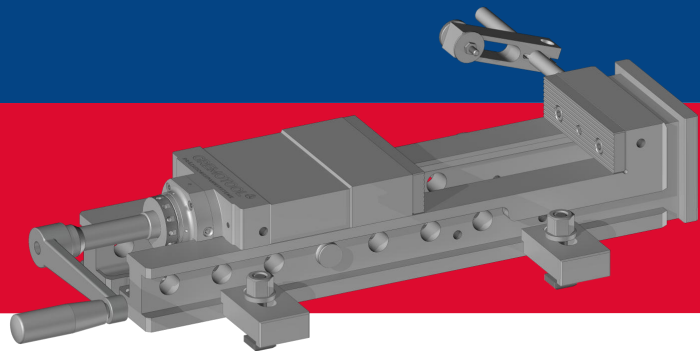


GHS-series



swiss
made



Overview

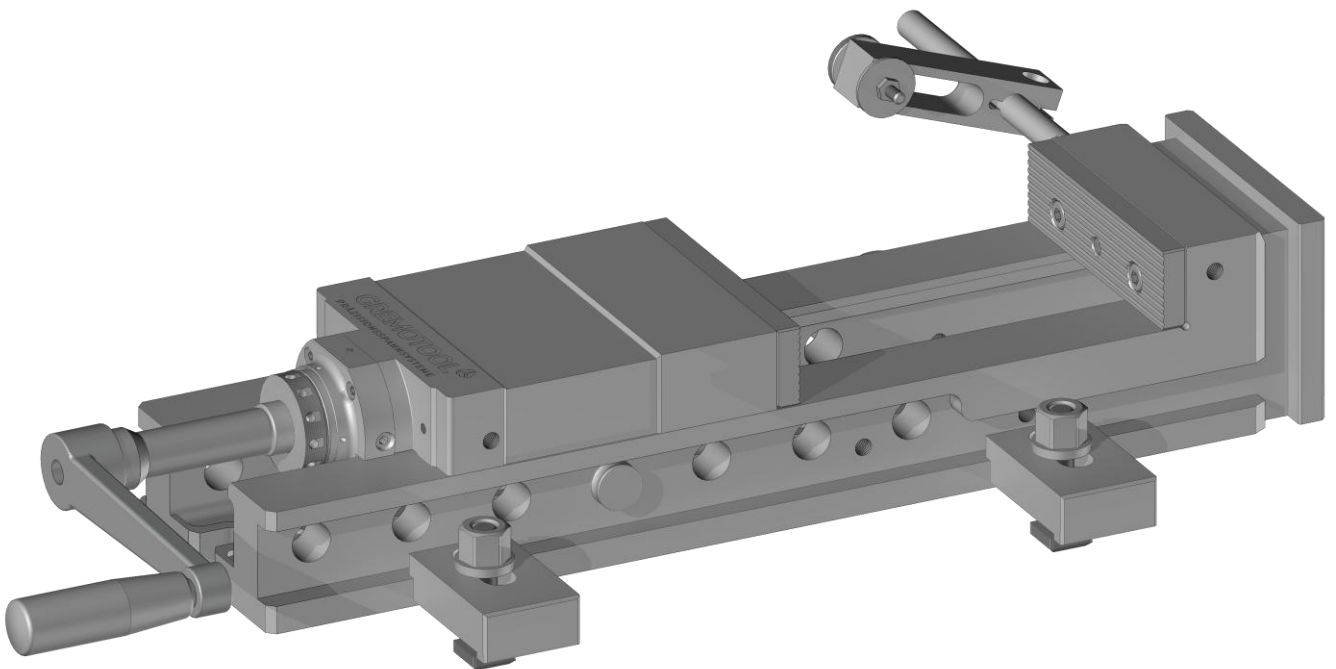
GHS-series

Product presentation	3
Overview of size options	6
Sizing guide	7
Clamping force	9
Dimension	10
Applications	14
On machine table	14
Clamping force setting	16
Accessories	18
Jaws	18
Parallels	20
Crank and angle drive	21
Installation materials	22
Service	24
Imprint	25

Product presentation

GHS-series

The GHS-series is a machine vice and is suitable for all types of production. Equipped with an easy-to-operate power amplifier, it achieves the maximum clamping force with little effort at the crank and holds the workpiece securely in place. The flexible 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

