BESSEY RANGE GUIDE

Welding Clamps & Table Clamps

Workholding for fabrication, fit-up and welding tables.



Find the Right Clamp

Choose by the job and the space around the weld. For table-mounted clamps, match the bolt to the table bore before choosing the handle and reach.

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General and heavy-duty fabrication	classiX GS-K and GSM	02
Fast clamping and section clearance	GZ-K, GH and U-clamps	03
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Browse R H Davey metalworking clamps

FABRICATION CLAMPS

classiX Fabrication Clamps

Use the opening to check what fits between the jaws and the throat depth to check how far the pad reaches in from the rail.



classiX GS-K All-Steel Screw Clamps

Tommy-bar F-clamp for fitting, tack-up and general fabrication. Clamping force up to 5,000 N across the series.

BESSEY model	Opening (mm)	Throat (mm)	R H Davey code
GS16K	160	80	BE104770
GS20K	200	100	BE104774
GS25K	250	120	Enquire
GS30K	300	140	BE104783
GS40K	400	120	BE104787
GS50K	500	120	BE104791
GS60K	600	120	BE104794
GS80K	800	120	Enquire
GS100K	1000	120	BE104802

BESSEY technical details



classiX GSM High-Performance Clamps

For heavier assemblies. The heat-resistant pressure plate tilts up to 35°. Rated up to 11,000 N at 40 Nm.

BESSEY model	Opening (mm)	Throat (mm)	R H Davey code
GSM25	250	140	BE104812
GSM30	300	140	BE104816
GSM40	400	140	Enquire
GSM50	500	140	Enquire
GSM60	600	140	BE104828

BESSEY technical details

Ordering classiX Clamps

Quote the R H Davey code where shown, or give us the BESSEY model. Dimensions in this guide follow BESSEY's catalogue.

Browse R H Davey metalworking clamps

FABRICATION CLAMPS

Screw, Lever & U-Clamps

Choose a screw clamp for controlled tightening, a lever for repeated setups, or a U-frame when a flange obstructs the clamp.



GZ-K All-Steel Screw Clamps

A forged all-steel F-clamp with tommy bar and a pressure plate that can be replaced by hand. Series maximum 6,000 N.

BESSEY model	Opening (mm)	Throat (mm)
GZ20K	200	100
GZ30K	300	140
GZ60K	600	120

BESSEY technical details



GH Lever Clamps

For repeated fit-up where a lever gives faster engagement and release. The ratchet resists loosening under vibration. Series maximum 8,500 N.

BESSEY model	Opening (mm)	Throat (mm)
GH20	200	100
GH30	300	140
GH60	600	120

BESSEY technical details



GUZ & SGU U-Clamps

The stepped frame reaches over flanges or raised sections. GUZ is rated up to 4,000 N and SGU up to 12,000 N at 40 Nm.

BESSEY model	Opening (mm)	Throat (mm)
GU25-12-6ZK	250	120
SGU30-14-10	300	140

BESSEY technical details

FABRICATION CLAMPS

Angle Clamps & Grip Pliers

Hold corners, mitres and pipe during fit-up and tack welding. Choose by workpiece shape, jaw capacity and access to the joint.



WSM 90° Welders' Angle Clamps

Hold sections at a right angle, including pieces of different thicknesses. The copper-plated spindle helps resist spatter adhesion.

BESSEY model	Opening (mm)	Jaw width (mm)
WSM9	2 × 90	110
WSM12	2 × 120	120

BESSEY technical details



SM 10 Adjustable Angle Set

For joints that need an angle other than 90°. The set clamps components of different thicknesses from 5° to 180°.

BESSEY model	Angle range	Opening (mm)
SM10-SET	5°–180°	100

BESSEY technical details



GRZ Grip Pliers

GRZ gives parallel grip, GRZC steps over obstructions, and GRZRO grips constant-diameter pipe. Photo shows GRZRO.

BESSEY model	Grip type	Capacity (mm)
GRZ10	Parallel	100 opening
GRZ20	Parallel	200 opening
GRZC	C-grip	110 opening
GRZRO	Pipe grip	Ø up to 110

BESSEY technical details

SYSTEM 16

16 mm Welding Table Clamps

Both families fit a 16 mm table bore and give a 200 mm clamping height. Choose a fixed reach for repeat setups or adjust the throat to suit the job.



TW series shown

TW16 Fixed-Throat Clamps

The 100 mm reach is set by the clamp. Useful where a fixture repeats and the pressure point stays in the same position. Up to 3,000 N.

