

## 12130

LOW PROFILE SIDE CLAMPING

### Material

Channel: aluminium, anodised (7075-T6).  
Wedge and screw: steel, hardened and blackened.

### Technical Notes

Holds two parts with an equal clamping action. Very effective for multiple workpiece clamping. Can easily be used with hydraulic pull cylinders. Can be used to

clamp round bar, as long as centre line of clamp is above the centre line of the workpiece.

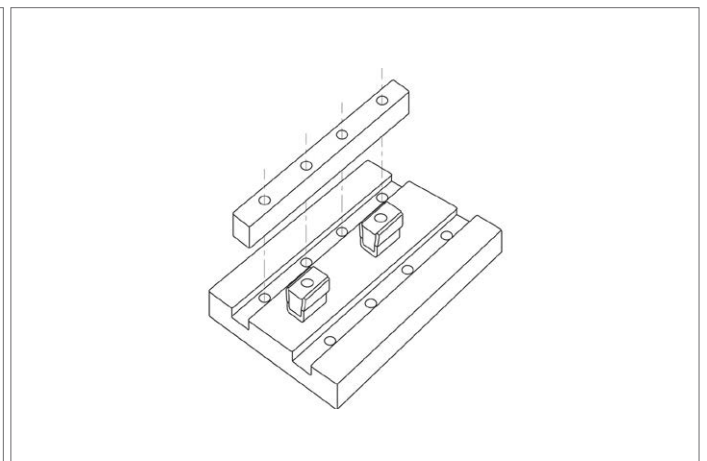
### Tips

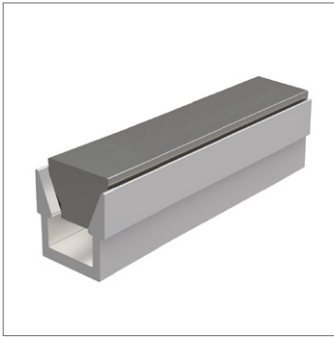
Clockwise rotation is recommended. The workpiece should be on the right of the clamp. For replacement cam screws see parts 12112.

### Important Notes

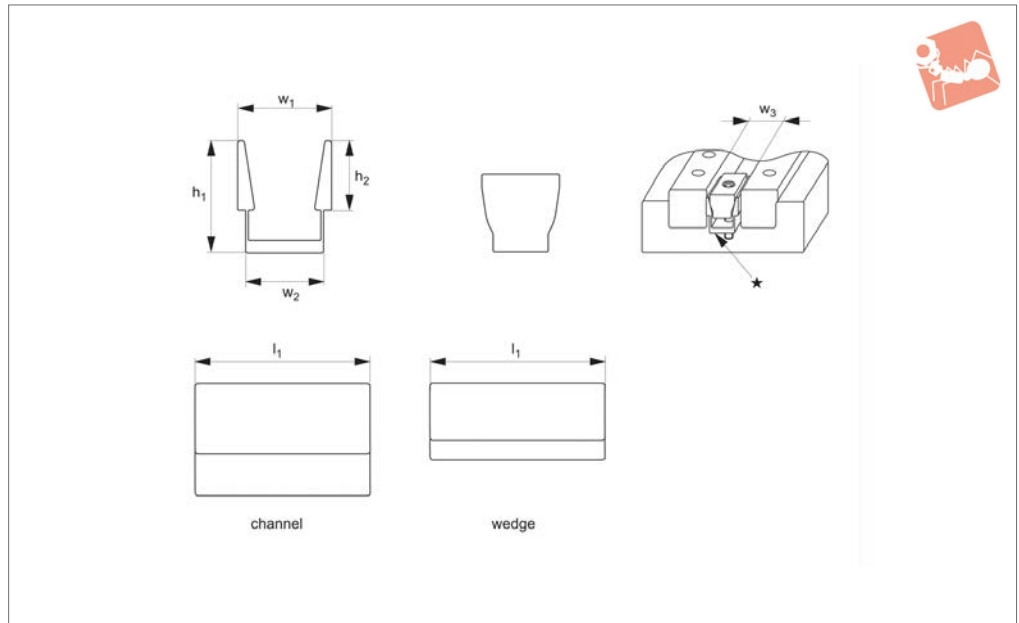
Dimension  $w_2$  is the distance needed between workpieces for clamp clearance. Drill and tap mounting hole on the centre of this dimension.  
"\*" a milled slot wider than  $d_1$  will ensure the clamp remains in line with the workpiece. Clamp sides should not come into contact with slot walls during expansion.

