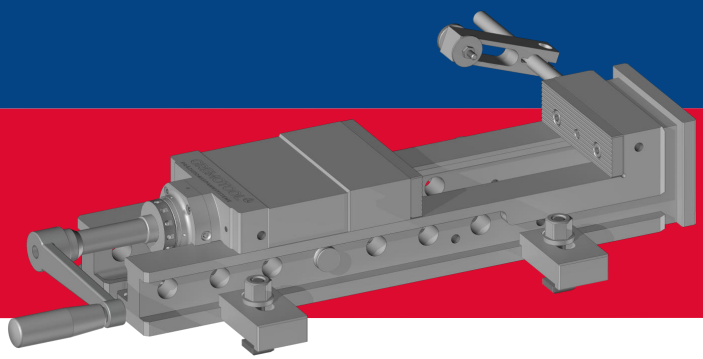
GREMOTOOL

PRÄZISIONSSPANNSYSTEME

GHS-Series



swiss made

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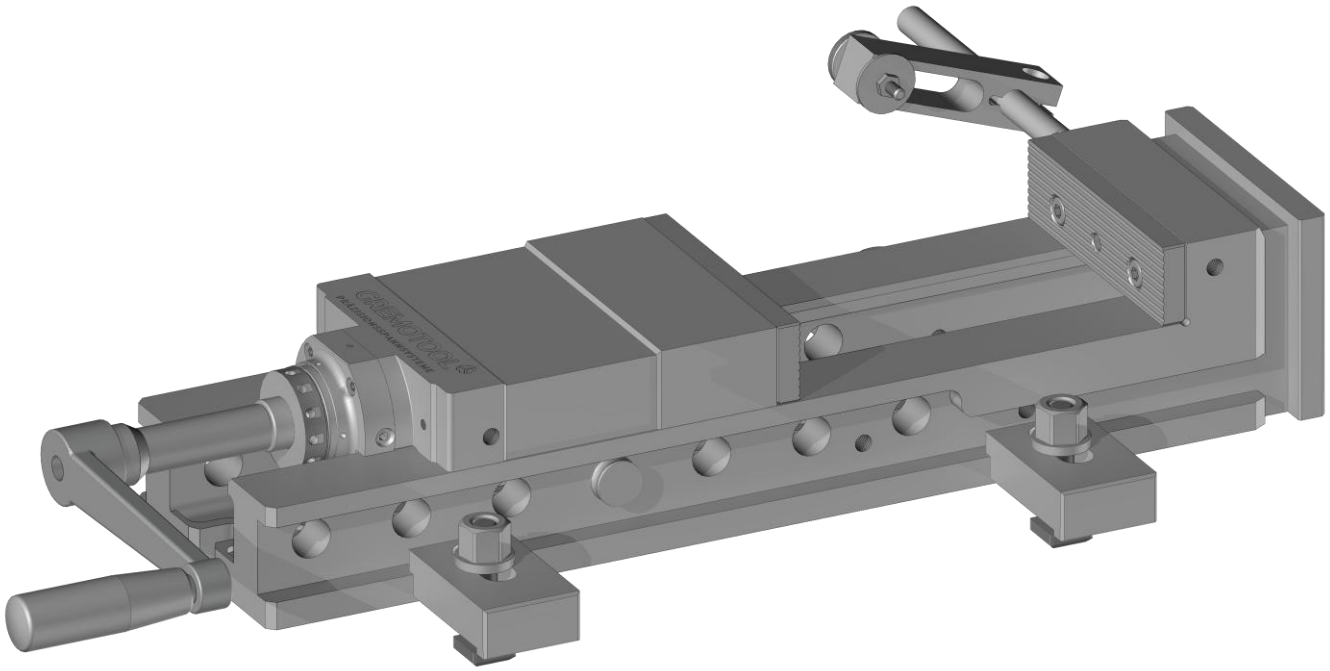
Overview

GHS-Series

Product presentation

GHS-Series

The GHS series is a machine vise suitable for all manufacturing applications. Equipped with an easy-to-operate force amplifier, it achieves maximum clamping force with minimal effort on the crank and securely fixes the workpiece. The versatile GHS series can be used for various clamping tasks.



Product presentation

Benefits of the GHS-Series

Clamping force
The high clamping forces of the GHS-series can be easily adjusted using the adjustment ring. The set values can then be achieved by turning the crank with little force. These adjustment options allow plastic workpieces to be clamped without deformation and forged parts to be clamped securely without destroying the clamp.

Clamping options
The GHS-series can be mounted on the machine table as a standard vice with fixed jaw. It can also be placed on the fixed jaw and attached to a tower or angle plate. The GHS-series can also be placed on its side to provide special clamping options.

Accessibility
The flat design of the GHS series enables installation on pallets, towers and pyramids with maximum workpiece sizes. The GHS-series has very small interfering contours, which allows the flexible production of many workpieces.

Short set-up times
The GHS-series is available with various mounting options. The standard base from Gremotool offers the option of attaching the vice easily and precisely to T-slot table, grid hole plates or pallet systems.

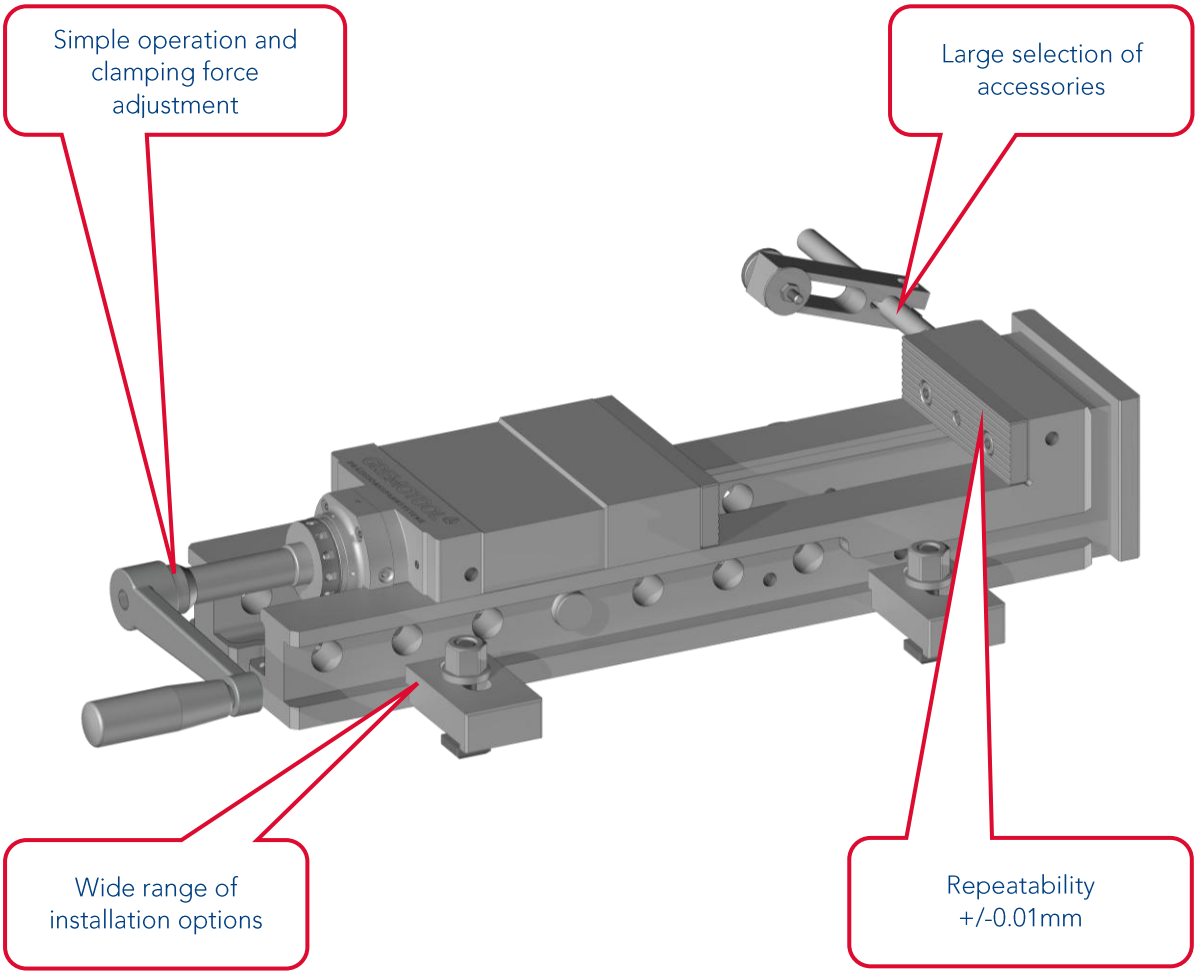
Positioning
The positioning elements can be attached through the fitting holes and slot nuts in the base of the base body. This enables a positioning accuracy of ±0.01 mm. This also allows a workpiece to be clamped across several GHS.

