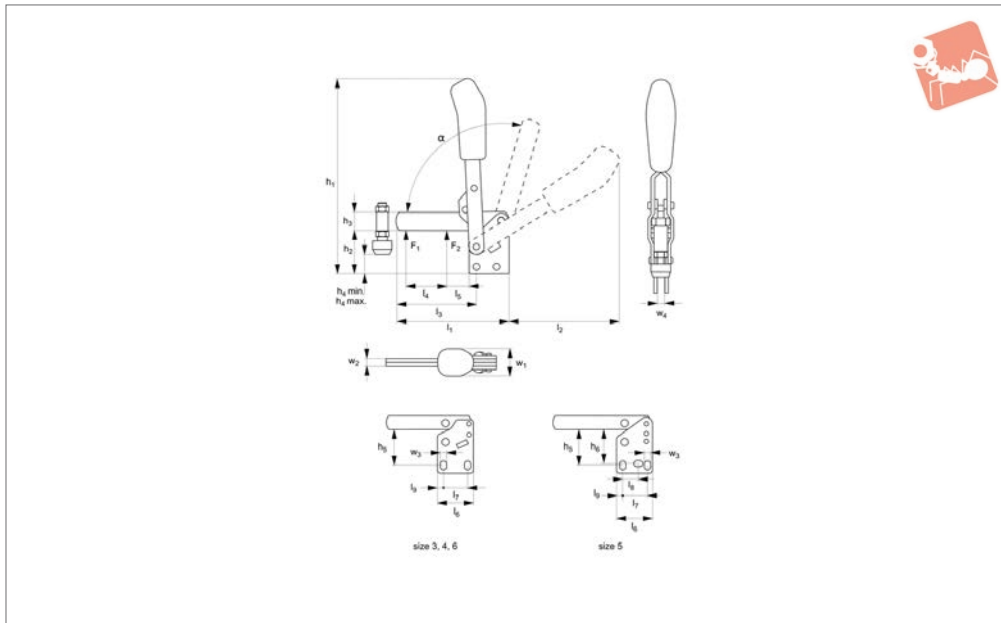


Vertical Acting Toggle Clamps

solid arm - vertical base



40250

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

For mounting to struts and for welding jigs. The arm can be shortened to suit the

workpiece, the sleeve is then welded to the arm.

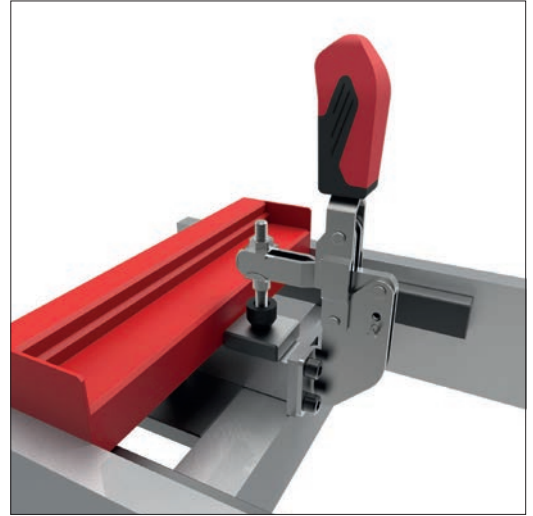
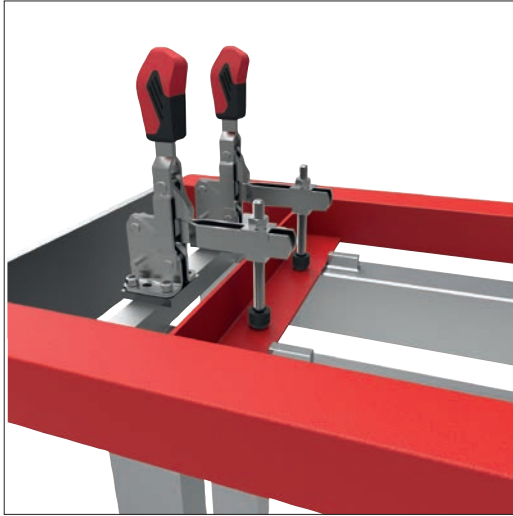
Opening angle (symbol α /symbol α /symbol α /symbol α *) can be changed by pressing in a stop pin on the clamp body.
 Temperature range -10°C to +80°C.