Order No.	$d_1$	$d_2$	$h_1$	$h_2$	$h_3$	$l_1$	$w_1$	$w_2$	Spread max.	A/F	Torque to Nm max.	Qty/pack	Holding force kN	Weight g
12130.W0001	5.3	M 2	6.9	6.40	3.6	8.1	6.1	6.4	6.7	1.5	0.7	6	0.88	45
12130.W0002	7.9	M2,5	9.7	9.50	4.7	11.9	9.1	9.5	10.0	2.0	1.5	6	1.35	68
12130.W0004	10.4	M 4	14.5	12.70	5.6	15.9	12.3	12.7	13.2	3.0	3.4	8	2.23	100
12130.W0006	16.1	M 6	19.0	19.05	9.5	23.8	18.6	19.0	20.3	5.0	13.5	6	6.68	222
12130.W0008	20.8	M 8	25.9	25.40	12.7	31.7	24.8	25.4	26.9	6.0	25.0	4	11.13	340
12130.W0012	30.8	M12	38.6	38.10	19.0	47.6	37.3	38.1	39.9	10.0	38.4	2	15.58	612
12130.W0016	41.2	M16	51.5	50.80	25.4	63.5	49.7	50.8	53.0	14.0	74.6	2	26.70	1404





## 12131



### Material

Channel: aluminium (7075-T6).  
Wedge: steel.

### Technical Notes

Standard length of 508mm supplied, to allow machining to your own requirements.

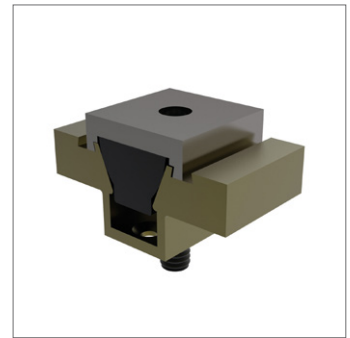
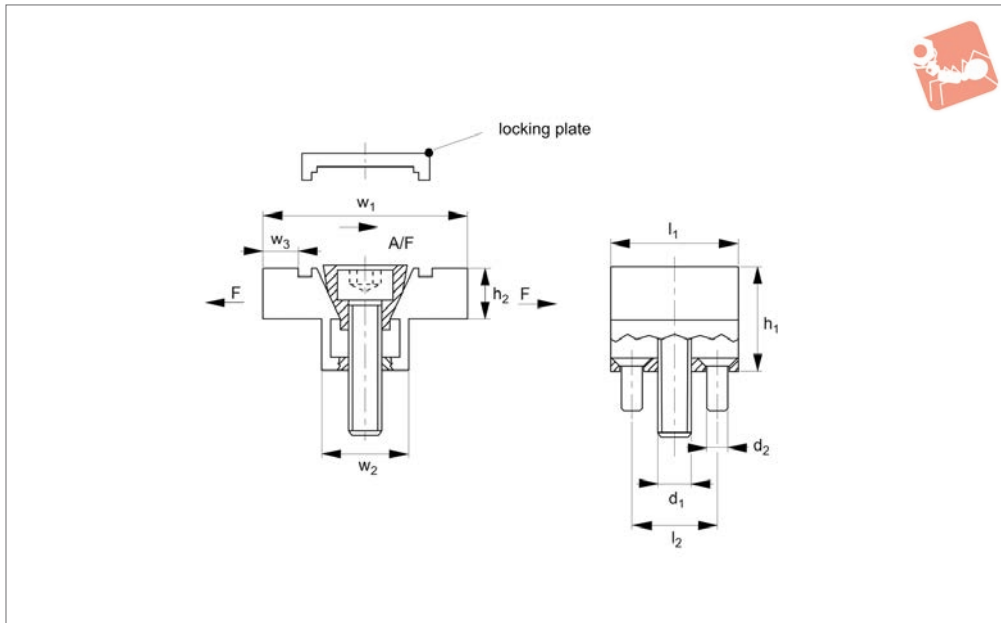
No drilled holes.