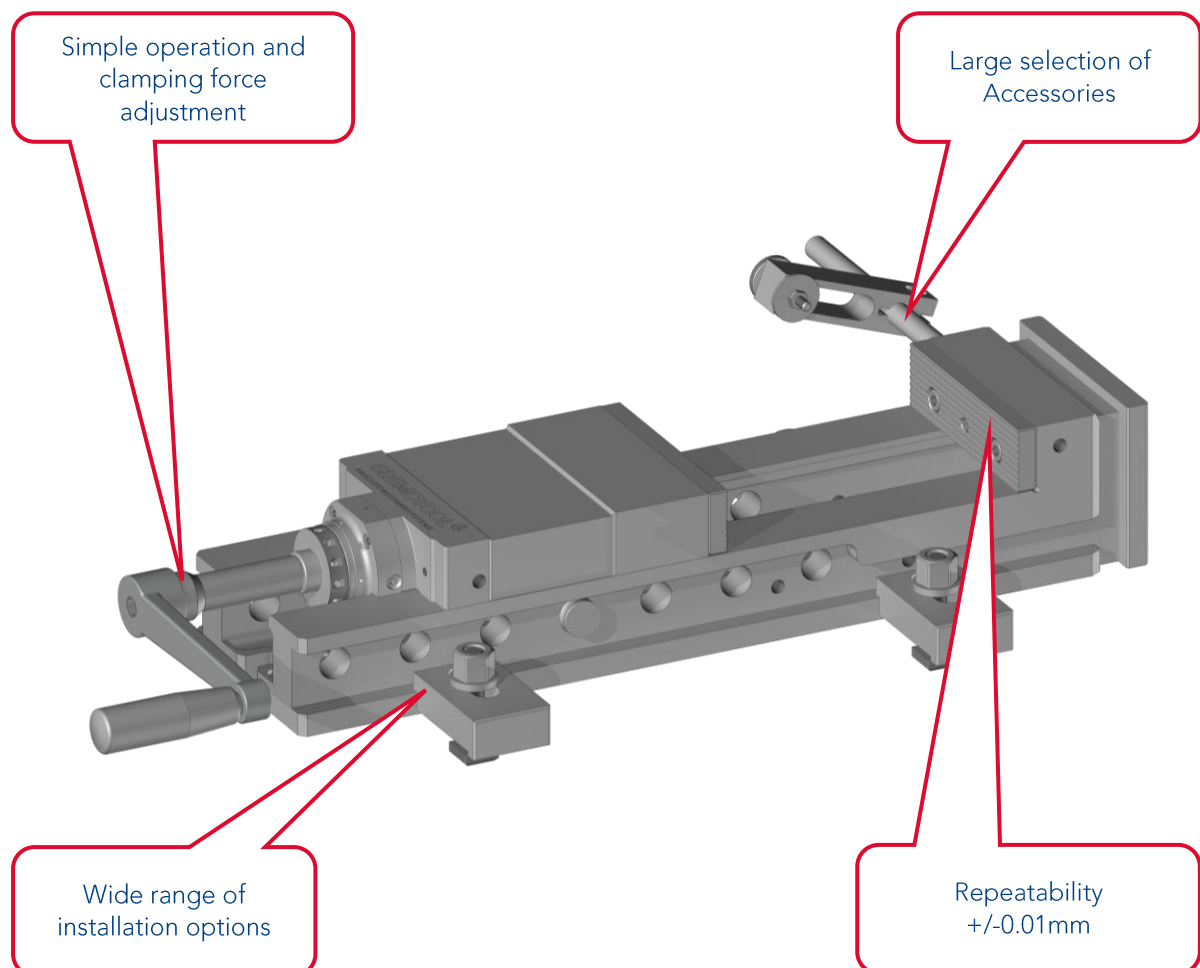
As all parts of the clamping mechanism are enclosed, no chips or coolant can reach them. As a result, the factory lubrication is not flushed out or contaminated, which contributes to permanent lubrication.

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.

