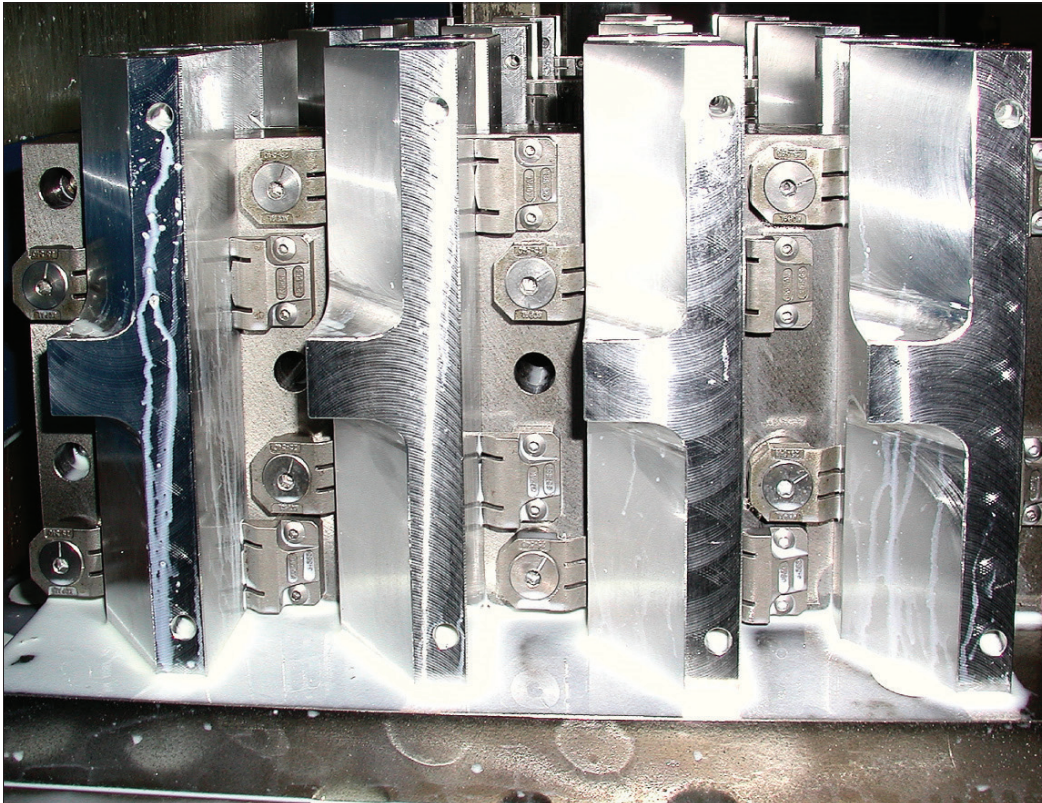




Application



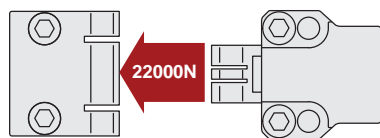
HEAVY-DUTY SIDE CLAMPING

Unique Horizontal Clamping Set-Ups

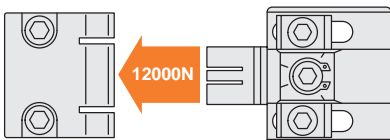
Part No. 10900, 10920, 10940
T-slot table and special machining set-ups



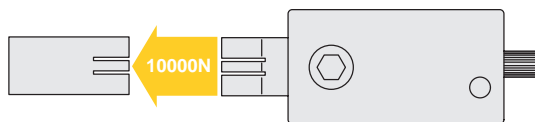
Part No. 11040, 11041, 11042, 11043
Supports and special machining set-ups



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



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



ov-W10920-A-T-W10940-b-rmh - Updated - 20-10-2022



Unique Action - "three finger" Clamping

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

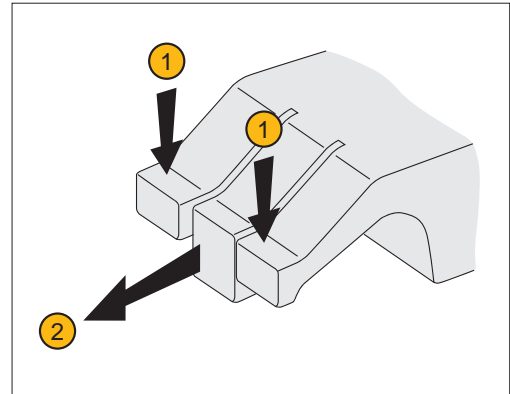
Used in our clamping series:

- 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.

