

Clamping elements for welding tables

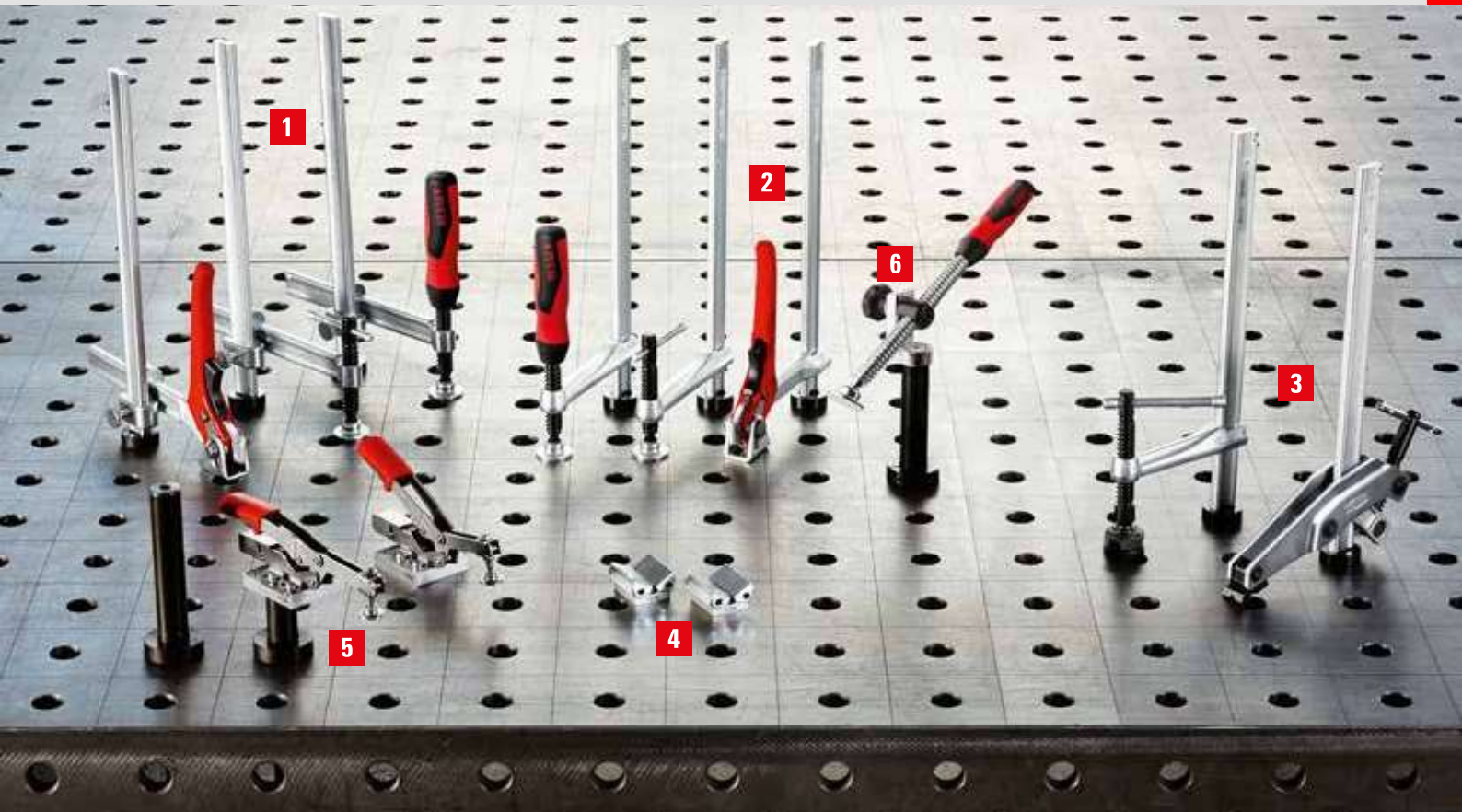
Clamping specialists promote safe welding



Bringing our experience to the table

BESSEY has now transferred its experience of clamping tools amassed over the course of many decades into the development of its new clamping elements for welding tables with 28 mm and 16 mm fastening holes. It offers a comprehensive range of practical aids, with varied uses, to facilitate your day-to-day work. With the standard clamping elements, you can choose from 3 handle designs, as well as versions with either variable or fixed throat depth. The range also contains a clamping

element with a heat-resistant special pressure plate and a gripping arm variant to enable easy access to the work area. In order to clamp oval-shaped, round and square workpieces, special table clamping attachments are available. BESSEY toggle clamps and work table clamps can also be used on welding tables thanks to special adapters, extensions and attachments. All elements can be integrated into the table without using tools, which makes them highly adaptable and enables comfortable, safe and precise operation. Try them out for yourself!