Low maintenance
As all parts of the clamping mechanism are enclosed, no chips or coolant can reach them. As a result, the factory lubrication is not flushed out or contaminated, which contributes to permanent lubrication.

Large range of accessories
Various jaw inserts are available for the GHS-series. From gripper jaws to soft aluminium jaws, there is something for every workpiece clamping requirement. With the angle drive, the GHS can also be driven from above and the parallels serve as workpiece supports.

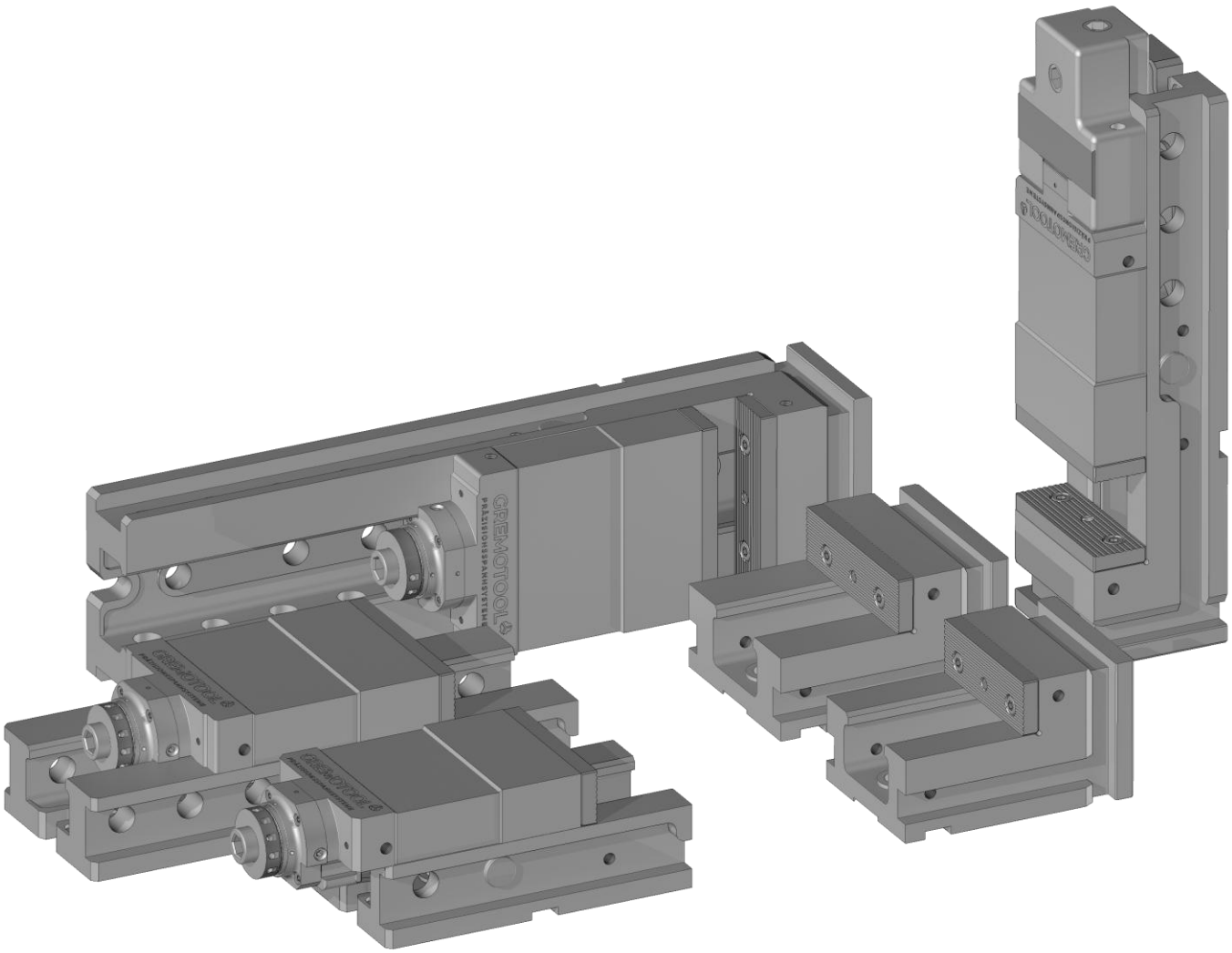
Product presentation

GHS-Series



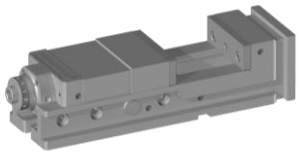
Overview of size options

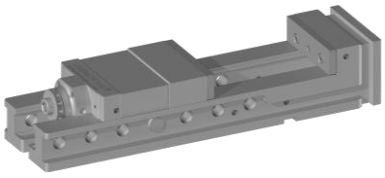
GHS-Series



Sizing guide

GHS-Series

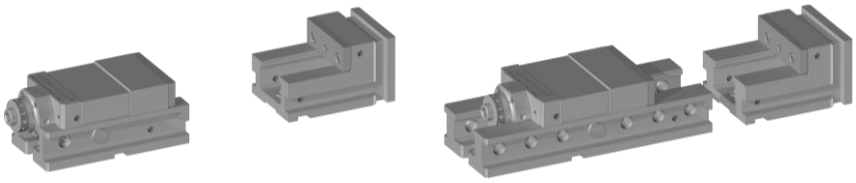




GHS-dimensions		GHS-120	GHS-140
Jaw width	**[mm]**	120	140
Clamping range	**[mm]**	0 - 200	0 - 345
Support height	**[mm]**	62	62
Max. clamping force	**[kN]**	40	40
Total length	**[mm]**	410	550
Total width	**[mm]**	120	140
Total height	**[mm]**	102	102
Mass	**[kg]**	21	31

