# **Centering Clamping Elements •** with clamping balls, operation from the bottom 23340.0338



# **Product Description**

To be used for accurate centering and clamping in blind holes of workpieces with locating hole. Exact self-centering with a precision of  $\pm 0,025$  mm. The clamping balls frictionally center and hold workpieces with raw or pre-machined surfaces down to the bearing points. Large adjustment stroke and a small building height are a feature of this center clamping element. **Mounting from either top or bottom**.

#### **Material**

## **Body**

· Tool steel, hardened, blackened

#### Spring

Stainless steel

# **Clamping balls**

Stainless steel 1.4112, hardened and ground

#### **Assembly**

Assembly instruction for mounting from above: Remove clamping plate and screw. Screw in threaded pin from below, and tighten from above using female WS<sub>2</sub>.

Further or detailed information can be found in the assembly and operating instructions.

#### **Operation**

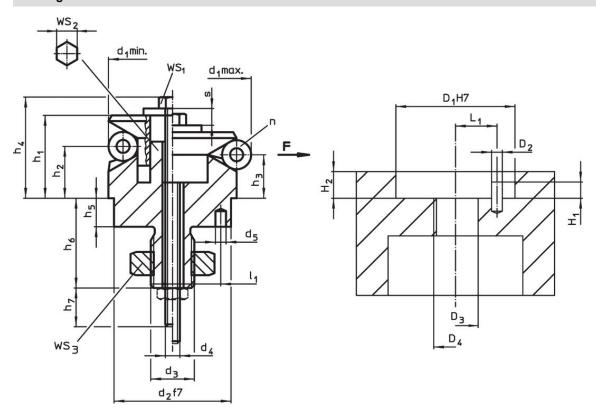
Operation from bottom manually or automatically with either pneumatic or hydraulic actuation.

#### More information

## **Further products**

- Centering Clamping Elements, with clamping segments
- Centering Clamping Elements, with clamping balls
- Centering Clamping Elements, with clamping segments, operation from the bottom

## **Drawing**





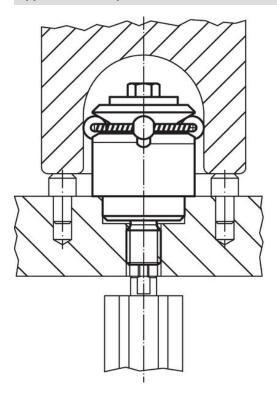
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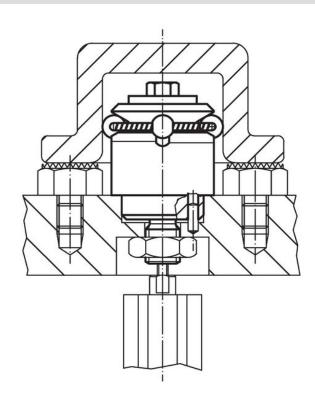
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## **Order information**

	Dimensions Nur															Stroke	ws o			ClampincTightening Location			Art. No.
	o															s				force	torque	hole	
d <sub>1</sub>	d₁	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	h <sub>5</sub>	h <sub>6</sub>	h <sub>7</sub>	l <sub>1</sub>	Ball	n		ws₁	WS <sub>2</sub>	WS <sub>3</sub>	F	max.	DDDDHHL	
min	. max	.   f7			+0.3				-2		+1	~	±0.10	liamete						max.		H: +0.	
	[mm]															[mm]	[mm]		[kN]	[Nm]	[mm] [g		
38.	46.5	30	M12	M6	4	27.1	18	15.5	33	7.5	22.5	20	11	8	6	4.6	10	8	18	6.5	17	30 <b>41/21</b> 142 <b>15.52</b> 69	9 23340.0338

# **Application example**





# Compliance

# **RoHS** compliant

Compliant according to Directive 2011/65/EU and Directive 2015/863.

## Does not contain SVHC substances

No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 23.01.2024.

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# **Does not contain Proposition 65 substances**

No Proposition 65 substances included. 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.



www.halder.fr Page 2 of 2
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