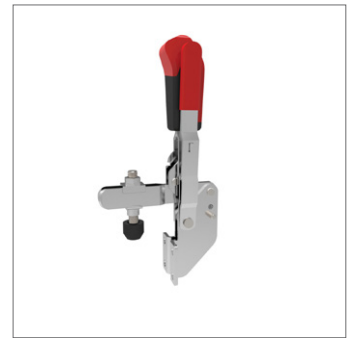
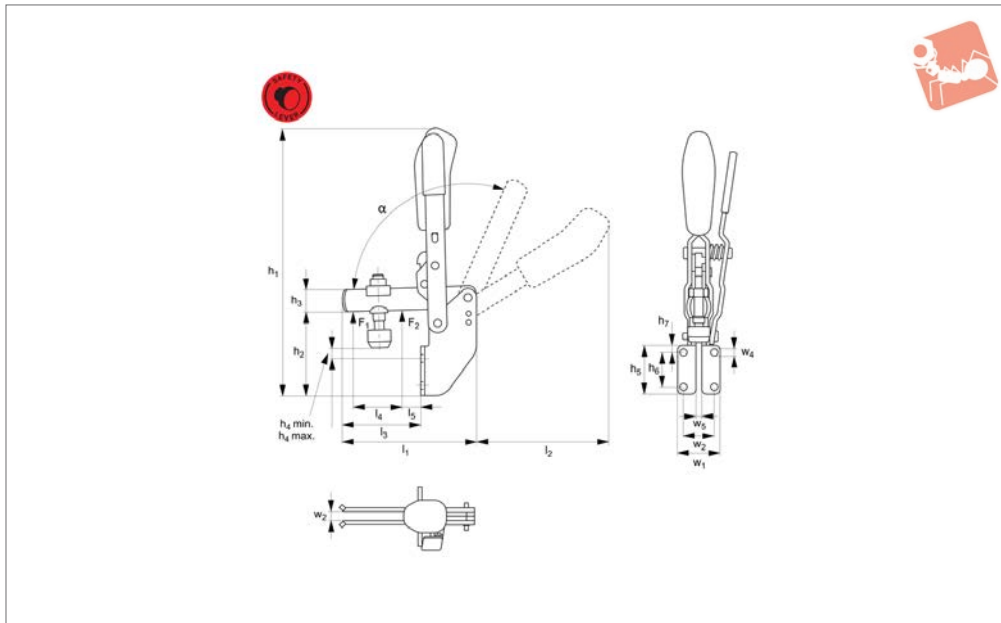




Vertical Acting Toggle Clamps

safety lever - open arm - angle base

Safety Lever Toggle Clamps



40120

SAFETY LEVER 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 clamping screw (with rubber pad).

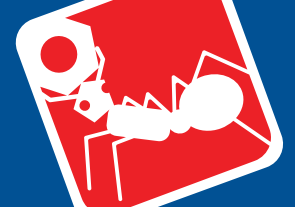
Technical Notes

Ideal for side mounting. The safety lever holds the clamp in both the open and the closed position. This

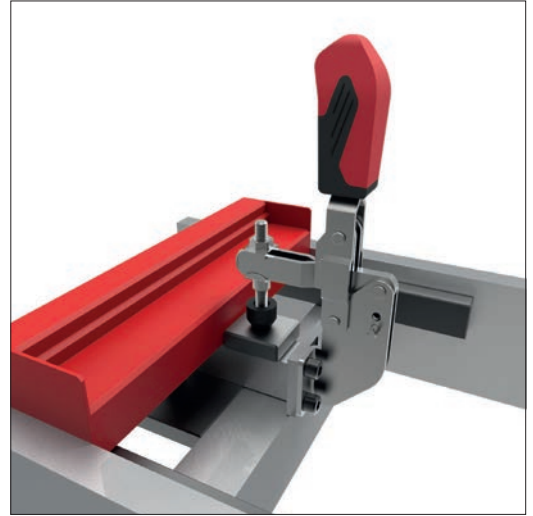
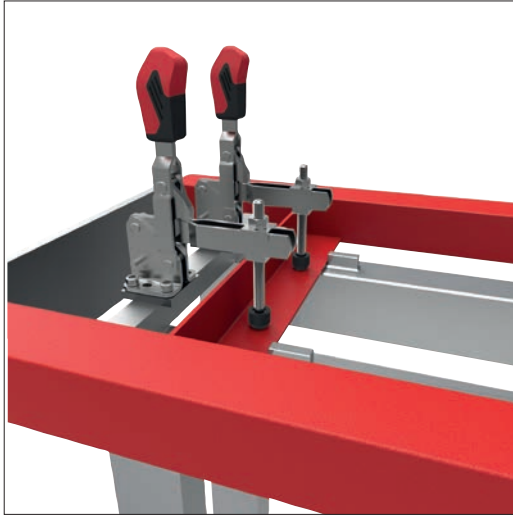
prevents opening under vibration or inadvertent movement of the clamping arm when loading or unloading a fixture. Opening angle (symbol α /symbol α /symbol α /symbol α *) can be changed by pressing in a stop pin on the clamp body. Temperature range -10°C to +80°C.