### Important Notes

Dimension „w<sub>3</sub>“ is distance needed between workpieces for clamp clearance. Drill and tap mounting hole on centre of this dimension.  
„\*“ a milled slot wider than w<sub>2</sub> will ensure

clamp remains in line with workpiece. Clamp sides should not come into contact with slot wall during expansion. Channel and wedge supplied separately. If both parts are required please order them separately.

Order No.	Part	h <sub>1</sub>	h <sub>2</sub>	l <sub>1</sub>	w <sub>1</sub>	w <sub>2</sub>	w <sub>3</sub>	Spread max.
12131.W0001	Channel	6.4	3.6	508	6.1	5.3	6.4	6.7
12131.W0002	Channel	9.5	4.7	508	9.1	7.9	9.5	10.0
12131.W0004	Channel	12.7	5.6	508	12.3	10.4	12.7	13.2
12131.W0006	Channel	19.1	9.5	508	18.6	16.1	19.0	20.3
12131.W0008	Channel	25.4	12.7	508	24.8	20.8	25.4	26.9
12131.W0012	Channel	38.1	19.0	508	37.3	30.8	38.1	39.9
12131.W0016	Channel	50.8	25.4	508	49.7	41.2	50.8	53.0
12131.W0201	Wedge	-	-	508	6.1	-	-	-
12131.W0202	Wedge	-	-	508	9.1	-	-	-
12131.W0204	Wedge	-	-	508	12.3	-	-	-
12131.W0206	Wedge	-	-	508	18.6	-	-	-
12131.W0208	Wedge	-	-	508	24.8	-	-	-
12131.W0212	Wedge	-	-	508	37.3	-	-	-
12131.W0216	Wedge	-	-	508	49.7	-	-	-



### 12140

LOW PROFILE SIDE CLAMPING

#### Material

Channel: aluminium, anodised (7075-T6).  
Wedge and screw: steel, hardened, blackened.

#### Technical Notes

Extra material on the clamp jaws can be machined away to suit the shape of your workpiece.  
The specially designed steel wedge spreads

the clamp force uniformly across both sides of the clamp.

#### Tips

The locking plate should be used to machine the jaws, and removed after this process to enable workpiece clamping. When the clamp is used to machine flat faced parts, use the locking plates to machine the faces parallel.

Full clamping cannot be achieved if locking plate has not been removed.

