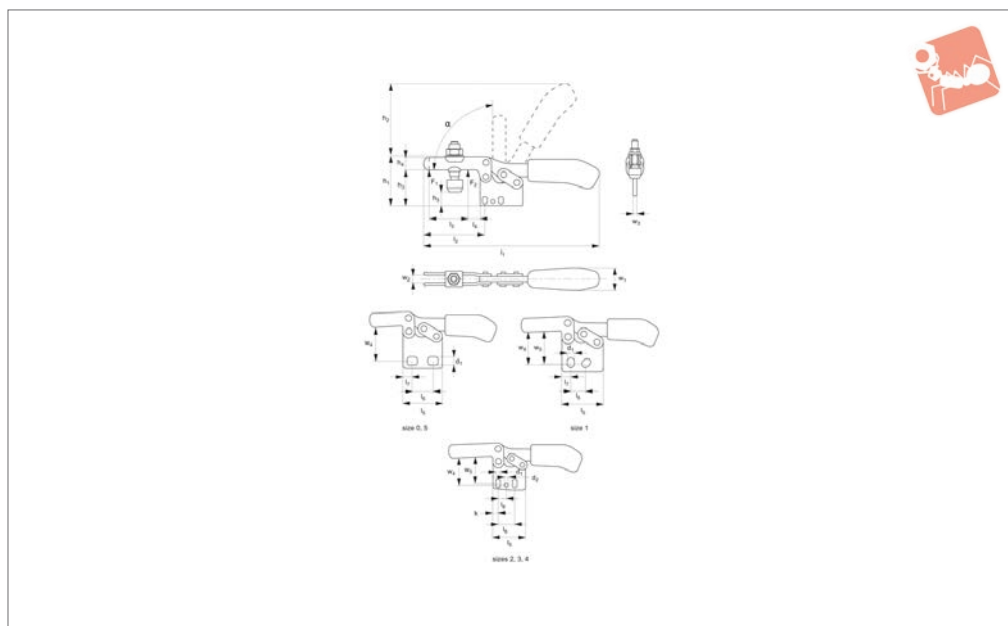


Horizontal Acting Toggle Clamps

open arm - vertical base



41050.1

STEEL TOGGLE CLAMPS

Material

Body: steel, zinc plated.
Rivets: stainless steel running in hardened bushes (sizes 2-5).
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

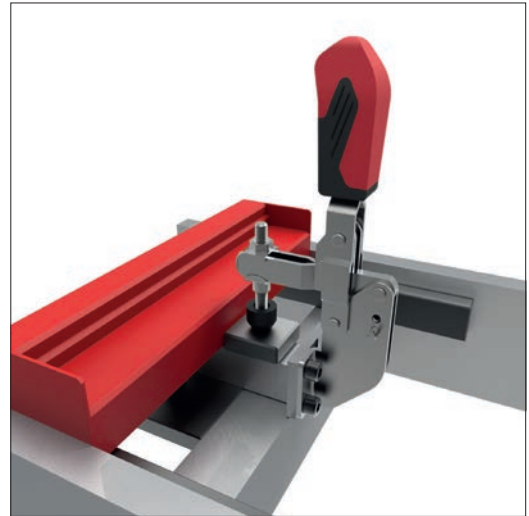
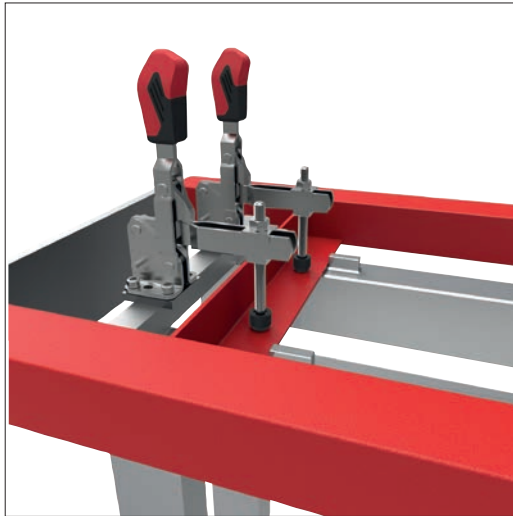
Temperature range -10°C to +80°C.

