# **Vertical Toggle Clamps** • with vertical base and safety lock EH 23330.



#### **Product Description**

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide rang of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components. The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

### **Material**

#### Clamp

 Steel, zinc-plated by galvanization, passivated

# Rivet

- Stainless steel
- Handle

#### plastic

- **Clamping screw**
- Steel, tempered, zinc-plated by galvanization

#### **Clamping cap**

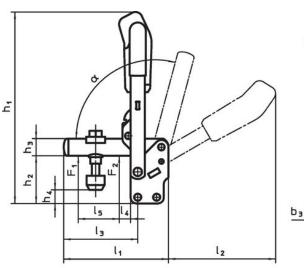
- · Rubber, black
- Plastic cap
- PVC, black

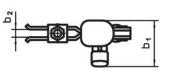
#### More information

#### References

Replacement clamping screws are available as accessories in the online shop.

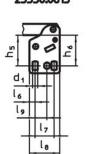
#### Drawing

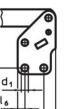






23330.0613

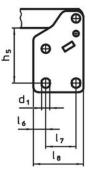




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23330.0614



23330.0615

## Order information

Nominal size	Clamping screw	Dimensions   d1 b1 b2 b3 h1 h2 h3 h4 h4 h5 h6 l1 l2 l3 l4 l5 l6 l7 l8 l9													Hold for F1	ding rce F <sub>2</sub>	α	ا min.i			Art. No.							
	[mm]										[mm]											[k	N]		[°C	)	[g]	
Steel																												
3	M6 x 35	5.5	38	6	5	154	38	12	11.5	19.5	28.5 – 32	30	78	89	52	11	25	6.0	20	32	12.5	1.0	1.2	95°	-10	80	237	23330.0613
4	M8 x 45	7.5	48	8	6	200	48	18	10.0	18.5	41.0	-	111	114	79	19	37	7.5	20	40	-	1.4	2.5	105°	-10	80	484	23330.0614
5	M8 x 65	8.6	53	10	8	244	65	20	16.5	45.5	55.5	-	141	130	101	16	54	13.0	32	53	-	2.0	3.0	105°	-10	80	776	23330.0615

## Accessories

	d <sub>2</sub>	۲۵ ۲	Art. No.						
	[mm]	[9]							
Clamping screw (spare part of toggle clamp)									
	M6 x 35	16	23330.9003						
	M8 x 45	38	23330.9005						
	M8 x 65	57	23330.9006						

## Compliance

For detailed compliance information please select the desired article number.