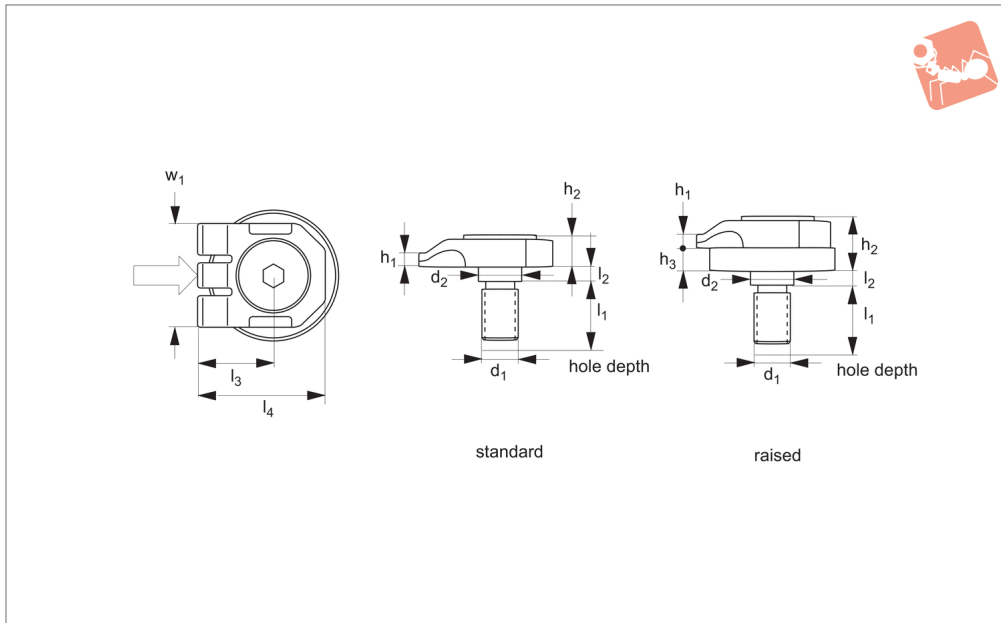




Mini Finger Clamp Swivel Stops

single point - for 10940

Low Profile Side
Clamping



10920

LOW PROFILE SIDE CLAMPING

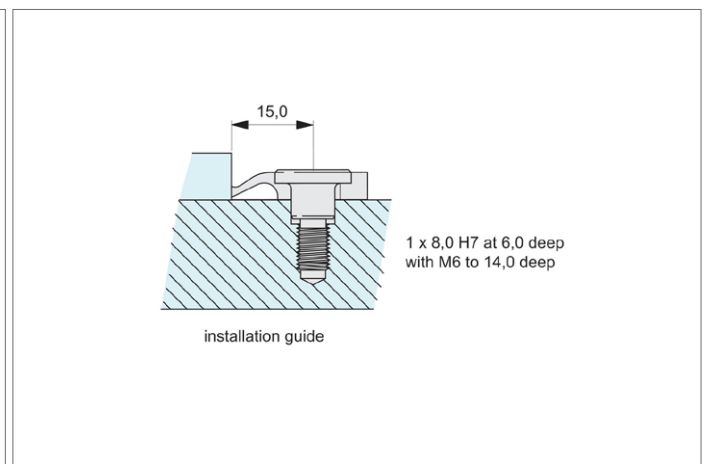
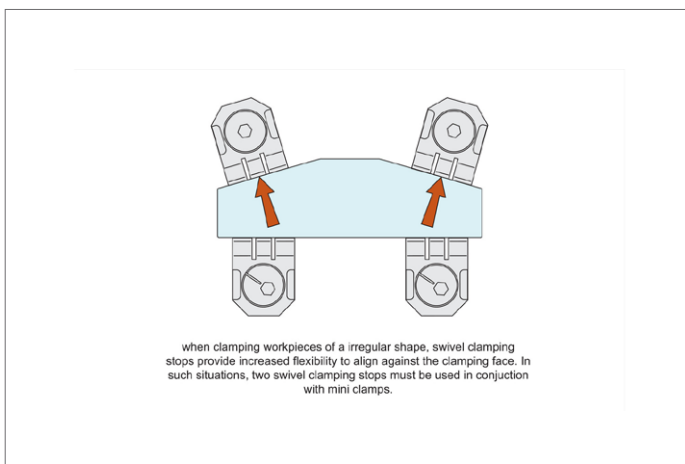
Material
Spring steel.

allowing the precise location and re-positioning of parts.