Order No.	Size	F ₁ kN	F ₂ kN	Clamping screw	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	h ₅	h ₆	h ₇	Weight g
40120.W0002	2	1.0	1.2	M 6x35	176.5	60.0	12	8	15.5	32	20	6	250
40120.W0003	3	1.4	2.5	M 8x45	223.0	71.0	18	9	17.5	38	24	7	535
40120.W0004	4	2.0	3.0	M 8x65	280.0	101.5	20	11	39.5	96	32	54	750

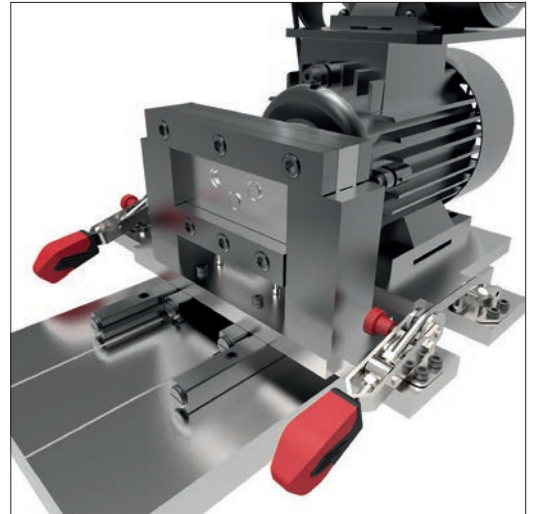
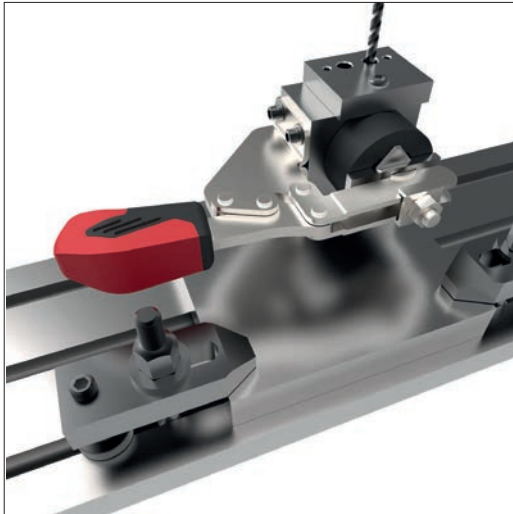
Order No.	l ₁	l ₂	l ₃	l ₄	l ₅	w ₁	w ₂	w ₃	w ₄	w ₅	α	α^*
40120.W0002	77	90	41	25	6	37.0	6	25.5	6.1	5	105°	60°
40120.W0003	110	112	62	37	11	42.5	8	28.5	6.5	6	105°	60°
40120.W0004	141	129	83	54	11	52.0	10	32.0	8.5	8	105°	60°