BESSEY model	Height (mm)	Throat (mm)	Handle
TW16-20-10-2K	200	100	2K grip
TW16-20-10K	200	100	Tommy bar
TW16-20-10H	200	100	Lever

BESSEY technical details



TWV series shown

TWV16 Variable-Throat Clamps

Slide the arm to change reach without moving to another table bore. Lever versions have a different minimum throat. Up to 2,500 N.

BESSEY model	Height (mm)	Throat (mm)	Handle
TWV16-20-15-2K	200	30–150	2K grip
TWV16-20-15K	200	30–150	Tommy bar
TWV16-20-15H	200	60–150	Lever

BESSEY technical details

Choose the Handle

2K is a two-component screw grip. **K** uses a tommy bar. **H** uses an indexed lever for quick clamping and release.

BESSEY welding table leaflet

SYSTEM 28

28 mm Welding Table Clamps

Both families fit a 28 mm table bore and give a 300 mm clamping height. Check the minimum throat as well as the maximum before ordering.



TW28 Fixed-Throat Clamps

Choose 120 or 140 mm reach to suit the distance between the table bore and the pressure point. Up to 5,000 N.

BESSEY model	Height (mm)	Throat (mm)	Handle
TW28-30-12-2K	300	120	2K grip
TW28-30-14-2K	300	140	2K grip
TW28-30-12K	300	120	Tommy bar
TW28-30-14K	300	140	Tommy bar
TW28-30-12H	300	120	Lever
TW28-30-14H	300	140	Lever

BESSEY technical details



TWV28 Variable-Throat Clamps

For fixtures where the pressure point moves between jobs. The screw versions reach closer to the rail than the lever version. Up to 5,500 N.

BESSEY model	Height (mm)	Throat (mm)	Handle
TWV28-30-17-2K	300	40–175	2K grip
TWV28-30-17K	300	40–175	Tommy bar
TWV28-30-17H	300	110–175	Lever

BESSEY technical details

Check Clearance Around the Joint

Allow space for the spindle or lever to move and for the torch to reach the seam. For a narrow opening, see the gripping-arm clamp on page 7.

BESSEY table clamp drawings and CAD

SYSTEM 28 AND SYSTEM 22

Specialist Table Clamps

Choose a tilting pad or an outboard spindle for difficult fit-ups. The separate 22 mm option is listed here by bore size.



TWM28 Tilting Pressure Plate

The heat-resistant pad tilts up to 35° to seat on angled work. The sintered-steel insert and tempered spindle suit demanding clamping. Up to 6,500 N.

BESSEY model	Height (mm)	Throat (mm)
TWM28-30-12	300	120

BESSEY technical details



TW28GRS Gripping-Arm Clamp

The outside spindle leaves room at the joint. The V-grooved pad holds round or square stock in narrow spaces. Up to 5,000 N.

BESSEY model	Height (mm)	Bore (mm)
TW28GRS30-12	300	28

BESSEY technical details



TW series shown

TW22 Fixed-Throat Clamp

For 22 mm bores on compatible Barth and Beck lift tables. Two-component screw grip and 100 mm fixed reach. Up to 3,000 N.

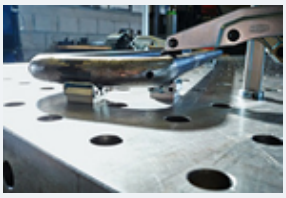
BESSEY model	Height (mm)	Throat (mm)
TW22-20-10-2K	200	100

BESSEY technical details

WELDING TABLE ACCESSORIES

Table Accessories & Ordering

Locate awkward sections, mount a compatible toggle clamp or position the pressure point further from the table bore.



Vario support pads



Toggle clamp mounting



Tilting adapter with extension

BESSEY model	Table bore	Use / compatibility
TW16VAD	16 mm	Adjustable support pads for round or angled stock, pair
TW28VAD	28 mm	Adjustable support pads for round or angled stock, pair
TWVAD	Unpinned	Adjustable support pads for free positioning, pair
TW16A-STC	16 mm	Adapter for STC toggle clamp with horizontal base plate
TW28A-STC	28 mm	Adapter for STC toggle clamp with horizontal base plate
TW16X	16 mm	Extension for compatible adapters, 15–200 mm adjustment
TW28X	28 mm	Extension for compatible adapters, 15–300 mm adjustment
TW28AV	Via TW28X	Tilting clamp adapter with ±52° adjustment

BESSEY accessory details BESSEY catalogue

What to Quote

Send the model or part number and the quantity required. For a table clamp, include the bore diameter, the clamping height and the reach you need.

Ask Us to Match Your Setup

A photo or sketch of the joint helps us check clearance around the weld and choose the right handle and pad.

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