Technical Notes
Fixed in place with special locking screws

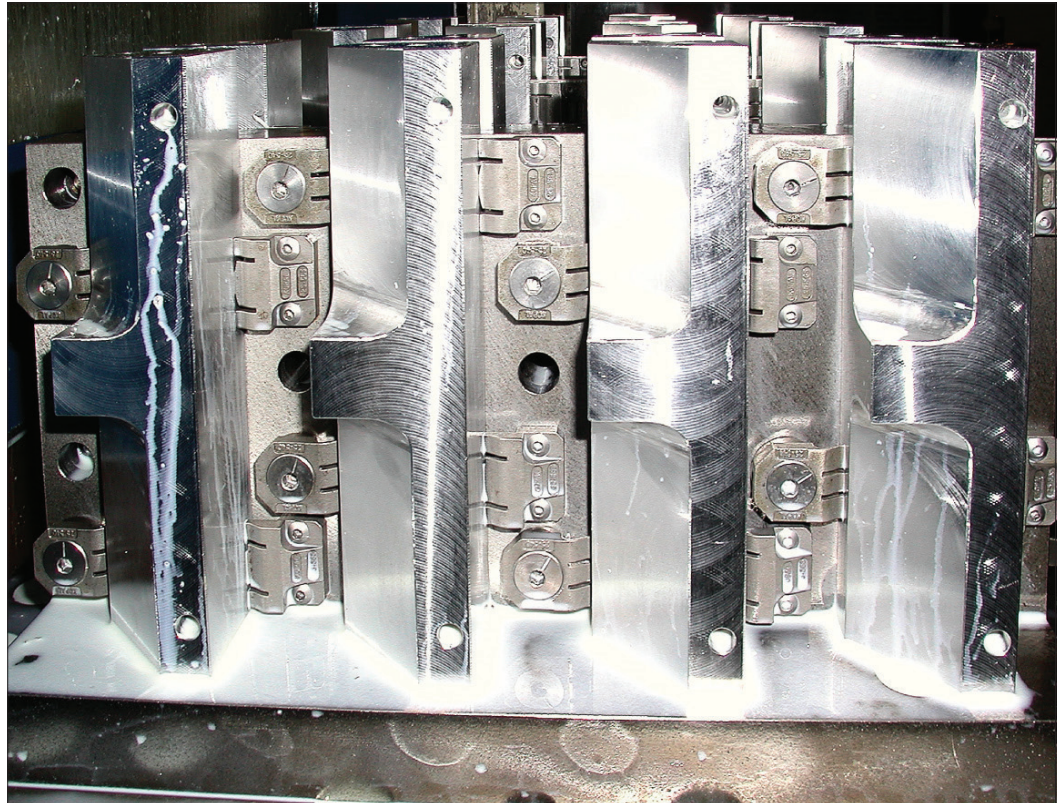
Tips
Use with our mini clamp, part no. 10940.

Order No.	Type	Grip height	h_1	h_2	h_3	l_1	l_2	l_3	l_4	w_1	d_1	d_2 tol. H7
10920.W0125	Standard	2.5	2.5	5	-	14	6	15	25	20	M 6	8
10920.W0130	Raised	7.5	2.5	10	5	14	6	15	25	20	M 6	8





Application



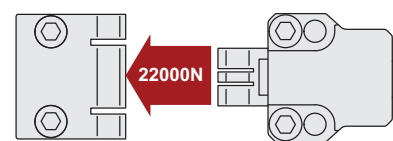
LOW PROFILE SIDE CLAMPING

Unique Horizontal Clamping Set-Ups

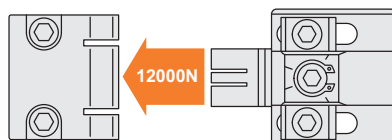
Part No. 10900, 10920, 10940
T-slot table and special machining set-ups



