

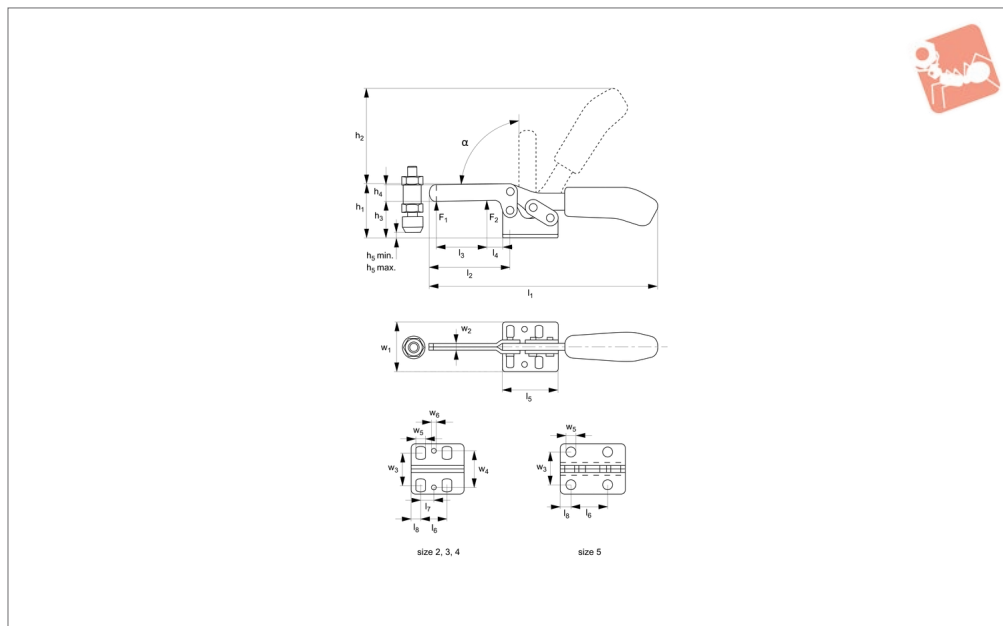


Horizontal Acting Toggle Clamps

solid arm - horizontal base



Steel Toggle Clamps



41030

STEEL TOGGLE CLAMPS

Material

Body: steel, zinc plated.
 Rivets: stainless steel running in hardened bushes.
 Pre-lubricated bearings (grease suitable for food industry use).

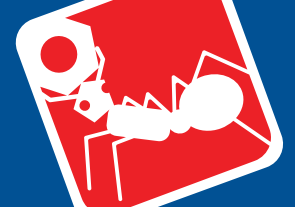
Ergonomic, soft feel, oil-resistant handle with large grip area.
 Supplied complete with weldable clamping screw (with rubber pad).

Technical Notes

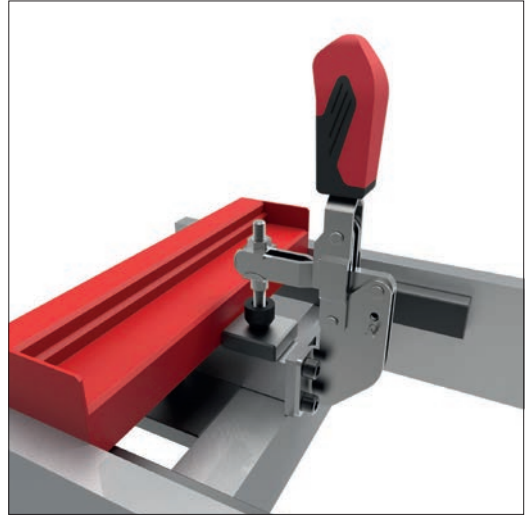
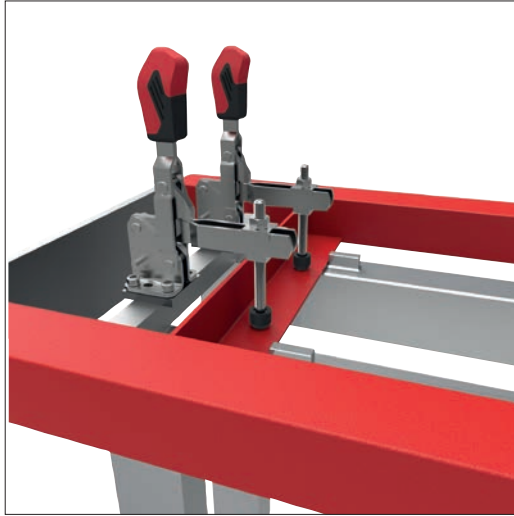
The arm can be shortened to suit the work-piece, the sleeve is then welded to the arm.
 Temperature range -10°C to +80°C.

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.	l ₁	l ₂	Weight g
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

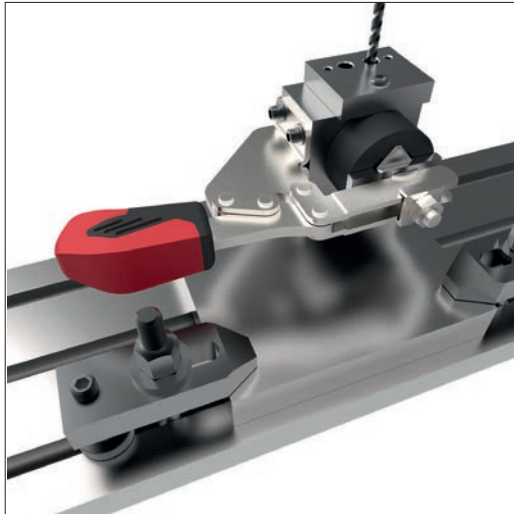
Order No.	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	w ₁	w ₂	w ₃	w ₄	w ₅	w ₆	α
41030.W0002	35	16.0	38	26.0	12.7	6.0	42.0	5	19,5-29,5	28.5	5.6	5.6	90°
41030.W0003	44	15.0	50	26.0	13.0	7.0	45.5	6	22,0-31,8	32.0	6.5	5.1	90°
41030.W0004	66	26.0	57	41.0	20.5	8.0	58.0	8	29,0-43,0	43.0	8.5	8.5	90°
41030.W0005	78	17.5	77	41.5	-	12.5	58.0	10	41.5	-	8.5	-	90°