Sizing guide

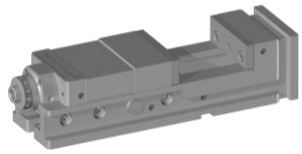
GHS-Series

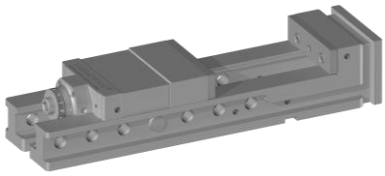


GHS-dimensions		GHS-120-5000	GHS-140-5000
Jaw width	**[mm]**	120	140
Clamping range	**[mm]**	> 0	> 0
Support height	**[mm]**	62	62
Max. clamping force	**[kN]**	40	40
Total length	**[mm]**	> 410	> 550
Total width	**[mm]**	120	140
Total height	**[mm]**	102	102
Mass	**[kg]**	21	31

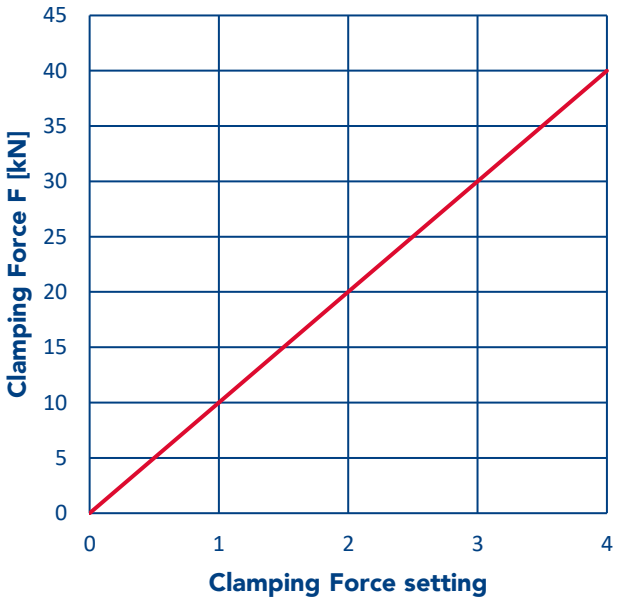
Clamping force

GHS-Series





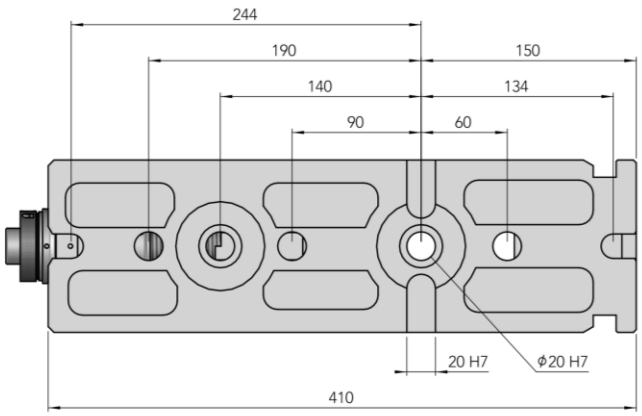
GHS-120 / GHS-140

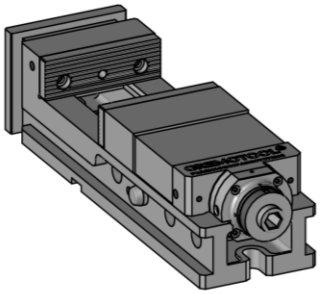


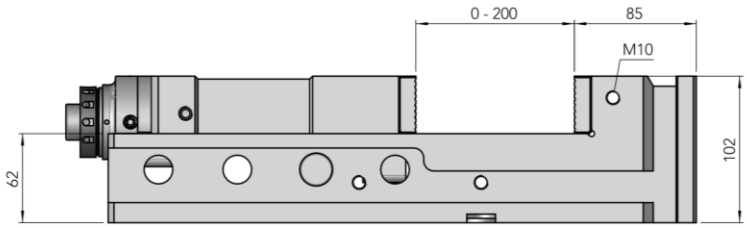
Clamping Force setting max.	4
Clamping Force setting min.	0
F max.	40 kN
F min.	0 kN

