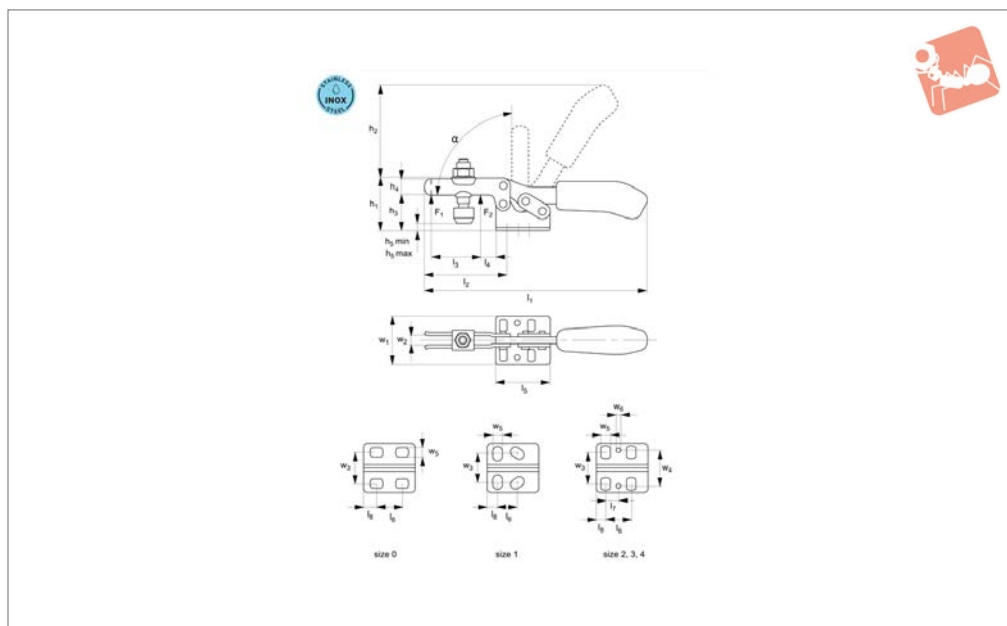




Horizontal Acting Toggle Clamps

stainless steel - open arm - horizontal base

Stainless Steel Toggle Clamps



41000.4

STAINLESS STEEL TOGGLE CLAMPS

Material

Body: stainless steel (AISI 304, 1.4301), polished.
Rivets: stainless steel running in hardened bushes (sizes 2-5). Pre-lubricated

bearings.

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

Technical Notes

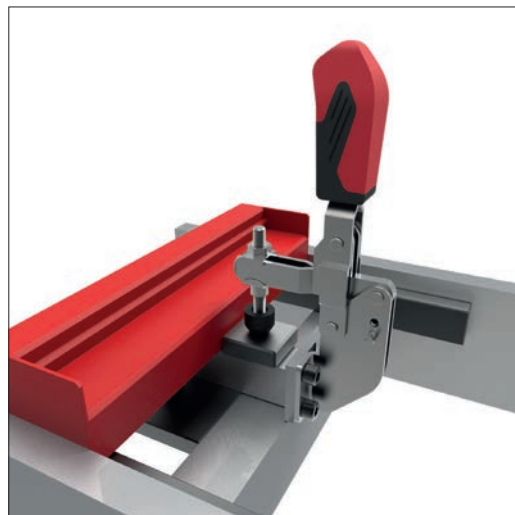
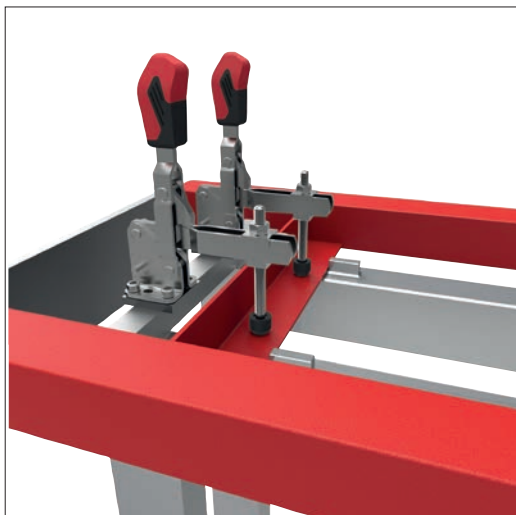
Suitable for the food industry.
Temperature range -10°C to +80°C.