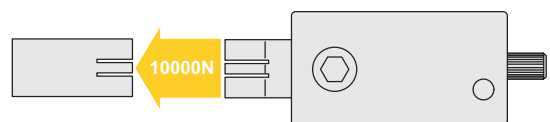
Part No. 11040, 11041, 11042, 11043
Supports and special machining set-ups



Part No. 11070, 11071
Supports and special machining set-ups



Part No. 11080, 11081, 11083
T-slot table, supports and special machining set-ups



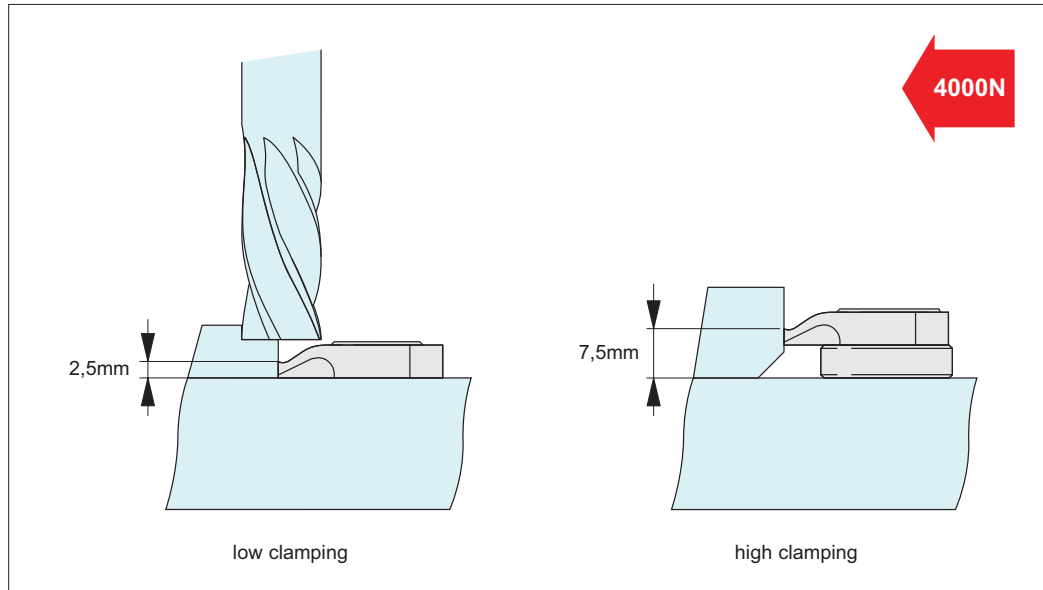


Mini Finger Clamps

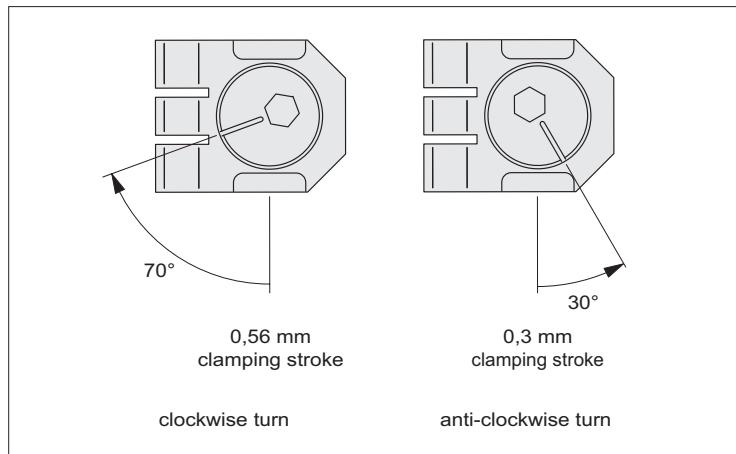
one of the most powerful clamps for its size

10900 - 10940
Clamping & Height Setting

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.

