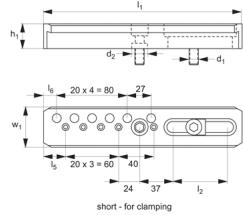
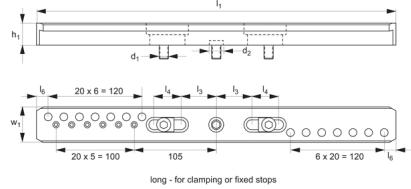


Support Bars for 1 ton finger clamps



Heavy-Duty Side Clamping



11086

HEAVY-DUTY SIDE CLAMPING

Material

Steel, hardened, with ground faces.

for locator d_2 tap M12 counterbore 18,00
H7 + 5mm deep.

For use with finger clamps 11080-11083.

Technical Notes

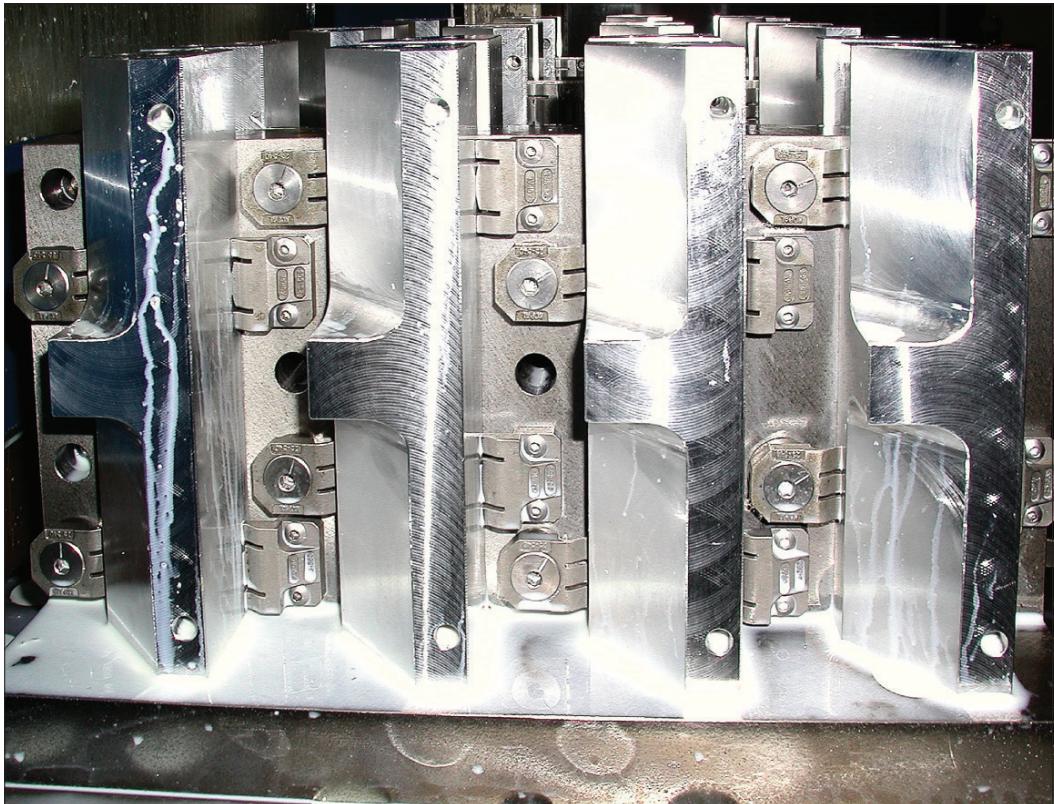
Fitting instructions:

Order No.	Type	w_1	d_1	d_2	h_1	l_1	l_2	l_3	l_4	l_5	l_6
11086.W0040	Long	45.5	M12	18	28	460	-	45	35	-	15
11086.W0045	Short	45.5	M12	18	28	225	63	-	-	25	15