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
41000.W0300	0	0.3	0.4	M 4x25	23.0	34	14.5	7.5	-5.0	0.6	79	28	35
41000.W0301	1	0.8	1.1	M 5x30	30.0	49	19.0	10.0	-4.0	2.0	120	42	105
41000.W0302	2	1.0	1.2	M 6x35	45.0	68	24.0	13.0	-1.6	5.0	162	64	185
41000.W0303	3	1.8	2.5	M 8x45	48.5	86	32.0	15.0	-2.0	9.0	206	73	320
41000.W0304	4	2.0	3.0	M 8x65	75.0	126	45.0	20.0	-4.0	24.0	287	113	700

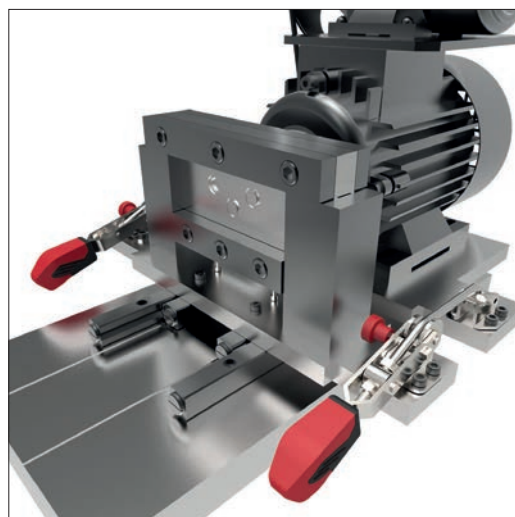
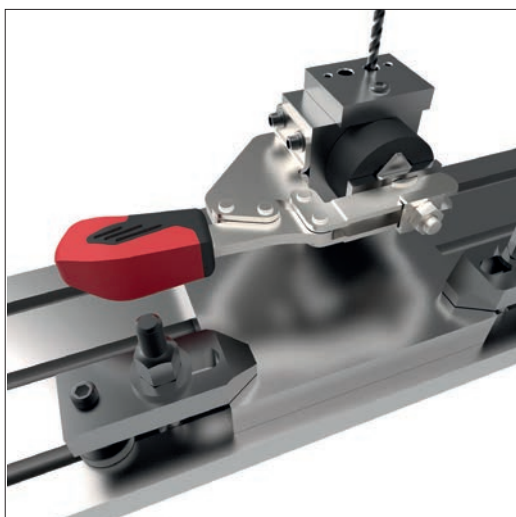
Order No.	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	w ₁	w ₂	w ₃	w ₄	w ₅	w ₆	α
41000.W0300	9.0	5	25.5	11,5-15,5	-	6.3	25.0	4	16.0	-	4.6	-	90°
41000.W0301	18.6	8	34.0	13,3-14,7	-	5.5	34.0	5	18,0-21,5	-	5.2	-	90°
41000.W0302	32.0	16	38.0	26.0	12.7	6.0	42.0	6	19,5-29,5	28.5	5.6	5.6	90°
41000.W0303	36.0	14	50.0	25.7	13.0	7.0	44.5	8	22,0-31,8	31.6	6.5	5.1	90°
41000.W0304	63.0	27	57.0	41.0	20.5	8.0	58.0	10	29,0-43,0	43.0	8.5	8.5	90°



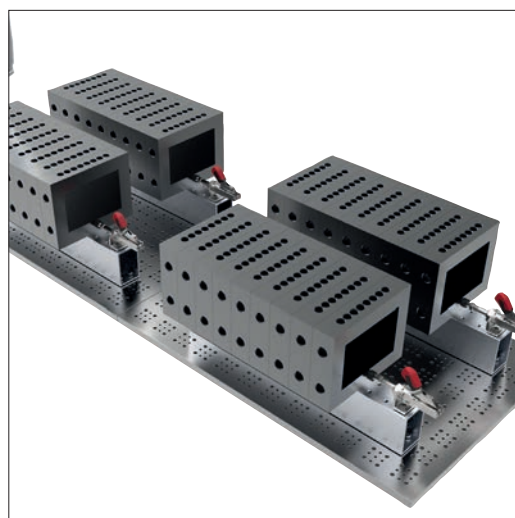
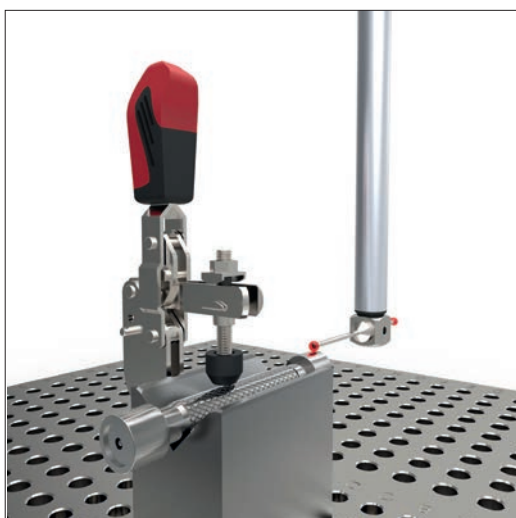
Welding Fixtures