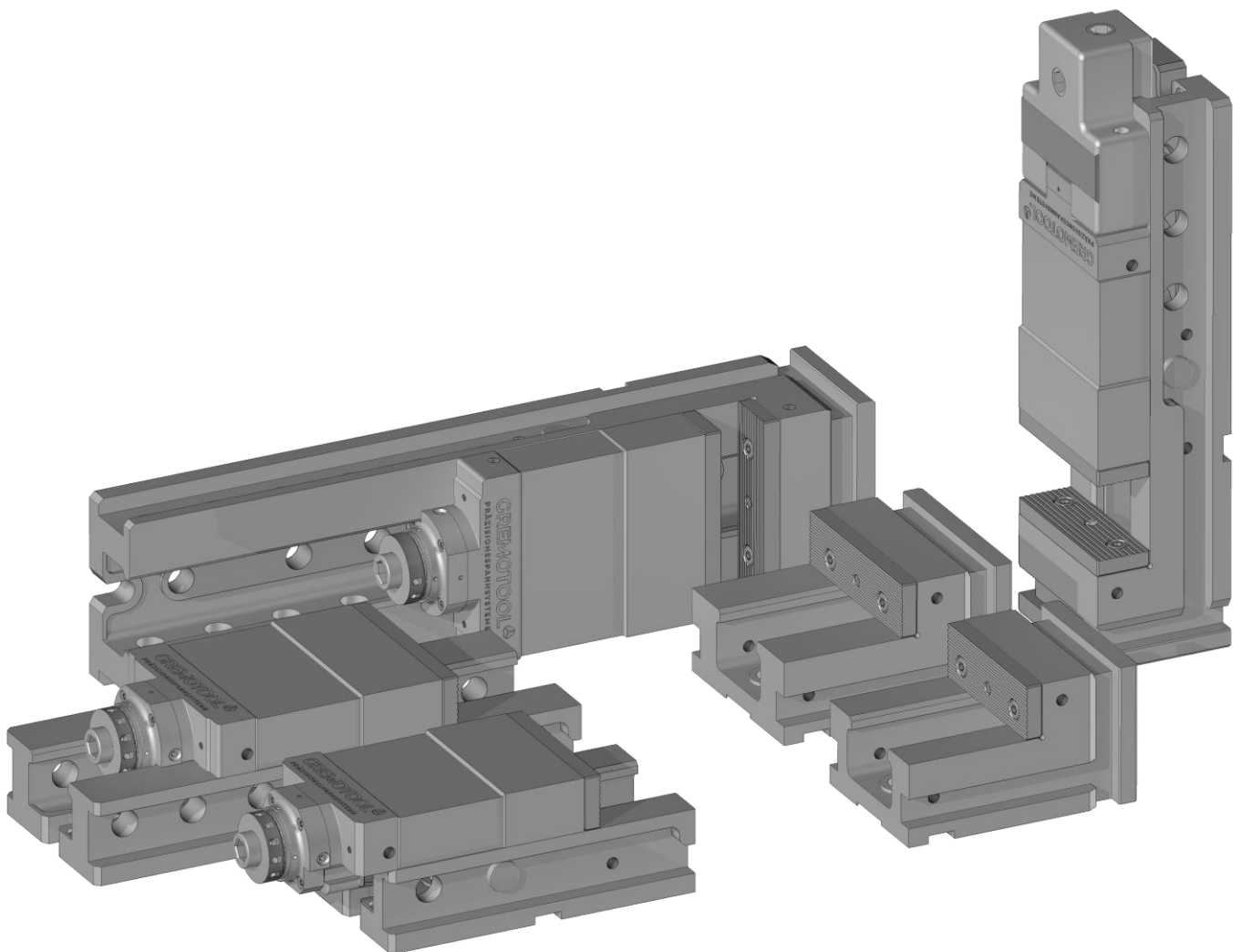
Product presentation

GHS-series



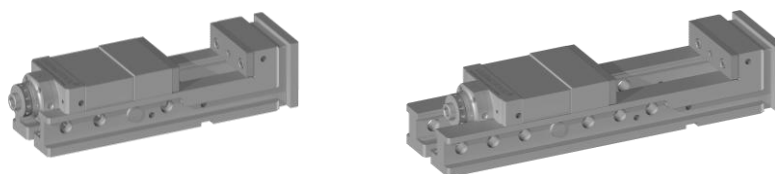
Overview of size options

GHS-series



Sizing guide

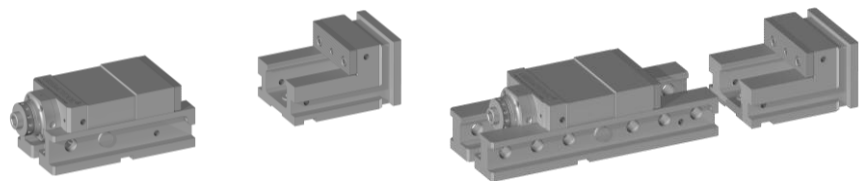
GHS-series



GHS-Size		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

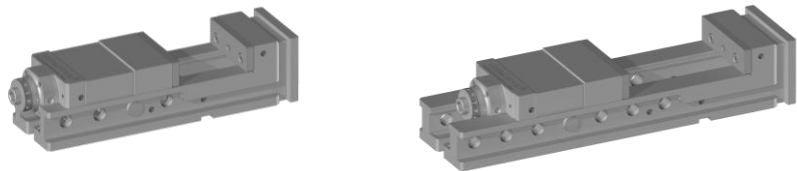
GHS-series



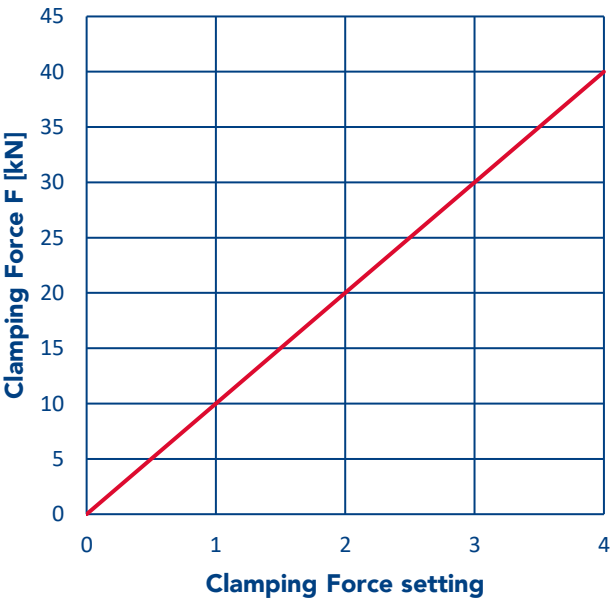
GHS-Size		GHS-120-5000	GHS-140-5000
Jaw width	[mm]	120	140
Clamping range	[mm]	> 0	> 0
Support height	[mm]	62	62
Max. clamping force	[kN]	40	40
Total length	[mm]	> 410	> 550
Total width	[mm]	120	140
Total height	[mm]	102	102
Mass	[kg]	21	31

Clamping force

GHS-series



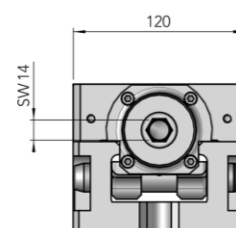
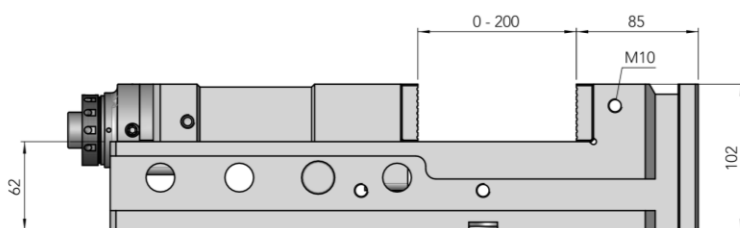
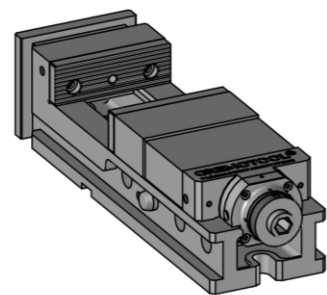
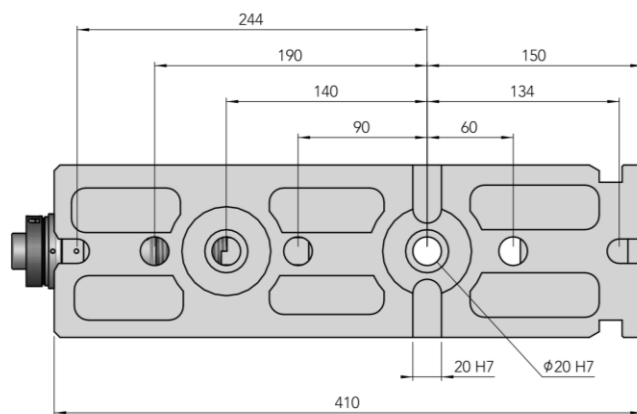
GHS-120 / GHS-140