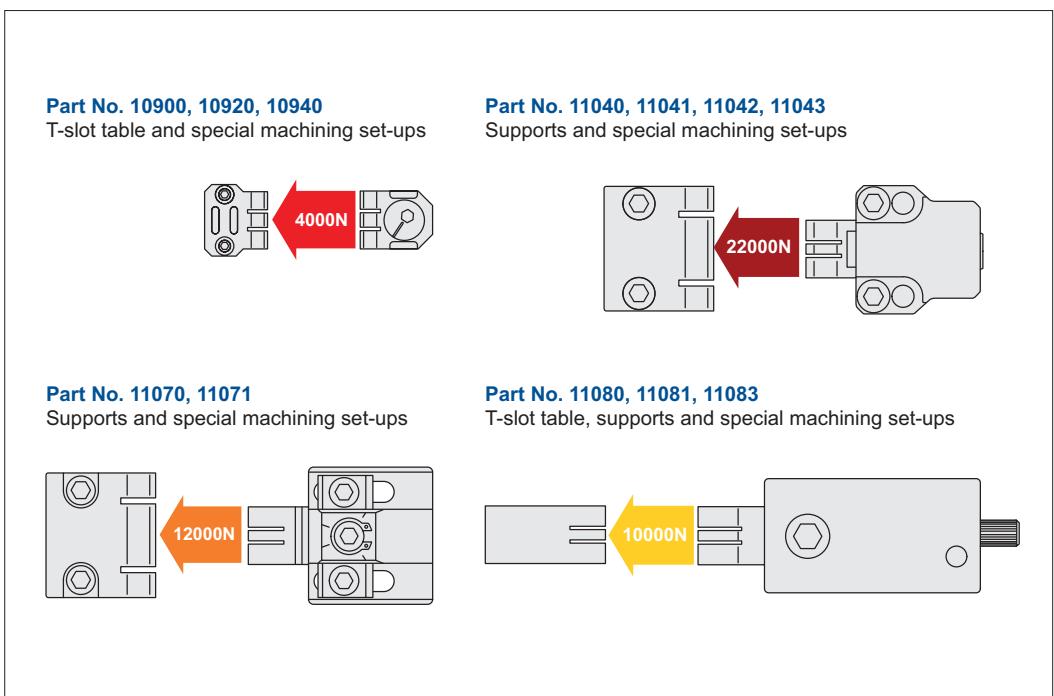


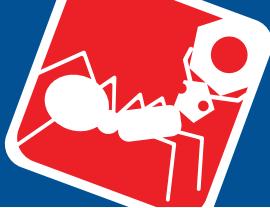
Application

HEAVY-DUTY SIDE CLAMPING



Unique Horizontal Clamping Set-Ups





Unique Horizontal Clamping

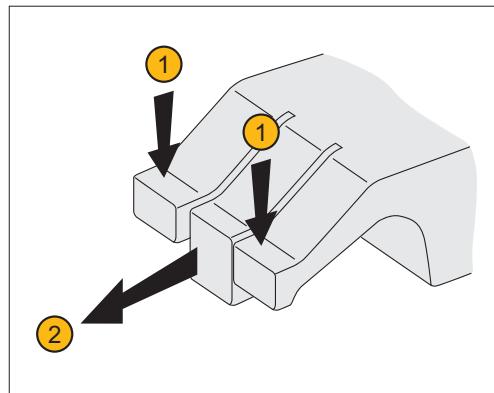
Clamping & Height Setting

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":

- 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.



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

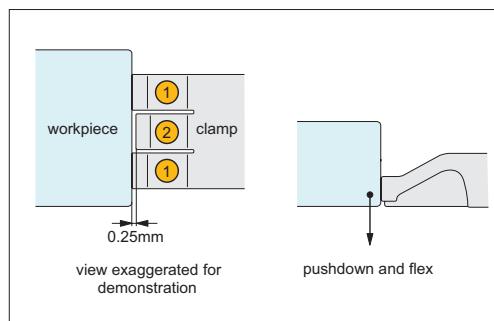
Used in our clamping series:

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

Clamping Action

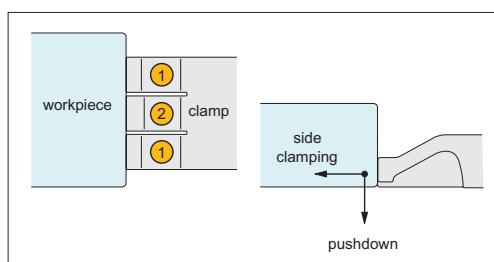
The clamps outer flexible fingers (1) are approx. 0,25mm longer than the solid central finger/clamping stop (2), this slight difference in length means it is the flexible fingers which first come into contact with the workpiece.

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).



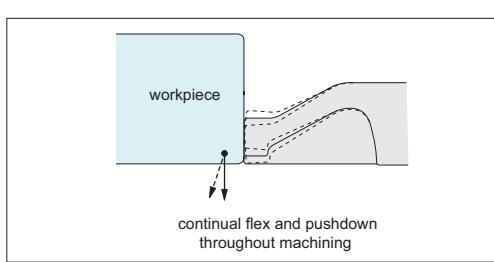
Contact

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).



Clamping

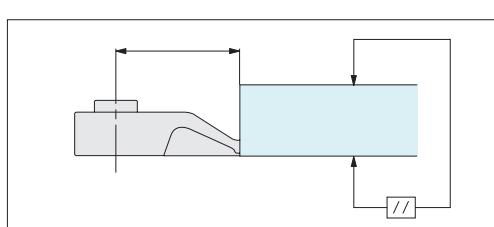
During machining the uniquely designed flexible fingers (1) continue to flex and twist applying downward pressure to keep the workpiece flat to the work table throughout.



Machining

Precision Positioning

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



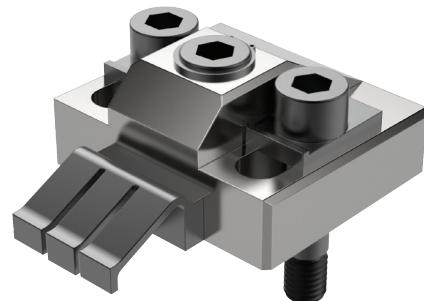


Clamping Torque



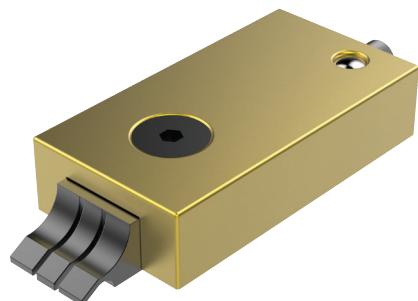
11040/CL2040

Clamping Torque N/m	Clamping Force N
50	23000
40	18000
30	12500
25	11500
20	9500



11070/CL2070

Clamping Torque N/m	Clamping Force N
60	16500
50	15000
40	12000
30	10000
25	8000
20	7000



11081/CL2081

Clamping Torque N/m	Clamping Force N
5	6600
4.5	5500
4	4900



10940/CL0030

Clamping Torque N/m	Clamping Force N
8.5	4000
8	3800
7	3400
6	3000
5	2500
4	2000