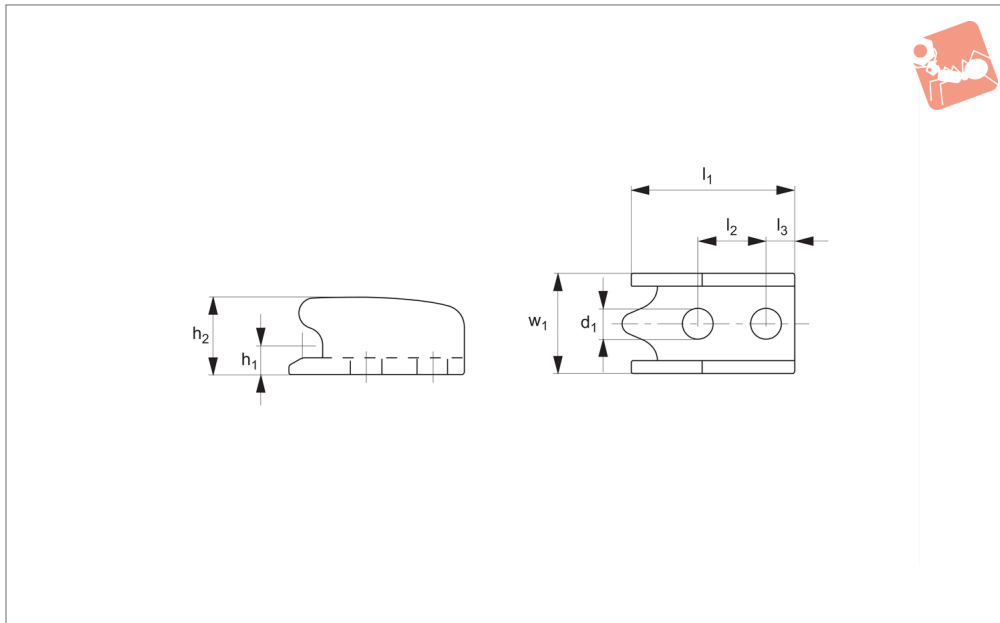




Fixed Catch

for clamp no. 41821.W0002 - .W0004.



41831.1

STEEL TOGGLE CLAMPS

Material

Steel, zinc plated.

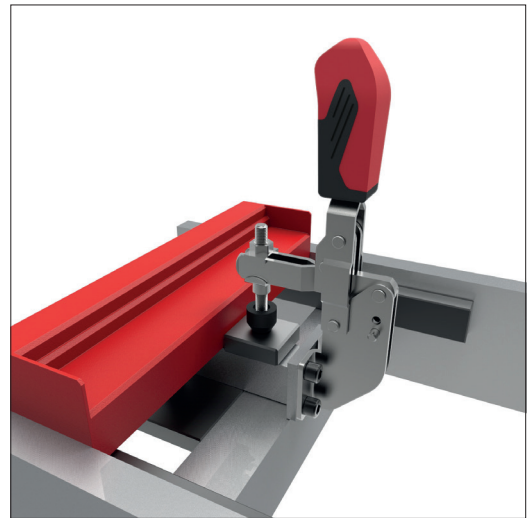
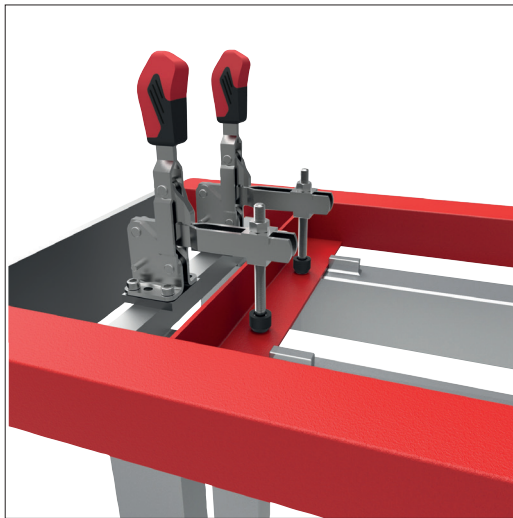
Technical Notes

For use with toggle clamp no. 41821.
W0002 - .W0004.