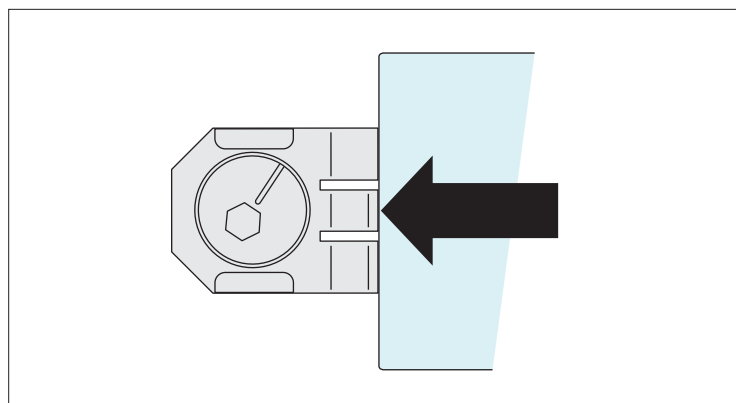


With a height of less than 6mm and a length of just 20mm mini finger clamps are ideal for multi-component clamping, while maximising access of the tooling. The clamp body is made from spring steel and the eccentric and screw from heat-treated steel. For quick, precise and high clamping forces up to 4000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



Unique Action - "three finger" Clamping

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

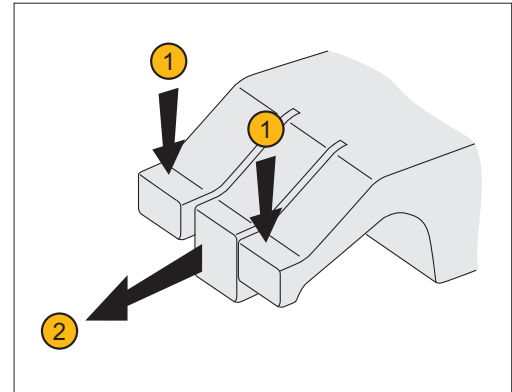
Used in our clamping series:

**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.

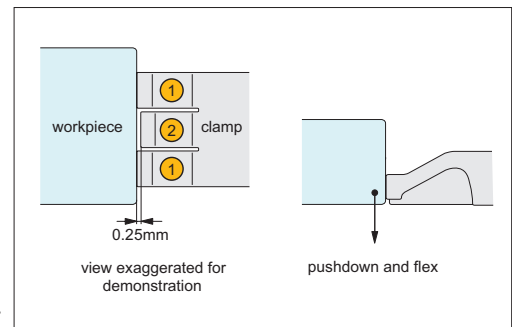


Clamping Action

Contact

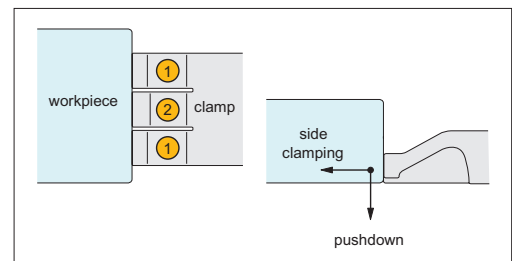
The clamps outer flexible fingers ① are approx. 0,25mm longer than the solid central finger/clamping stop ②, this slight difference in length means it is the flexible fingers which first come into contact with the workpiece.

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.



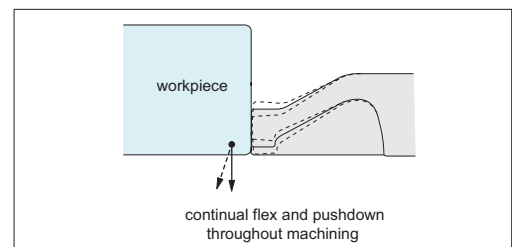
Clamping

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).



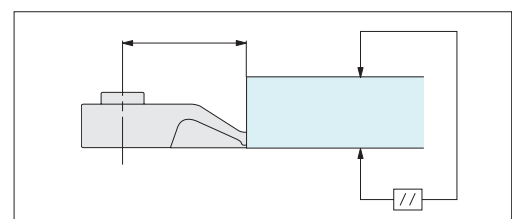
Machining

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

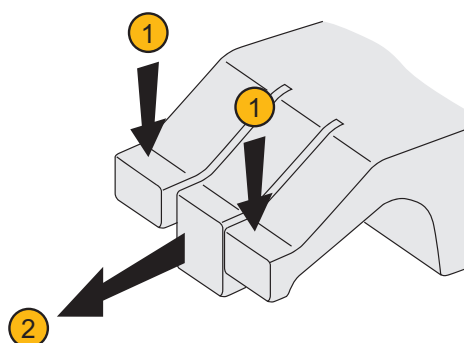
Clamping & Height Setting

Unique Action - "three finger" Clamping

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":

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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.



