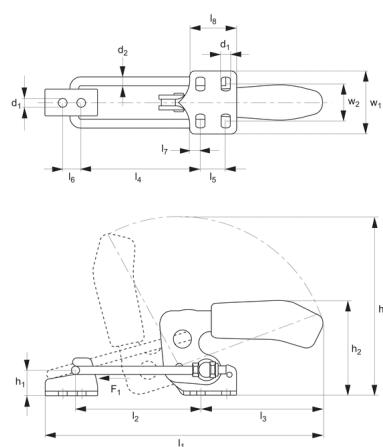


Latch Type Toggle Clamps

horizontal acting



STEEL TOGGLE CLAMPS



41801.1

Material

Body: steel, zinc-plated. Stainless steel rivets running in hardened bushes. Pre-lubricated bearings (grease suitable for food industry use). Ergonomic, soft feel, oil-resistant handle

with large grip area.

Hook: steel, tempered.

Complete with counter strike.

Tips

For stainless steel version see part no. 41811.

Technical Notes

Temperature range -10°C to +80°C.

Order No.	Size	F_1 kN	h_1	h_2	l_1 min.	l_1 max.	l_2 min.	l_2 max.	h_3	Weight g	
41801.W0002	2	1.6	12	47.0	125	159	42.0	76	99	120	
41801.W0003	3	3.2	19	70.0	169	216	53.5	101	136	330	
41801.W0004	4	7.0	26	94.5	209	273	66.0	130	168	810	
Order No.	l_3	l_4 min.	l_4 max.	l_5	l_6	l_7	l_8	w_1	w_2	d_1	d_2
41801.W0002	69	38.0	72	13	11	6.4	26.0	38.0	19,5-23,5	5.2	4
41801.W0003	93	48.6	96	19	14	8.0	35.0	48.0	24,5-32,0	6.5	6
41801.W0004	111	59.0	123	32	19	9.5	53.5	64.5	35,0-46,0	8.5	8

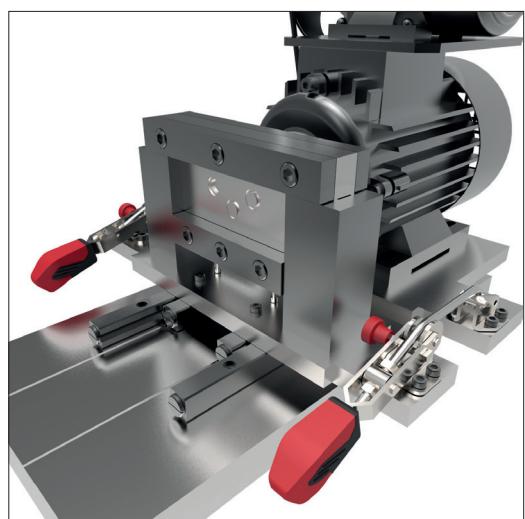
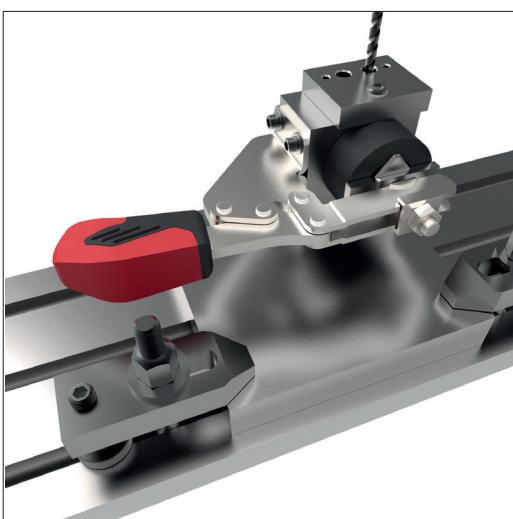


