

Self-adjusting toggle clamps



Simply better.

A range of applied force and height in one clamp: the power to be in position fast

Workpieces of differing heights can be clamped quickly and securely – perfect for large and small-scale production situations. Performance flexibility offers advantages beyond traditional toggle clamps: safer operation, more consistent applied force and more flexible toolcribs.

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

Integrated clamping force adjustment screw can vary the applied clamping force in a range.

3 Adaptable base plate:

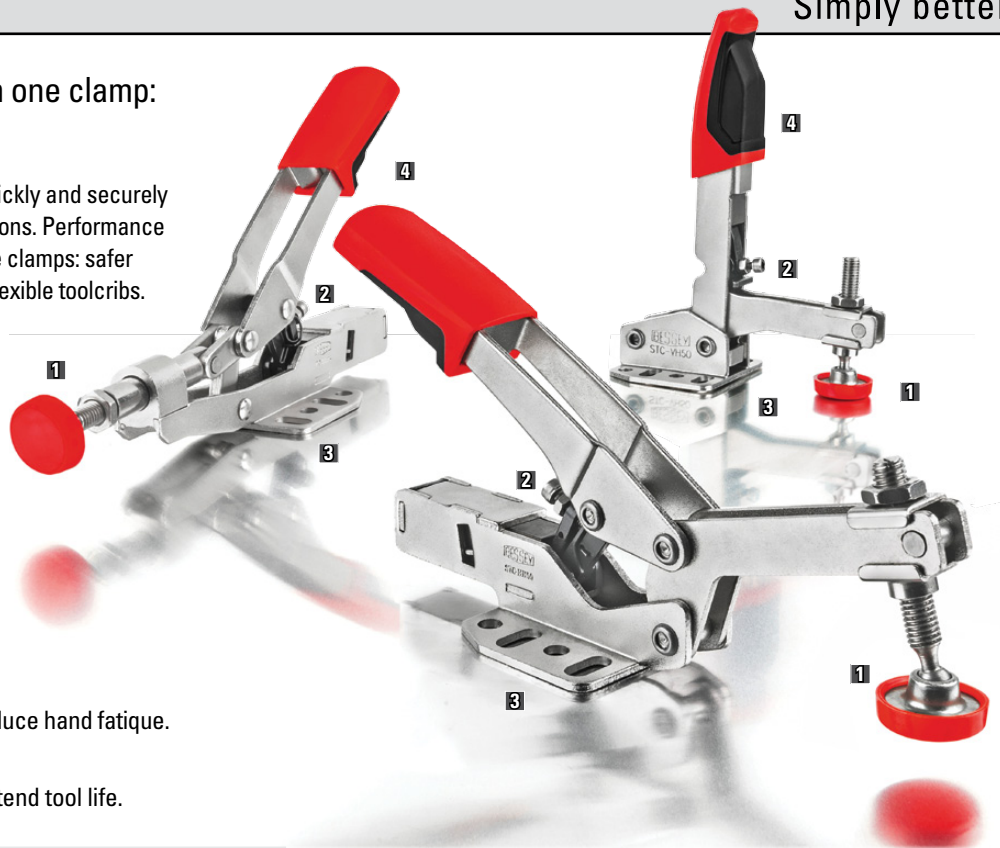
Holes are sized and spaced for easy mounting and flexibility in metric and imperial.

4 Large ergonomic handle

Large, heat resistant handles with soft insets reduce hand fatigue.

5 Corrosion resistance

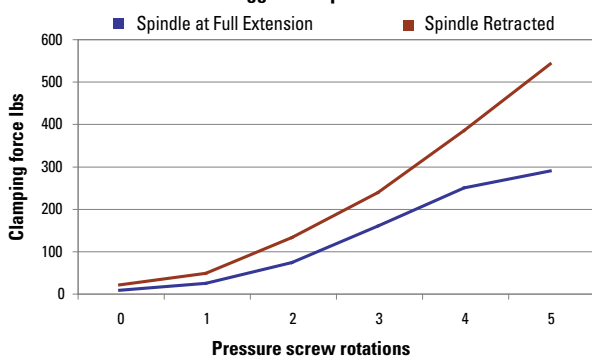
Nickel plated coatings inhibit corrosion and extend tool life.



