# **Down-Thrust Clamps** • swivelling, size 40 EH 23310.



#### **Product Description**

Universal mechanical clamping element for fast and comfortable changing and clamping of workpieces by means of manually swivelling clamping claw.

The clamps have the following advantages:

· Case-hardened steel, case-hardened,

Alloyed case-hardened steel, case-

· Zinc die-cast, plastic coated, orange similar

blackened and ground

hardened, blackened

to RAL 2004, matt structure

- Rapid manual clamping by means of clamping screw, adjustable clamping lever, or double eccentric lever.
- Easy and rapid changing of workpieces by swinging away the clamping claw to the left or right. The positioning ring 23310.0350 allows infinitely variable adjustment.
- · Continuously variable setting by means of positioning ring 23310.0350.
- The use of positioning ring 23310.0350 allows a repeatable precise clamping. Here h<sub>1</sub> min. increases by at least 7 mm (stroke minus 7 mm).
- Compact design, thus only a small amount of space is required for clamping.
- · Easy adjustment even to large clamping heights due to the height adjusting cylinders.

As the force applied by the operator is not known for the versions with levers, the clamping force is given in the tables as a guide value. The average value was determined by tests.

# Material Clamp

**Tension lever** 

# Assembly

Down-thrust clamps can be attached in two ways:

- 1. in a T-slot, using a nut for T-slots DIN 508 (EH 23010.)
- 2. with the set screw directly in the mounting plate of, for example, a fixture
- The cylinder must make contact over the whole surface.

Exceeding of the clamping height is inhibited by the height limitation.

#### More information

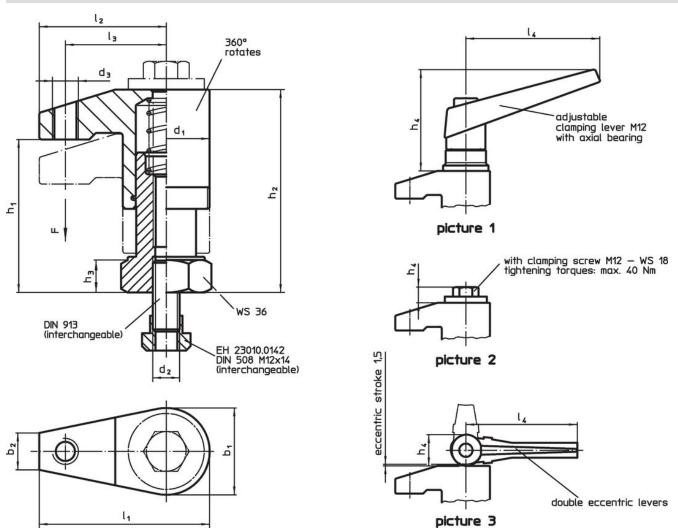
#### References

The clamping height can be increased by using height adjusting cylinders EH 23310. and disks EH 1107. and EH 1108. It can be reduced by employing clamping inserts, e.g. EH 22730.

#### **Further products**

- Positioning Rings, for down-thrust clamp
- Height Adjusting Cylinders
- Spacers
- Wrenches

# Drawing

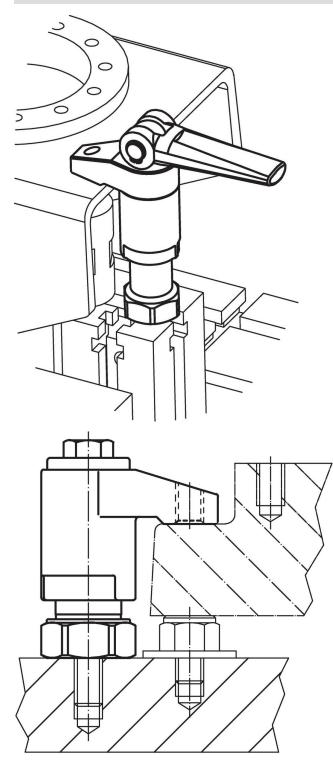


## Order information

Dimensions													Stroke	Clamping	Tightening	<b>I</b>	Art. No.
d <sub>1</sub>	b <sub>1</sub>	b <sub>2</sub>	d <sub>2</sub>	d <sub>3</sub>	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	I <sub>1</sub>	l <sub>2</sub>	I <sub>3</sub>	I <sub>4</sub>		force	torque	_	
															max.		
[mm]													[mm]	[kN]	[Nm]	[g]	
with adjustable clamping lever with axial bearing – picture 1																	
40	40	17	M12	M12	50 - 70	73 - 93	15	82	75	55	43	108	20	6 <sup>1)</sup>	-	1194	23310.0050
40	40	17	M12	M12	68 - 98	91 – 121	15	82	75	55	43	108	30	6 <sup>1)</sup>	-	1359	23310.0053
40	40	17	M12	M12	95 – 135	118 – 158	22	82	75	55	43	108	40	6 <sup>1)</sup>	-	1639	23310.0056
with clamping screw – picture 2																	
40	40	17	M12	M12	50 - 70	73 - 93	15	13	75	55	43	-	20	10	40	853	23310.0051
40	40	17	M12	M12	68 - 98	91 – 121	15	13	75	55	43	-	30	10	40	964	23310.0054
40	40	17	M12	M12	95 – 135	118 – 158	22	13	75	55	43	-	40	10	40	1266	23310.0057
with d	ouble	eccentr	ic levers	– picture	9 3												
40	40	17	M12	M12	50 - 70	73 - 93	15	28	75	55	43	100	20	4 <sup>1)</sup>	-	1213	23310.0052
40	40	17	M12	M12	68 - 98	91 – 121	15	28	75	55	43	100	30	4 <sup>1)</sup>	-	1370	23310.0055
40	40	17	M12	M12	95 – 135	118 – 158	22	28	75	55	43	100	40	4 <sup>1)</sup>	-	1616	23310.0058

<sup>1)</sup> Average value established in trials.

# Application example



## Compliance

## **RoHS compliant**

Contains lead - compliant according to exceptions 6a / 6b / 6c.

Contains SVHC substances >0,1% w/w Contains lead - SVHC list [REACH] as of 27.06.2024.

#### **Contains Proposition 65 substances**

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Lead can cause cancer and reproductive harm from exposure https://www.P65Warnings.ca.gov/

#### Free from Conflict Minerals

This product does not contain any substances designated as "conflict minerals" such as tantalum, tin, gold or tungsten from the Democratic Republic of Congo or adjacent countries.