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

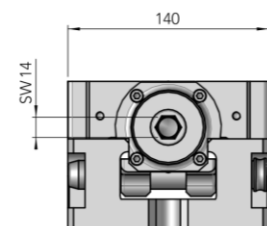
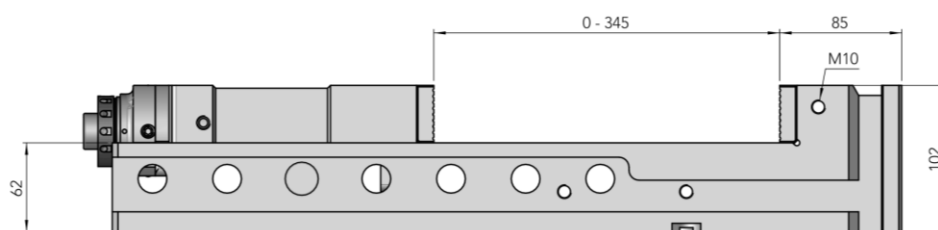
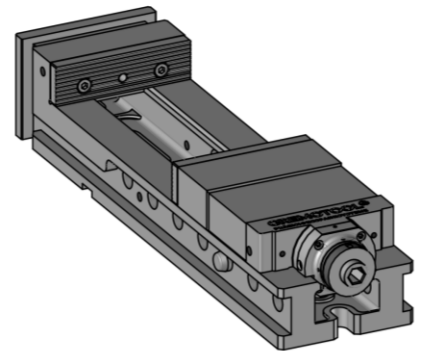
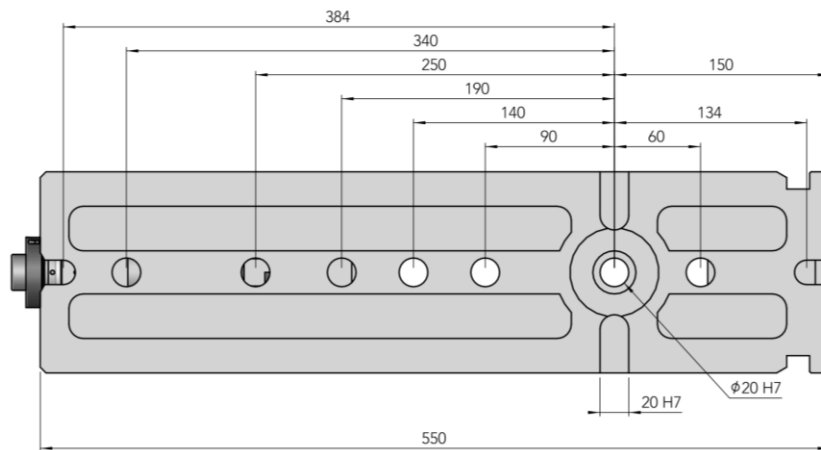
Dimension

