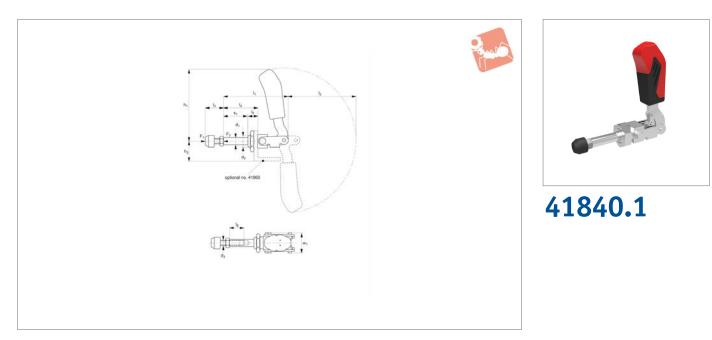


# Push-Pull Toggle Clamps

compact version

# 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 clamping screw (with rubber pad).

#### **Technical Notes**

Compact construction with long travel.

Temperature range -10°C to +80°C.

#### Tips

For stainless steel version see part no. 41840.W0002- .W0005.

Order No.	Size	Clamping screw	F <sub>1</sub>	F <sub>2</sub> kN	$d_1$	d <sub>2</sub>	d <sub>3</sub>	$h_1$	h <sub>2</sub>	Weight
			kN	KIN						g
41840.W0002	2	M 6x25	1.0	1.0	10	M16x1,5	M 6	73	24	130
41840.W0003	3	M 8x35	2.5	2.5	12	M20x1,5	M 8	123	33	320
41840.W0005	5	M12x50	4.0	4.0	16	M24x1,5	M12	149	37	1200
41840.W0006	5-M27	M12x50	4.0	4.0	16	M27x2,0	M12	149	37	1200
Order No.	$I_1$	I <sub>2</sub>	l <sub>3</sub> min.	l <sub>3</sub> max.	I <sub>4</sub>	I <sub>5</sub>	I <sub>6</sub>	$w_1$		$Stroke \; s_1$
41840.W0002	68.5	68	17	25	36	13	15	30.5		21.5
41840.W0003	108.5	115	22	35	57	16	25	33.0		40.0
41840.W0005	175.0	139	30	50	92	24	45	49.0		67.0
41840.W0006	175.0	139	30	50	92	24	45	49.0		67.0



# **Toggle Clamps**

# Wixroyd Toggle Clamps



## **Welding Fixtures**





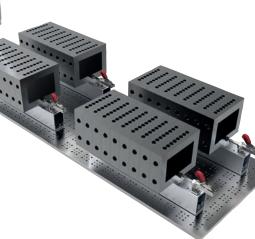
Machining and Jig Assemblies





Cmm's







wixroyd.com



## Wixroyd Toggle Clamps

overview

# **Toggle Clamps**







## **Mounting Base** Variations

**Clamping Variations** 

Horizontal base

Vertical base

Angled base



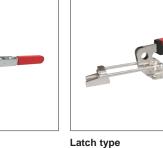


Horizontal acting





Vertical acting





Push-pull

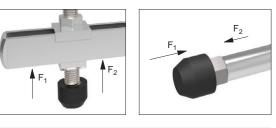


## **Explanation of forces**

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, F1 and F2 are provided).

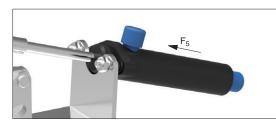
The force applied to the workpiece when the toggle clamp's arm is closed. These clamping forces can only be stated for pneumatic toggle clamps, clamping forces of manual clamps cannot be easily measured as they are dependent upon the operator.

For pneumatically controlled toggle clamps only, F5 is the piston force required (at 6 bar to) achieve the stated clamping force.



## Holding Forces F1 or F2

Clamping Forces F3 or F4



#### Piston Forces F5





sales@wixroyd.com

# **Toggle Clamps**

## Wixroyd Toggle Clamps

overview



#### **Quality Features**



Ergonomic soft grip 2-component handle



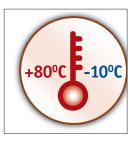
Stainless rivets and hardened bushings



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.

