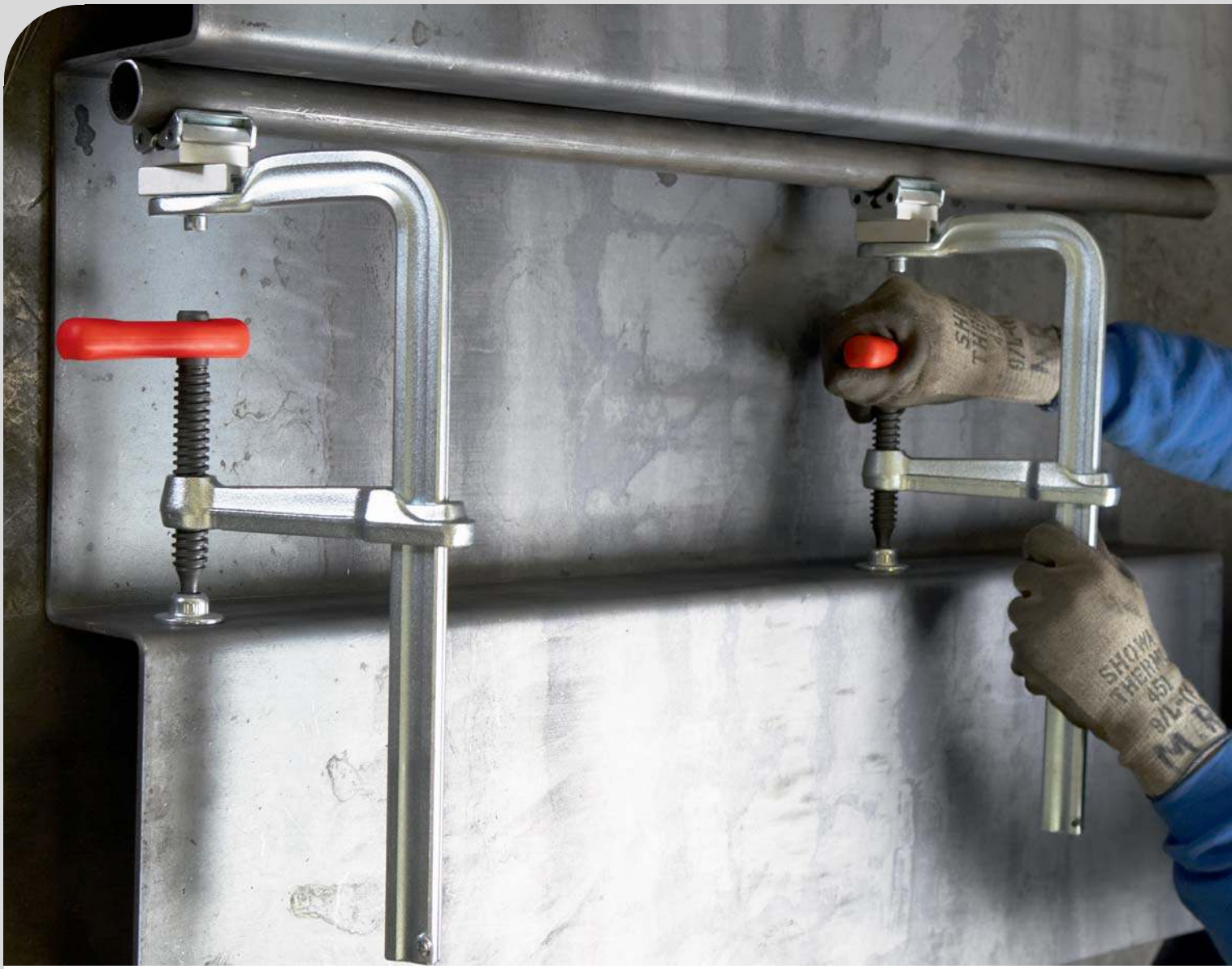
KombiKlamp

Multi-purpose clamping



The clamp that adjusts itself

The KombiKlamp is a very special clamp. Alongside the properties of a traditional all-steel screw clamp, it has a special clamping attachment. This so-called Vario clamping attachment offers a perfect fit for workpieces at angles of 60° internal to 60° external. This makes it possible to clamp round, oval and angular workpieces both simply and securely. Spreading with the KombiKlamp is also problem free, as both the clamping attachment and the sliding arm can be quickly swapped. Now you have seen the possibilities contained within this clamp, why not try it for yourself!

KombiKlamp

Your benefits at a glance:

1 Multi-angle pad
The multi-angle pad is especially adapted to round, oval and angled workpieces – from 60° inside to 60° outside. For perfectly flat clamping remove the multi-angle pad. For spreading it is easy to reverse the position of the pad on the anvil of the clamp. Its like having 3 clamps in one.

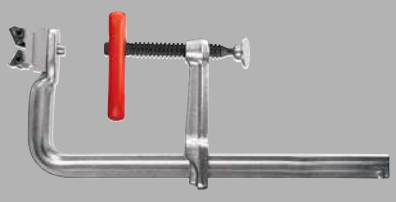
2 Removable end stop
The end stop can be removed – to allow the sliding arm to be quickly turned around for spreading.

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 Tommy bar with BESSEY grip
The addition of the plastic BESSEY grip means that clamping can also be very comfortable. The stable tommy bar has a plastic pad to ensure that it is easy to grip with your hand. This allows powerful, controlled clamping.