GHS-120



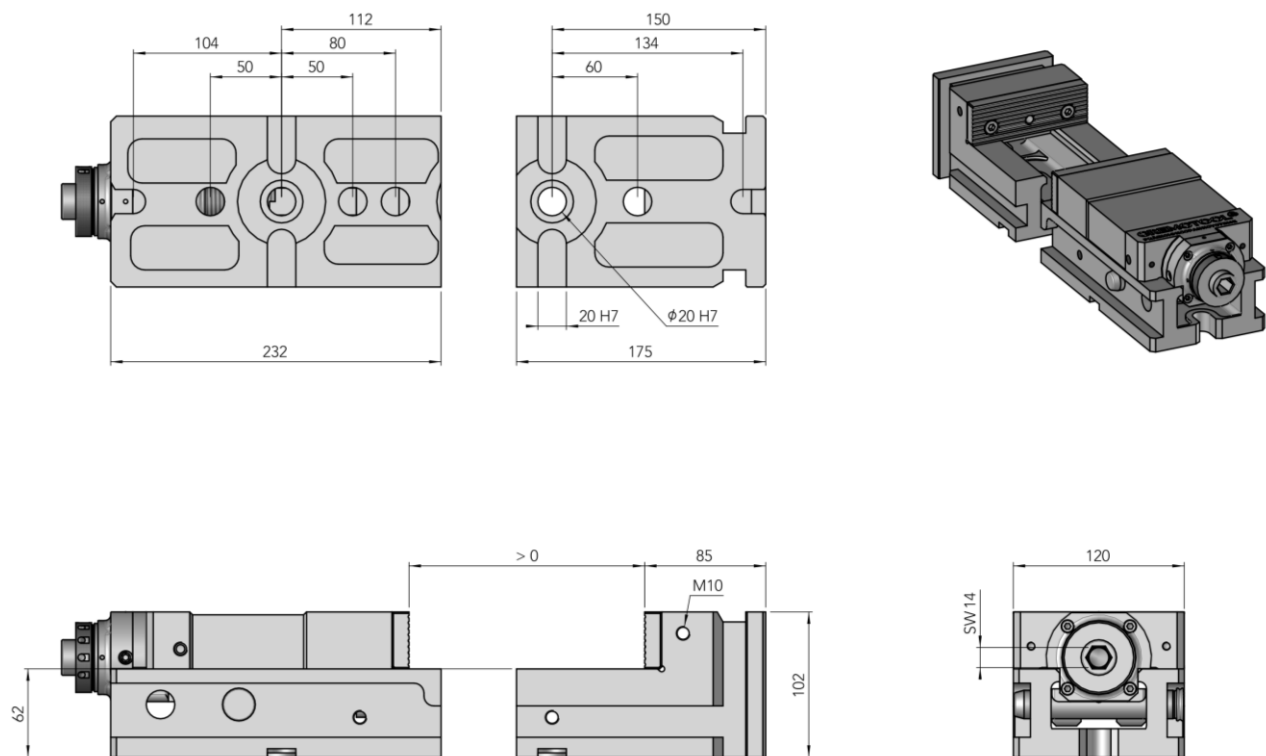
Dimension

GHS-140



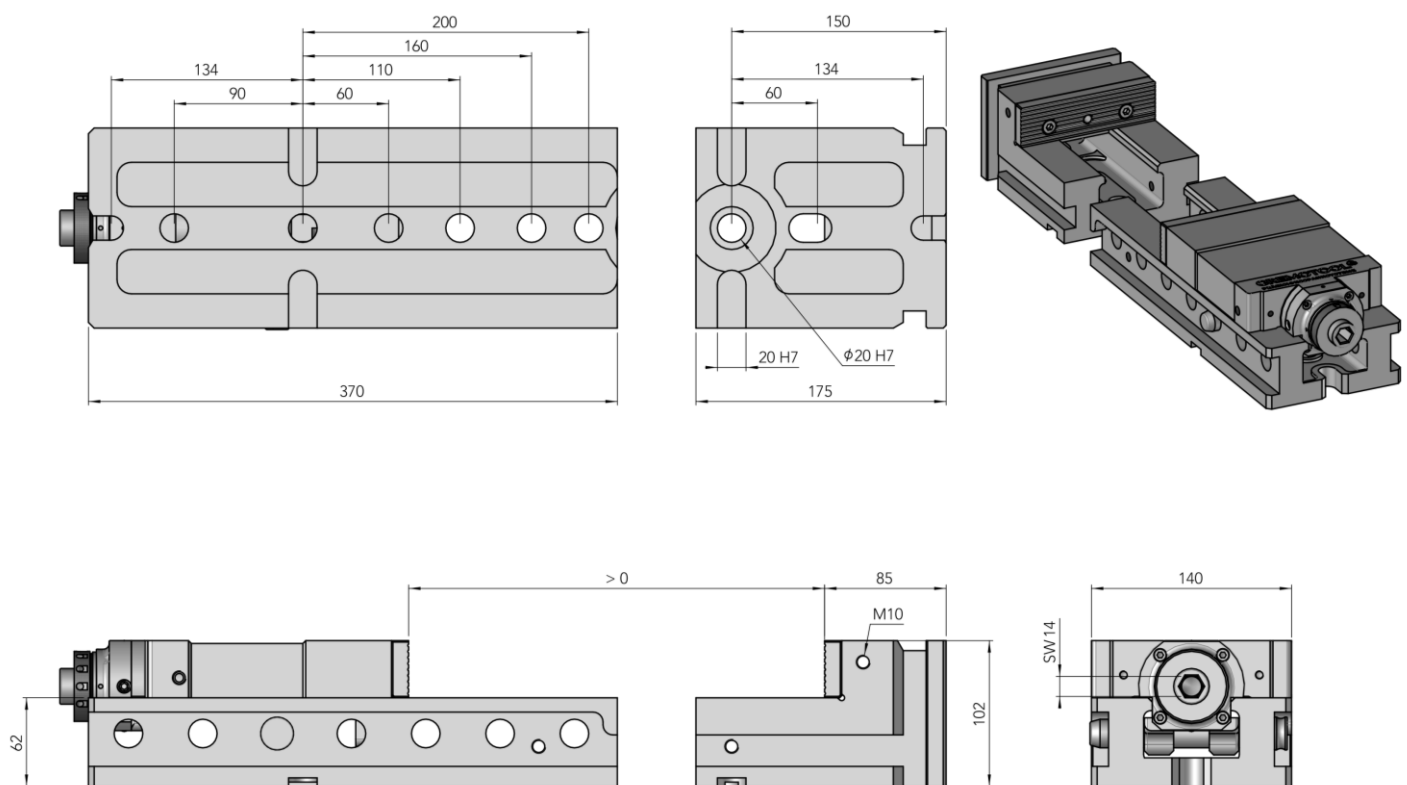
Dimension

GHS-120-5000



Dimension

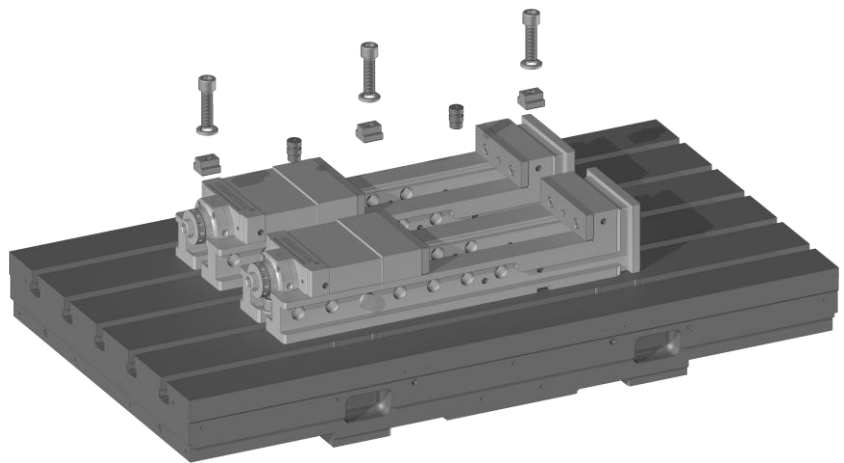
GHS-14-5000



Applications

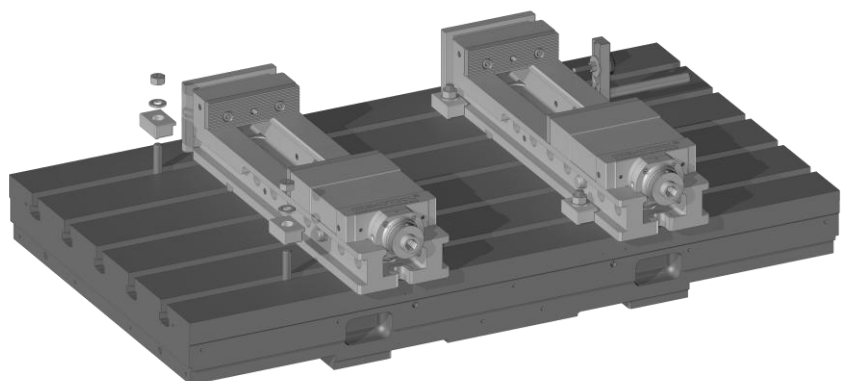
On machine table

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



Clamping Device:
Fixture:
Installation material:

2x GHS-140
Machine table
GN-2204 & GS-2303



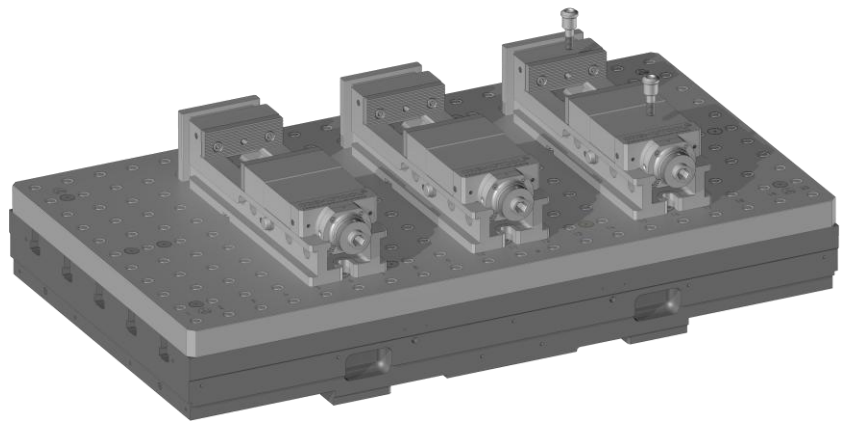
Clamping Device:
Fixture:
Installation material:

2x GHS-140
Machine table
GN-2004 & GB-1600 & GS-2103