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.	l ₁	l ₂	Weight g
41050.W0000	0	0.3	0.4	M 4x25	33.0	34	24.5	7.5	4.7	10.7	79	28	35
41050.W0001	1	0.8	1.1	M 5x30	43.0	49	31.5	10.0	8.0	15.0	120	42	105
41050.W0002	2	1.0	1.2	M 6x35	61.0	68	40.0	13.2	15.0	22.0	164	64	185
41050.W0003	3	1.8	2.5	M 8x45	65.0	86	49.0	15.0	14.5	26.0	206	73	320
41050.W0004	4	2.0	3.0	M 8x65	97.0	115	66.5	20.0	17.5	46.0	287	113	700
41050.W0005	5	3.0	5.0	M 8x65	92.5	128	65.0	25.0	21.5	45.0	321	123	1080

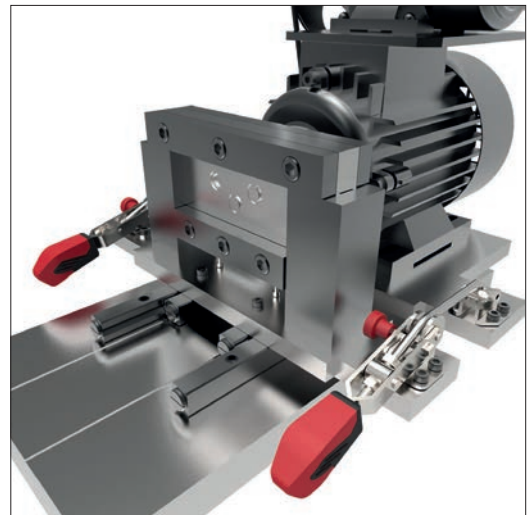
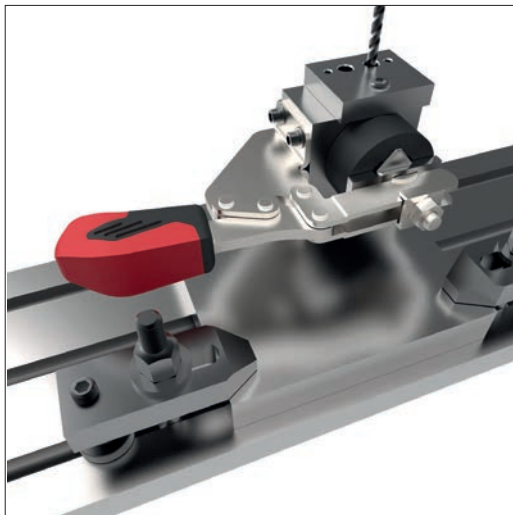
Order No.	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	w ₁	w ₂	w ₃	w ₄	w ₅	d ₁	d ₂	α
41050.W0000	9.0	5	25.5	11,5-15,5	6.3	-	12	4	20.0	-	3	4.6	-	90°
41050.W0001	18.5	8	34.0	13,0-14,5	5.5	-	18	5	23,5-25,5	24.5	5	5.2	-	90°
41050.W0002	32.0	16	38.0	26.0	6.0	12.7	21	6	29,5-34,0	34.0	5	5.6	5.6	90°
41050.W0003	38.5	14	50.0	25.7	7.0	13.0	27	8	37,5-42,5	42.0	6	6.5	5.1	90°
41050.W0004	63.0	27	57.0	41.0	8.0	20.5	34	10	52,0-59,0	59.0	8	8.5	8.5	90°
41050.W0005	78.0	16	77.0	41.5	12.5	-	36	10	57.0	-	10	8.5	-	90°



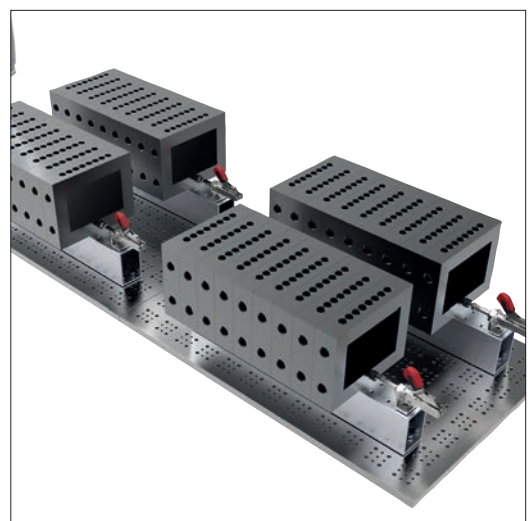
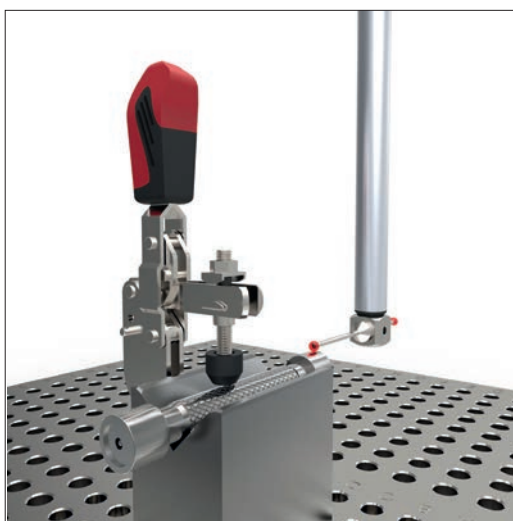
Welding Fixtures