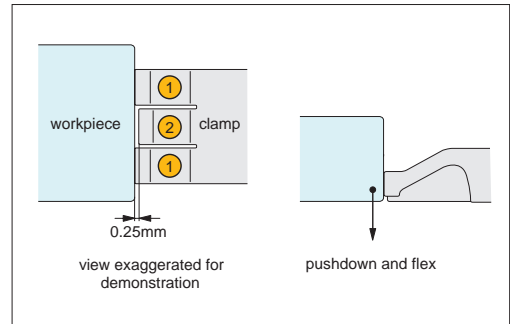


Clamping Action

Contact

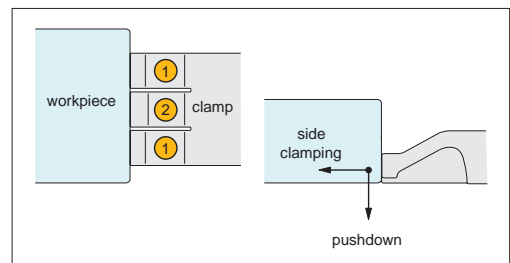
The clamps outer flexible fingers (1) are approx. 0,25mm longer than the solid central finger/clamping stop (2), this slight difference in length means it is the flexible fingers which first come into contact with the workpiece.

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).



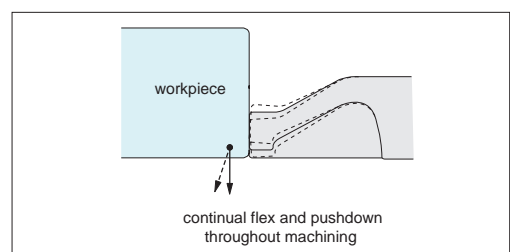
Clamping

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).