Applications

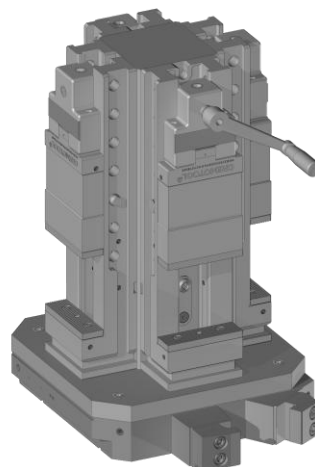
On machine table

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



Clamping Device:
Fixture:
Installation material:

3x GHS-120
Grid hole plate R50 M12
GS-2401



Clamping Device:
Fixture:
Installation material:

4x GHS-140 & GW-2500
Clamping tower
GS-2401

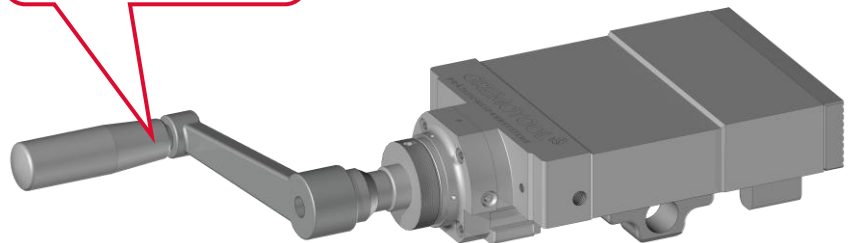
Applications

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.

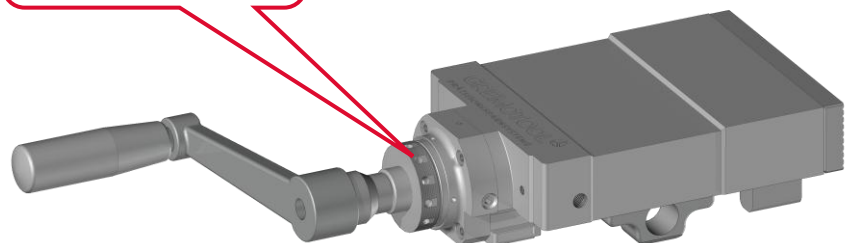
Move close to the workpiece



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.

