

All-steel screw clamps

Clamps that are resilient, elastic and powerful



The inspiration for many innovative clamping tools

The original BESSEY all-steel screw clamps are the perfect step up from the original BESSEY malleable cast iron screw clamps. They clamp resiliently and elastically, making them an essential aid when you want your tools to cover a wide range of applications. In addition, the all-steel screw clamp is a model for many other innovative BESSEY clamping tools – e.g. lever clamps, high-performance clamps, area pressure clamps, one-handed clamps and rafter clamps.

The OMEGA GMZ screw clamp offers maximum flexibility and safety thanks to its unique, patented OMEGA bend, which maintains the clamping pressure for longer, even when the all-steel screw clamp is shaken by vibrations. It also ensures that sensitive surfaces receive the necessary protection because the clamping pressure can be selected even more precisely. As with all all-steel screw clamps, it can also be used for any application, either for processing wood or metal. You can be sure of it!

GZ all-steel screw clamp – all models are equipped with an optimised rail profile and replaceable pressure plate.

The OMEGA screw clamp GMZ – universally applicable, for everything from wood to metal processing.

All-steel screw clamps



All-steel screw clamps

BESSEY's unrivalled all-steel quality

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Light, easy to handle and strong

Whether you choose the 2-component plastic handle, the wooden handle or the tommy bar, you're guaranteed satisfaction if you opt for an original BESSEY all-steel screw clamp. Especially thanks to BESSEY unique quality steel. With BESSEY you can be sure of an extremely high-quality, durable clamping tool which is also light and easy-to-handle. Even at the high clamping force, it will retain its dimensions and resist distortion. So in future, if you are looking for a powerful, flexible clamping effect, then what you need is a BESSEY all-steel screw clamp!

Your benefits at a glance:

1 Maximum stability

The optimised profile shape guarantees greater clamping force build-up in the shortest time, while maintaining greater stability and safety. The fixed clamp forged from a single piece with moulded pressure plate is hardened, tempered and galvanised, making it highly durable and torsion-resistant.

2 Forged sliding arm

The sliding arm allows for more efficient transfer of force. As a result of its more linear transfer of force, the new U-shaped sliding arm offers maximum security with the heaviest of loads. You can rely on that.

3 Pressure plate

For enhanced serviceability the pressure plate can be changed with no need for tools. It can be replaced very easily and quickly.

4 Smooth-running spindle

The surface-coated spindle with acme thread is particularly smooth-running, and does not bind. For even smoother, more efficient work.

All-steel screw clamps



Original BESSEY all-steel screw clamp GZ with 2-component plastic handle



№	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GZ10-2K	100	60	15 x 6	0.31	10	
GZ12-2K	120	60	15 x 6	0.32	10	
GZ16-2K	160	80	17.5 x 6.8	0.57	10	
GZ40-8-2K	400	80	17.5 x 6.8	0.76	10	
GZ20-2K	200	100	22 x 8.5	1.01	10	
GZ25-2K	250	120	24.5 x 9.5	1.38	10	
GZ30-12-2K	300	120	24.5 x 9.5	1.46	10	
GZ40-12-2K	400	120	24.5 x 9.5	1.62	10	
GZ50-12-2K	500	120	24.5 x 9.5	1.78	10	
GZ60-12-2K	600	120	24.5 x 9.5	1.95	5	
GZ80-12-2K	800	120	24.5 x 9.5	2.20	5	
GZ100-12-2K	1000	120	24.5 x 9.5	2.45	5	
GZ30-2K	300	140	28 x 11	1.98	10	
GZ40-2K	400	120	28 x 11	2.12	10	
GZ50-2K	500	120	28 x 11	2.30	5	
GZ60-2K	600	120	28 x 11	2.49	5	
GZ80-2K	800	120	28 x 11	2.36	5	
GZ100-2K	1000	120	28 x 11	3.25	5	
GZ125-2K	1250	120	28 x 11	3.79	1	

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Original BESSEY all-steel screw clamp GZ with tried-and-tested wooden handle



№	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GZ10	100	60	15 x 6	0.30	10	
GZ12	120	60	15 x 6	0.31	10	
GZ30-6	300	60	15 x 6	0.42	10	
GZ16	160	80	17.5 x 6.8	0.52	10	
GZ20	200	100	22 x 8.5	0.95	10	
GZ30-10	300	100	22 x 8.5	1.09	10	
GZ25	250	120	24.5 x 9.5	1.34	10	
GZ30-12	300	120	24.5 x 9.5	1.40	10	
GZ40-12	400	120	24.5 x 9.5	1.56	10	
GZ30	300	140	28 x 11	1.96	10	
GZ40	400	120	28 x 11	2.04	10	
GZ50	500	120	28 x 11	2.27	5	
GZ60	600	120	28 x 11	2.47	5	
GZ80	800	120	28 x 11	2.82	5	
GZ100	1000	120	28 x 11	3.22	5	
GZ125	1250	120	28 x 11	3.75	1	