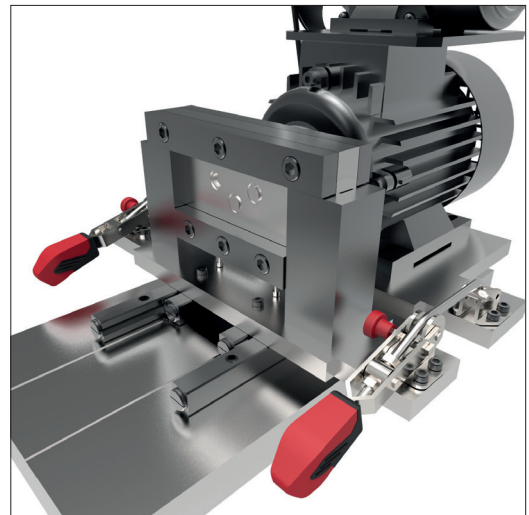
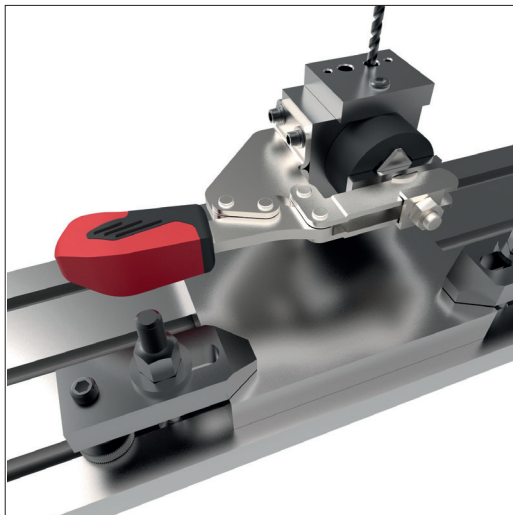
Order No.	Size	h_1	h_2	l_1	l_2	l_3	w_1	d_1	Weight g
41831.W0012	2	5	12	26	11	5	18	5.2	14
41831.W0013	3	6	16	36	14	7	23	6.5	30
41831.W0014	4	8	22	48	19	9	30	8.5	66



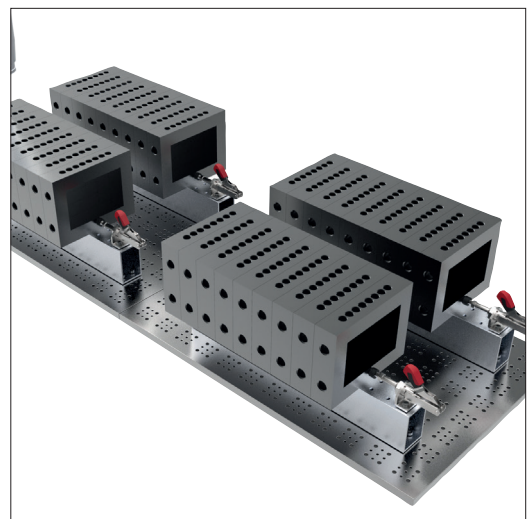
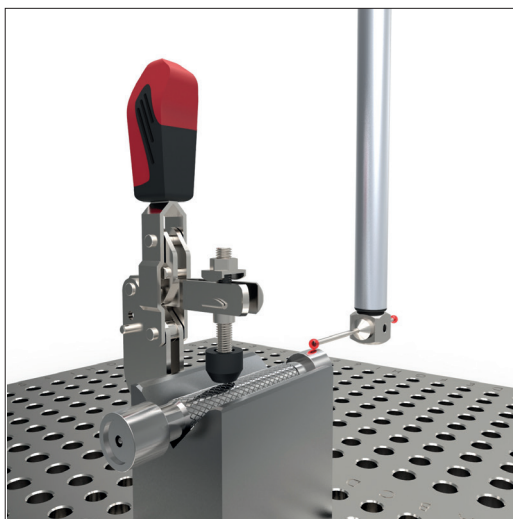
Welding Fixtures



