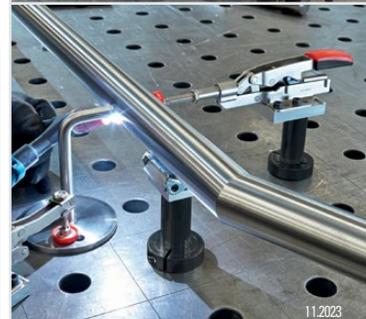


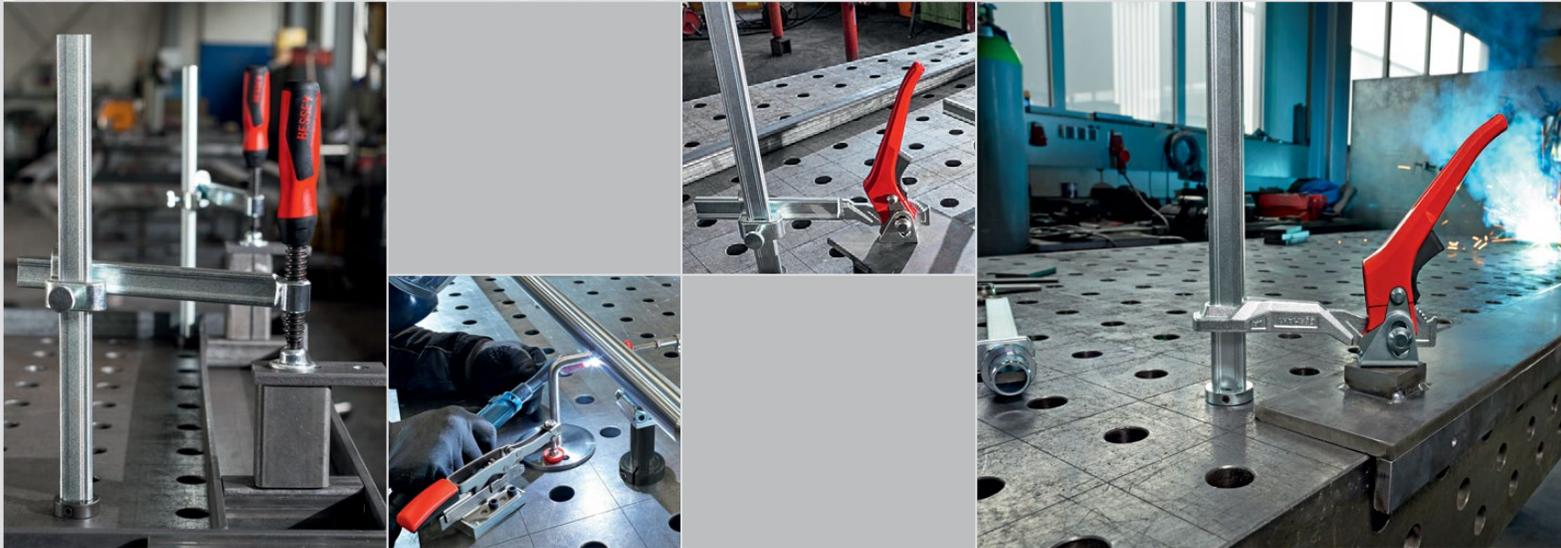
BESSEY Solutions

Machine Tool 2023-2024



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Bringing our experience to the table

Clamping elements for welding tables with 28 mm or 16 mm matrix holes. Choose from 3 handle designs for standard elements, plus variable or fixed throat depth versions. Our line-up also includes a clamping element with heat-resistant pressure plate, a gripping arm variant for easy work area access, and attachments for clamping oval, round and square workpieces.

BESSEY® toggle clamps and work table clamps can be used on welding tables thanks to special adapters, extensions and attachments. All elements can integrate into the table without using tools, making them highly adaptable with comfortable, safe and precise operation. Try them for yourself!

1 Flexible throat depth

The BESSEY® TWV series has a range of throat depths from 1 3/8" up to 6 7/8" and is available in 3 handle variants.

2 Fixed throat depth

TW series has a range of throat depths from 4" up to 5 1/2" and is available in 3 handle variants.

3 Heavy-duty, custom design

TWM28 with heat-resistant special pressure plate and sintered steel insert, can pivot up to 35°. TW28GRS gripping arm features a spindle located outside the work area.

4 Flexible accessories

TW28VAD vario table clamping attachment is ideal for irregularly shaped workpieces. They are infinitely adjustable to the workpiece being welded, from 60° internal to 60° external.

5 Accessories for BESSEY's Toggle Clamp

The TW28A-STC adapter and TWX extension allow BESSEY® toggle clamps with horizontal base plates to be used on welding tables.