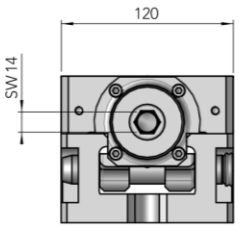
Dimension

GHS-120



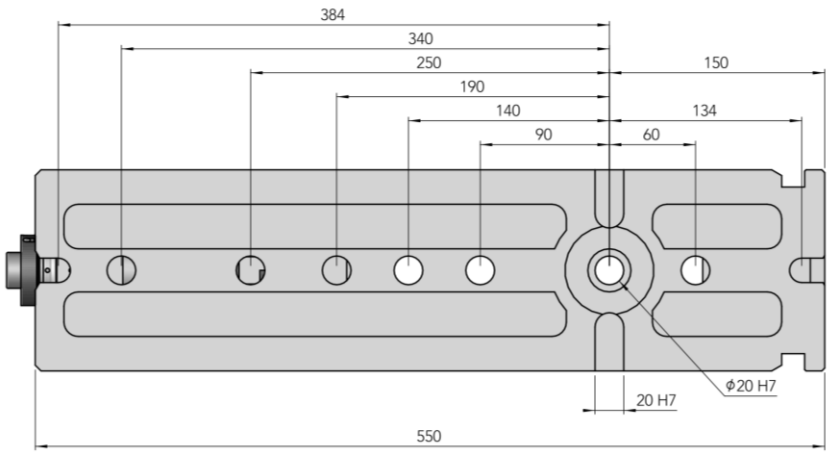


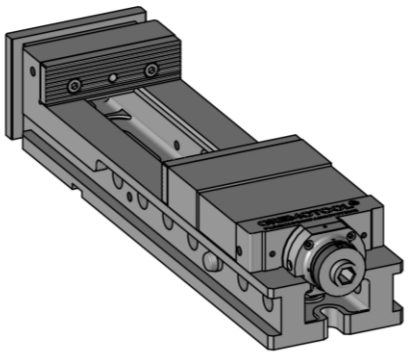


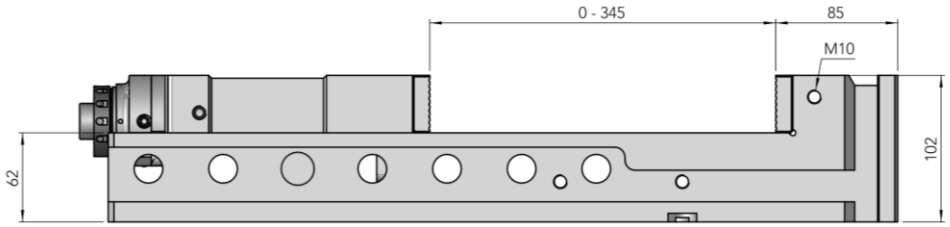


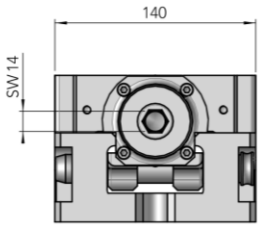
Dimension

GHS-140



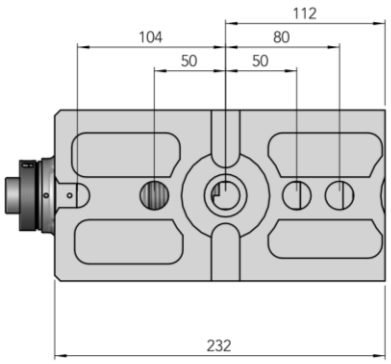


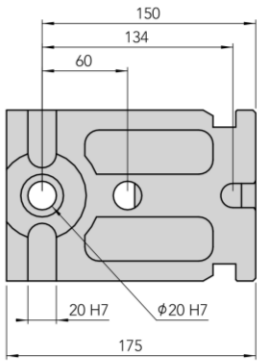


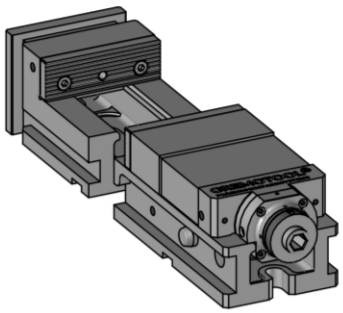


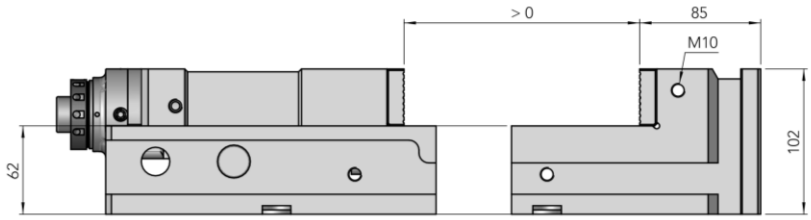
Dimension

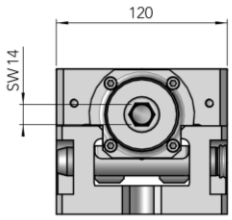
GHS-120-5000





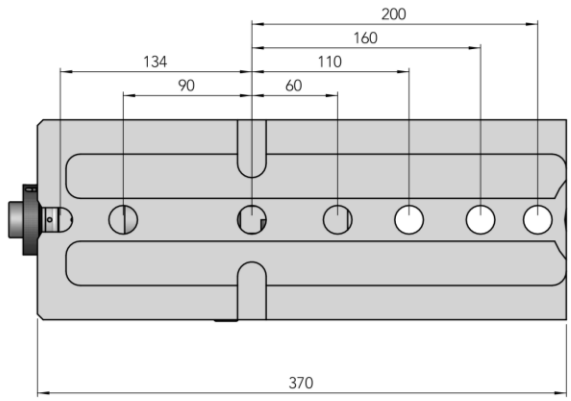


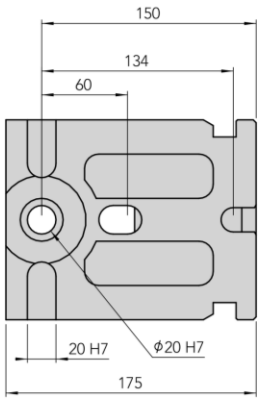


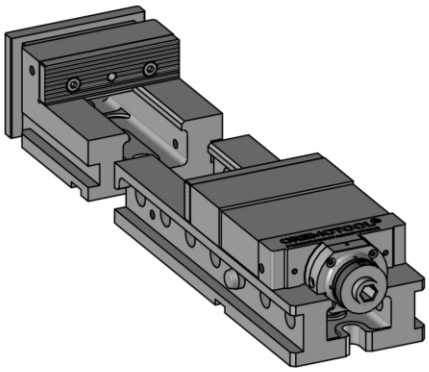


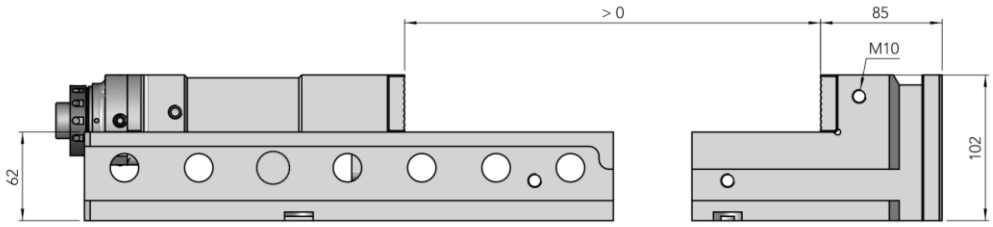
Dimension

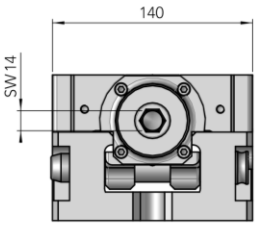
GHS-14-5000







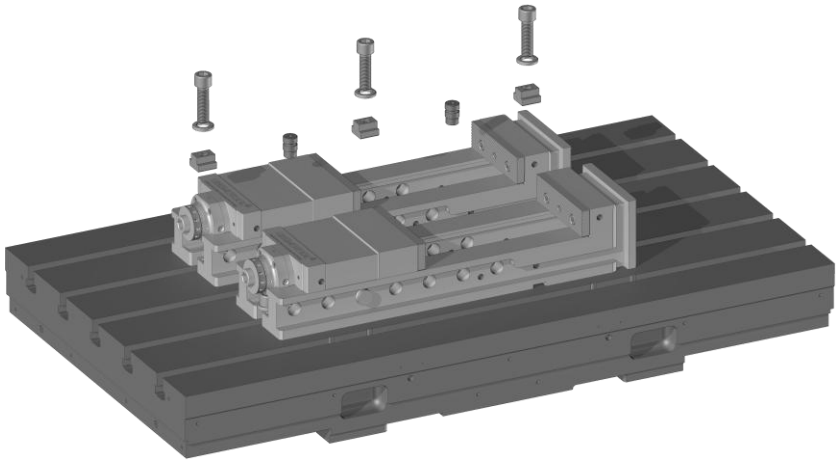




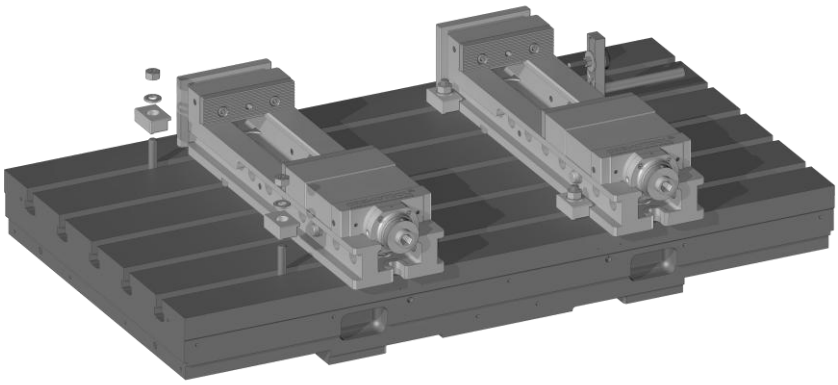
Applications

On machine table

The base body of the GHS-series makes it possible to use many standard machine tables. Only two groove stones or fitting screws are required for precise positioning.