Select the clamping force setting



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

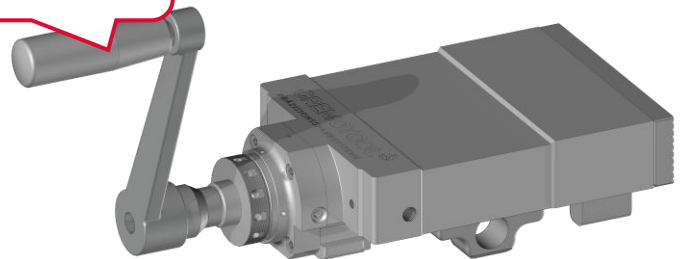
Applications

Clamping force setting

3. Apply clamping force

Once the correct clamping force setting has been selected, the crank can now be turned. At the beginning of the rotation, a preload is applied to the workpiece. As soon as this reaches a certain value, a slight increase in torque can be felt at the crank. The built-in clutch releases the power clamping package. The crank can now be turned to the mechanical stop, as the power clamping pack now generates the set clamping force.

Turn the crank to the mechanical stop

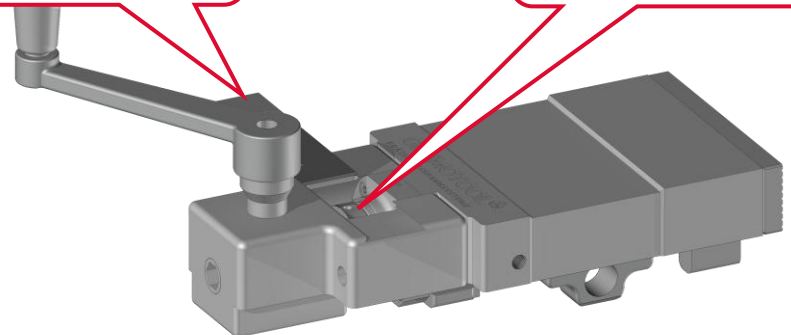


With angular drive

If an angle drive is mounted on the movable clamping jaw, the clamping force can still be selected without disassembly. To do this, the cover plate of the angle drive is pushed to the side and the clamping force setting ring appears underneath. Once the setting has been made, the cover plate should be pushed back to the centre so that the chips and cooling lubricants cannot penetrate.

Push the cover plate to the side

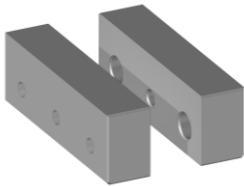
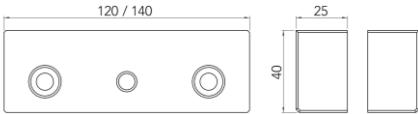
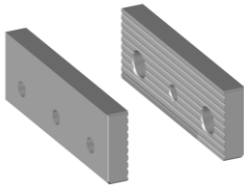
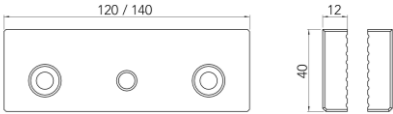
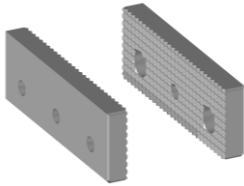
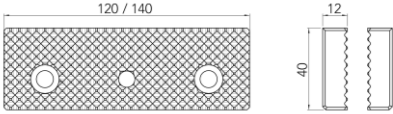
Select the clamping force setting



Accessories

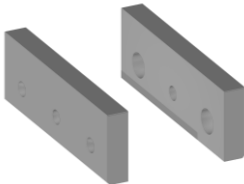
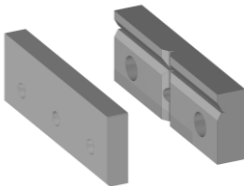
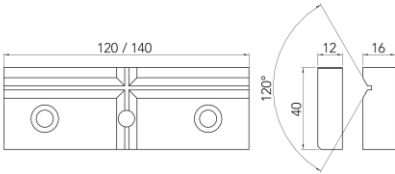
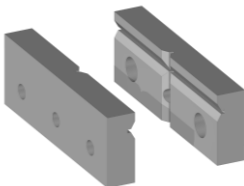
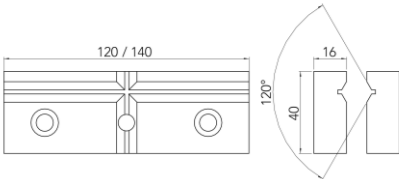
Jaws

Each GHS is supplied with a matching pair of standard jaws, allowing you to clamp unmachined parts at no extra cost. With the extensive range of jaws, these can be supplemented with the best possible jaws for workpiece clamping.

Jaw type	picture	Typical	120 mm	140 mm
Soft jaws			GB 12-1410	GB 14-1410
Standard jaws hardened with fine grooves			GB 12-1420	GB 14-1420
Serrated jaws			GB 12-1421	GB 14-1421

Accessories

Jaws

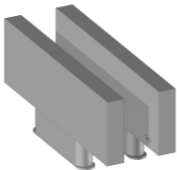
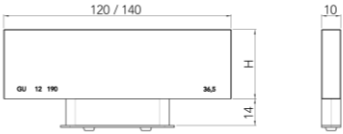
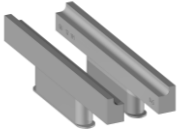
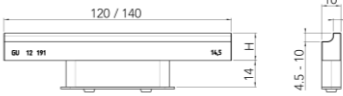
Jaw type	picture	Typical	120 mm	140 mm
Ground flat jaws			GB 12-1422	GB 14-1422
1x Ground flat jaw and 1x Prism jaw			GB 12-1430	GB 14-1430
Prism jaws			GB 12-1432	GB 14-1432

Other jaws available on request from Gremotool.