Machining and Jig Assemblies



Cmm's

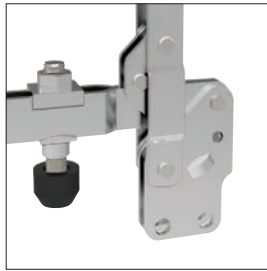




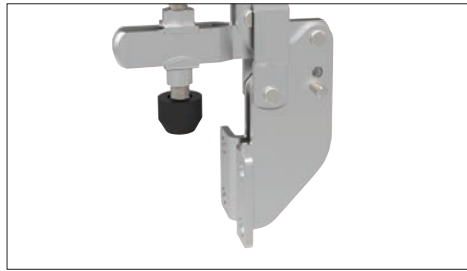
Mounting Base Variations



Horizontal base



Vertical base



Angled base

Clamping Variations



Vertical acting



Horizontal acting



Push-pull



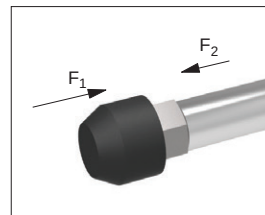
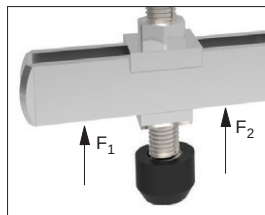
Hook type



Latch type

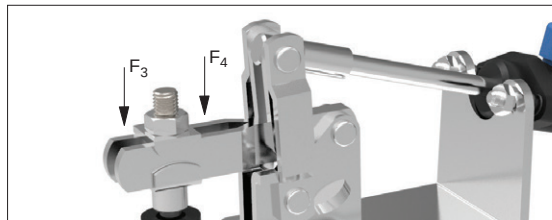
Explanation of forces

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, F_1 and F_2 are provided).



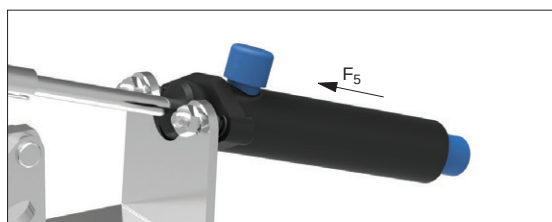
Holding Forces F_1 or F_2

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.



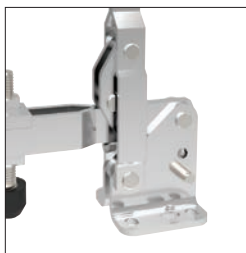
Piston Forces F_5



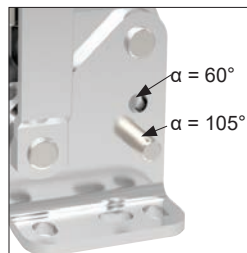
Quality Features



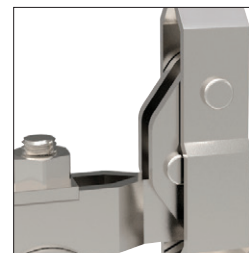
Ergonomic soft grip
2-component handle



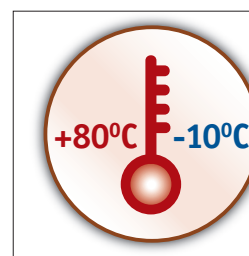
Stainless rivets and
hardened bushings



Moveable stop for
variable opening angle



Operator
finger protection



Temperature resistant

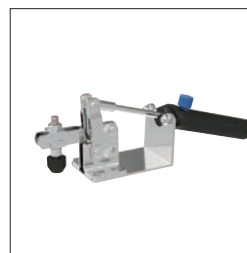
Unique Features



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.