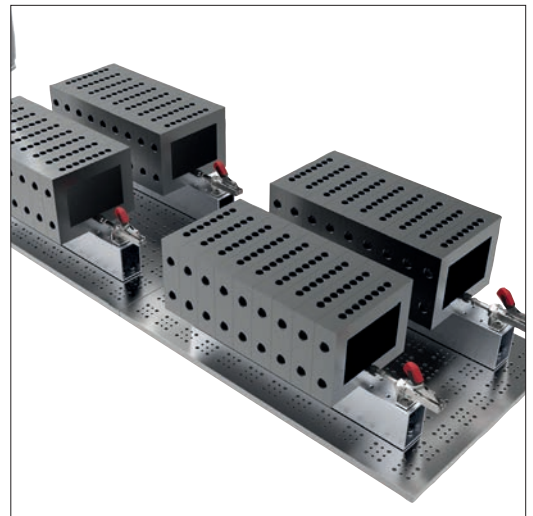
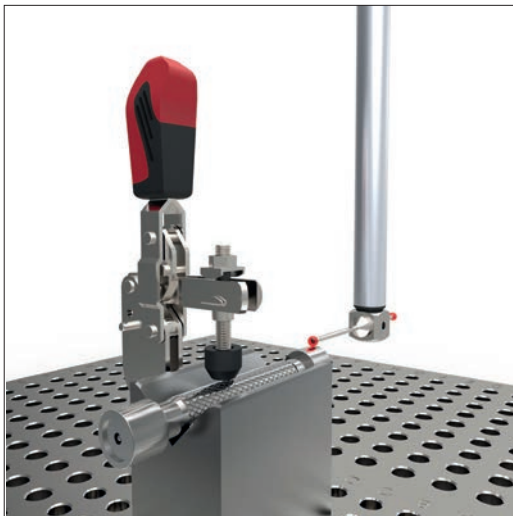
Welding Fixtures



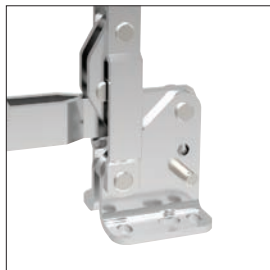
Machining and Jig Assemblies



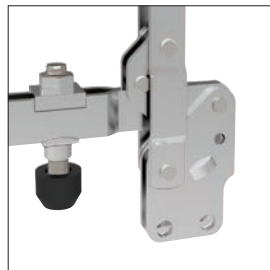
Cmm's



SAFETY LEVER TOGGLE CLAMPS



Horizontal base



Vertical base



Angled base

Mounting Base Variations



Vertical acting



Horizontal acting



Push-pull

Clamping Variations



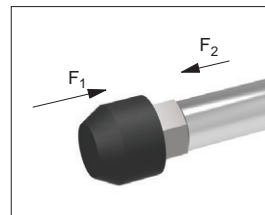
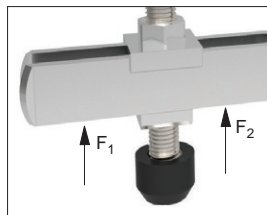
Hook type



Latch type

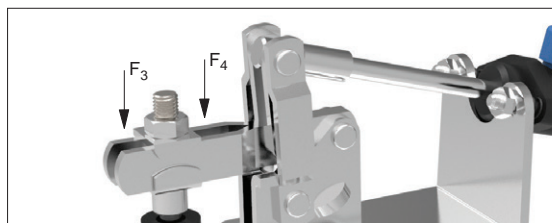
Explanation of forces

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).



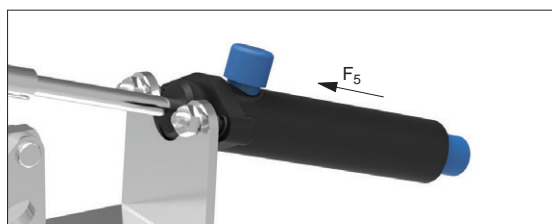
Holding Forces F_1 or F_2

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

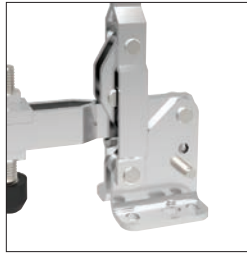
ov-W40000.1-A-T-W42070-A-T-b-rmh- Updated -27-10-2022



Quality Features



Ergonomic soft grip
2-component handle



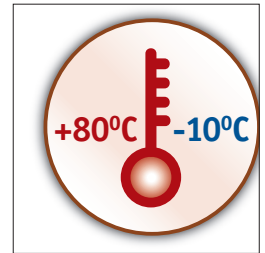
Stainless rivets and
hardened bushings



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.