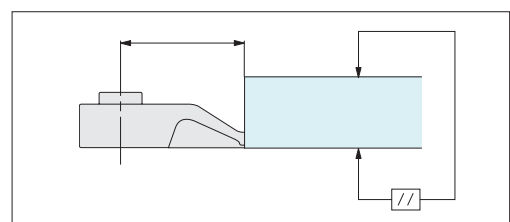
Machining

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



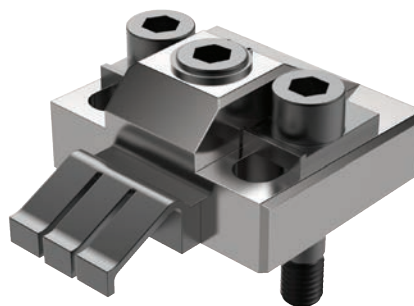
Clamping & Height Setting

Clamping Torque



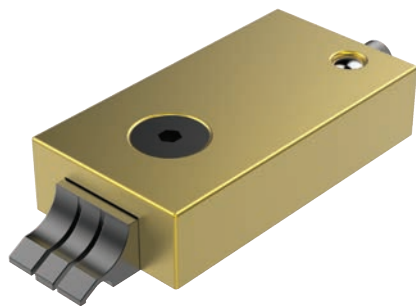
11040/CL2040

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

HEAVY-DUTY SIDE CLAMPING

ov-W11040-A-T-W10940-A-T-horizontal-clamping-rnh - Updated - 13-10-2022



Unique Action - "three finger" Clamping

11040/41/42/43

22000N

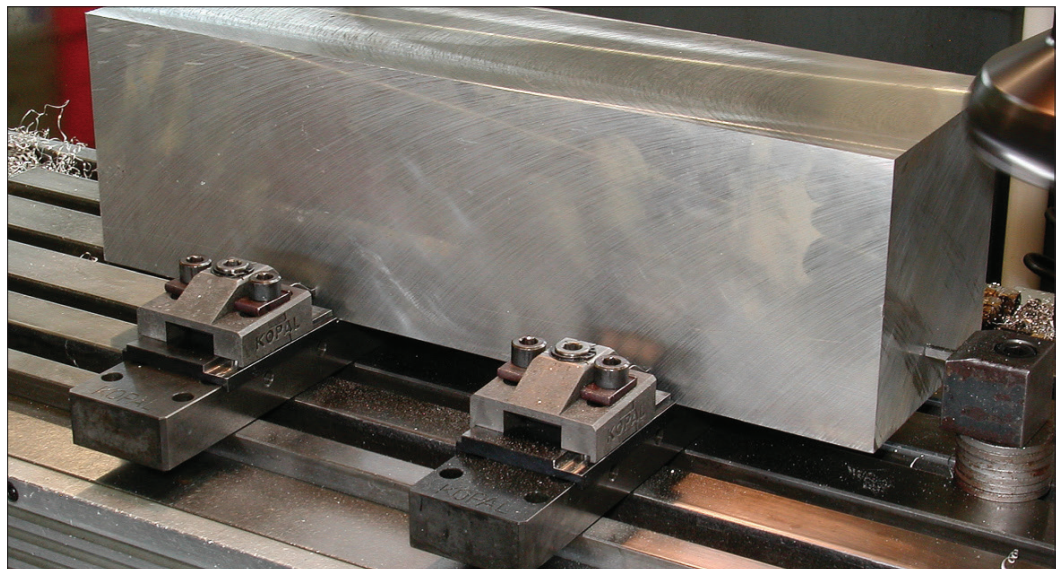
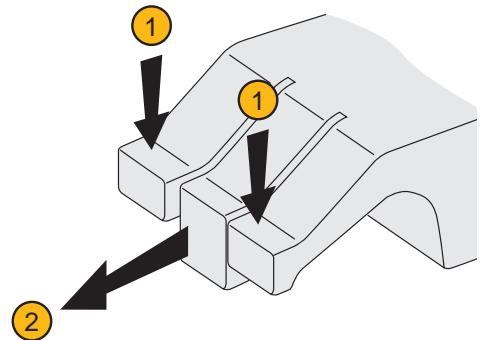
11070/71

12000N

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":

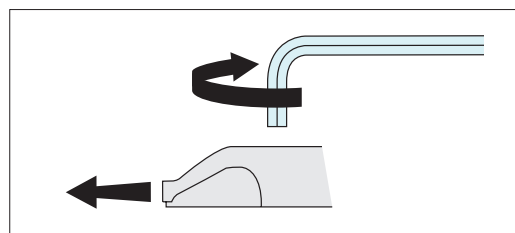
- Two outer flexible fingers ①; for pulling down the component to the work table.
- One solid central finger ②, to provide direct clamping action.

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.

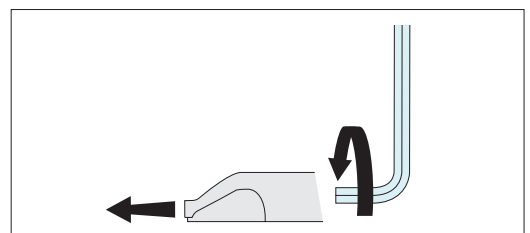


Options

Actuation

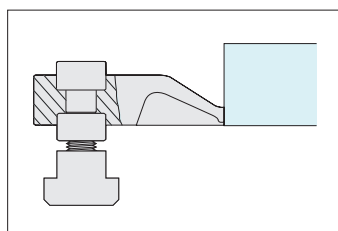


Quick 1/4 turn eccentric clamping – on models offering 4000 and 12000 Newtons clamping force.

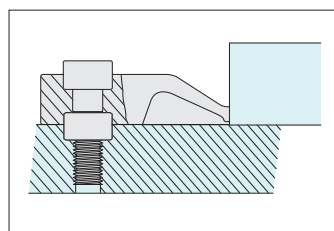


Rear screw clamping – on models offering 6500, 10000 and 22000 Newtons clamping force.