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	l ₁	l ₂	Weight g
40250.W0003	3	1.4	2.5	M 8x45	200	48	18	14.5	26.0	41.0	-	108.5	111.0	400
40250.W0004	4	2.0	3.0	M 8x65	244	65	20	13.0	44.0	55.5	-	141.5	129.5	585
40250.W0005	5	3.0	5.0	M12x80	302	77	25	15.0	47.0	66.0	64	196.5	184.0	1480
40250.W0006	6	3.5	5.5	M12x110	369	117	30	28.5	86.5	102.0	-	232.0	206.0	2200

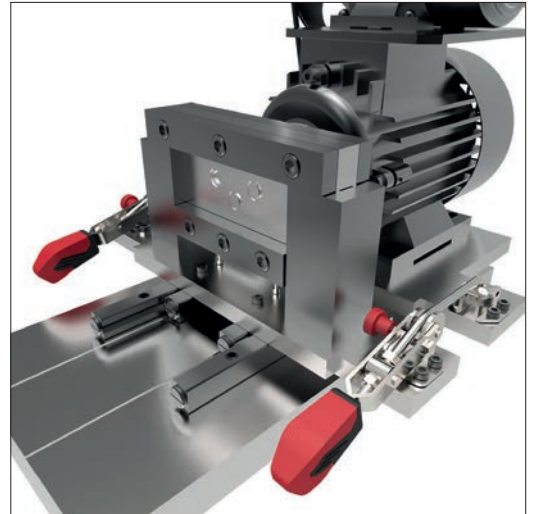
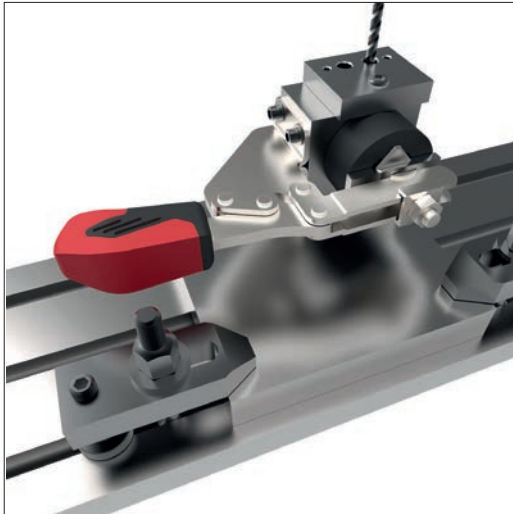
Order No.	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉	w ₁	w ₂	w ₃	w ₄	α	α^*
40250.W0003	81.0	43	19.5	35	20.0	-	7.5	27	6	7.5	6	105°	60°
40250.W0004	101.0	61	17.0	53	32.0	-	13.0	34	8	8.6	8	105°	60°
40250.W0005	141.0	88	30.5	65	45.0	26,5-31,5	9.5	36	10	8.5	10	115°	60°
40250.W0006	166.5	90	20.5	90	50.5	-	24.5	39	10	13.0	10	140°	60°



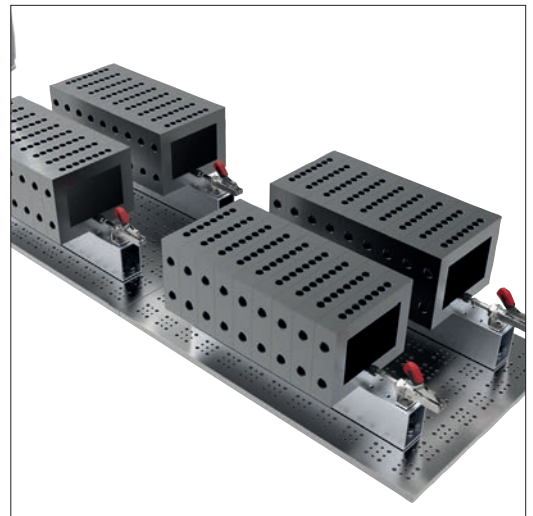
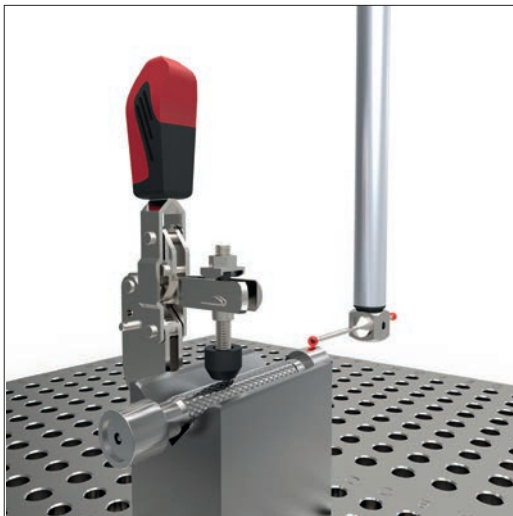
Welding Fixtures