Machining and Jig Assemblies



Cmm's

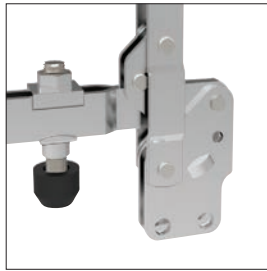




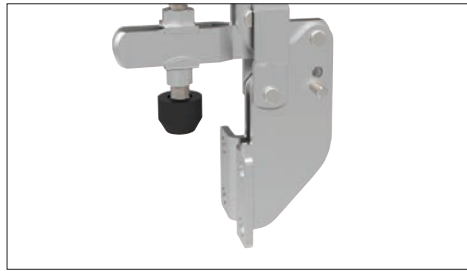
Mounting Base Variations



Horizontal base



Vertical base



Angled base

Clamping Variations



Vertical acting



Horizontal acting



Push-pull



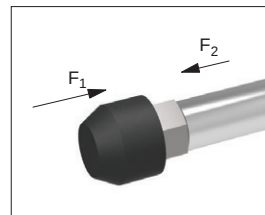
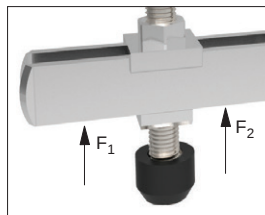
Hook type



Latch type

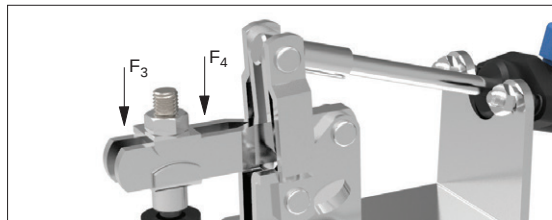
Explanation of forces

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).



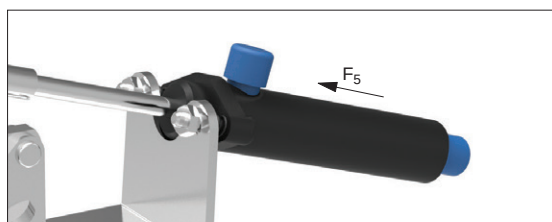
Holding Forces F_1 or F_2

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.



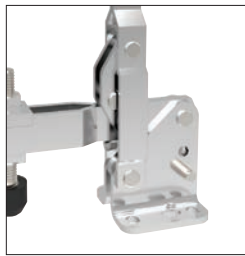
Piston Forces F_5



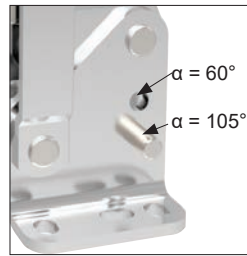
Quality Features



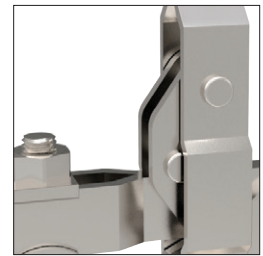
Ergonomic soft grip
2-component handle



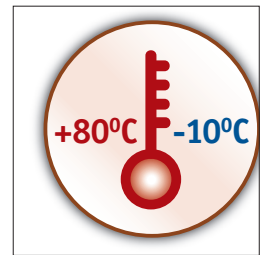
Stainless rivets and
hardened bushings



Moveable stop for
variable opening angle



Operator
finger protection



Temperature resistant

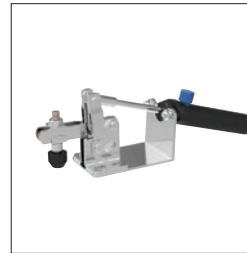
Unique Features



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.