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- 20 % more clamping force per spindle rotation with optimised rail profile
- Maximum security with linear transfer of force at the sliding arm
- Clamping force up to 6,000 N
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
- High-quality 2-component plastic handle
- Pressure plates can be replaced by hand – no need for tools (from 80 mm width)



- 20 % more clamping force per spindle rotation with optimised rail profile
- Maximum security with linear transfer of force at the sliding arm
- Clamping force up to 6,000 N
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
- Ergonomically shaped wood handle
- Pressure plates can be replaced by hand – no need for tools (from 80 mm width)

All-steel screw clamps

- 20 % more clamping force per spindle rotation with optimised rail profile
- Maximum security with linear transfer of force at the sliding arm
- Clamping force up to 6,000 N
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
- Tommy bar with rounded ends for simple transfer of force when clamping
- Pressure plates can be replaced by hand – no need for tools



Original BESSEY all-steel screw clamp GZ with tommy bar

№	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GZ16K	160	80	17.5 x 6.8	0.50	10	
GZ20K	200	100	22 x 8.5	0.93	10	
GZ25K	250	120	24.5 x 9.5	1.31	10	
GZ30K	300	140	28 x 11	1.89	10	
GZ40K	400	120	28 x 11	2.00	10	
GZ50K	500	120	28 x 11	2.20	5	
GZ60K	600	120	28 x 11	2.40	5	
GZ80K	800	120	28 x 11	2.76	5	
GZ100K	1000	120	28 x 11	3.18	5	
GZ125K	1250	120	28 x 11	3.65	1	

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NEW



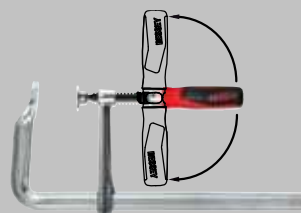
Original BESSEY all-steel screw clamp GZ with swivel handle



№	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GZ25KG	250	120	24.5 x 9.5	1.42	10	
GZ30-12KG	300	120	24.5 x 9.5	1.50	10	
GZ40-12KG	400	120	24.5 x 9.5	1.69	10	
GZ50-12KG	500	120	24.5 x 9.5	1.82	10	
GZ60-12KG	600	120	24.5 x 9.5	1.99	5	

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- Clamping force up to 5,000 N
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
- High-quality 2-component plastic handle
- Swivel handle can be folded 90° and rotated 360° without obstruction – even in areas that are difficult to reach
- Pressure plates can be replaced by hand – no need for tools

- For screw clamps
- For gentle clamping
- May be applied on both sides
- Cut them to size



Pressure cap strips SKS (2 pcs./bag)

№	Suitable for	V3
	SKS10/20	
SKS20/40	TG20 to TG40 / TGK / GZ20 to GZ60 / GM20Z to GM60Z	

All-steel screw clamps



All-steel screw clamp classiX GS with tried-and-tested wooden handle



N ^o	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GS10	100	50	11.5 x 5.6	0.20	10	
GS12	120	60	13.5 x 6.5	0.30	10	
GS16	160	80	16 x 7.5	0.48	10	
GS20	200	100	19.5 x 9.5	0.83	10	
GS25	250	120	22 x 10.5	1.30	10	
GS30	300	140	25 x 12	1.85	10	
GS40	400	120	25 x 12	1.95	10	
GS50	500	120	25 x 12	2.20	5	
GS60	600	120	25 x 12	2.40	5	
GS80	800	120	27 x 13	3.17	5	
GS100	1000	120	27 x 13	3.60	5	



- Clamping force up to 5,000 N
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
- Ergonomically shaped wood handle



All-steel screw clamp classiX GS with tommy bar



N ^o	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GS16K	160	80	16 x 7.5	0.46	10	
GS20K	200	100	19.5 x 9.5	0.83	10	
GS25K	250	120	22 x 10.5	1.20	10	
GS30K	300	140	25 x 12	1.79	10	
GS40K	400	120	25 x 12	1.95	10	
GS50K	500	120	25 x 12	2.17	5	
GS60K	600	120	25 x 12	2.37	5	
GS80K	800	120	27 x 13	3.11	5	
GS100K	1000	120	27 x 13	3.58	5	

- Clamping force up to 5,000 N
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
- Tommy bar with rounded ends for simple transfer of force when clamping

Comparison of the first and second line on Original BESSEY all-steel screw clamps