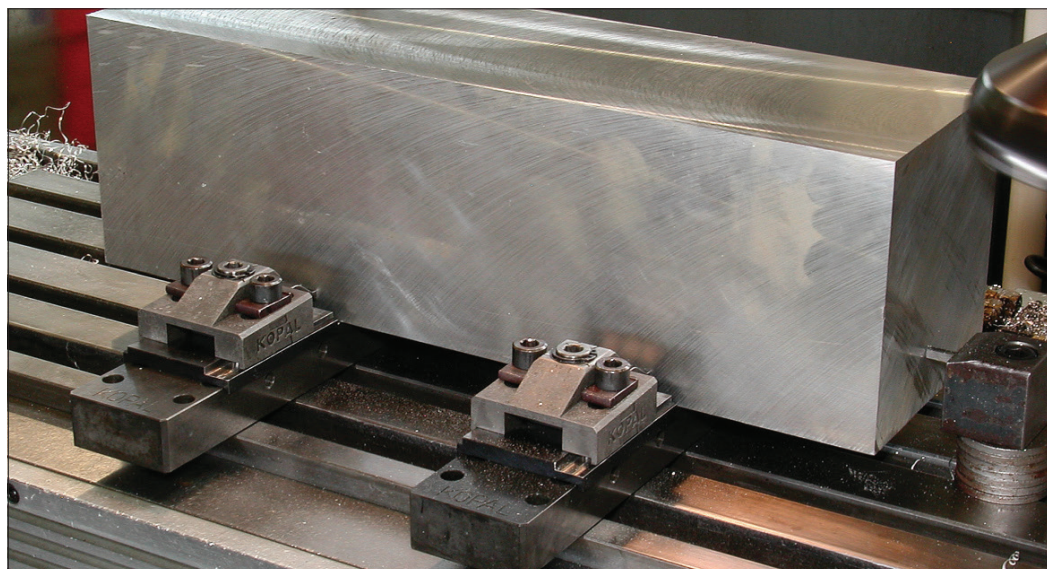
11040/41/42/43

22000N

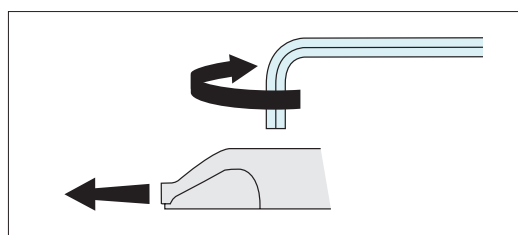
11070/71

12000N

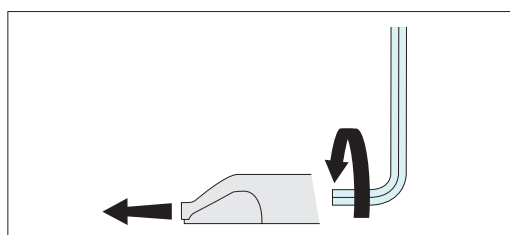
LOW PROFILE SIDE CLAMPING



Options

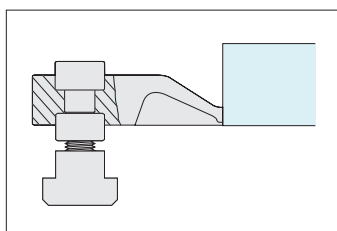


Quick 1/4 turn eccentric clamping – on models offering 4000 and 12000 Newtons clamping force.

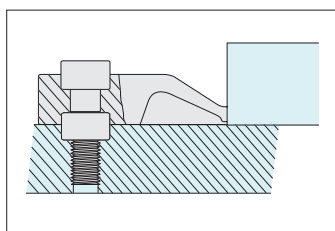


Rear screw clamping – on models offering 6500, 10000 and 22000 Newtons clamping force.

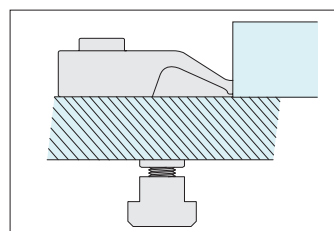
Actuation



T-Slotted tables



Dedicated fixturing



Modular fixturing

Mounting