

***solo*hone**®
Precision Honing Machines

 **Gehring**



 **Advanced Honing Technology**

Optimised surfaces, shapes and geometries

This machine was designed for conventional honing applications. It provides the perfect conditions for producing tribologically optimised surfaces, shapes and geometries. Developed for processing parts with honing diameters of 50 to 120 mm, its main areas of application therefore include cylinder blocks of all kinds, as well as bushings.

Versatile range of applications

The multi-purpose solohone product line is laid out for a very broad range of applications.



Cylinder block

Three models are available:

- **Solo LV1:** single-spindle stand-alone machine for simple honing applications
- **Solo LV2:** two-spindle stand-alone machine for small-scale production
- **Solo HV2:** two-spindle stand-alone machine which can be optionally equipped with a tool changer and automatic loading and unloading

Be it for special batch production, job-shops, workshop manufacturing or prototyping and trials – the solohone product line can easily be integrated into almost any production layout. Simple operation and easy maintenance, combined with the highest levels of efficiency and

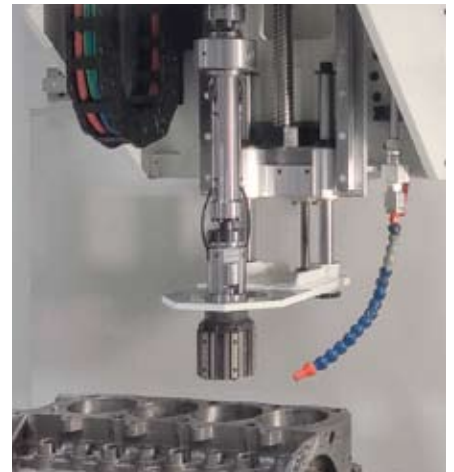


Solo LV2

cost-effectiveness, are what sets these machines apart. Moreover, the LV1 and LV 2 models with attached control cabinets are both optimised for shipment.

Short delivery times thanks to high degree of standardisation

Equipped with a fixed table and an electromechanical feeding unit with feedback as a standard, the basic machine already gives you an optimal instrument for high precision honing. Upgrading options and standardised modules allow for the machines to be optimally configured to match your specific requirements.



Solo LV1

Technical data		Solo LV1	Solo LV2	Solo HV2
Stroke length	mm	600	600	600
Diameter, nominal	mm	50 - 125	50 - 125	50 - 125
50-125		AC synchronous motor	Servomotor	Servomotor
RPM, max	1/min	150 - 450	150 - 450	150 - 450
Torque	Nm	3,7	4	4
Stroke drive	kW	Ball screw	Ball screw	Ball screw
Stroke speed, max	m/min	30	30	30
Stroke acceleration, max	m/s ²	30	30	30
Required space (WxDxH)	mm	3300 x 2600 x 2100	3200 x 3000 x 2100	3700 x 3600 x 2100
Weight, net	kg	3500	4500	9000
Noise emissions		< 75 dB(A)	< 75 dB(A)	< 75 dB(A)
Honing control		Gehring GCU 2.3		

Subject to technical changes and variations in design and configuration.

Choose from different component fixtures and process- and product-specific sub-assemblies to precisely match your specific application. Thanks to the high degree of standardisation, high levels of availability, short delivery times, and an extensive and quickly available assortment of spare parts are assured. In addition, the machine design allows for a broad spectrum of loading and unloading systems to be integrated. Our customers benefit from successfully tried-and-tested components with longevity at attractive investment costs.

Easy operation thanks to the program assistant

The program assistant considerably eases machine operation for honing newcomers as well as experienced specialists. After entering a few relevant parameters about the component, material and tool, the process and stock removal can be defined, and honing can be started once the tool has been positioned. The stroke position and all other relevant parameters for machining the component are automatically calculated.

Optimally equipped for repeat jobs

The program assistant is also optimally rounded off by a user-friendly easy-to-understand operating interface called the Gehring Operator Panel (GOP). The operator can save an almost unlimited number of processing programs and tool datasets. The integrated work report automatically determines the start point for repeat jobs, and the processing program significantly reduces the set up times for repeat jobs. Work can therefore start immediately without any time-consuming programming.