Your benefits at a glance:

1 Flexible throat depth

BESSEY TWV clamping elements for welding tables not only have infinitely adjustable throat depth, but are also available in 3 handle variants.

2 100, 120 mm or 140 mm throat depth

On BESSEY TW clamping elements, you can choose among 3 handle variants and 3 throat-depth variants.

3 Heavy-duty, custom design

The TWM28 clamping element has a heat-resistant special pressure plate with sintered steel insert, which can be pivoted up to 35°. On the TW28GRS gripping arm variant the spindle is located on the outside, which enables – among other things – free access to the work area.

4 Perfect for railings

Whether the workpiece is round, oval or square, the TWVAD Vario table clamping attachments are ideally suited; this is because they can be infinitely adjusted to the workpiece being welded, from 60° internal to 60° external.

5 Applying the quick clamp

Thanks to the TWA-STC adapter and the appropriate TWX extension, BESSEY toggle clamps with a horizontal base plate can also be rapidly applied to welding tables.

6 Diagonal and horizontal clamping

The tilting adaptor TW28AV used in conjunction with the extension TW28X allows angled or horizontal clamping in a range from -52deg. to +52deg.

Clamping elements for welding tables



- TWV16: Clamping force up to 2,500 N, TWV28: Clamping force up to 5,500 N
- Precise, individual clamping
- Tempered profile and sliding arm for sprung and elastic clamping
- Infinitely adjustable throat depth
- Various design versions:
- High quality 2-component plastic handle and tommy bar with rounded ends – each with smooth-running trapezoidal threaded spindle and tool-free pressure plate replacement
- Lever handle with an indexing mechanism for controlled, fast and vibration-proof clamping

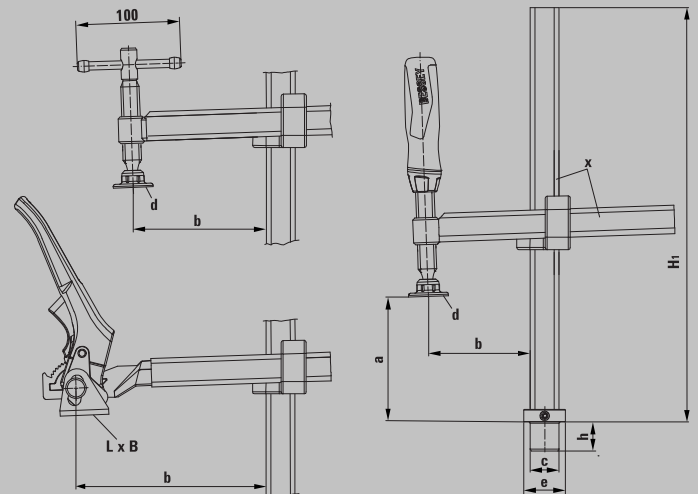


Clamping element with variable throat depth TWV



Nº	Ø	Clamping height		<x>	⚖	📦	
	mm	mm	mm	mm	kg	qty.	V3
TWV16-20-15-2K	16	200	30-150	22 x 8.5	1.12	1	
TWV16-20-15K	16	200	30-150	22 x 8.5	1.04	1	
TWV16-20-15H	16	200	60-150	22 x 8.5	1.21	1	
TWV28-30-17-2K	28	300	40-175	28 x 11	2.22	1	
TWV28-30-17K	28	300	40-175	28 x 11	2.11	1	
TWV28-30-17H	28	300	110-175	28 x 11	2.48	1	

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



Multi angle pad VAD (2 pcs./bag)



Nº	⚡	Jaw face width	⚖	📦	
		mm	kg	qty.	V3
VAD	from 60° inner to 60° outer	45	0.48	48	

see catalogue page 57

Table of dimensions

	Bolt Ø	Bolt height	Clamping height	Throat depth	Height of base	Pressure plate dimensions		Foot "F"		Rail profile
	"c"	"h"	"a"	"b"	"H1"	"L x B"	Ø "d"	Foot Ø "e"	Foot height	"x"
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TWV16-20-15-2K	16	20.5	200	30-150	265	–	32	30	10	22 x 8.5
TWV16-20-15K	16	20.5	200	30-150	265	–	32	30	10	22 x 8.5
TWV16-20-15H	16	20.5	200	60-150	265	41 x 26	–	30	10	22 x 8.5
TWV28-30-17-2K	28	28.5	300	40-175	400	–	38	40	12	28 x 11
TWV28-30-17K	28	28.5	300	40-175	400	–	38	40	12	28 x 11
TWV28-30-17H	28	28.5	300	110-175	400	47 x 31	–	40	12	28 x 11

