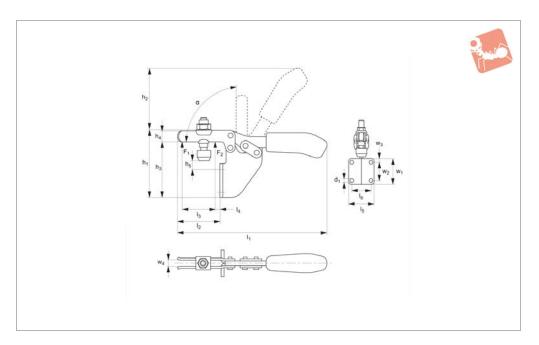


Horizontal Acting Toggle Clamps open arm - angle base





41100

Material

Body: steel, zinc plated. Rivets: stainless steel running in hardened bushes (sizes 2-3). Pre-lubricated bearings (grease suitable for food industry use).
Ergonomic, soft feel, oil-resistant handle with large grip area.
Supplied complete with clamping screw (with rubber pad).

Technical Notes

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.	Weight g
41100.W0001	1	0.8	1.1	M 5x30		68.0	49	57	10.0	14	20.0	170
41100.W0002	2	1.0	1.2	M 6x35		94.0	68	73	13.2	22	29.5	245
41100.W0003	3	1.8	2.5	M 8x45		86.5	86	70	15.0	5	16.0	390
41100.W0004	4	2.0	3.0	M 8x65		133.0	120	102	20.0	11	40.0	730
Order No.	I_1	I_2	l ₃	I ₄	I ₅	I ₆	w_1	W_2	w_3	w_4	d_1	α
41100.W0001	120	32	18.5	4.0	31.0	19.0	28	13.5	8	5.0	5.2	90°
41100.W0002	162	52	32.0	10.5	37.0	25.5	32	20.0	6	6.2	5.6	90°
41100.W0003	206	59	37.0	6.5	42.5	28.5	38	24.0	7	8.0	6.8	90°
41100.W0004	282	93	63.0	15.0	52.0	32.0	82	32.0	40	10.0	8.5	90°
	206	59	37.0	6.5	42.5	28.5	38	24.0	7	8.0	6.8	90°

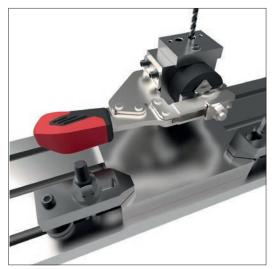


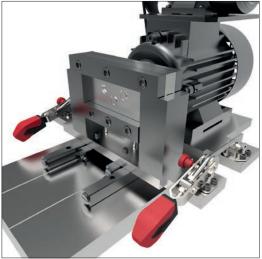
Welding Fixtures





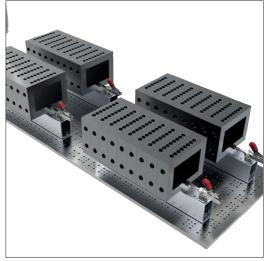
Machining and Jig Assemblies





Cmm's





Wixroyd Toggle Clamps

overview



Vertical base



Angled base

Clamping Variations



Vertical acting



Horizontal acting



Push-pull



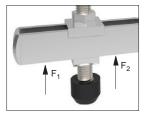
Hook type



Latch type

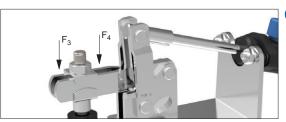
Explanation of forces

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).



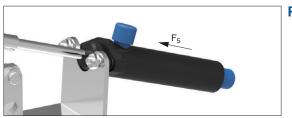
Holding Forces F₁ or F₂

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

STEEL TOGGLE CLAMPS



overview

Ergonomic soft grip 2-component handle



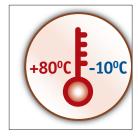
Stainless rivets and hardened bushings



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.