Clamping Device:	**2x GHS-140**
Fixture:	**Machine table**
Installation material:	**GN-2204 & GS-2303**

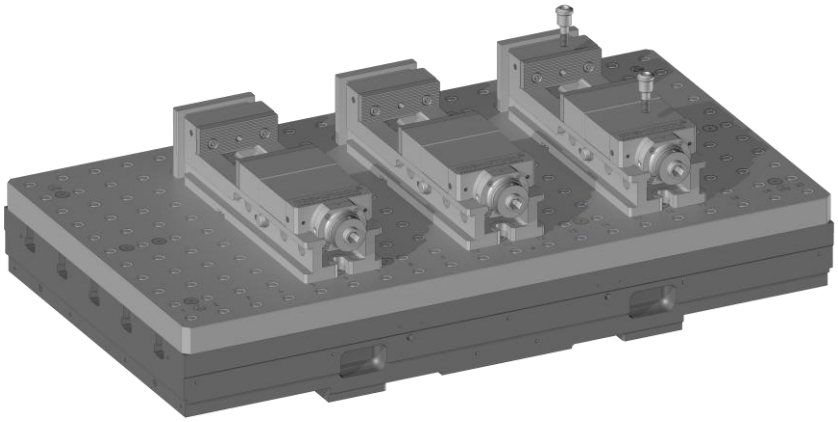


Clamping Device:	**2x GHS-140**
Fixture:	**Machine table**
Installation material:	**GN-2004 & GB-1600 & GS-2103**

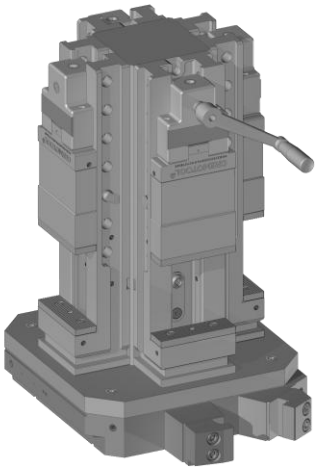
Applications

On machine table

The base body of the GHS-series makes it possible to use many standard machine tables. Only two groove stones or fitting screws are required for precise positioning.



Clamping Device: 3x GHS-120
Fixture: Grid hole plate R50 M12
Installation material: GS-2401



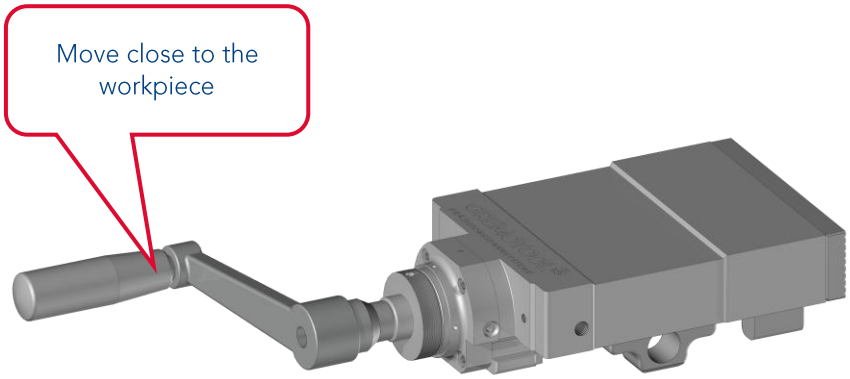
Clamping Device: 4x GHS-140 & GW-2500
Fixture: Clamping tower
Installation material: GS-2401

Applications

Clamping force setting

1. Move to workpiece

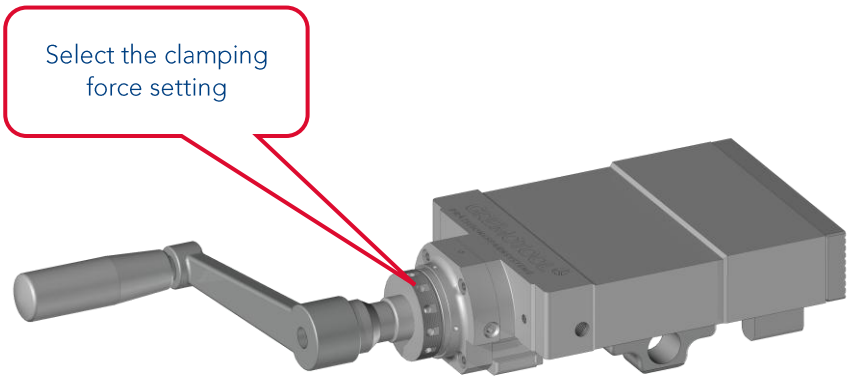
The base body of the GHS is fixed to the machine table. The movable clamping jaw is then placed close to the workpiece, and the locating pin is inserted into the next hole through the base body and the movable clamping jaw. The crank is now used to move the movable clamping jaw against the workpiece again.



2. Adjusting the clamping force setting

If the crank can still move freely and the moveable clamping jaw is not yet in contact with the workpiece, the clamping force can be preset using the setting ring.

0 = 0 kN
1 = 10 kN
2 = 20 kN
3 = 30 kN
4 = 40 kN

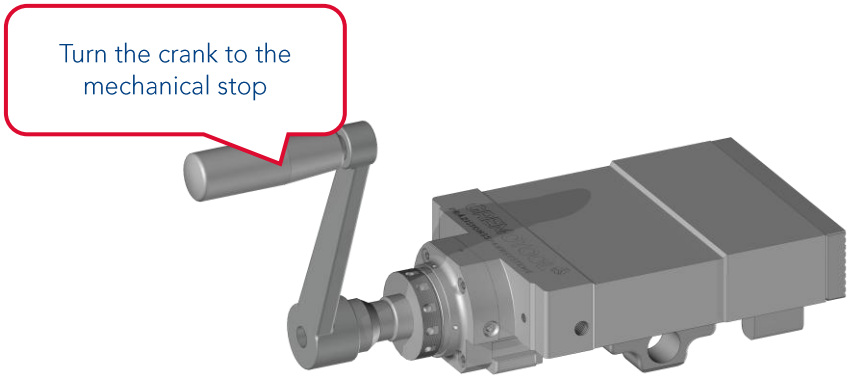


Applications

Clamping force setting

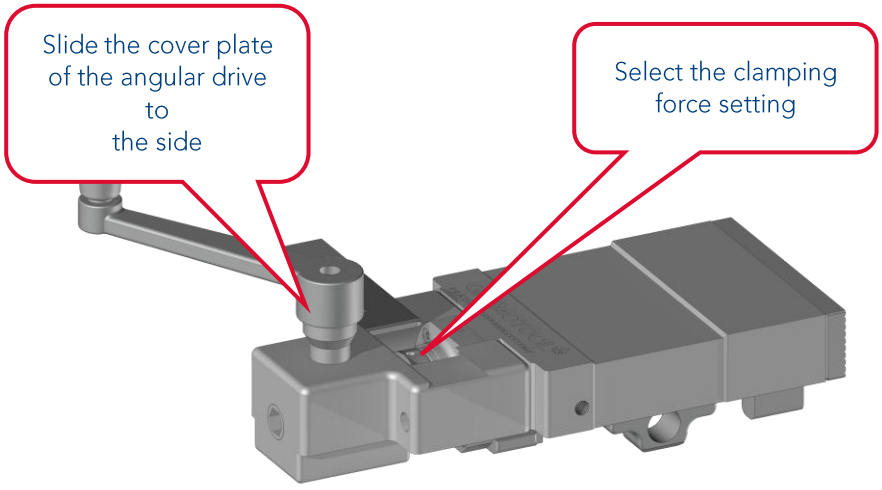
3. Apply clamping force

Once the correct clamping force setting has been selected, the crank can be turned. At the start of the rotation, a pre-tension is applied to the workpiece. As this pre-tension reaches a certain level, a slight increase in torque on the crank becomes noticeable. The built-in clutch releases the clamping force package. The crank can now be turned up to the mechanical stop, as the clamping force package now generates the set clamping force.