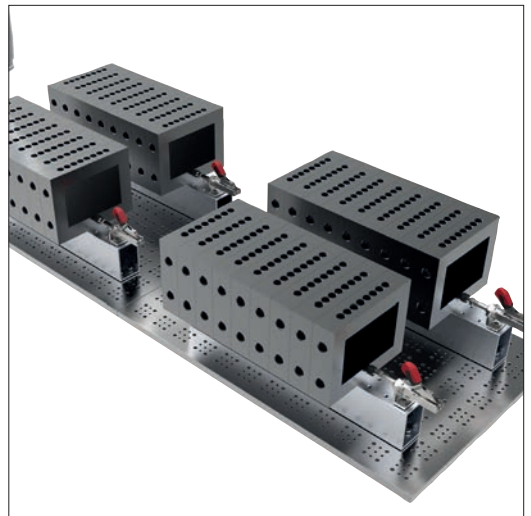
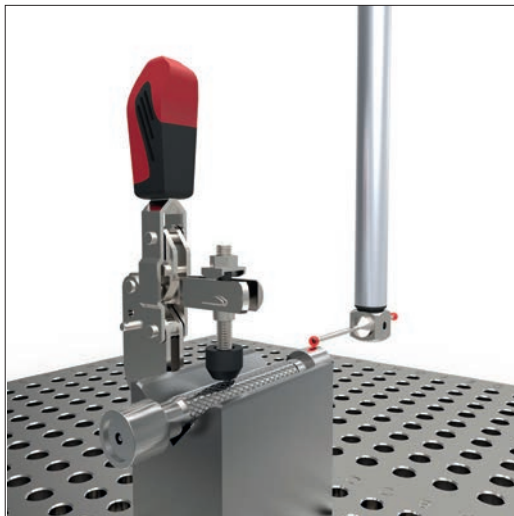
Welding Fixtures



Machining and Jig Assemblies

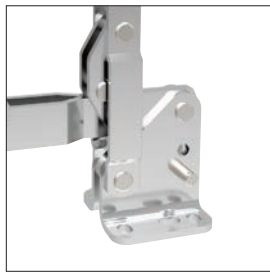


Cmm's

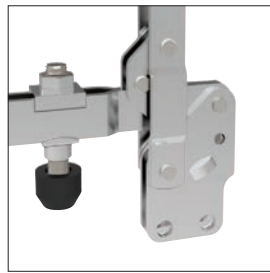




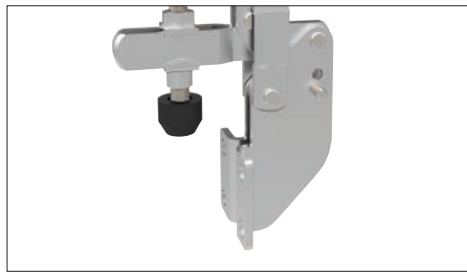
STEEL TOGGLE CLAMPS



Horizontal base



Vertical base



Angled base

Mounting Base Variations



Vertical acting



Horizontal acting



Push-pull

Clamping Variations



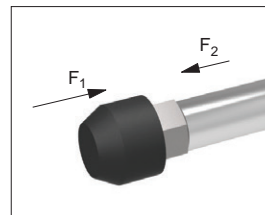
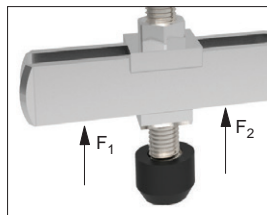
Hook type



Latch type

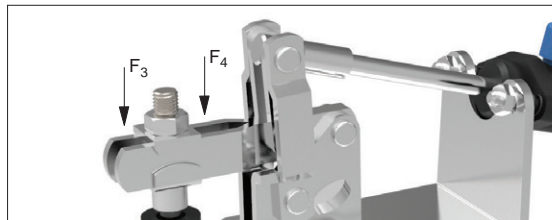
Explanation of forces

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, F_1 and F_2 are provided).



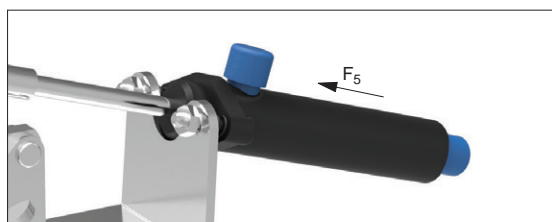
Holding Forces F_1 or F_2

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 F_3 or F_4

For pneumatically controlled toggle clamps only, F_5 is the piston force required (at 6 bar to) achieve the stated clamping force.



Piston Forces F_5

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Quality Features



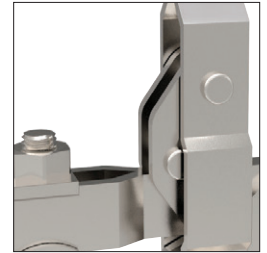
Ergonomic soft grip
2-component handle



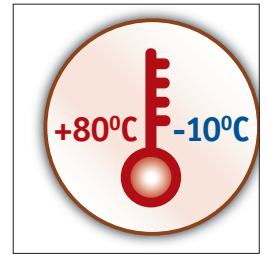
Stainless rivets and
hardened bushings



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.