25.4 mm to 740mm diameter, compact and space saving, all combine to provide a versatile honing solution for a wide variety of applications.

When asked about the PowerHone E, Martin Elliott had this to say: "One of our main focuses when developing these new machines was an emphasize on our Plan A statement, as a company we strive to take significant steps with innovate design to limit our impact on the environment. Bearing this in mind, the PowerHone E was progressively designed to minimize energy use. Its efficient actuator, precise stroking movement and

iHone technology, running time and cost are substantially reduced enabling this machine to be energy efficient."

One of the unique benefits offered by the machine is speed of setup. New component set up time on the PowerHone E can be on average 50% quicker.

The state-of-the-art geometric mapping software featured within the PowerHone necessitates minimum operator intervention. With delapena's revolutionary new iHone software it automatically senses abnormalities and corrects them meaning that parts are honed much faster. This leads to an overall increase in productivity and predictable cycle times.

"As a company we strive take significant steps with innovate design to limit our impact on the environment."



Much of delapena's extensive honing knowledge and best practices are packed into the iHone system, including on-screen help pages enabling the operator to diagnose geometry and finish issues on the machine.

The controller allows for extensive program storage enabling fast

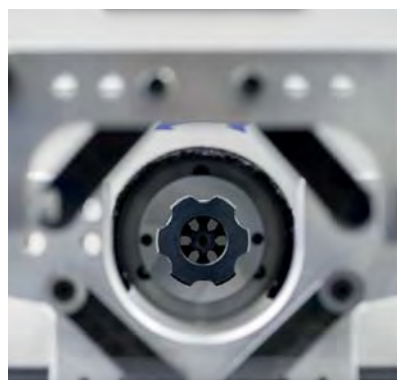


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Introducing the ForceHone rapid/powerful/robust

In toolrooms across the world, you will find a delapena SpeedHone, the compact essential honing machine. With the most skilled and experienced engineers, dexterous in the art of honing by hand are retiring from the industry, has driven the demand for intuitive programming and push-button operation.

With safe practices, easy automotive operation and the use of Super Abrasives, honing is growing in usefulness. The demand for quicker component turn-around and faster honing has led to the design and manufacture of the ForceHone, big brother to the SpeedHone.



The ForceHone, ergonomically designed with sliding guard for increased accessibility.

Featuring, innovative carriage design enabling stroke speeds up to 600 strokes per minute, stroke length up to 250mm, a powerful servo driven axis for diameters up to 80mm.

All combined with user friendly touch screen interface/push button controls and HMI screen, coupled with high performance super abrasives in unison, provides you a rapid, powerful, robust, compact honing machine.

As with the PowerHone E, delapena`s focus remained the same when designing and manufacturing the ForceHone, to limit their impact on the environment.

Introducing the PrecisionHone flagship/advanced/accurate

delapena`s flagship machine, the PrecisionHone is a vertical honing machine for production honing of small parts. Accurate and packed with features, for large batch work and tight tolerances the PrecisionHone is the machine of choice.



Designed for medium to large batches, the PrecisionHone can be configured to suit the customers` needs. The machine table can be upgraded to a rotary table or x-y table as required. Guarding can be automatic to allow integration of automatic loading systems.

Supported by delapena`s team of engineers bespoke fixtures can be designed and manufactured for almost any component. Combined with in house sintering knowledge and capabilities delapena can provide a complete honing solution with the PrecisionHone at its heart.

Your complete honing supplier

Priding themselves on their fantastic customer service and being your complete honing supplier, they can provide customers with a complete honing solution.

With in house services including tooling refurbishment, application development, training, and consultancy programs. In addition to delapena sintered products division, UK`s state-of-the-art honing abrasive manufacturing facility.

Announcing new Websites and Web shops

Live from 4th April, Mach222, delapena group will be showcasing their new websites. www.delapenagroup.co.uk, www.delapenasinteredproducts.co.uk, and www.delapenahoning.co.uk Supporting their new websites are web shops [delapenasinteredproducts](http://delapenasinteredproducts.com) with [delapenahoning](http://delapenahoning.com) coming soon.

Their team will be on hand at Mach2022, stand 20/332, to offer knowledge and advice on your honing applications and proudly unveiling of delapena group`s innovative new honing machines, PowerHone E, ForceHone, PrecisionHone and iHone technology at MACH2022.

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