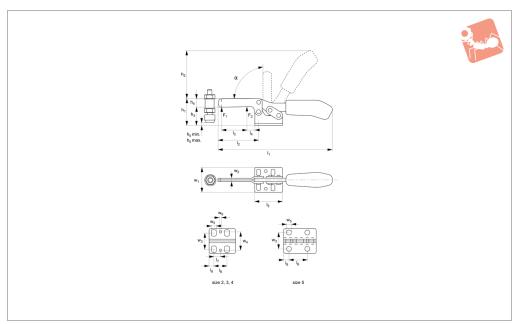


Horizontal Acting Toggle Clamps solid arm - horizontal base





41030

Material

Body: steel, zinc plated.

Rivets: stainless steel running in hardened bushes.

Pre-lubricated bearings (grease suitable for food industry use).

Ergonomic, soft feel, oil-resistant handle with large grip area.

Supplied complete with weldable clamping screw (with rubber pad).

Technical Notes

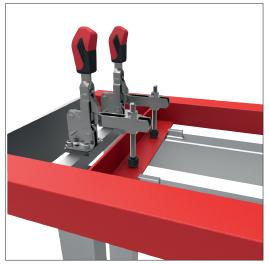
The arm can be shortened to suit the workpiece, the sleeve is then welded to the arm. Temperature range -10°C to +80°C.

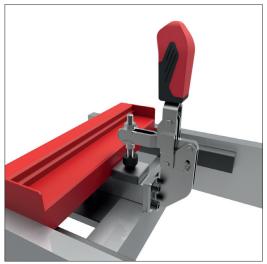
41030.W0002 2 1.0 1.2 M 6x35 45.0 66 24 13 -2.0 7.5 161 63 185 41030.W0003 3 1.8 2.5 M 8x45 48.5 86 32 15 -3.5 11.0 205 72 320 41030.W0004 4 2.0 3.0 M 8x65 75.0 114 45 20 -6.0 22.0 280 111 700 41030.W0005 5 3.0 5.0 M12x80 73.0 128 46 25 -13.0 12.5 320 121 1080 Order No. I_3 I_4 I_5 I_6 I_7 I_8 W_1 W_2 W_3 W_4 W_5 W_6 α 41030.W0002 35 16.0 38 26.0 12.7 6.0 42.0 5 19,5-29,5 28.5 5.6 5.6 90° 41030.W0003 44 15.0 50 26.0 13.0 7.0 45.5 6 22,0-31,8 32.0 </th <th>Order No.</th> <th>Size</th> <th>F₁ kN</th> <th>F₂ kN</th> <th>Clamping</th> <th>screw</th> <th>h_1</th> <th>h₂</th> <th>h₃</th> <th>h₄</th> <th>h₅ min.</th> <th>h₅ max.</th> <th>I₁</th> <th>l₂</th> <th>Weight g</th>	Order No.	Size	F ₁ kN	F ₂ kN	Clamping	screw	h_1	h ₂	h ₃	h ₄	h ₅ min.	h ₅ max.	I ₁	l ₂	Weight g
41030.W00004 4 2.0 3.0 M 8x65 75.0 114 45 20 -6.0 22.0 280 111 700 41030.W0005 5 3.0 5.0 M12x80 73.0 128 46 25 -13.0 12.5 320 121 1080 Order No. I ₃ I ₄ I ₅ I ₆ I ₇ I ₈ w ₁ w ₂ w ₃ w ₄ w ₅ w ₆ α 41030.W0002 35 16.0 38 26.0 12.7 6.0 42.0 5 19,5-29,5 28.5 5.6 5.6 90° 41030.W0003 44 15.0 50 26.0 13.0 7.0 45.5 6 22,0-31,8 32.0 6.5 5.1 90°	41030.W0002	2	1.0	1.2	M 6x35		45.0	66	24	13	-2.0	7.5	161	63	185
41030.W0005 5 3.0 5.0 M12x80 73.0 128 46 25 -13.0 12.5 320 121 1080 Order No. l_3 l_4 l_5 l_6 l_7 l_8 w_1 w_2 w_3 w_4 w_5 w_6 α 41030.W0002 35 16.0 38 26.0 12.7 6.0 42.0 5 19,5-29,5 28.5 5.6 5.6 90° 41030.W0003 44 15.0 50 26.0 13.0 7.0 45.5 6 22,0-31,8 32.0 6.5 5.1 90°	41030.W0003	3	1.8	2.5	M 8x45		48.5	86	32	15	-3.5	11.0	205	72	320
Order No. l_3 l_4 l_5 l_6 l_7 l_8 w_1 w_2 w_3 w_4 w_5 w_6 α 41030.W0002 35 16.0 38 26.0 12.7 6.0 42.0 5 19,5-29,5 28.5 5.6 5.6 90° 41030.W0003 44 15.0 50 26.0 13.0 7.0 45.5 6 22,0-31,8 32.0 6.5 5.1 90°	41030.W0004	4	2.0	3.0	M 8x65		75.0	114	45	20	-6.0	22.0	280	111	700
41030.W0002 35 16.0 38 26.0 12.7 6.0 42.0 5 19,5-29,5 28.5 5.6 5.6 90° 41030.W0003 44 15.0 50 26.0 13.0 7.0 45.5 6 22,0-31,8 32.0 6.5 5.1 90°	41030.W0005	5	3.0	5.0	M12x80		73.0	128	46	25	-13.0	12.5	320	121	1080
41030.W0002 35 16.0 38 26.0 12.7 6.0 42.0 5 19,5-29,5 28.5 5.6 5.6 90° 41030.W0003 44 15.0 50 26.0 13.0 7.0 45.5 6 22,0-31,8 32.0 6.5 5.1 90°															
41030.W0003 44 15.0 50 26.0 13.0 7.0 45.5 6 22,0-31,8 32.0 6.5 5.1 90°	Order No.	l ₃	l ₄	l ₅	l ₆	l ₇	18	\mathbf{w}_1	W_2		w_3	w_4	w_5	w_6	α
	41030.W0002	35	16.0	38	26.0	12.7	6.0	42.0	5	19,	5-29,5	28.5	5.6	5.6	90°
41030 W0004 66 260 57 410 205 80 580 8 200430 430 85 85 90°	41030.W0003	44	15.0	50	26.0	13.0	7.0	45.5	6	22,0	0-31,8	32.0	6.5	5.1	90°
41030.110004 00 20.0 37 41.0 20.3 6.0 36.0 6 29,0-43,0 43.0 6.3 6.3 90	41030.W0004	66	26.0	57	41.0	20.5	8.0	58.0	8	29,0	0-43,0	43.0	8.5	8.5	90°
41030.W0005 78 17.5 77 41.5 - 12.5 58.0 10 41.5 - 8.5 - 90°	41030.W0005	78	17.5	77	41.5	-	12.5	58.0	10	4	1.5	-	8.5	-	90°