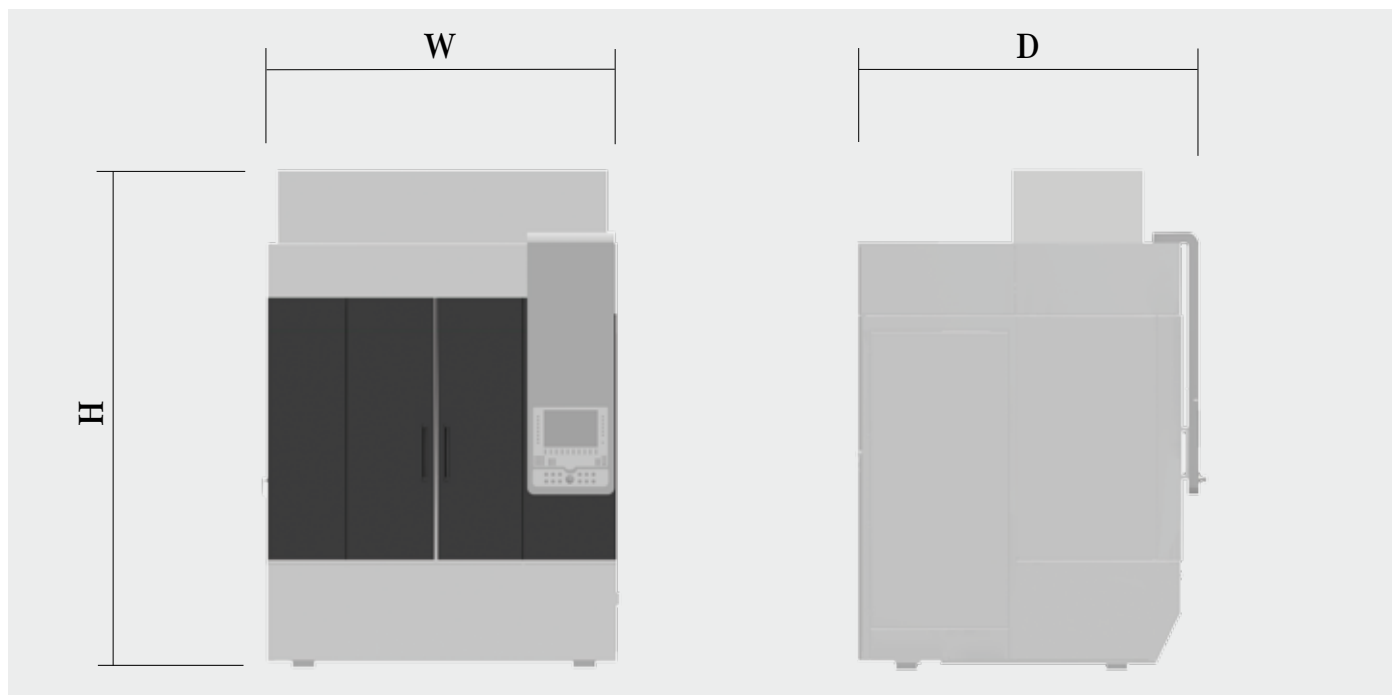
Gehring Operator Panel



Honing process



Blind bore in landing gear





High precision technology with exclusive designer looks

Another highlight of the current product line is the new design which optimally combines innovative technologies with a stylish appearance. Outstanding features such as an extremely flat operator panel and a large graphic interface provide for an excellent overview and optimum operating conditions. The combination of state-of-the-art technology and exclusive design set the course for Gehrung's continued success in the future.

Precision with the Gehrung tool concept

Precision and longevity are the hallmarks of our tooling systems. Equipped with abrasives customised for the specific applications, our tool systems guarantee the highest levels of efficiency, optimised surfaces, and the best possible bore geometries. Profit from the Gehrung tool concept which is especially customised for each machine.



Honing tool

Trust in the technology leader with many years' experience and global presence! Innovative technology combined with an economical mindset set us apart.