Clamping elements for welding tables

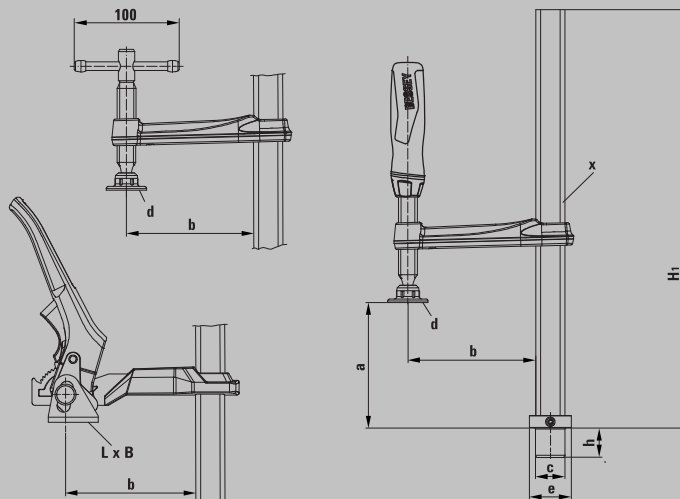


Clamping element with fixed throat depth TW



№	Ø	Clamping height	←b→	←x→	⚖	📦	V3	
							mm	mm
TW16-20-10-2K	16	200	100	22 x 8.5	0.93	1		
TW16-20-10K	16	200	100	22 x 8.5	0.86	1		
TW16-20-10H	16	200	100	22 x 8.5	1.01	1		
TW28-30-12-2K	28	300	120	28 x 11	1.68	1		
TW28-30-14-2K	28	300	140	28 x 11	1.70	1		
TW28-30-12K	28	300	120	28 x 11	1.62	1		
TW28-30-14K	28	300	140	28 x 11	1.65	1		
TW28-30-12H	28	300	120	28 x 11	2.07	1		
TW28-30-14H	28	300	140	28 x 11	2.08	1		

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



- TW16: Clamping force up to 3,000 N, TW28: Clamping force up to 5,000 N
- Precise, individual clamping
- Tempered profile and sliding arm for sprung and elastic clamping
- Various design versions:
- High quality 2-component plastic handle and tommy bar with rounded ends – each with smooth-running trapezoidal threaded spindle and tool-free pressure plate replacement
- Lever handle with an indexing mechanism for controlled, fast and vibration-proof clamping

Table of dimensions

	Bolt Ø	Bolt height	Clamping height	Throat depth	Height of base	Pressure plate dimensions		Foot "F"		Rail profile
	"c"	"h"	"a"	"b"	"H1"	"L x B"	Ø "d"	Foot Ø "e"	Foot height	"x"
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TW16-20-10-2K	16	20.5	200	100	265	–	32	30	10	22 x 8.5
TW16-20-10K	16	20.5	200	100	265	–	32	30	10	22 x 8.5
TW16-20-10H	16	20.5	200	100	265	41 x 26	–	30	10	22 x 8.5
TW28-30-12-2K	28	28.5	300	120	400	–	38	40	12	28 x 11
TW28-30-14-2K	28	28.5	300	140	400	–	38	40	12	28 x 11
TW28-30-12K	28	28.5	300	120	400	–	38	40	12	28 x 11
TW28-30-14K	28	28.5	300	140	400	–	38	40	12	28 x 11
TW28-30-12H	28	28.5	300	120	400	47 x 31	–	40	12	28 x 11
TW28-30-14H	28	28.5	300	140	400	47 x 31	–	40	12	28 x 11

Clamping elements for welding tables



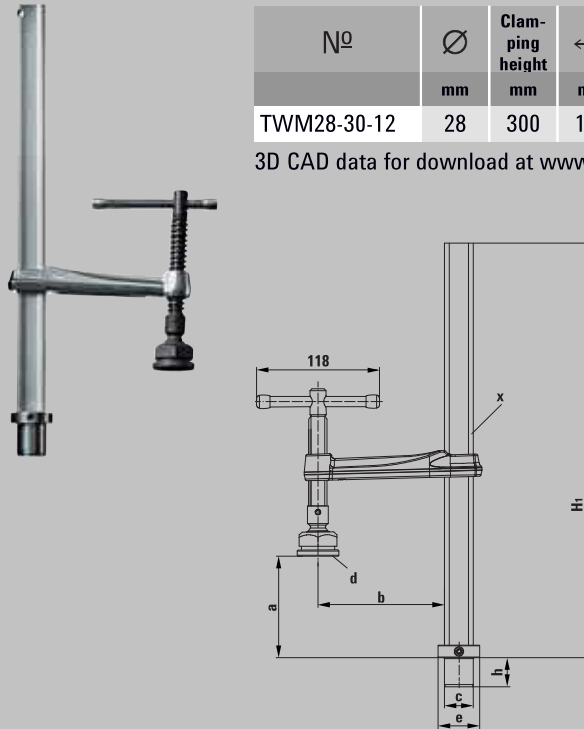
- Clamping force up to 6,500 N
- Precise, individual clamping
- Tempered profile and sliding arm for sprung and elastic clamping
- Tempered spindle – particularly sturdy and wear-resistant – for noticeably improved service life
- Long life due to heat-resistant pressure plate with sintered steel insert, which can be tilted up to 35°