BESSEY® Auto-Adjust Toggle Clamps have changed the way toggle clamps are constructed with variable range clamping force and the ability to auto-adjust to variations in workpiece height while maintaining constant clamping force. Now workpieces of differing heights can be clamped quickly and securely – perfect for large and small-scale production situations. Performance flexibility offers advantages beyond traditional toggle clamps: safer operation, more consistent applied force and more flexible toolcribs.



BESSEY® Toggle Clamp Force Generation



Clamping height: 30mm. Pressure screw set initially to lowest clamp force (0) then 1 full rotation for each measurement point.

* Variable and dependent on spindle settings, pressure screw setting, force applied etc. Some small spindle adjustments may be required to achieve maximum clamping opening.

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Simply better.

- 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
- Sturdy, tempered metal sheets for a long service life
- Base plate hole pattern suitable for millimetres and inches

Vertical toggle with open arm and horizontal base plate

	Clamping Capacity	Automatic Adjust	Nominal Clamping Force Range	Holding Capacity	Approx. Weight	Fastener
STC-VH20	13/16"	3/4"	25 - 250 lbs.*	450 lbs.	0.44 lbs.	3/16" or M5
STC-VH50	1 9/16"	1 3/8"	25 - 550 lbs.*	700 lbs.	0.94 lbs.	1/4" or M6
3101627	STC-VH20 Spindle service part set					
3101589	STC-VH50 Spindle service part set					



STC-VH

Horizontal toggle with open arm

with horizontal base plate

	Clamping Capacity	Automatic Adjust	Nominal Clamping Force Range	Holding Capacity	Approx. Weight	Fastener
STC-HH20	13/16"	3/4"	25 - 250 lbs.*	450 lbs.	0.43 lbs.	3/16" or M5
STC-HH50	1 9/16"	1 3/8"	25 - 550 lbs.*	700 lbs.	0.81 lbs.	1/4" or M6
STC-HH70	2 3/8"	1 3/8"	25 - 550 lbs.*	700 lbs.	1.00 lbs.	1/4" or M6
3101627	STC-HH20 Spindle service part set					
3101589	STC-HH50 Spindle service part set					
3101588	STC-HH70 Spindle service part set					



STC-HH



STC-HV

with vertical base plate

	Clamping Capacity	Automatic Adjust	Nominal Clamping Force Range	Holding Capacity	Approx. Weight	Fastener
STC-HV20	13/16"	3/4"	25 - 250 lbs.*	450 lbs.	0.45 lbs.	3/16" or M5
3101627	STC-HV20 Spindle service part set					

with angled base plate

	Clamping Capacity	Automatic Adjust	Nominal Clamping Force Range	Holding Capacity	Approx. Weight	Fastener
STC-HA20	13/16"	3/4"	25 - 250 lbs.*	450 lbs.	0.48 lbs.	3/16" or M5
3101627	STC-HA20 Spindle service part set					



STC-HA

Inline toggle

with flanged base plate

	Clamping Capacity	Automatic Adjust	Nominal Clamping Force Range	Holding Capacity	Approx. Weight	Fastener
STC-IHH15	3/8"	5/16"	25 - 250 lbs.*	450 lbs.	0.41 lbs.	3/16" or M5
STC-IHH25	5/8"	1/2"	25 - 250 lbs.*	700 lbs.	0.88 lbs.	1/4" or M6
3101627	STC-IHH15 Spindle service part set					
3101589	STC-IHH25 Spindle service part set					



STC-IHH

with angled base plate

	Clamping Capacity	Automatic Adjust	Nominal Clamping Force Range	Holding Capacity	Approx. Weight	Fastener
STC-IHA15	3/8"	5/16"	25 - 250 lbs.*	450 lbs.	0.48 lbs.	3/16" or M5
3101627	STC-IHA15 Spindle service part set					



STC-IHA