With angular drive

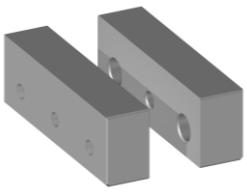
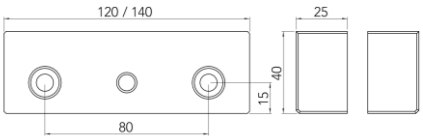
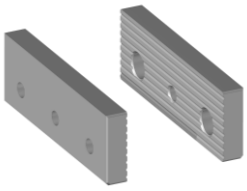
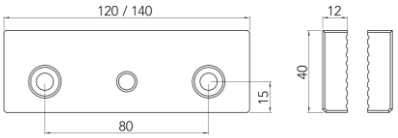
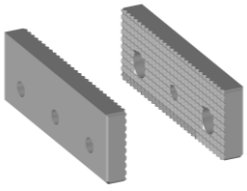
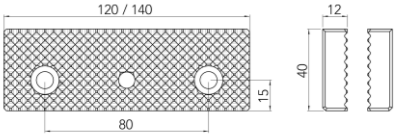
If an angular drive is mounted on the movable clamping jaw, the clamping force adjustment can still be performed without disassembly. To do this, slide the cover plate of the angular drive to the side, revealing the clamping force adjustment ring underneath. Once the adjustment is completed, the cover plate should be moved back to the center to prevent chips and coolant from entering.



Accessories

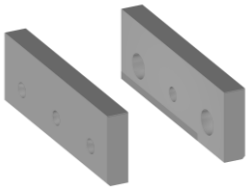
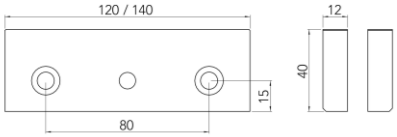
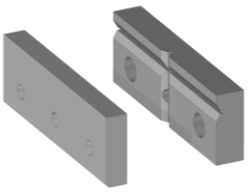
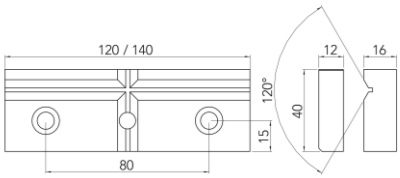
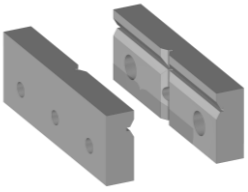
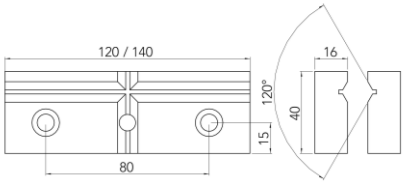
Jaws

Each GHS is supplied with a matching pair of standard jaws, allowing you to clamp workpieces without additional cost. With the extensive range of jaws, these can be complemented by the most suitable jaws for optimal workpiece clamping.

Jaw type	picture	Typical	120 mm	140 mm
Soft jaws Incl. 4x DIN 912 M8x20 screws			GB 12-1410	GB 14-1410
Standard jaws hardened with fine grooves Incl. 4x DIN 912 M8x16 screws			GB 12-1420	GB 14-1420
Corrugated jaws Incl. 4x DIN 912 M8x16 screws			GB 12-1421	GB 14-1421

Accessories

Jaws

Jaw type	picture	Typical	120 mm	140 mm
Flat jaws ground Incl. 4x DIN 912 M8x16 screws			GB 12-1422	GB 14-1422
1x flat jaw and **1x Prism jaw** Incl. 4x DIN 912 M8x16 screws			GB 12-1430	GB 14-1430
Prism jaws Incl. 4x DIN 912 M8x16 screws			GB 12-1432	GB 14-1432

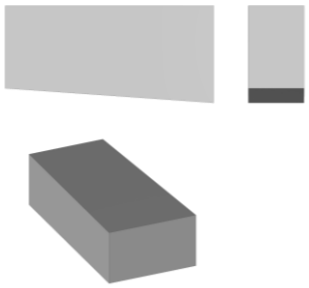
Additional jaws are available upon request from Gremotool.

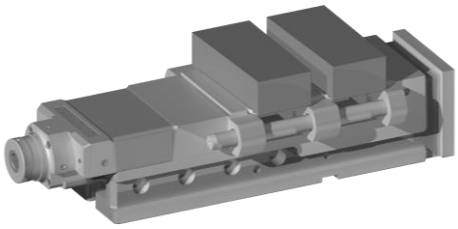
Accessories

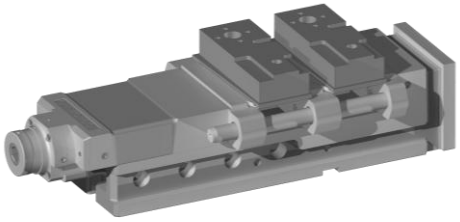
Multiclamp

The Multiclamp system enhances the capabilities of the GHS by enabling the sequential clamping of multiple workpieces. With a single clamping movement, multiple workpieces can be securely and simultaneously clamped, streamlining the setup process.

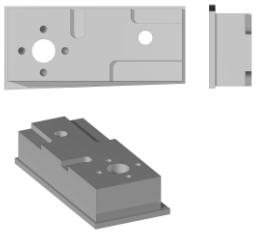
Applications

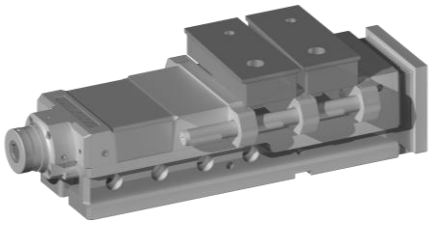


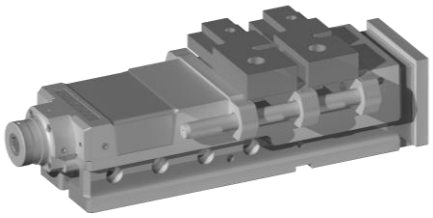




Ex.: Raw material sawn	**Clamping with grip compensation**	
Components used for GHS-120	- Guide shafts	2x
	- Fixed jaw Gripp	1x
	- Jaw compensation Gripp	1x
	- Intermediate jaw compensation Gripp	2x



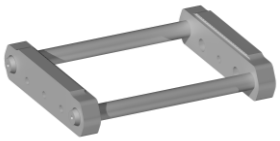
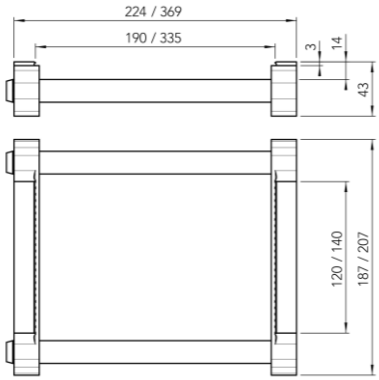
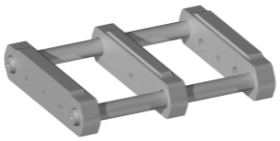
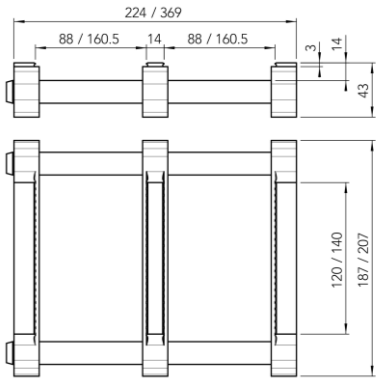
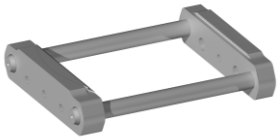
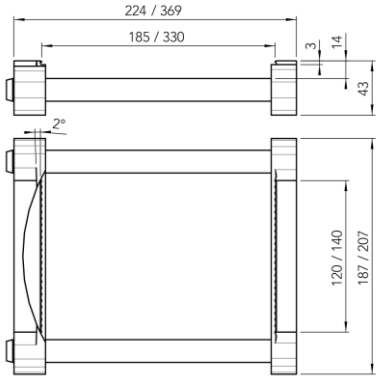