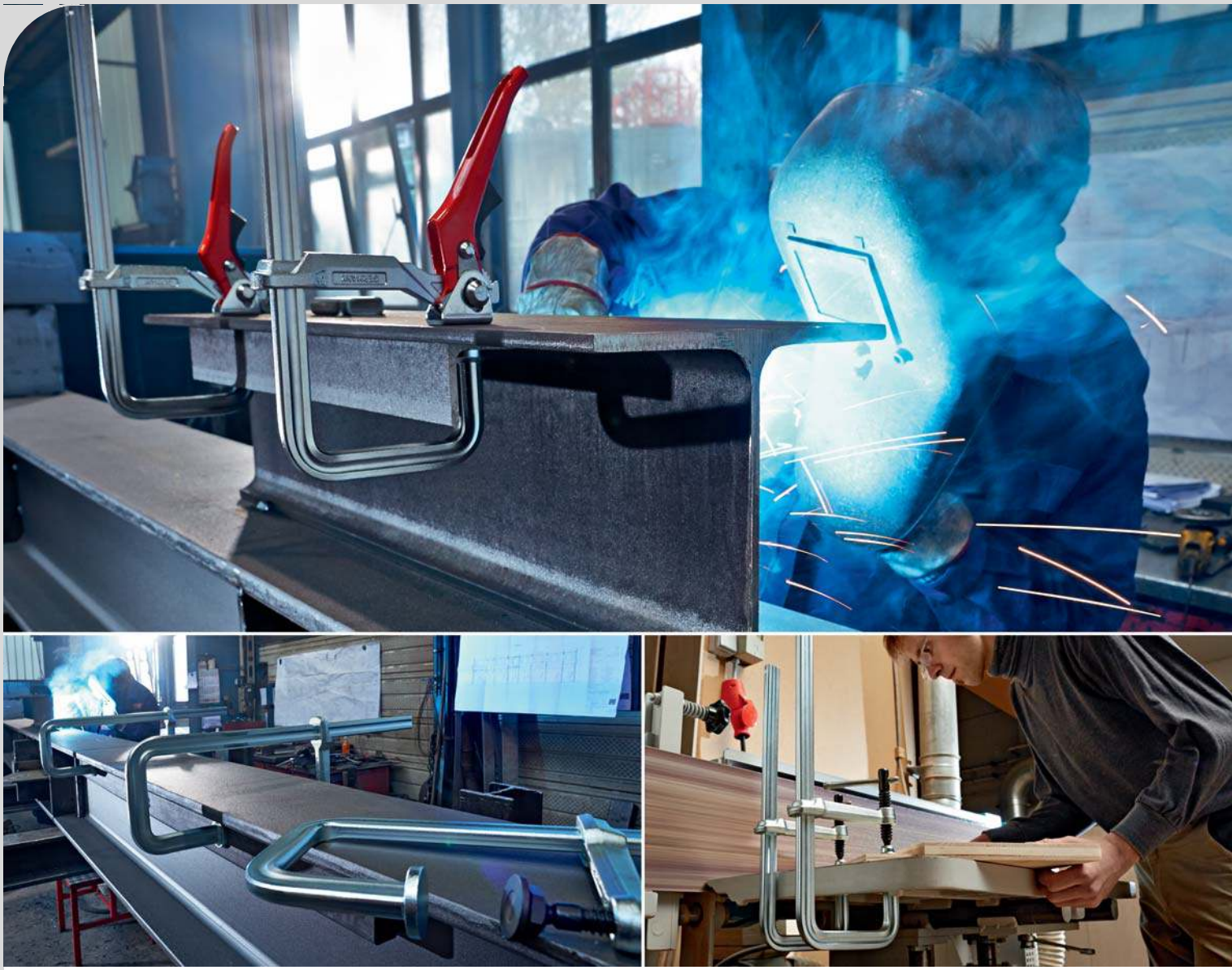
KombiKlamp SG-VAD

№	↔a↔	↔b↔	↔x↔			€
	mm	mm	mm	kg	qty.	V2
SG30VAD	300	120	30 x 15	2.95	6	93,60



- Clamping force up to 7,500 N
- Clamping and spreading of round, oval and angled workpieces
- Pressure plates can be replaced with no need for tools