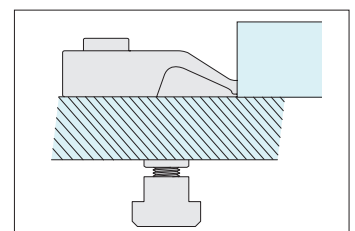
Mounting



T-Slotted tables



Dedicated fixturing

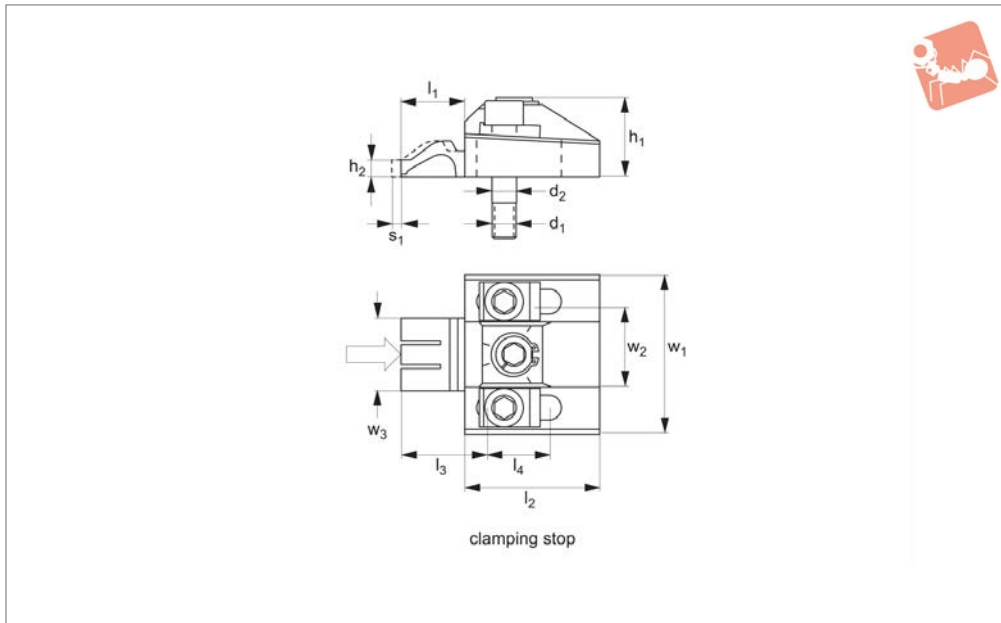


Modular fixturing



1.2 Ton Finger Clamps

Heavy-Duty Side Clamping



11070

HEAVY-DUTY SIDE CLAMPING

Material

Hardened steel, with spring steel clamping element.

Technical Notes

A low height, very powerful compact

clamp.

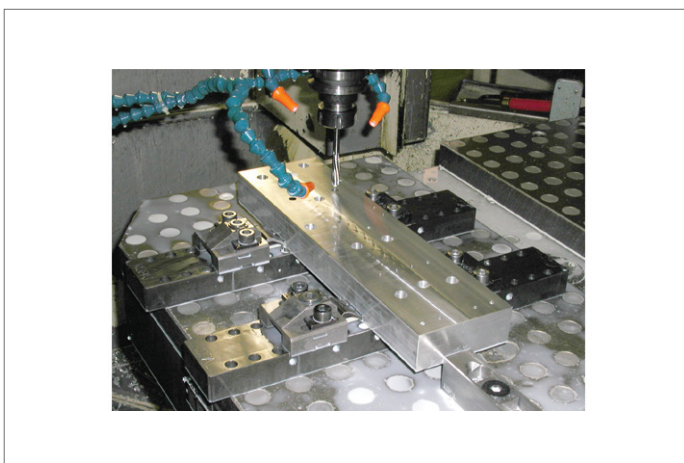
These clamps have a unique sideways and downwards clamping action.