Ex.: 5-sides processed	**Clamping with step jaw**	
Components used for GHS-120	- Guide shafts	2x
	- Fixed step jaw	2x
	- Intermediate step jaw	2x

Accessories

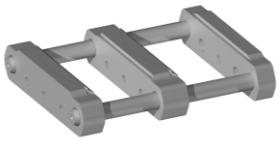
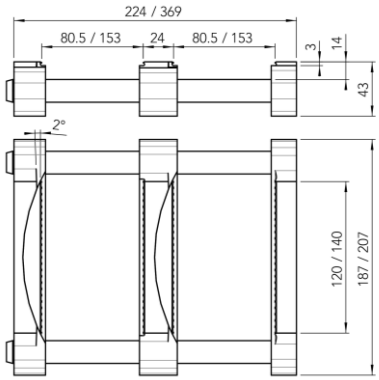
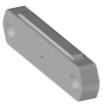
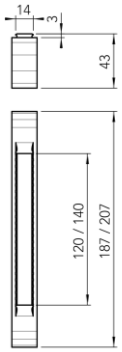
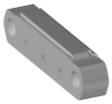
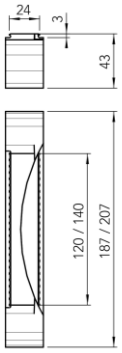
Multiclamp

Jaw type	Picture	Typical	120 mm	140 mm
Set of gripping jaws without intermediate jaw			GM-12-1501	GM-14-1501
Set of gripping jaws with intermediate jaw			GM-12-1502	GM-14-1502
Set of gripping jaws/compensation without intermediate jaw			GM-12-1503	GM-14-1503

Additional jaws are available upon request from Gremotool.

Accessories

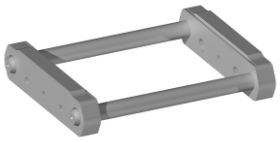
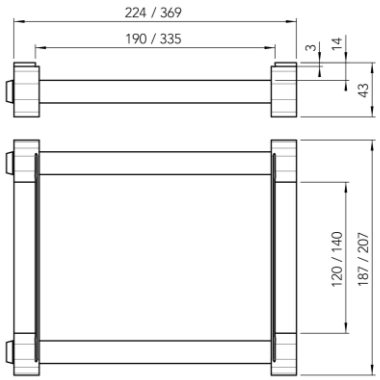
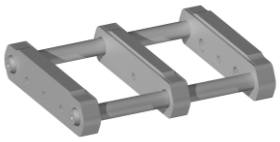
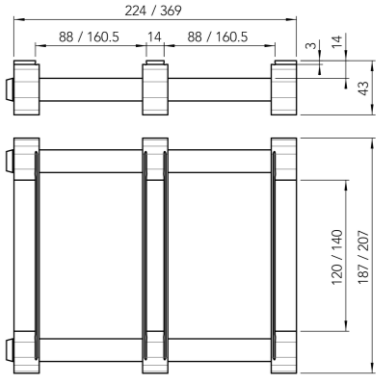
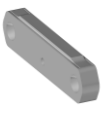
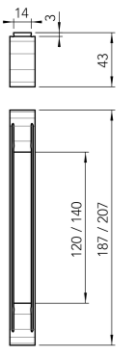
Multiclamp

Jaw type	Picture	Typical	120 mm	140 mm
Set of gripping jaws/compensation with intermediate jaw			GM-12-1504	GM-14-1504
Intermediate gripping jaw			GM-12-1505	GM-14-1505
Intermediate gripping jaw compensation			GM-12-1506	GM-14-1506

Additional jaws are available upon request from Gremotool.

Accessories

Multiclamp

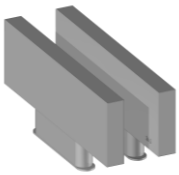
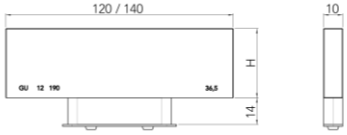
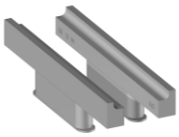
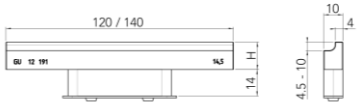
Jaw type	Picture	Typical	120 mm	140 mm
Set of step jaws without intermediate jaw			GM-12-1511	GM-14-1511
Set of step jaws with intermediate jaw			GM-12-1512	GM-14-1512
Intermediate step jaw			GM-12-1515	GM-14-1515

Additional jaws are available upon request from Gremotool

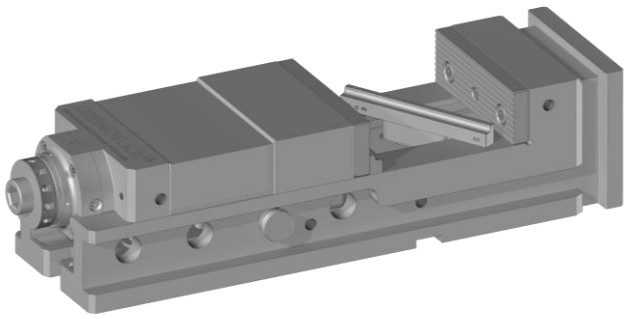
Accessories

Supports

With the screw-in supports, the workpieces can be lifted from the guide rail of the GHS series. These supports are equipped with a spring steel clip designed to secure the supports in place. The two different support types allow for drilling through the entire workpiece without damaging the supports.

Item	picture	Typical	H [mm]	120 mm	140 mm
Supports with width 10 mm			36.5	GU 12-1901	GU 14-1901
			32	GU 12-1902	GU 14-1902
			28.5	GU 12-1903	GU 14-1903
			25	GU 12-1904	GU 14-1904
			20.5	GU 12-1905	GU 14-1905
			15	GU 12-1906	GU 14-1906
Supports with width 4 mm			35.5	GU 12-1911	GU 14-1911
			31.5	GU 12-1912	GU 14-1912
			27.5	GU 12-1913	GU 14-1913
			23.5	GU 12-1914	GU 14-1914
			19.5	GU 12-1915	GU 14-1915
			14.5	GU 12-1916	GU 14-1916

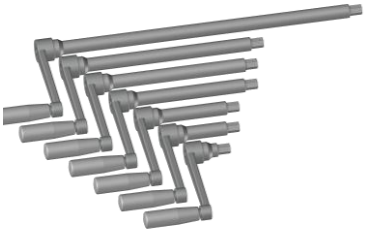
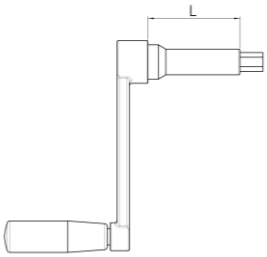
Mounting of the supports by simple screwing



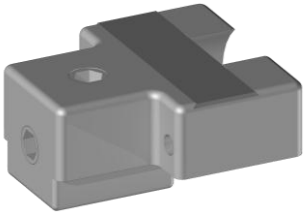
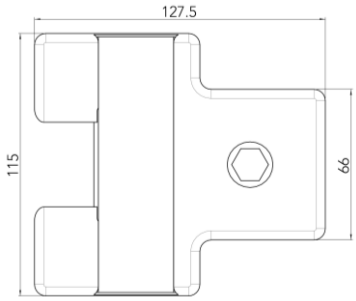
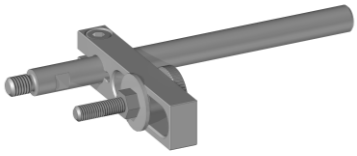
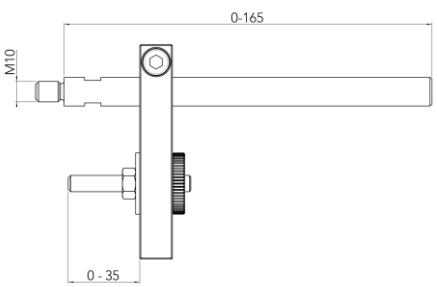
Accessories

Crank handle and angle drive

The crank handle for the GHS-series is available in different lengths. This makes it possible to operate the GHS flexibly and ergonomically in any position.