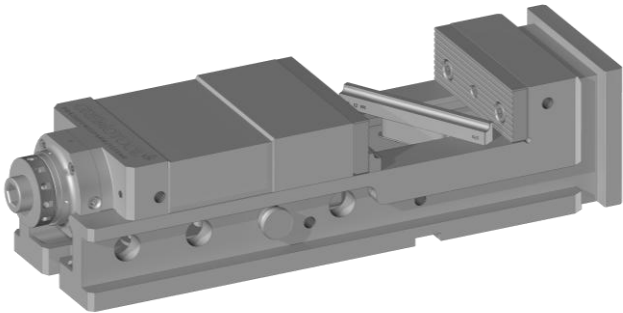
Accessories

Parallels

The workpiece can be lifted from the guide rail of the GHS-series using the twist-in parallels. These are fitted with a spring plate that serves to hold the parallels in place. Thanks to the two different types of parallels, holes can also be drill through the entire workpiece without damaging the parallels.

Item	picture	Typical	H [mm]	120 mm	140 mm
Parallels 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
Parallels 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

Installation of the parallels by simply twisting them in



Accessories

Crank and angle drive

The hand crank 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.
Hand crank			25	GH 3001
			80	GH 3002
			120	GH 3003
			180	GH 3004
			230	GH 3005
			280	GH 3006
			480	GH 3007

With some clamping device arrangements, it is not possible to perform a complete rotation with the crank. This is why the angle drive is available. This is mounted on the front of the movable jaw of the GHS. This allows the GHS to be operated ergonomically from the front as well as from above with the crank.

Item	Picture	Typical	Item no.
Angle drive			GW 2500

Workpiece backstop			GA 1800
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Accessories

Installation materials

Item	Picture	Typical	Size	Item no.
Brackets for T-slot table (1 kit = 4 pieces)				GB 1600
Brackets for grid hole plates (1 kit = 4 pieces)				GB 1640
Precision T-nuts 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
Locating pin 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 screw with T-slot nut (1 kit = 4 pieces)			B 12	GS 2301
			B 14	GS 2302
			B 16	GS 2303
			B18	GS 2304
Shoulder screw (1 kit = 2 pieces)			ø 10	GS 2400
			ø 12	GS 2401
			ø 16	GS 2403

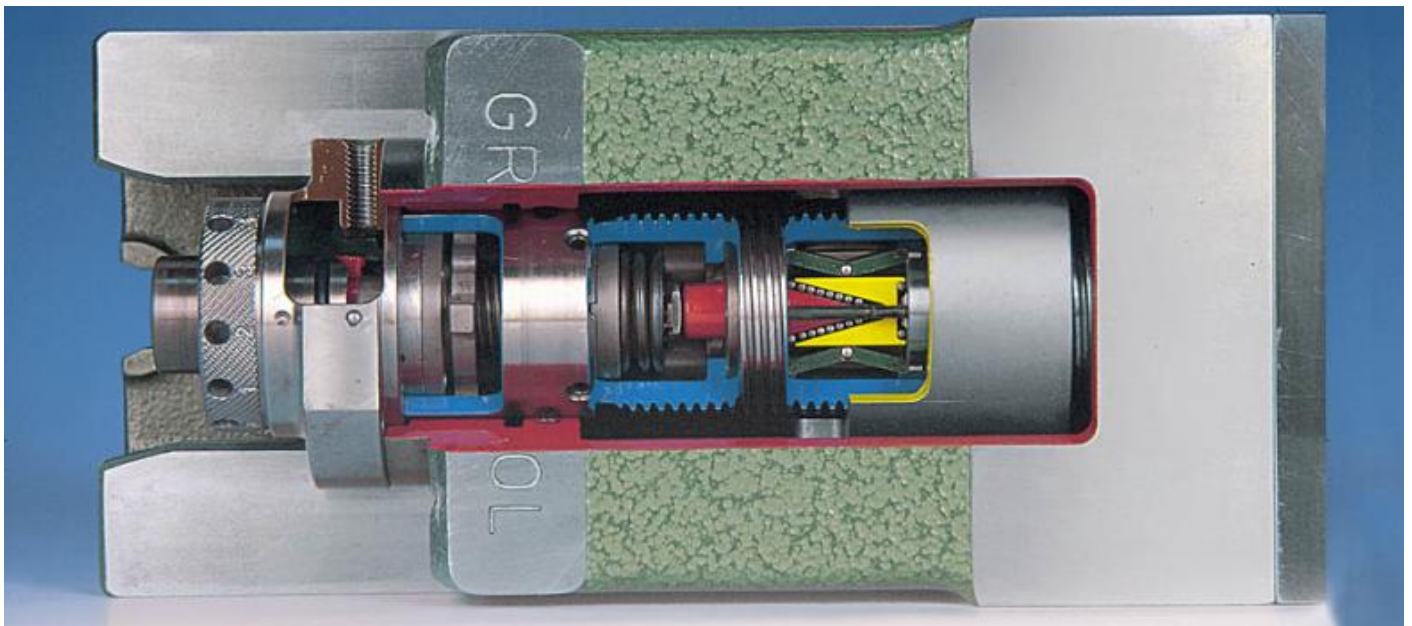
Service

Gremotool service provided

Our workpiece clamping devices are very durable and reliable products. Nevertheless, wear and tear can occur over the years of use due to stress.

We can completely overhaul clamping devices up to 20 years old at low cost. They are then as good as new. We can also partially inspect clamping devices that are more than 20 years old and replace individual parts.

We offer this service on our premises within 1 to 2 working days. Overhaul and inspection costs for wearing parts for all Gremotool vices: flat rate CHF 630.00, excl. VAT, customs clearance and transport costs



Imprint

Gremotool GmbH
Wilerstrasse 3
CH-9200 Gossau
Schweiz

www.gremotool.ch
info@gremotool.ch
+41 (0)71 930 03 90

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

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