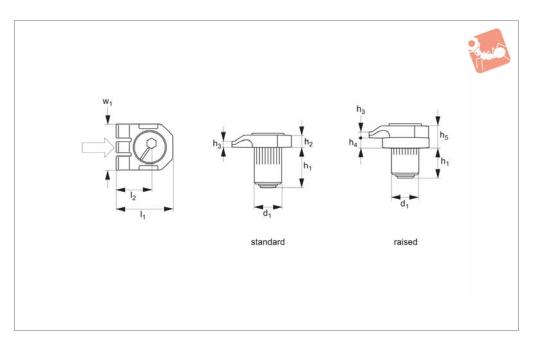


Mini Finger Clamps up to 4000 N







10940

Material

Spring steel.

Technical Notes

Simple, very heavy-duty, low profile clamping. A quarter turn of the clamping screw generates up to 4000 N clamping force.

They have a swivel facility to allow clamping in any direction.

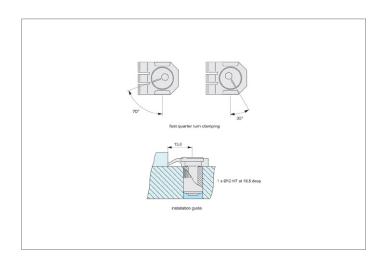
Tips

The clamps have unique "fingers" that push the workpiece down before clamping - even on castings with a negative draft.

Important Notes

These clamps achieve a positive downforce on both faces of the workpiece when used in conjunction with fixed stop, part nos. 10900 or 10920.

	Order No.	Type	Clamp height	Clamp stroke	h ₁	h ₂	h ₃	h ₄	h ₅	l ₁	l ₂	W_1	d_1	Nm	Clamping force kN
														max.	max.
	10940.W0210	Standard	2.5	1.2	18	5	2.5	-	-	25	15	20	12	9	4
	10940.W0215	Raised	7.5	1.2	18	-	2.5	5	10	25	15	20	12	9	4





Mini Finger Clamps Application

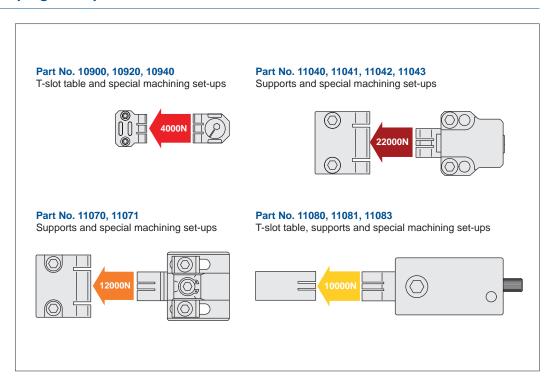


Application

LOW PROFILE SIDE CLAMPING



Unique Horizontal Clamping Set-Ups

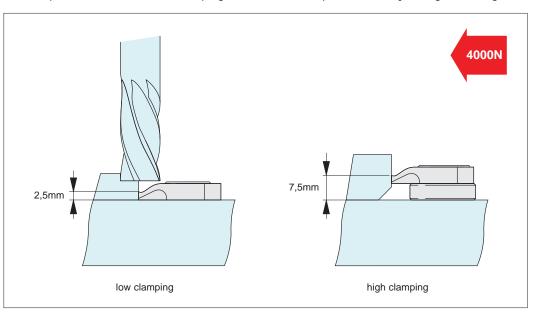


Mini Finger Clamps

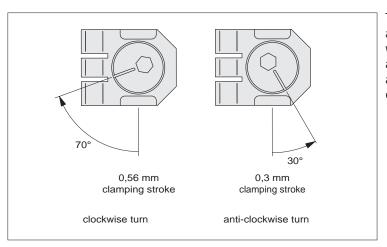
10900 - 10940 Clamping & Height Setting

one of the most powerful clamps for its size

Mini finger clamps operate using our unique "three finger" clamping action – providing unmatched levels of pull down force and side clamping, for maximum component stability during machining.

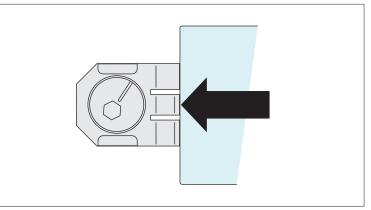


With a height of less than 6mm and a length of just 20mm mini finger clamps are ideal for multi-component clamping, while maximising access of the tooling. The clamp body is made from spring steel and the eccentric and screw from heat-treated steel. For quick, precise and high clamping forces up to 4000 Newtons.