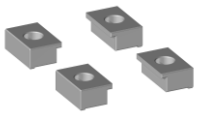
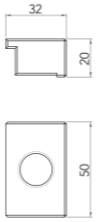
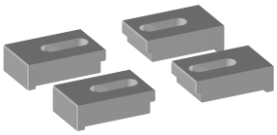
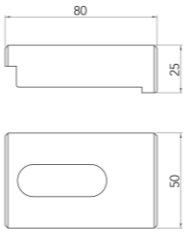
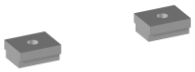
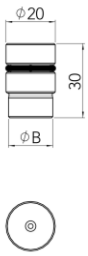
Item	Picture	Typical	L [mm]	Item no.
Crank handle			**25**	**GH 3001**
			80	**GH 3002**
			120	**GH 3003**
			180	**GH 3004**
			230	**GH 3005**
			280	**GH 3006**
			480	**GH 3007**

In some clamping device arrangements, it is not possible to perform a full rotation using the crank handle. Therefore, an angle drive is provided. This is mounted at the front on the movable jaw of the GHS. As a result, the GHS can be operated ergonomically from the front as well as from above using the crank handle.

Item	Picture	Typical	Item no.
Angle drive			**GW 2500**
Work piece stop			**GA 1800**

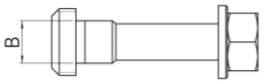
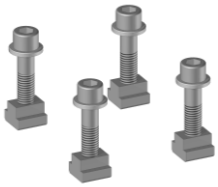
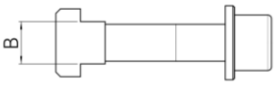
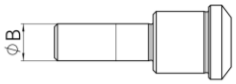
Accessories

Installation materials

Item	Picture	Typical	Size	Item no.
Shackles for T-slot table (1 kit = 4 pieces)				GB 1600
Shackles for grid hole plates (1 kit = 4 pieces)				GB 1640
Precision groove stones for alignment on T-slot table (1 kit = 2 pieces)			B 12 B 14 B 16 B 18	GN 2001 GN 2002 GN 2003 GN 2004
T-head bolts for alignment on grid hole plates (1 kit = 2 pieces)			ø 12 ø 14 ø 16 ø 18 ø 20	GN 2201 GN 2202 GN 2203 GN 2204 GN 2205

Accessories

Installation materials

Item	Picture	Typical	Size	Item no.
Bolts for T-slots with washer and nut (1 kit = 4 pieces)			B 12	GS 2101
			B 14	GS 2102
			B 16	GS 2103
			B 18	GS 2104
Socket head cap screws with T-slot nut (1 kit = 4 pieces)			B 12	GS 2301
			B 14	GS 2302
			B 16	GS 2303
			B18	GS 2304
Fitting screws (1 kit = 2 pieces)			ø 10	GS 2400
			ø 12	GS 2401
			ø 16	GS 2403

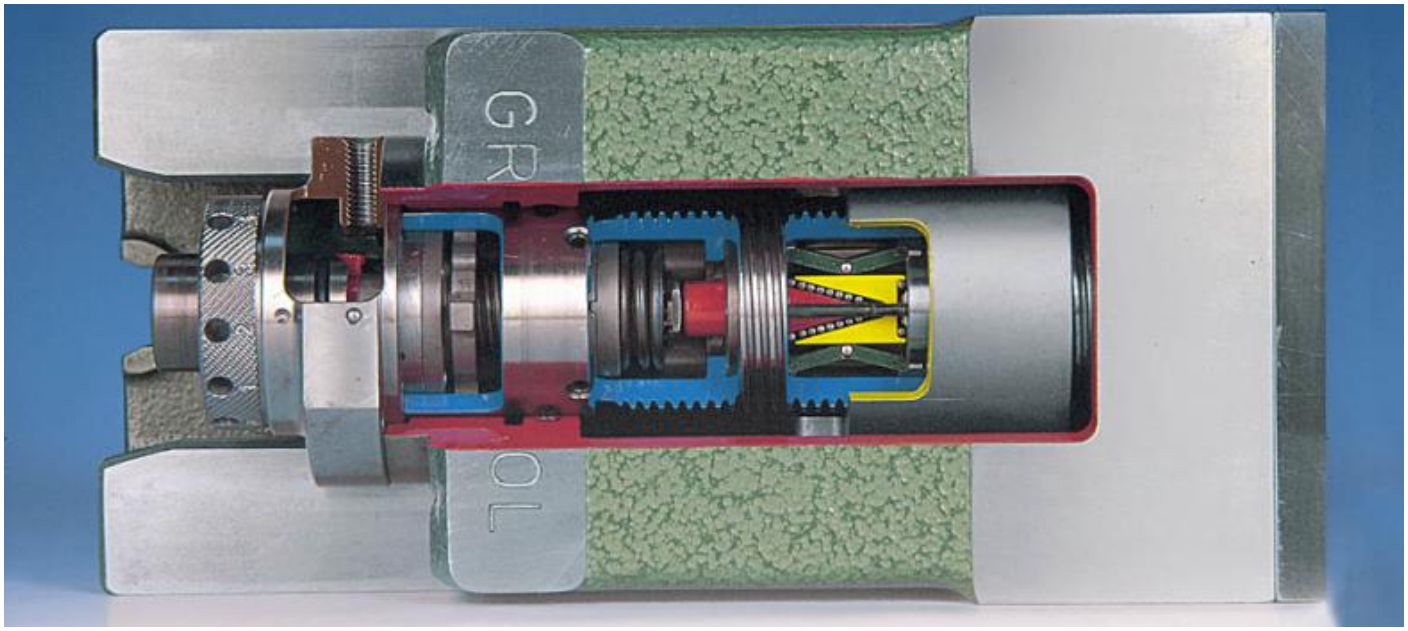
Service

Gremotool Service Offerings

Our workpiece clamping devices are highly durable and reliable products. However, over years of use, wear and tear may occur due to operational stresses.

Clamping devices up to 20 years of age can be fully refurbished at a cost-effective rate. After refurbishment, they will perform like new. Additionally, older devices exceeding 20 years can still undergo partial inspection, with individual components replaced as necessary.

This service is available within 1 to 2 business days at our facility.
Reconditioning and inspection costs for wear parts of all Gremotool vises: a flat rate of CHF 630.00, excluding VAT and transportation costs.



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Our general terms and conditions apply, which can be accessed at www.gremotool.ch

Further catalogues can be downloaded from the website www.gremotool.ch

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