Welding Fixtures

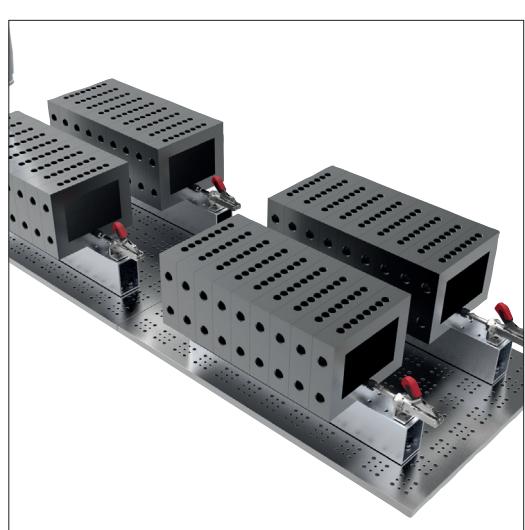
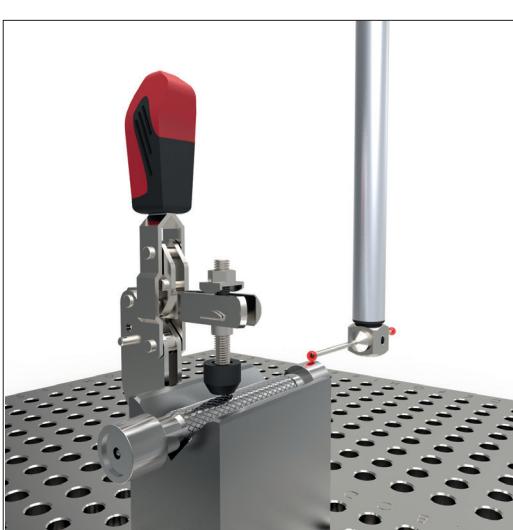
STEEL TOGGLE CLAMPS

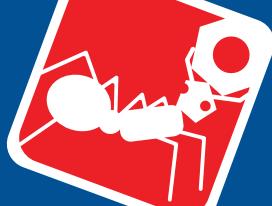


Machining and Jig Assemblies

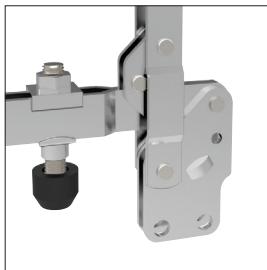


Cmm's





Horizontal base



Vertical base

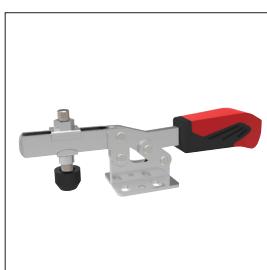


Angled base

Mounting Base Variations



Vertical acting



Horizontal acting



Push-pull

Clamping Variations



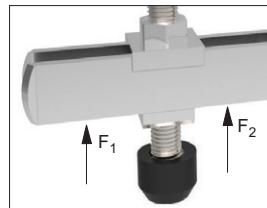
Hook type



Latch type

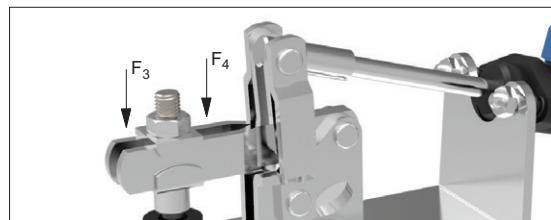
Explanation of forces

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).



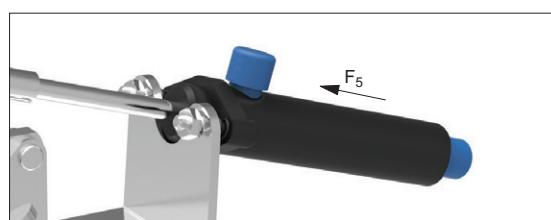
Holding Forces F_1 or F_2

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

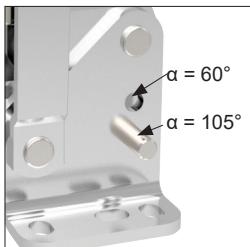
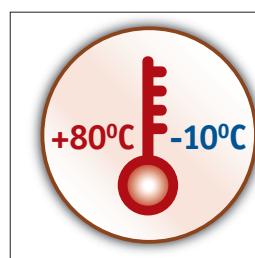
For pneumatically controlled toggle clamps only, F_5 is the piston force required (at 6 bar to) achieve the stated clamping force.



Piston Forces F_5



Quality Features

Ergonomic soft grip
2-component handleStainless rivets and
hardened bushingsMoveable stop for
variable opening angleOperator
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 coatedProtective cap and
handle made of an
electrostatic conductive
(dissipative) material.