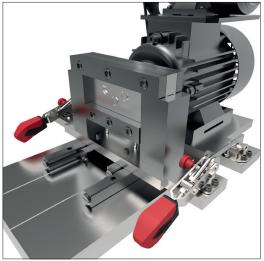
Welding Fixtures



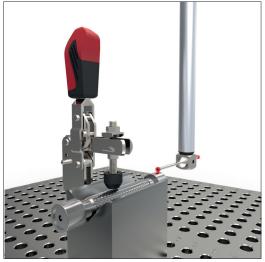


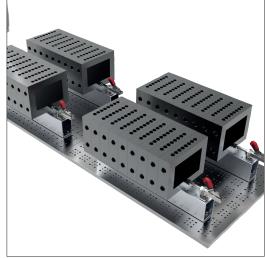
Machining and Jig Assemblies





Cmm's





Wixroyd Toggle Clamps

overview





Mounting Base Variations

Horizontal base

Vertical base

Angled base







Clamping Variations

Vertical acting

Horizontal acting

Push-pull



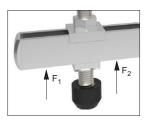


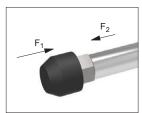
Hook type

Latch type

Explanation of forces

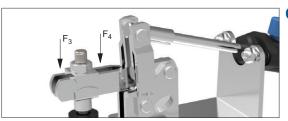
The force transmitted to the workpiece by the toggle clamp's closed arm, without itself being deformed when machine forces are applied. The holding force value is dependent upon the proximity of the measuring load point to the toggle clamp's pivot point (therefore two values, F1 and F2 are provided).





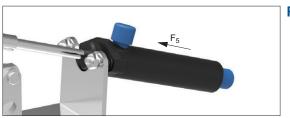
Holding Forces F₁ or F₂

The force applied to the workpiece when the toggle clamp's arm is closed. These clamping forces can only be stated for pneumatic toggle clamps, clamping forces of manual clamps cannot be easily measured as they are dependent upon the operator.



Clamping Forces F₃ or F₄

For pneumatically controlled toggle clamps only, F5 is the piston force required (at 6 bar to) achieve the stated clamping force.



Piston Forces F₅



ov-W40000,1-A-T-W42070-A-T-b-rnh- Updated -27-10-2022



Quality Features



Ergonomic soft grip 2-component handle



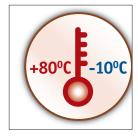
Stainless rivets and hardened bushings



Moveable stop for variable opening angle



Operator finger protection



Temperature resistant

Unique Features



Safety catches



Heavy duty versions



Pneumatic versions



Matt black surface for optical measurement

Materials



Steel, zinc plated and passivated



Stainless steel (304)



Steel, matt black vario-spektron coated



Protective cap and handle made of an electrostatic conductive (dissipative) material.