Clamping element with special pressure plate TWM28

N ^o	Ø	Clamping height	←b→	←x→	⚖	📦	
	mm	mm	mm	mm	kg	qty.	V3
TWM28-30-12	28	300	120	28 x 11	1.78	1	

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



- 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



N ^o	Description	
		V3
3100736	Standard	
3101192	Serrated	
3101193	V-grooved	

Table of dimensions

	Bolt Ø	Bolt height	Clamping height	Throat depth	Height of base	Pressure plate dimensions		Foot "F"		Rail profile
	"c"	"h"	"a"	"b"	"H1"	"L x B"	Ø "d"	Foot Ø "e"	Foot height	"x"
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TWM28-30-12	28	28.5	300	120	400	-	40	40	12	28 x 11

Clamping elements for welding tables

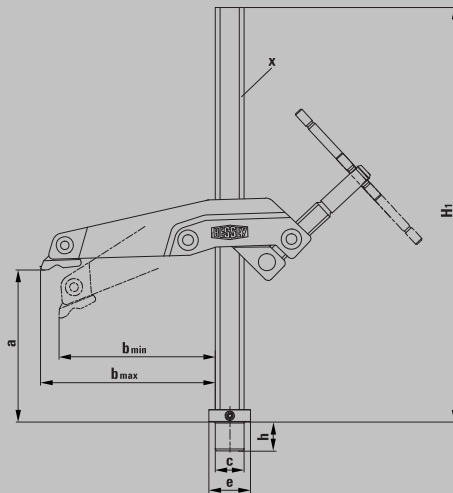


Clamping element with gripping arm TW28GRS



N ^o	∅	Clamping height	←b→	←x→	⚖	📦	
	mm	mm	mm	mm	kg	qty.	V3
TW28GRS30-12	28	300	120	28 x 11	2.26	1	

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



- Clamping force up to 5,000 N
- The spindle is located on the outside for free access to the work area and to protect against welding spatter
- Special, sturdy V-grooved pressure plate, ideal even for clamping round or square workpieces
- Pivotal and infinitely adjustable in terms of height
- Particularly suited to clamping with the tightest of space constraints, in narrow openings as well as for short projections



Vario table clamping attachment TWVAD (2 pcs./bag)



N ^o	∅	∠	Jaw face width	⚖	📦	
	mm		mm	kg	qty.	V3
TW16VAD	16	from 60° inner to 60° outer	45	0.38	1	
TW28VAD	28		45	0.57	1	
TWVAD	-		45	0.28	1	

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



- Specifically adapted to round, oval and square workpieces
- Angle infinitely adjustable from 60° internal to 60° external
- Various design versions:
 - TW16VAD/TW28VAD – version with bolt – for rapidly aligning and fixing the workpiece to the welding table
 - TWVAD – version without bolt – for variable movement on the welding table

Table of dimensions

	Bolt ∅	Bolt height	Clamping height	Throat depth	Height of base	Pressure plate dimensions	Foot "F"		Rail profile
	"c"	"h"	"a"	"b"	"H1"	"L x B"	Foot ∅ "e"	Foot height	"x"
	mm	mm	mm	mm	mm	mm	mm	mm	mm
TW28GRS30-12	28	28.5	300	123-140	400	38 x 25	40	12	28 x 11

Clamping elements for welding tables



Toggle clamp adapter TWA-STC



N ^o	∅ mm	Suitable for	mm	kg	qty.	V3
TW16A-STC	16	STC-VH STC-HH	M5	0.19	1	
TW28A-STC	28	STC-IHH	M6	0.28	1	

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



- Accessory for BESSEY STC toggle clamp with horizontal base plate
- With bolt – for use directly on the welding table
- Without bolt – for screwing to the extension TWX



Extension TWX



N ^o	∅ mm	Suitable for	Adjusting range mm	kg	qty.	V3
TW16X	16	TW16A-STC TW16VAD TWWAD	15-200	0.41	1	
TW28X	28	TW28A-STC TW28VAD TWWAD TW28AV	15-300	1.76	1	

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



- Accessory for BESSEY toggle clamp adapter TWA-STC, TWVAD and TW28AV
- Lowering of round workpieces is infinitely adjustable using the adjusting ring in the table