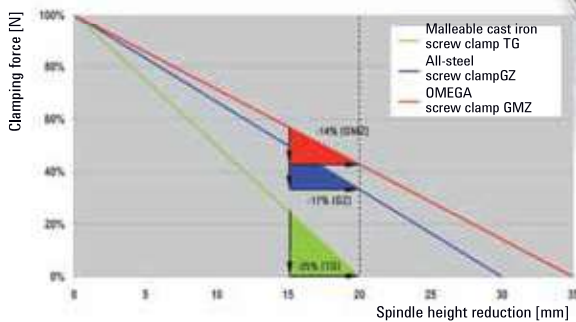
Order no.	Original BESSEY all-steel screw clamps				classiX	
	GZ...2K	GZ...	GZ...K	GZ...KG	GS	GS...K
Product range	+++	+++	+++	+++	++	++
Clamping width	100-1,250 mm	100-1,250 mm	160-1,250 mm	250-600 mm	100-1,000 mm	160-1,000 mm
Throat depth	60-140 mm	60-140 mm	80-140 mm	120 mm	50-140 mm	80-140 mm
Optimised rail profile	✓	✓	✓	✓		
Clamping force up to	+++ 6,000 N	+++ 6,000 N	+++ 6,000 N	+++ 5,000 N	++ 5,000 N	++ 5,000 N
Changeable pressure plate	✓	✓	✓	✓		
Intellectual property rights	on rail, sliding arm, pressure plate and appearance					

All-steel screw clamps

It has a reserve of power, with the patented OMEGA bend



The load-displacement diagram shows:
the OMEGA screw clamp maintains the clamping
force significantly longer under vibration.



Greater safety with the OMEGA-bend

The unique, patented OMEGA-bend increases the spring deflection of the OMEGA-screw clamp. The decrease in pressure at the point of clamping (...per spindle rotation) is significantly lower with the BESSEY OMEGA clamp than with a comparable malleable cast iron or all-steel screw clamp (see diagram). That means that, even when vibrations are present, this clamp will maintain its clamping pressure longer than a conventional screw, thereby offering greater working safety. Don't settle for less!

Your benefits at a glance:

- 1 Innovative OMEGA bend**
The patented OMEGA bend gives you added safety. It means you lose even less clamping pressure, even when vibrations are present.
- 2 Maximum flexibility**
The clamp forged from a single piece with moulded pressure plate is hardened, tempered and galvanised, making it highly durable and torsion-resistant. The clamps clamp resiliently and elastically.

3 Close flat clamping

The OMEGA bend allows you to place the clamp absolutely flat to the surface of the workpiece. This allows clamping right into the corners.

4 Pressure plate

For enhanced serviceability the pressure plate can be changed with no need for tools. It can be replaced very easily and quickly.

All-steel screw clamps



**OMEGA screw clamp GMZ
with 2-component plastic handle**

№	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GM16Z-2K	160	80	16 x 7.5	0.55	10	
GM20Z-2K	200	100	19.5 x 9.5	0.94	10	
GM25Z-2K	250	120	22 x 10.5	1.35	10	
GM30Z-2K	300	140	25 x 12	1.91	10	
GM40Z-2K	400	120	25 x 12	2.08	10	
GM50Z-2K	500	120	25 x 12	2.29	5	
GM60Z-2K	600	120	25 x 12	2.46	5	



- Clamping force up to 5,000 N
- Fixed jaw with patented OMEGA bow for less clamping force loss
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
- High-quality 2-component plastic handle
- Pressure plates can be replaced with no need for tools



**OMEGA-screw clamp GMZ
with tommy bar**

№	←a→	←b→	←x→	⚖	📦	V2
	mm	mm	mm	kg	qty.	
GM20ZK	200	100	19.5 x 9.5	0.88	10	
GM25ZK	250	120	22 x 10.5	1.25	10	
GM30ZK	300	140	25 x 12	1.84	10	
GM50ZK	500	120	25 x 12	2.22	5	
GM60ZK	600	120	25 x 12	2.42	5	

- Clamping force up to 5,000 N
- Fixed jaw with patented OMEGA bow for less clamping force loss
- Fixed jaw and sliding arm are constructed of tempered steel for resilient clamping
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- Pressure plates can be replaced with no need for tools

Pressure cap strips SKS (2 pcs./bag)



№	Suitable for	V3
SKS10/20	TG10 to TG20 / GZ10 to GZ20 / GM16Z to GM20Z	
SKS20/40	TG20 to TG40 / TGK / GZ20 to GZ60 / GM20Z to GM60Z	

- For screw clamps
- For gentle clamping
- May be applied on both sides
- Cut them to size