Step-over clamping

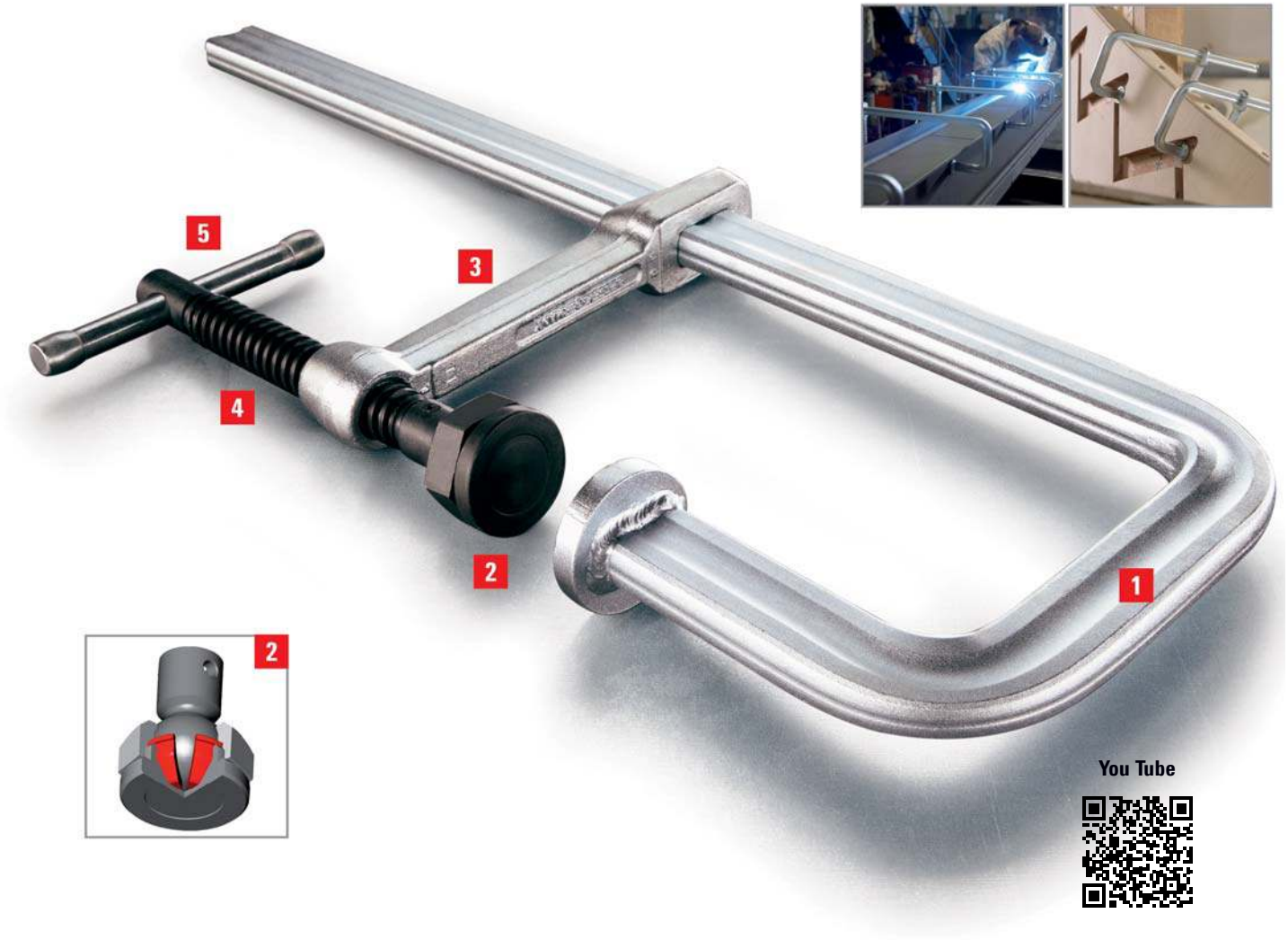


No spacers or extension pieces necessary

The original BESSEY U-clamps have been developed on the basis of the tried-and-tested all-steel, lever and high-performance clamps. The characteristic U-shaped fixed arms swiftly reaches over obstructions so find its objective like an extra hand. No spacers or extensions are needed with the high stepping U-clamp.

The SGU high-performance clamp – with U-shaped fixed arm for step-over clamping with no need for spacers.

U-clamps



You Tube

Your benefits at a glance:

1 Extremely sturdy
The U-shaped fixed arm is produced and tempered from a single piece, thus very torsion-resistant. This guarantees you maximum tensile strength and sturdiness.

2 Special tilting pressure plate
The heat-resistant pressure plate (SGU/STBU) is replaceable and can be tilted up to 35° so it can even clamp on angled or sloping surfaces. It has an extremely long service-life due to the oil-soaked sintered steel insert's excellent sliding and emergency running properties.

3 Forged sliding arm
The sliding arm is made from forged tempered steel, and can withstand extremely large loads. You can be sure of that.

4 Tempered spindle
The tempered spindle is particularly sturdy and wear-resistant. This considerably increases its durability.

5 Sturdy tommy bar
The sturdy tommy bar has special rounded hand-friendly ends, as well as a hexagonal bolt. This allows powerful, controlled clamping.

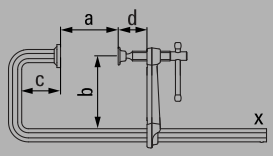
U-clamps

- Clamping force up to 4,000 N
- Double-sided step-over clamping, specially suited for T-profiles and double T-profiles
- Low weight
- Tempered stainless steel and fixed bracket for resilient and elastic clamping

- Clamping force up to 12,000 N at tightening torque of 40 Nm
- Double-sided step-over clamping, specially suited for T-profiles and double T-profiles
- Long life due to heat-resistant pressure plate with sintered steel insert, which can be tilted up to 35°

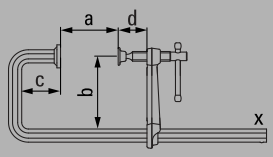
U-shaped all-steel screw clamp GUZ

№	←a→	←b→	←c→	←d→	←x→			€
	mm	mm	mm	mm	mm	kg	qty.	V2
GU25-12-6ZK	250	120	60	60	22 x 10.5	1.46	10	57,90



U-shaped high-performance clamp SGU

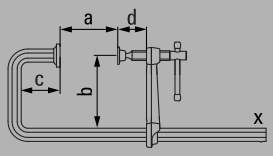
№	←a→	←b→	←c→	←d→	←x→			€
	mm	mm	mm	mm	mm	kg	qty.	V2
SGU30-14-10	300	140	100	130	30 x 15	3.75	5	121,30



U-clamps

U-shaped high-performance clamp STBU, heavy duty

№	↔a↔	↔b↔	↔c↔	↔d↔	↔x↔			€
	mm	mm	mm	mm	mm	kg	qty.	V2
STBU40-17-15	500	175	150	110	40 x 20	7.96	1	248,80



- Clamping force up to 22,000 N at tightening torque of 80 Nm
- Double-sided step-over clamping, specially suited for T-profiles and double T-profiles
- With 19 mm hexagonal bolt on the end of the spindle
- Long life due to heat-resistant pressure plate with sintered steel insert, which can be tilted up to 35°

Special pressure plate

№	Description	Suitable for	€
			V3
3100736	Standard	SLM, SGM, SGTM, STBM, STBVC, SGU, SLV, GSV, SPZ80K	20,30
3100737	Standard	STBS, STBU	30,60
3101192	Serrated	SLM, SGM, SGTM, STBM, STBVC, SGU, SLV, GSV, SPZ80K	22,80
3101193	V-grooved	SLM, SGM, SGTM, STBM, STBVC, SGU, SLV, GSV, SPZ80K	22,80

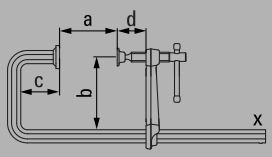
- Long life due to heat-resistant pressure plate with sintered steel insert, which can be tilted up to 35°

Three design versions:

- Smooth faced (standard version)
- Rough faced for secure clamping on dirty surfaces
- V-groove face for round, oval and edged workpieces

U-shaped lever clamp GUH

№	↔a↔	↔b↔	↔c↔	↔d↔	↔x↔			€
	mm	mm	mm	mm	mm	kg	qty.	V2
GU25-12-6H	250	120	60	10	22 x 10.5	1.67	5	77,60



- Clamping force up to 3,800 N
- Step-over clamping, specially suited for T profiles
- Low weight
- Quick – up to 5 x faster than regular clamps

Clamping and spreading in confined spaces

Ideal for particularly challenging tasks

The original BESSEY claw clamp lets you clamp and spread in even the most confined spaces. It can be used in narrow openings as well as for short projections. This is thanks to the clamp's unique clamping and spreading mechanism, which is located behind the rail. The original BESSEY claw clamp also boasts a very robust construction. This makes it the perfect tool for particularly challenging tasks, such as welding and assembly work.