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Welding Table Clamp Variable Throat Depth

- TWV Series
- 28mm and 16mm offerings
- Precise clamping with easy height adjustment and variable throat depth
- Patented rail profile for enhanced strength
- Drop forged sliding arm for strong, dependable clamping
- Choice of three handle variants



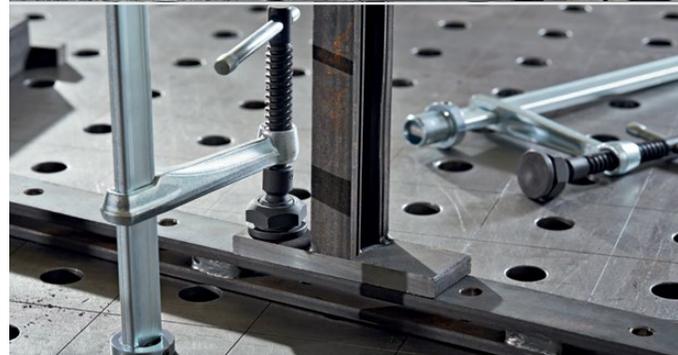
Welding Table Clamp Fixed Throat Depth

- TW Series
- 28mm and 16mm offerings
- Precise clamping with easy height adjustment and fixed throat depth
- Patented rail profile for enhanced strength
- Drop forged sliding arm for strong, dependable clamping
- Choice of three handle variants



Welding Table Clamp, Special Pressure Plate, TWM28

- Precise, individual clamping
- Tempered profiled rail and drop forged sliding arm for strength where it is most needed
- Long life due to heat-resistant pressure plate with sintered steel insert, which can be tilted up to 35°
- Patented rail profile for enhanced strength
- Drop forged sliding arm for strong, dependable clamping



Welding Table Clamp, TW28GRS

- Spindle located on the outside for access to the work area and to protect against welding spatter
- Special, sturdy V-grooved pressure plate, for round or square workpieces
- Pivotal and infinitely adjustable in terms of height
- For the tightest of spaces, narrow openings and short projections



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Welding table clamp accessories, TWVAD

- Specifically adapted to round, oval and square workpieces
- Angle infinitely adjustable from 60° internal to 60° external
- TW16VAD / TW28VAD versions with bolt for rapidly aligning and fixing the workpiece to the welding table
- TWVAD without bolt for variable movement on the welding table – 2 pieces per bag



Welding table toggle clamp adapter, TW-STC

- 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



Hold down clamp, BSG21-14

- Vibration proof, ratchet action for rapid clamping
- Pressure pad self-adjusts on the workpiece
- Drop forged steel clamping arm
- Mounting hole accepts 5/8" bolts
- BESSEY MorPad



Jig and fixture clamp, FC24-8

- Full rotation of 360° for easy work-piece removal
- Pressure pad self-adjusts on the workpiece
- Drop forged steel clamping arm
- Bushing O/D is 13/16" and fits a table thickness of 1/2" to 1 1/2"
- BESSEY MorPad



BESSEY® clamp service part, MorPads

- Long life due to heat-resistant pressure plate
- Sintered steel insert, can tilt up to 35°
- Three design versions:
 - smooth face (standard version);
 - rough face for secure clamping on dirty surfaces;
 - V-groove face for round, oval and edged workpieces.

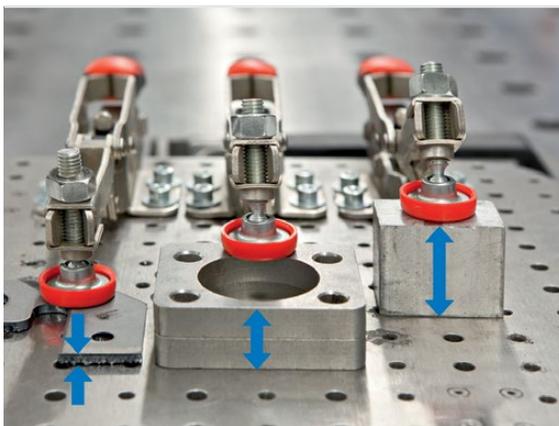


Ball-in-socket technology for greatly extended clamp life and, at full pressure... by BESSEY®. Patented.



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Auto-adjust toggle clamps for rapid clamping

One BESSEY® Auto-Adjust Toggle Clamp replaces a range of competitive clamps for quicker setups, smaller tool cribs and consolidated inventories.

- 1 Auto-adjustment of the jaw height**
The BESSEY® Auto-Adjust Toggle Clamp self adjusts to variations in workpiece height while maintaining clamping force.
- 2 Adjustable clamping force**
The integrated clamping force adjustment screw can vary the applied clamping force in a range.
- 3 Adaptable base plate**
Holes are sized and spaced for easy mounting and flexibility in metric and imperial.
- 4 Large ergonomic handle**
Soft insets for maximum comfort.