Machining and Jig Assemblies

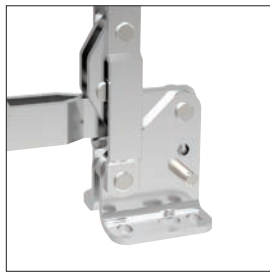


Cmm's

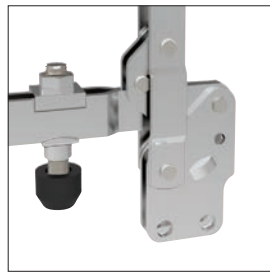




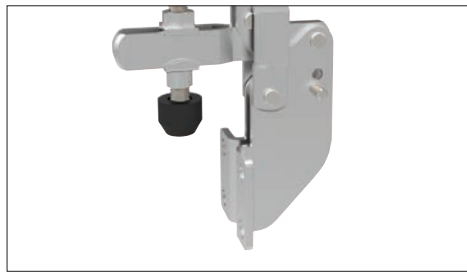
STEEL TOGGLE CLAMPS



Horizontal base



Vertical base



Angled base

Mounting Base Variations



Vertical acting



Horizontal acting



Push-pull

Clamping Variations



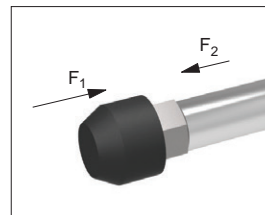
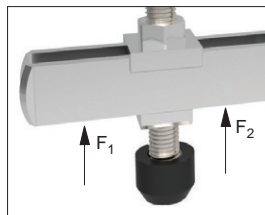
Hook type



Latch type

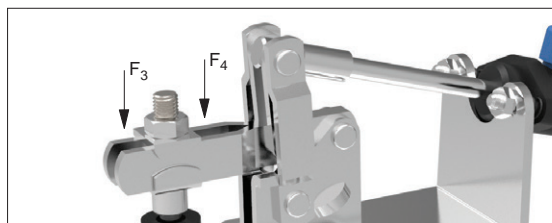
Explanation of forces

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).



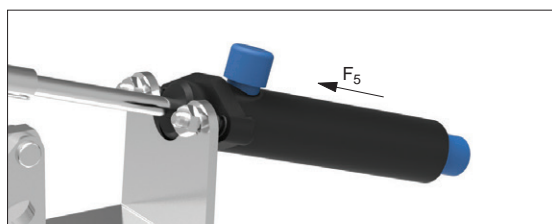
Holding Forces F_1 or F_2

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.



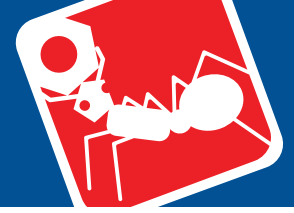
Clamping Forces F_3 or F_4

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

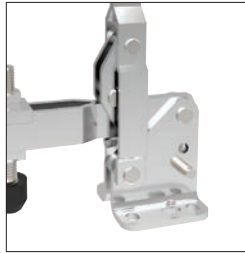
ov-W40000.1-A-T-W42070-A-T-b-rmh- Updated -27-10-2022



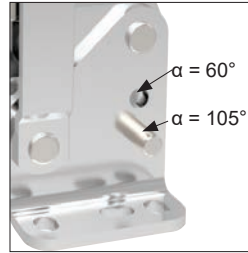
Quality Features



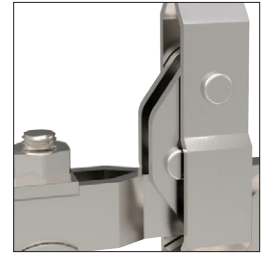
Ergonomic soft grip
2-component handle



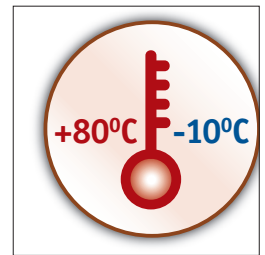
Stainless rivets and
hardened bushings



Moveable stop for
variable opening angle



Operator
finger protection



Temperature resistant

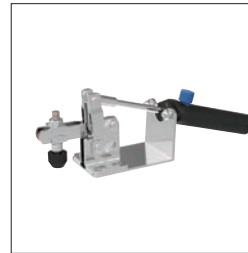
Unique Features



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.