The claw clamp GRA – specially developed for welding and assembly work in poorly accessible places.

Claw clamps

Your benefits at a glance:

1 **Maximum stability**
The clamp forged from a single piece with moulded pressure plate is hardened, tempered and galvanised, making it highly durable and torsion-resistant. The optimised profile now allows greater extension with the same stability.

2 **External handle**
The handle is located behind the clamp's rail. This is specially conceived to allow the clamping and spreading of work-pieces which are not easily accessible.

3 **Special V-grooved pressure plate**
This sturdy pressure plate is made from high-grade cast iron, and can be tilted by up to 30°. The prism is ideal for clamping and spreading round or angular work-pieces.

4 **Removable end stop**
The end stop can be removed – to allow the sliding arm to be quickly turned around for spreading.

Claw clamp GRA

№	↔a↔	↔b↔	↔x↔			€
	mm	mm	mm	kg	qty.	V2
GRA30-12	300	120	28 x 11	2.44	5	109,60
GRA60-12	600	120	28 x 11	3.06	5	124,60
GRA100-12	1000	120	28 x 11	3.83	5	148,10

- Clamping and spreading force up to 7,500 N
- Externally-positioned spindle, protected from welding spatter
- Clear access to work area

Pressure piece GRD (2 pcs./bag)

№			€
	kg	qty.	V2
GRD	0.66	1	18,80

- Spreading from the inside outwards
- Flat jaw face
- V-groove for clamping round and oval workpieces

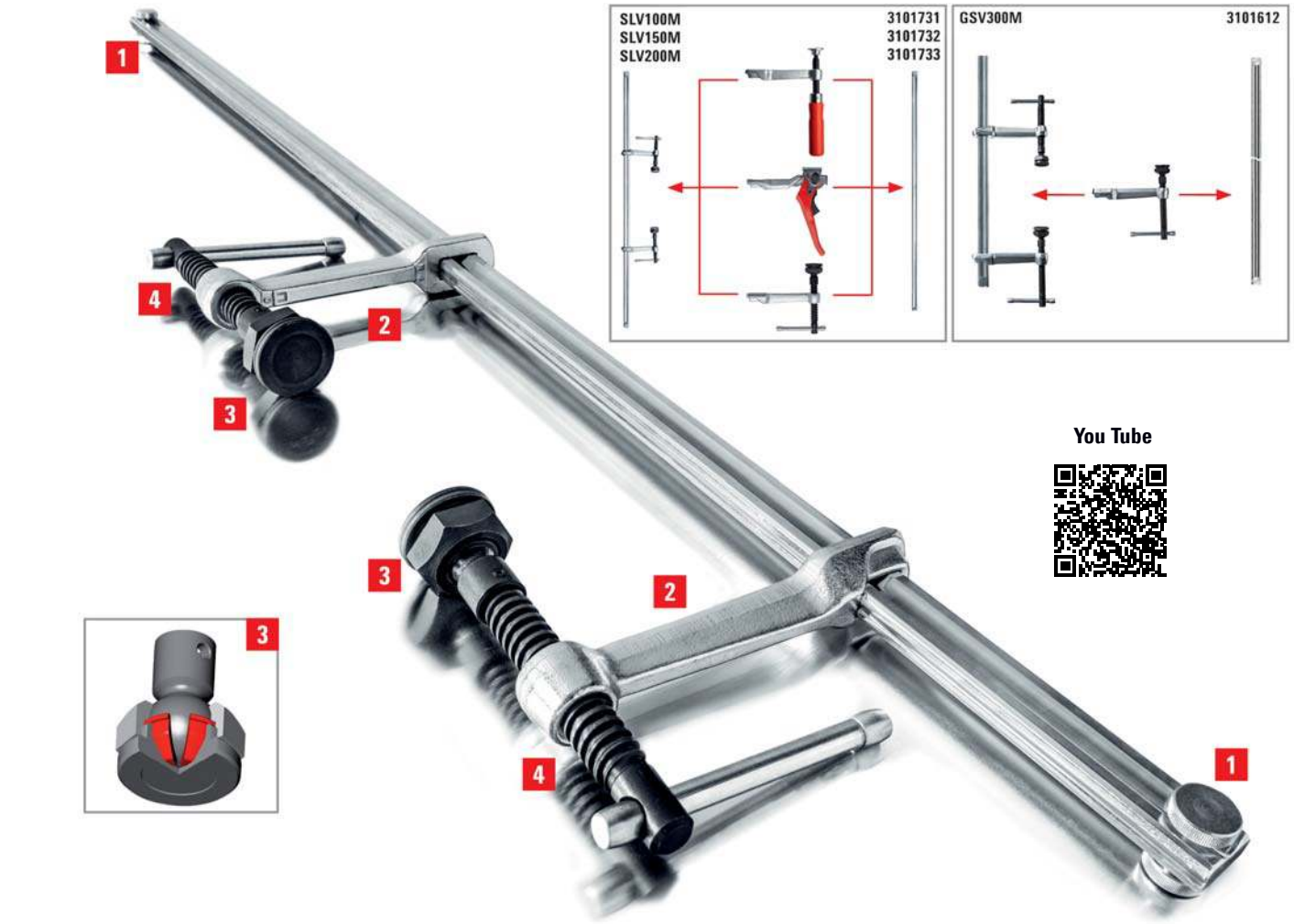
Variable high-performance clamps

New flexibility with large clamping widths

A modular concept for the widest range of applications

Alongside complete assembled high-performance clamping sets BESSEY also offers versatile accessories that can be combined with one another. Amongst these are two different rail models: One with a 27 x 13 mm profile in three different lengths, and another with a 30 x 15 mm profile for work with high clamping forces and clamping widths up to three metres. All rails have end fastenings on both sides that can be loosened without tools. Sliding arms that are already fitted can be changed over from clamping to spreading or replaced by different sliding arms or even supplemented with others. Sliding arms with wooden grips, lever handles or tommy bars are available. The flexibility that this clamping system offers ensures that numerous applications can be handled by the combinations of rails and sliding arms available. There are no limits set with this individual tailoring.