Check out **STC** in action!

Please reference our YouTube videos showing BESSEY products in action at [youtube.com/user/BesseyTools](https://www.youtube.com/user/BesseyTools)

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- Automatic and infinitely variable adjustment of the clamping height while clamping force remains unchanged – without having to make manual changes to the position of the pressure screws
- Adjustable clamping force based on the adjusting screw in the joint
- Base plate hole pattern suitable for millimetres and inches

Vertical toggle clamp with open arm STC-VH

	Opening	Nominal Clamping Force	Holding Capacity	Approx. Weight	Fastener
STC-VH20	1 ³ / ₁₆ "	25 - 250 lbs.*	450 lbs.	0.44 lbs.	3/16" or M5
STC-VH50	1 ⁹ / ₁₆ "	25 - 550 lbs.*	700 lbs.	0.77 lbs.	1/4" or M6



STC-VH

Horizontal toggle clamp with open arm STC-HH / STC-HV / STC-HA

- High-quality oil-resistant two-component plastic handle with slip protection

	Opening	Nominal Clamping Force	Holding Capacity	Approx. Weight	Fastener
with horizontal base plate					
STC-HH20	1 ³ / ₁₆ "	25 - 250 lbs.*	450 lbs.	0.44 lbs.	3/16" or M5
STC-HH50	1 ⁹ / ₁₆ "	25 - 550 lbs.*	700 lbs.	0.77 lbs.	1/4" or M6
STC-HH70	2 ³ / ₈ "	25 - 550 lbs.*	700 lbs.	0.86 lbs.	1/4" or M6



STC-HH

with vertical base plate

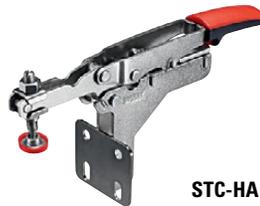
STC-HV20	1 ³ / ₁₆ "	25 - 250 lbs.*	450 lbs.	0.55 lbs.	3/16" or M5
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STC-HV

with angled base plate

STC-HA20	1 ³ / ₁₆ "	25 - 250 lbs.*	450 lbs.	0.52 lbs.	3/16" or M5
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STC-HA

Push/pull clamp STC-IHH / STC-IHA

- High-quality oil-resistant two-component plastic handle with slip protection

with horizontal base plate

STC-IHH15	3/8"	25 - 250 lbs.*	450 lbs.	0.52 lbs.	3/16" or M5
STC-IHH25	5/8"	25 - 550 lbs.*	700 lbs.	0.86 lbs.	1/4" or M6



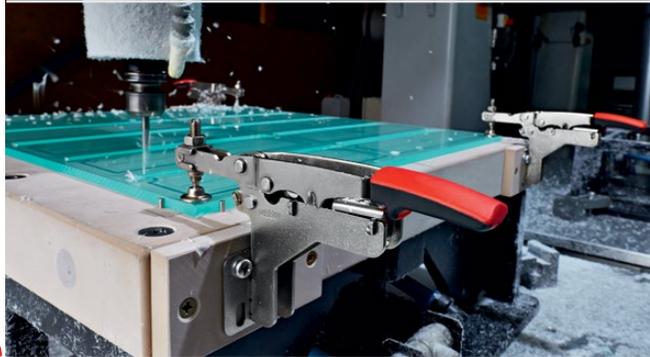
STC-IHH

with angled base plate

STC-IHA15	3/8"	25 - 250 lbs.*	450 lbs.	0.55 lbs.	3/16" or M5
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STC-IHA



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RiteHite Hold Down Products

- A quick and easy set-up, ready for your T-slot table. A value-priced hold down alternative with the great BESSEY® quality you expect.
- Single component design – Self-positioning, single component design for a quick set-up.
- Workpieces of different thicknesses – Wide clamping range. Adjustments up to 5".
- T-slot table ready, for T-slot hold down tables in machine shop applications.
- Sturdy frame – Strong, ductile iron body, strength.
- Swivel rocker attached to body allows the clamp to self-align on the work piece.



RiteHite Long Reach, Model L

- L series for a longer throw
- BESSEY RiteHite holds your workpiece in place with the simple self-positioning, single component design.
- Made of strong, ductile iron.
- For use on a T-slot hold down table in a machine shop.
- With a swivel rocker attached to the body to prevent loss.