Tips

Provided with specially ground location

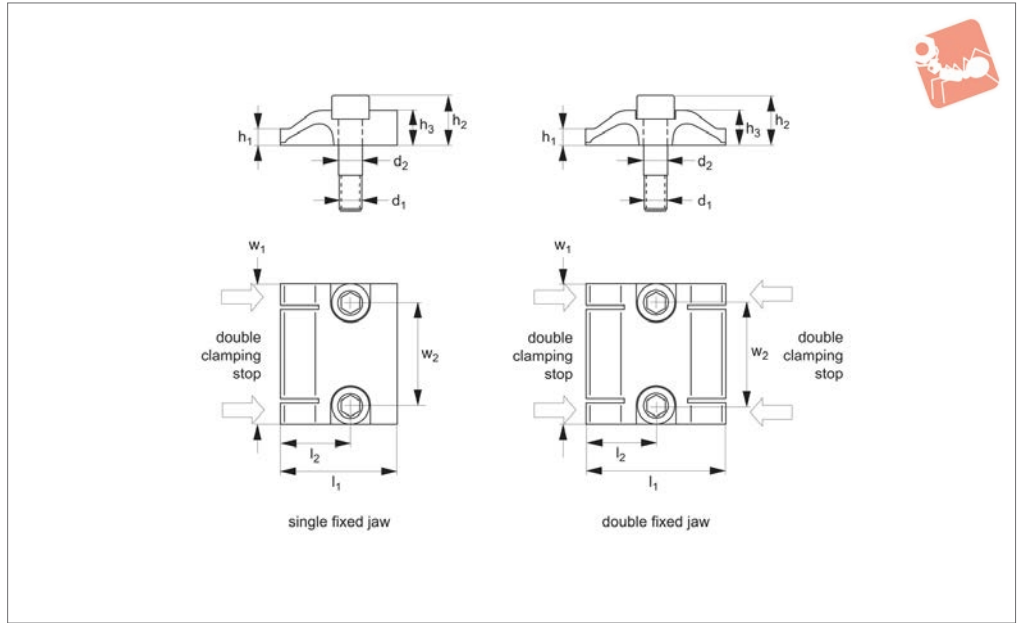
bolts $\varnothing 10,2$ - M10, screws, washers and clamping key. For mounting there are 2 tapped holes at $44,00 \pm 0,005$ mm centres, M10 with depth of 28mm, counterbore 10,2 (H6) with depth of 14mm.

Order No.	Clamping adjustment l_3	Clamping height h_2	Clamping stroke s_1	d_1	d_2 tol. h6	h_1	l_1	l_2	l_4	w_1	w_2	w_3	Torque to Nm max.	Clamping force kN max.
11070.W0020	25	7	1,6	M10	10,2	33	26,5	56	36,5	66	44	30	70	12





11071



Material
Spring steel.

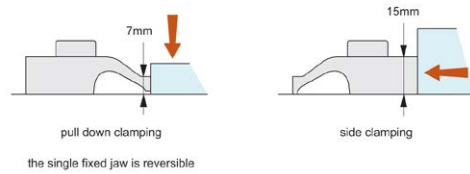
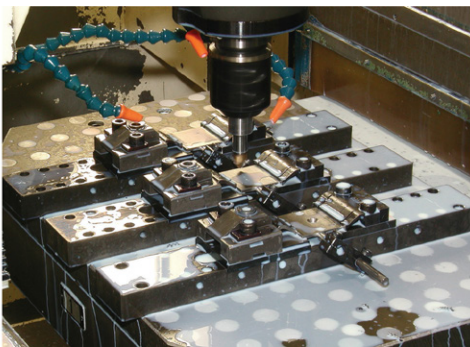
Technical Notes
These stops have a unique sideways and

downwards action.

Tips
Provided with specially ground location bolts $\varnothing 10,2 - M10$. For mounting there are

2 tapped holes at $44,00 \pm 0,005\text{mm}$ centres, M10 with depth of 28mm, counterbore 10,2 (H6) with depth of 14mm.