Variable high-performance clamps



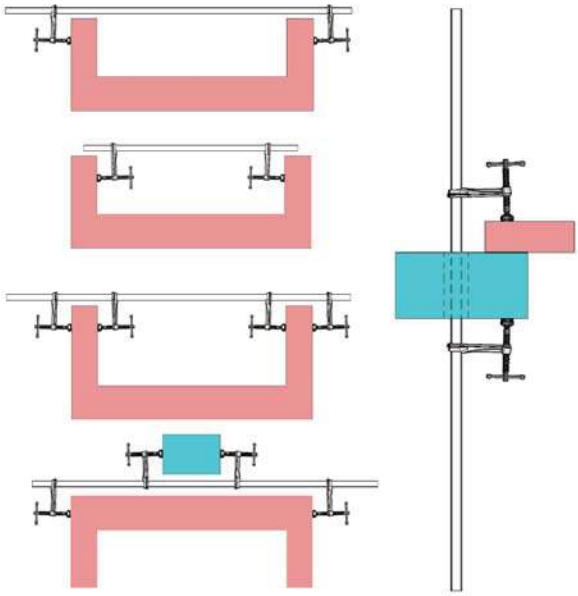
Your benefits at a glance:

1 End fastenings can be loosened without tools
The end fastenings on both sides can be loosened without tools enabling rapid changeover of the sliding arms for spreading tasks. It is also possible to replace the sliding arms or to add additional sliding arms easily.

2 Interchangeable sliding arms
The sliding arm is made from forged tempered steel and guarantees the highest level of safety through the linear transfer of forces and can withstand extremely large loads. These can be replaced by other sliding arm variants to suit the application and can also be supplemented by others.

3 Special tilting pressure plate
Both the SLV and the GSV have a special heat-resistant pressure plate. This is replaceable and can be tilted up to 35°. Furthermore, the special pressure plates used with the GSV have a hardened and oil-soaked sintered steel insert. This guarantees outstanding sliding and emergency running properties, thereby ensuring an extremely long service life.

4 Tempered spindle
The tempered spindle is particularly sturdy and wear-resistant. This considerably increases its durability.



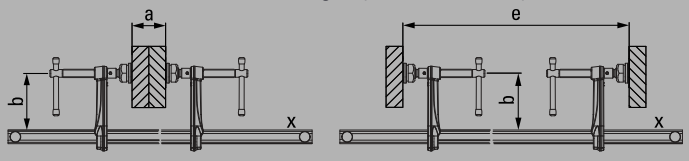
Variable high-performance clamps

- Clamping force up to 6,500 N
- Tipping is prevented through central positioning on the workpiece
- Special heat-resistant pressure plate, can be tilted by up to 35°
- Clamp can be fed through an opening in the workpiece/component

Variable high-performance clamps – Complete set SLV

№	←a→	←b→	←e→	←x→			€
	mm	mm	mm	mm	kg	qty.	V2
SLV100M	1000	120	340-1250	27 x 13	4.78	1	112,70
SLV150M	1500	120	340-1750	27 x 13	6.00	1	138,70
SLV200M	2000	120	340-2250	27 x 13	6.50	1	163,00

Wide range of possible applications due to interchangeable sliding arm available in various different designs (see accessories)

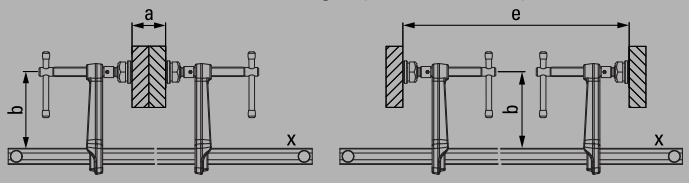


- Clamping force up to 9,000 N
- Tipping is prevented through central positioning on the workpiece
- Long service life thanks to special heat-resistant pressure plate with sintered steel insert, can be tilted by up to 35°
- Clamp can be fed through an opening in the workpiece/component

Variable high performance clamps – Complete set GSV

№	←a→	←b→	←e→	←x→			€
	mm	mm	mm	mm	kg	qty.	V2
GSV300M	3000	140	400-3340	30 x 15	13.00	1	301,80

Wide range of possible applications due to interchangeable sliding arm available in various different designs (see accessories)



- Long life due to heat-resistant pressure plate with sintered steel insert, which can be tilted up to 35°

Three design versions:

- Smooth faced (standard version)
- Rough faced for secure clamping on dirty surfaces
- V-groove face for round, oval and edged workpieces

Special pressure plate

№	Description	Suitable for	€
			V3
3100736	Standard	SLM, SGM, SGTM, STBM, STBVC, SGU, SLV, GSV, SPZ80K	20,30
3101192	Serrated	SLM, SGM, SGTM, STBM, STBVC, SGU, SLV, GSV, SPZ80K	22,80
3101193	V-grooved	SLM, SGM, SGTM, STBM, STBVC, SGU, SLV, GSV, SPZ80K	22,80
3101219	Cutting ring	SLV, GSV, SPZ80K	22,20

Anti-slip clamping with the cutting ring pressure plate

Accessories

SLV size rails

№	←a→	←x→			€
	mm	mm	kg	qty.	V2
3101731	1000	27 x 13	2.85	1	47,40
3101732	1500	27 x 13	4.05	1	96,60
3101733	2000	27 x 13	5.25	1	144,90

- 27 x 13 mm profile, cold drawn and galvanised
- End fastenings on both sides can be loosened without tools – for rapid changeover
- Suitable for all SLV size sliding arms

GSV size rails

№	←a→	←x→			€
	mm	mm	kg	qty.	V2
3101612	3000	30 x 15	10.40	1	217,40

- 30 x 15 mm profile, cold drawn and galvanised
- End fastenings on both sides can be loosened without tools – for rapid changeover
- Suitable for all GSV size sliding arms

Complete sliding arm for SLV sizes

№	Description	←b→	←x→			€
		mm	mm	kg	qty.	V3
3101426	Wooden handle	120	27 x 13	0.73	1	30,40
3101337	Lever handle	120	27 x 13	1.10	1	80,80
3101338	Tommy bar incl. special pressure plate	120	27 x 13	0.82	1	51,00