Machining and Jig Assemblies



Cmm's

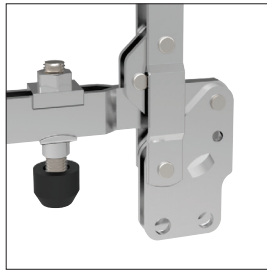




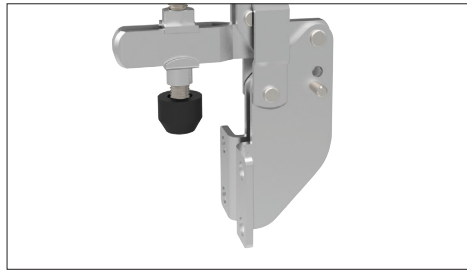
Mounting Base Variations



Horizontal base

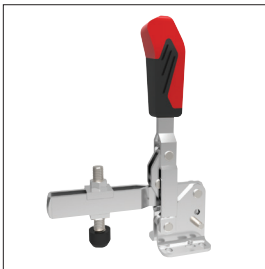


Vertical base



Angled base

Clamping Variations



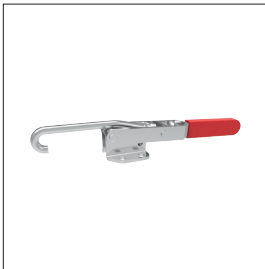
Vertical acting



Horizontal acting



Push-pull



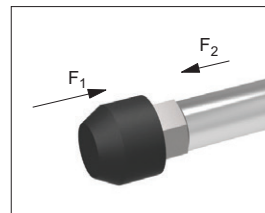
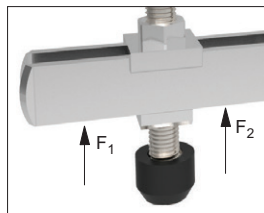
Hook type



Latch type

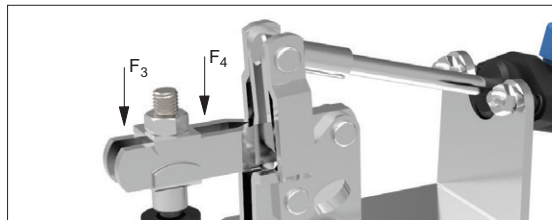
Explanation of forces

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).



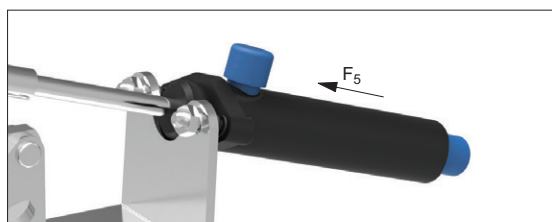
Holding Forces F_1 or F_2

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

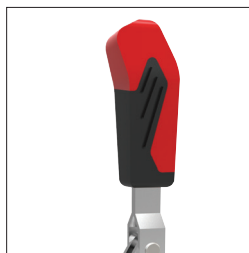
For pneumatically controlled toggle clamps only, F_5 is the piston force required (at 6 bar to) achieve the stated clamping force.



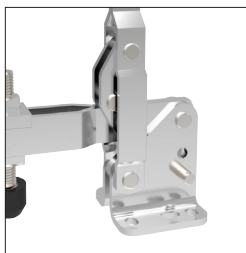
Piston Forces F_5



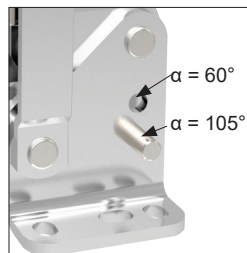
Quality Features



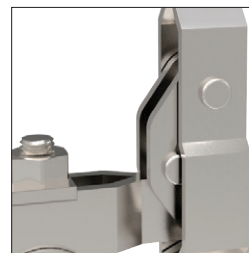
Ergonomic soft grip
2-component handle



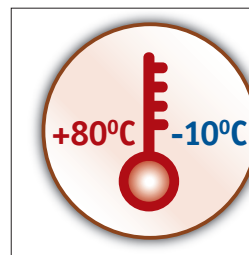
Stainless rivets and
hardened bushings



Moveable stop for
variable opening angle



Operator
finger protection



Temperature resistant

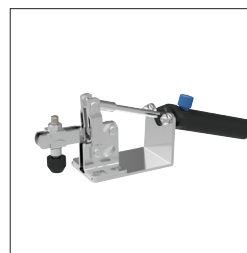
Unique Features



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.