	Bolt Size	Max Clamping Height	Nominal Dimensions	Clamping Force	Max Torque	Approx. Weight
375L	3/8"	1 1/4"	3 3/4 x 1 1/8 x 1 1/4	7,000 lbs	43 LB-FT	0.50 lbs
500L	1/2"	2 1/2"	5 3/4 x 1 7/16 x 1 1/2	8,800 lbs	73 LB-FT	1.39 lbs
625L	5/8"	3 1/2"	6 3/4 x 1 3/4 x 1 5/8	14,500 lbs	163 LB-FT	2.33 lbs
750L	3/4"	5"	9 x 2 1/8 x 2 1/4	19,000 lbs	237 LB-FT	4.96 lbs
1000L	1"	5"	11 1/8 x 2 7/8 x 3 3/8	51,000 lbs	850 LB-FT	12.80 lbs

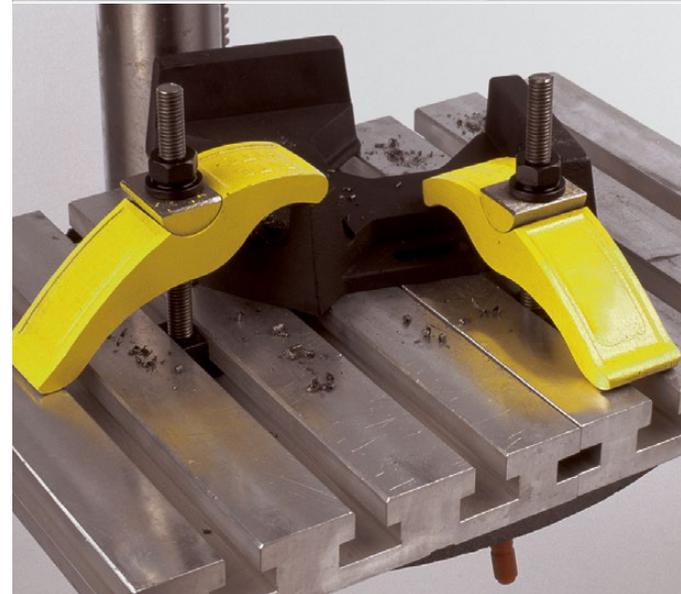


RiteHite Standard Reach, Model S

- S series is slightly smaller than the L series.
- Strength you can depend on.



	Bolt Size	Max Clamping Height	Nominal Dimensions	Clamping Force	Max Torque	Approx. Weight
375S	3/8"	1"	3 x 1 1/8 x 1 1/4	8,800 lbs	55 LB-FT	0.43 lbs
501S	1/2"	1 3/4"	4 1/4 x 1 7/16 x 1 1/2	13,200 lbs	110 LB-FT	1.04 lbs
626S	5/8"	2 3/4"	5 1/2 x 1 3/4 x 1 5/8	19,000 lbs	213 LB-FT	2.10 lbs
751S	3/4"	3 1/2"	7 x 2 1/8 x 2 1/4	27,600 lbs	345 LB-FT	4.00 lbs
1001S	1"	3"	9 x 2 7/8 x 3 3/8	67,000 lbs	1,116 LB-FT	10.00 lbs



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Double force all steel clamps (SLV/GSV)

- Modular design for the widest range of applications
- Clamping force up to 2000 lbs
- Rail lengths from 39 1/2" to 118"



All steel lever clamps

- Quick – up to 5 times faster than regular clamps
- Secure – unaffected by vibrations
- Strong – high clamping force, up to 1800 lbs
- Non-slip trigger release



High performance clamps

- Patented profile rail
- Long lasting MorPad
- Clamping force range from 1980-8500 lbs

Industrial magnets

MagWand magnet (MW)

- Collect up to 12 lbs of swarf per pass
- Easily rolls over industrial work surfaces
- Simply dump waste off magnetic insert

MagSweep (MSP)

- Rolling shop-floor magnet for quick & easy clean up.



Further tools from the complete BESSEY range

Angle clamps (WSM)

- For joining two pieces of metal at an exact 90 degree angle
- WSM does the work – you weld
- Even pieces of different thickness are no match for this clamp.



classiX® all-steel bar clamps

- Cost effective offering that embodies the stringent quality requirements of BESSEY®
- Range of options: variety of throat depths, pad/swivel styles and clamping capacities for real-world applications
- German engineering – great prices and quality
- Standard & heavy duty pads are field replaceable



Heavy duty bench vise

- Guaranteed unbreakable*!
- 90,000 Psi drop forged alloy steel construction
- Perfect parallel jaw design
- Precision ground, induction hardened jaws & anvil
- 360° Rotation drop forged alloy steel swivel base.



Portable induction bearing heaters

- Digital temperature and time control
- High performance fast heating with lower energy use
- Vertical or horizontal heating
- Standard cross bars.



Cone style bearing heaters

- Non-induction
- Small, portable, easy to use!
- Cost effective – includes control box
- NCB version does not have controls.



Premium all-steel bar clamps

- Patented rail profile
- BESSEY MorPad
- Hardened spindle for high load capacity
- Size engineered T-Bar
- Drop forged sliding arm



* Guaranteed against breakage in normal use. Conditions apply.