- Three different grip variants/designs
- Suitable for all SLV size rails

Complete sliding arm for GSV sizes

№	Description	←b→	←x→			€
		mm	mm	kg	qty.	V3
3101329	Tommy bar incl. special pressure plate with sintered steel insert	120	30 x 15	1.13	1	59,70
3101330		140	30 x 15	1.21	1	64,70
3101331		200	30 x 15	1.40	1	82,50

- One arm design with three throat depths
- Suitable for GSV size rails

Clamping using the original screw clamp shape

Whether manufactured using drop forging or drawn steel the BESSEY C-clamps provide a solution for every application

C-clamps are used when high clamping forces are required with consistently equal jaw openings, predominantly in the metal and steel-working sector. The C-clamp is the original type of screw clamp. A wide range of materials have been and are used in their manufacture. At one time there were even versions made purely out of BESSEY all steel, whether drawn or forged, C-clamps now provide solutions for all the demands of the modern market. The VC Series is noteworthy for the fact that its frame is produced with original BESSEY profiled steel from our in-house steel drawing plant. It is then tempered and electro-galvanised. This achieves much higher tensile strength compared to cast versions.

The C-screw clamp VC is unique in featuring the characteristics of the original BESSEY all-steel screw clamp – it is light, handy, elastic and break-resistant.

C-clamps

C-clamp VC, stable

№	←a→		←b→		←x→				€
	mm	"	mm	"	mm	kN	kg	qty.	V2
VC2	0-50	0 - 2	50	2	19.5 x 9.5	7	0.43	10	36,50
VC3	0 - 75	0 - 3	50	2	22 x 10.5	13	0.63	10	41,60
VC4	0 - 100	0 - 4	60	2 3/8	25 x 12	13	1.02	10	53,90
VC6	0 - 150	0 - 6	75	3	27 x 13	15	1.41	10	70,90
VC8	0 - 200	0 - 7 7/8	90	3 1/2	30 x 15	15	2.25	5	89,30
VC10	0 - 250	0 - 10	100	4	40 x 20	15	4.01	5	113,70

- Clamping force of up to 15,000 N
- Nearly unbreakable and tempered
- Tried-and-true BESSEY all-steel quality

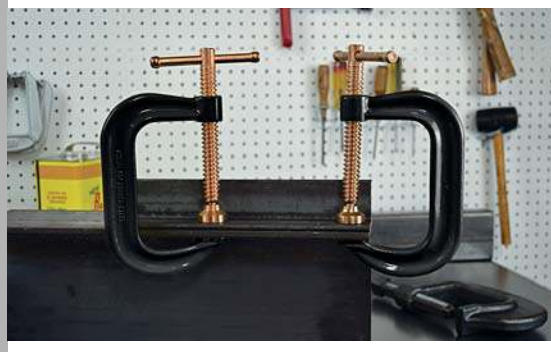
C-clamp SC

№	←a→		←b→					€
	mm	"	mm	"	kN	kg	qty.	V2
SC40	0-40	0 - 1 5/8	40	1 5/8	5,5	0.40	10	29,90
SC60	0 - 60	0 - 2 3/8	55	2 3/16	5,5	0.57	10	34,30
SC80	0 - 80	0 - 3 1/8	65	2 9/16	10	0.99	10	39,70
SC100	0 - 100	0 - 4	75	3	13,5	1.40	10	47,80
SC120	0 - 120	0 - 7 7/8	85	3 1/4	18	2.10	10	57,20
SC150	0 - 150	0 - 6	95	3 3/4	18	2.35	10	64,40
SC200	0 - 200	0 - 7 7/8	105	4 1/4	22	4.00	5	81,50

- Clamping force of up to 22,000 N
- Drop forged

C-clamp CDF-C

№	←a→		←b→					€
	mm	"	mm	"	kN	kg	qty.	V2
CDF403C	0 - 75	0 - 3	60	2 3/8	13	0.85	6	34,60
CDF404C	0 - 105	0 - 4 1/4	85	2 3/4	16,5	1.60	6	41,60
CDF406C	0 - 150	0 - 6	100	3 5/8	17	2.32	6	55,70
CDF408C	0 - 205	0 - 8	125	4 1/2	17	3.42	6	70,50
CDF410C	50-245	2 - 10	150	5 3/8	18	5.49	4	86,60



- Clamping force up to 18,000 N
- Drop forged, extremely stable
- The copper-plated spindle prevents welding splatter from sticking

Clamping and gripping

Many variants to cover a very wide range of applications

Whether for all-round or step-over clamping, or for fixing workpieces which are lying next to one another: the original BESSEY grip pliers are always ideal. This is because the infinitely adjustable plier jaws lie parallel to each other in every position, or at the desired angle to one another. And the best thing is: the selected clamping pressure remains constant however wide open the mouth of the pliers is. That's true whatever variant you choose. Try it out!

The pipe grip GRZRO – secure clamping of round workpieces thanks to infinitely adjustable plier jaws.

You Tube

Grip pliers

Parallel grip GRZ

№	↔a↔	↔b↔			€
	mm	mm	kg	qty.	V3
GRZ10	100	65	1.00	10	69,60
GRZ20	200	65	1.20	10	76,40

- Parallel jaw faces
- Prism recess for small round parts
- Includes pressure caps for gentle clamping of sensitive surfaces

C-grip GRZC

№	↔a↔	↔b↔	↔d↔			€
	mm	mm	mm	kg	qty.	V3
GRZC	110	80	40	1.10	10	81,10

- For step-over clamping from both sides

Variogrip GRZV

№	↔a↔	↔b↔	↔d↔			€
	mm	mm	mm	kg	qty.	V3
GRZV	100	50-80	43	1.25	10	117,70

- Throat depth and opening are infinitely adjustable thanks to split sliding arm
- For clamping workpieces of different thicknesses, or non-aligned workpieces