#### Important Notes

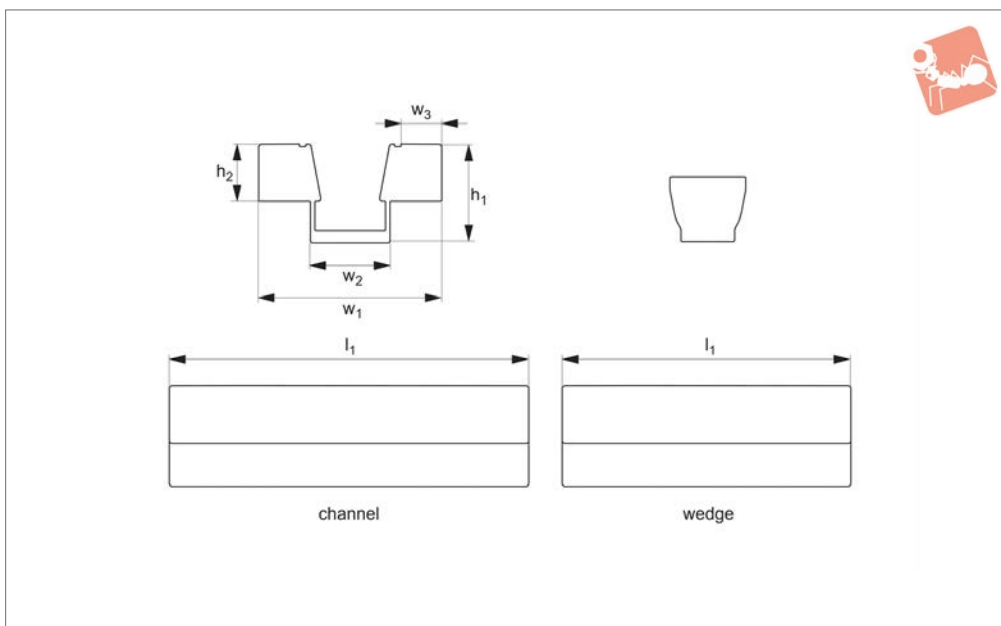
$w_1$  is the distance needed between workpieces for clamp clearance. Drill and tap mounting holes on the centre of this dimension.  
 $w_3$  is the amount of machinable stock on the jaws.

Order No.	$d_1$	$d_2$	$h_1$	$h_2$	$l_1$	$l_2$	$w_1$	$w_2$	$w_3$	Torque to Nm max.	Holding force F kN	Weight g
12140.W0050	M 4	M 2	12.7	6.3	15.7	10.2	28.6	10.7	4.6	3.4	2.2	18
12140.W0075	M 6	M 4	19.1	9.4	23.9	15.9	38.1	16.1	6.6	13.5	6.6	25
12140.W0100	M 8	M 4	25.4	12.7	31.8	20.6	50.8	20.8	9.9	25.0	11.1	13
12140.W0150	M12	M 5	38.1	19.1	47.5	30.5	76.2	30.9	15.7	38.4	15.5	93
12140.W0200	M16	M 6	50.8	25.4	63.5	41.3	101.6	41.3	20.3	74.6	26.7	1000





## 12145



### Material

Channel: aluminium, anodised (7075-T6).  
Wedge: steel.

### Technical Notes

The specially designed steel wedge spreads the clamp force uniformly across both sides of the clamp.  
Channel supplied with 4 mounting screws.

Wedge supplied with 3 drive bolts.

### Tips

Standard length of 190mm supplied to allow machining to your own requirements.

### Important Notes

$w_1$  is the distance needed between work-

pieces for clamp clearance. Drill and tap mounting holes on the centre of this dimension.

$w_3$  is the amount of machinable stock on the jaws.

Channel and wedge supplied separately. If both parts are required please order them separately.

Order No.	Part	$h_1$	$h_2$	$l_1$	$w_1$	$w_2$	$w_3$	Screw	Torque to Nm max.	Holding force kN	Weight g
12145.W0550	Channel	12.7	6.3	190	28.6	10.67	4.6	M 2	3.4	2.2	91
12145.W0575	Channel	19.1	9.4	190	38.1	16.05	6.6	M 4	14.6	6.6	172
12145.W0600	Channel	25.4	12.7	190	50.8	20.83	9.9	M 4	14.1	8.9	299
12145.W0650	Channel	38.1	19.1	190	76.2	30.86	15.7	M 5	38.4	15.5	376
12145.W0850	Wedge	-	-	190	28.6	-	-	M 4	-	-	114
12145.W0875	Wedge	-	-	190	38.1	-	-	M 6	-	-	231
12145.W0900	Wedge	-	-	190	50.8	-	-	M 8	-	-	403
12145.W0950	Wedge	-	-	190	76.2	-	-	M12	-	-	874