Order No.	Type	Clamping height h_1	d_1	d_2	h_2	h_3	l_1	l_2	w_1	w_2
11071.W0080	Single	7	M10	10.2	22	15	50	30	60	44
11071.W0082	Double	7	M10	10.2	22	15	60	30	60	44

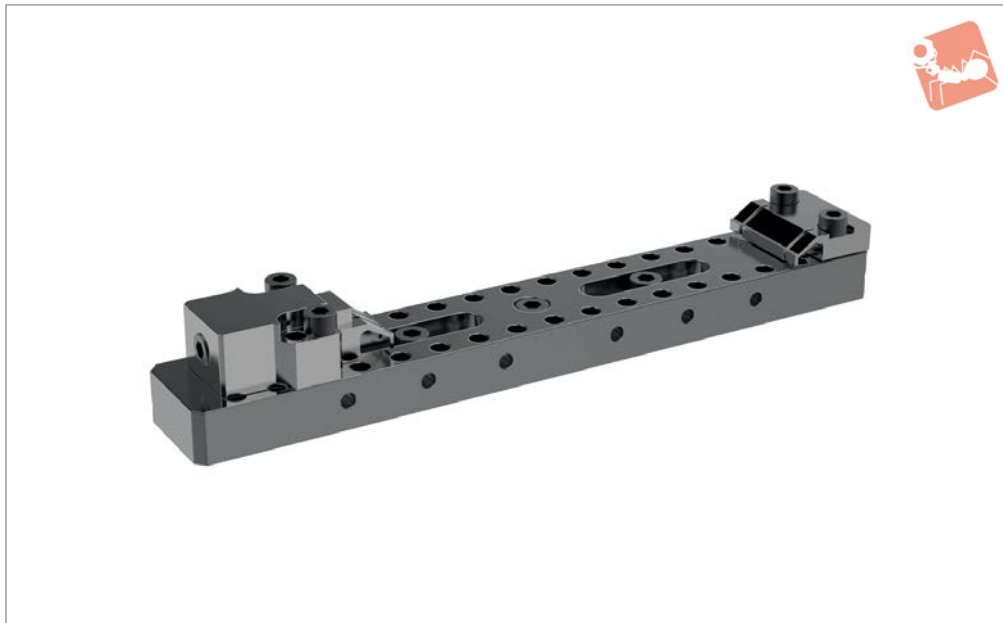




1.2 Ton Finger Clamps

double vice set

Heavy-Duty Side Clamping



11075

HEAVY-DUTY SIDE CLAMPING

Material

Steel, hardened, with ground faces.

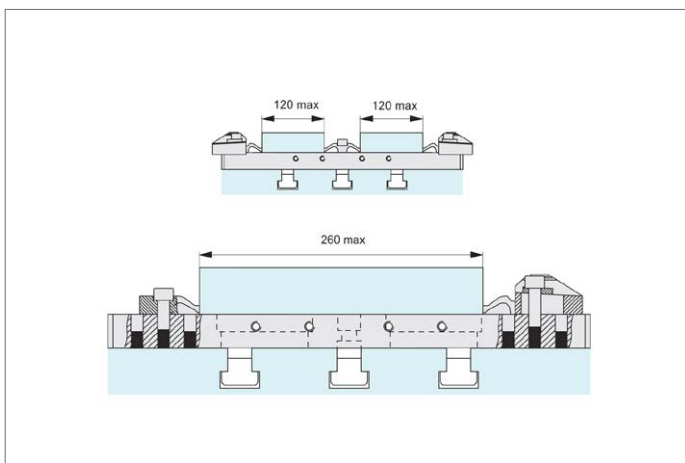
Technical Notes

For T-slot tables and fixture plates.

Tips

Provided with 2 x M12 fixing screws and centring locator.

Order No.	Rail	Stop	Type	Clamp
11075.W0010	1 pc 11046.W00015	1 pc 11071.W0080	Vice Set	1 pc 11070.W0020





11076



Material

Steel, hardened, with ground faces.

Technical Notes

For T-slot tables and fixture plates.

Tips

Provided with 3 x M12 fixing screws and centring locator.

Order No.	Rail	Stop	Type	Clamp
11076.W0014	2 pc 11045.W0016	1 pc 11071.W0080	Modular Vice Set	1 pc 11070.W0020