Pipe grip GRZRO

№	For pipes Ø	↔b↔			€
	mm	mm	kg	qty.	V3
GRZRO	0 – 110	65	1.30	10	98,80

- Ideal for holding round objects of constant diameter
- Includes pressure caps
- Gentle clamping of sensitive surfaces
- Suitable for tack welding, heat-resistant up to 200° C

Earth (ground) clamps

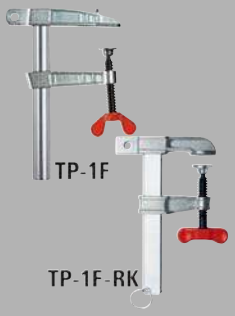
Earth (ground) clamp LP / TP with tried-and true wooden handle

- With malleable cast iron arms
- Ergonomically shaped wood handle
- Grounding connection hole in the upper part

№	←a→	←b→	←x→					€
	mm	mm	mm	mm	A	kg	qty.	V1
LP-1	150	60	20 x 5	10,5	300	0.50	10	18,90
TP-1	150	80	25 x 6	10,5	400	0.78	10	23,50

Earth (ground) clamp LP / TP with thumb screw

- With malleable cast iron arms
- Practical thumb screw
- Grounding connection hole in the upper part
- TP-...F-RK: Cable strain relief at rail end / ring internal diameter 30 mm



№	←a→	←b→	←x→					€
	mm	mm	mm	mm	A	kg	qty.	V1
LP-1F	150	60	20 x 5	10,5	300	0.53	10	19,10
TP-1F	150	80	25 x 6	10,5	400	0.78	10	25,00
TP-2F	150	60	30 x 8	11	600	1.12	20	31,40
TP-1F-RK	150	80	25 x 6	10,5	400	0.78	10	27,30
TP-2F-RK	150	60	30 x 8	11	600	1.12	20	33,50

Earth (ground) clamp TP with tommy bar

- With malleable cast iron arms
- Tommy bar with rounded ends for simple transfer of force when clamping
- Grounding connection hole in the upper part

№	←a→	←b→	←x→					€
	mm	mm	mm	mm	A	kg	qty.	V1
TP-1K	150	80	25 x 6	10,5	400	0.75	10	25,00

Earth (ground) clamp TGP

- With malleable cast iron arms
- Grounding connection hole at end of rail

№	←a→	←b→	←x→					€
	mm	mm	mm	mm	A	kg	qty.	V1
TG-P12	120	60	20 x 5	10,5	200	0.42	10	19,00
TG-P20	200	100	27 x 7	13	350	1.08	10	31,40

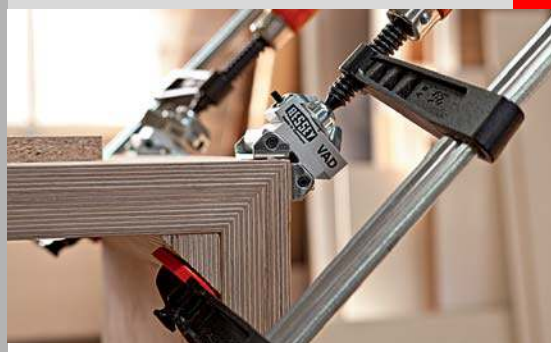
Earth (ground) clamp CP

- With C-shaped malleable cast iron arms

№	←a→	←b→					€
	mm	mm	mm	A	kg	qty.	V1
CP-F	50	30	8,4	200	0.19	10	10,60

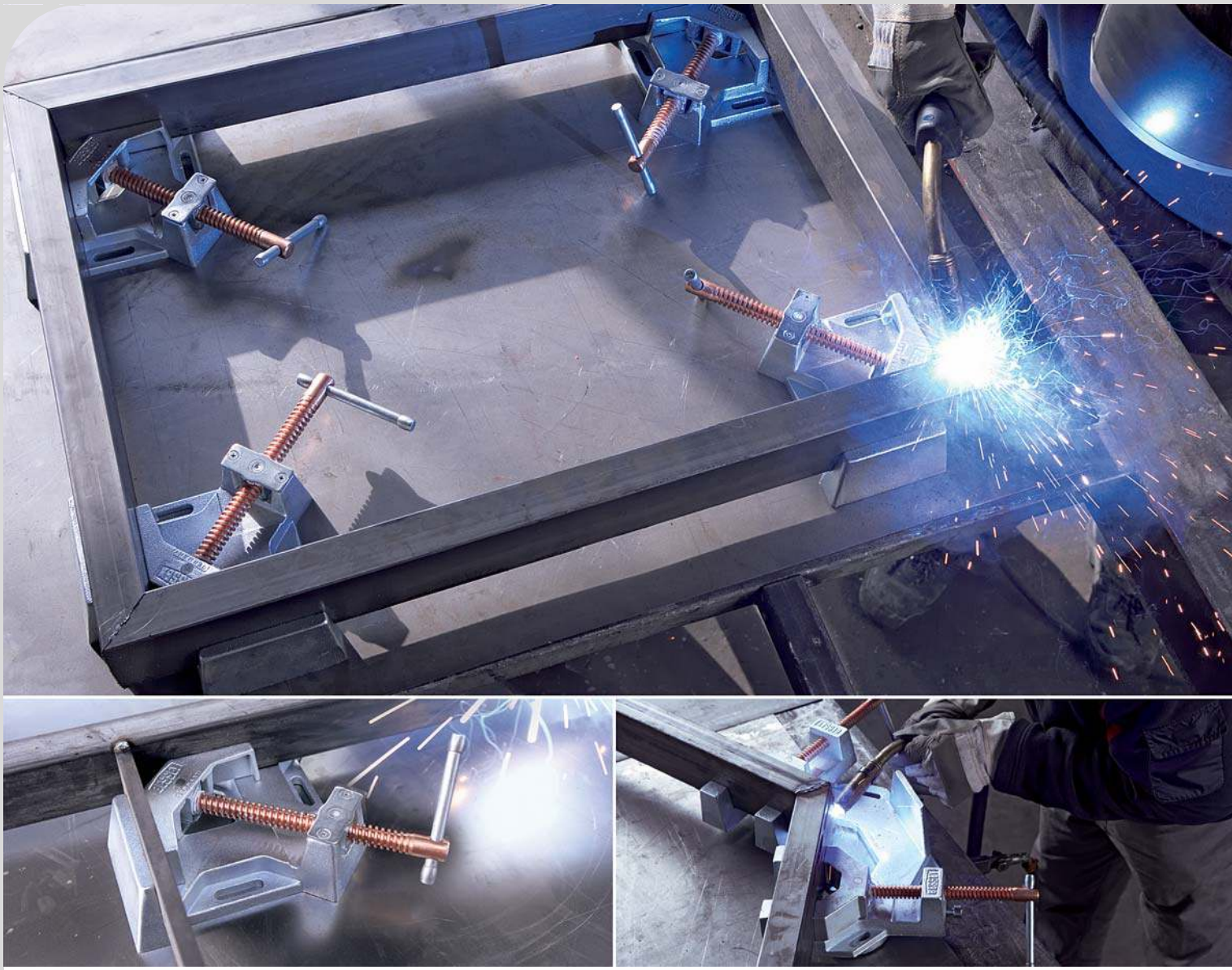
Multi angle pad VAD (2 pcs./bag)