The finger clamps pivot around an eccentric axis, with clamping via either a right (30°) or left (70°) actuation of the eccentric screw.

Actuation



Mini finger clamps can position as well as clamp the workpiece – putting pressure against the stops and pulling the workpiece onto the reference surface in one motion.

Often just a single mini clamp can achieve workpiece positioning and clamping against its stops.

Clamping



ov-W10920-A-T-W10940-A-T-a-rnh - Updated - 20-10-2022

Unique Horizontal Clamping



Unique Action - "three finger" Clamping

Pull down AND clamp with the highest of clamping forces from 0,4 tons to 2,2 tons!

Clamping &

Height Setting

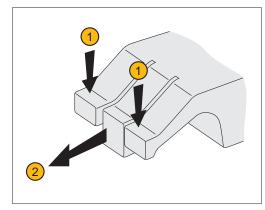
Used in our clamping series:

10900, 10940, 10880, 10920, 11040, 11041, 11042, 11043, 11070, 11071, 11080, 11081, 11082, 11083

Our horizontal clamps have a unique "three finger" arrangement ensuring components are both pulled down and clamped in the same motion. The face of the clamp is made of three parts or "fingers":

- Two outer flexible fingers (1); for pulling down the component to the work table.
- One solid central finger (2), to provide direct clamping action.

Available in two styles – smooth and serrated face. They can also cater for workpieces with an adverse angle on the clamping face – for example flame cut steel blanks.

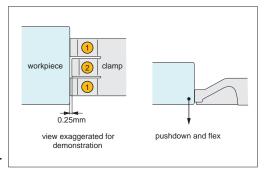


Clamping Action

Contact

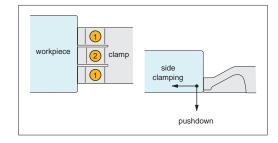
The clamps outer flexible fingers (1) are approx. 0,25mm longer than the solid central finger/ clamping stop (2), this slight difference in length means it is the flexible fingers which first come into contact with the workpiece.

As initial contact is made with the work-piece the flexible fingers (1) apply downward pressure forcing the workpiece down against the work table, the flexible fingers are compressed until they are the same length as the solid central finger/clamping stop (2)



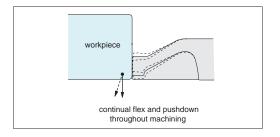
Clamping

As the solid central finger/clamping stop (2) comes into contact with the work-piece it applies high side clamping pressure to achieve clamping forces up to 2,2 tons (dependent upon clamping model selected).



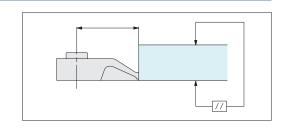
Machining

During machining the uniquely designed flexible fingers (1) continue to flex and twist applying downward pressure to keep the workpiece flat to the work table throughout.



Precision Positioning

The unique clamping action achieves precision positioning of workpieces ensuring the workpiece remains parallel to the reference surface.







Horizontal Clamping up to 2.2 tons

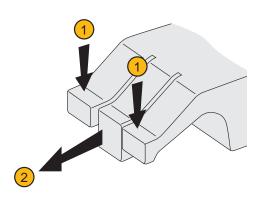


Unique Action - "three finger" Clamping

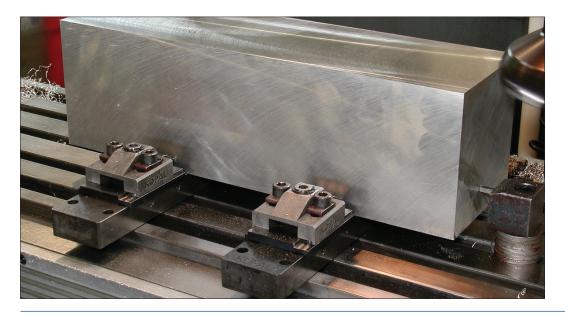
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- Two outer flexible fingers 1; for pulling down the component to the work table.
- One solid central finger 2, to provide direct clamping action.

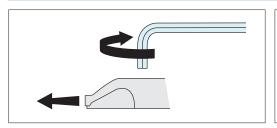
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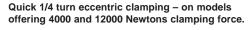


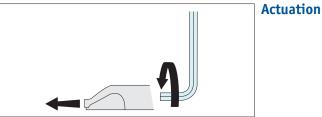




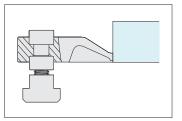
Options



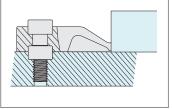




Rear screw clamping – on models offering 6500, 10000 and 22000 Newtons clamping force.



T-Slotted tables



0333 207 4497

Dedicated fixturing