№		Jaw face width			€
		mm	kg	qty.	V3
VAD	from 60° inner to 60° outer	45	0.48	1	56,20



- For adaptation to round, oval and angular workpieces in particular
- Infinite angle adjustment from 60° inner to 60° outer
- Suitable for original BESSEY malleable cast iron screw clamps TG as well as GZ and GMZ from 100 mm throat depth

Clamping angles and mitres

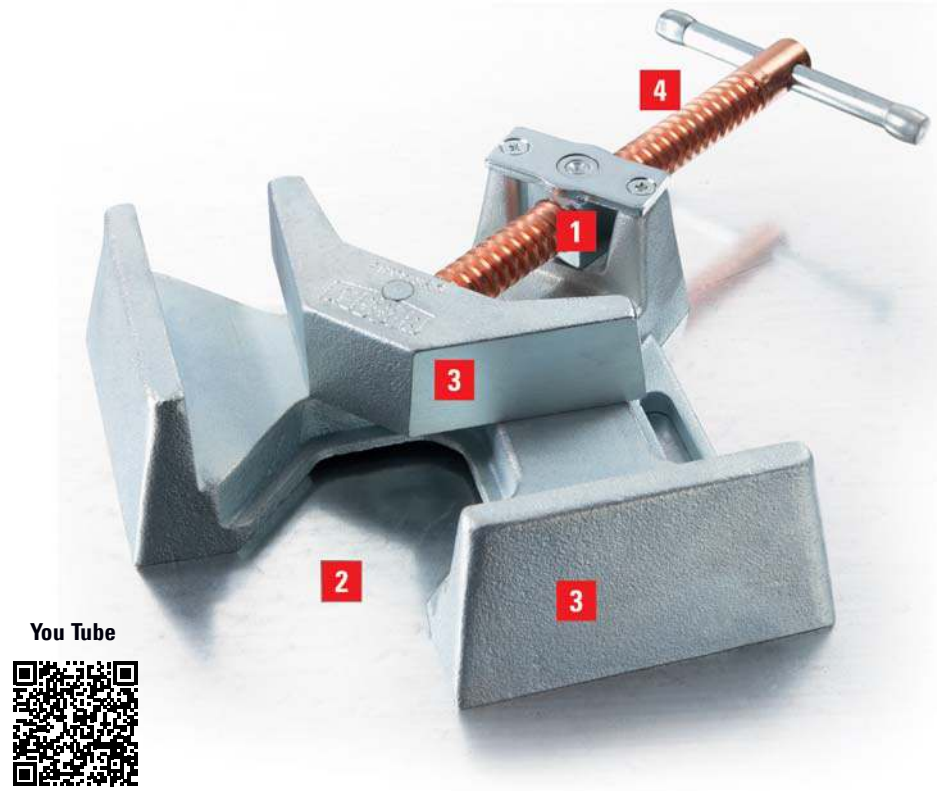


Unhindered access to workpiece during welding and assembly work

The original BESSEY metal angle clamps have been especially developed for use in steel construction, welding and metalworking. Their wide range of applications includes e.g. holding, fixing and aligning materials at an exact right angle. The clear working area means that you can access the workpiece unhindered during welding and assembly work, and when fixing T-joints. That's why the original BESSEY metal angle clamp is a must for every workshop.

The metal angle clamp WSM – for holding workpieces – including workpieces of different thicknesses – at a precise 90° angle.

Metal angle clamps



You Tube

Your benefits at a glance:

1 **Automatic adjustment**
The spindle nut with articulated bearing allows automatic adjustment of the pressure jaws for different workpiece resistances.

2 **Open working area**
The open passage makes it possible to fix T-fasteners and ensures free access to the workpiece for welding and assembly work.

3 **Stable base and clamping jaws**
The stable base and the clamping jaws are manufactured from high-quality cast iron for high clamping power. They are zinc-coated and thus protected against corrosion. The jaws are processed for precise right-angled clamping.

4 **Copper-plated spindle**
The spindle with acme thread is copper-plated to prevent the adhesion of welding spatter.

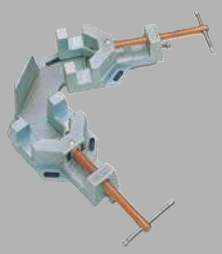
Welders' angle clamps WSM

№	↔a↔	Current passage max.					€
	mm	mm	mm		kg	qty.	V3
WSM9	2 x 90	60	35	110	3.80	1	190,60
WSM12	2 x 120	100	61	120	7.80	1	215,90

3D CAD data for download at www.bessey.de

- Automatic adjustment to workpieces of various thicknesses
- Sturdy jaws and base plate made from high-quality cast iron
- The copper-plated spindle prevents welding splatter from sticking
- Precise 90°-angles

Welding clamp set SM 10



№		↔a↔				€
		mm	mm	kg	qty.	V3
SM10-SET	5°-180°	100	35	10.66	1	328,20

- Clamping aid for clamping components of different thicknesses at any chosen angle
- Sturdy body and base plate made from high-quality cast iron
- The copper-plated spindle prevents welding splatter from sticking
- Angle range: 5°-180°