Centering Clamping Elements • with clamping balls, operation from the bottom 23340.0354



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_2 . Further or detailed information can be found in the assembly and operating instructions.

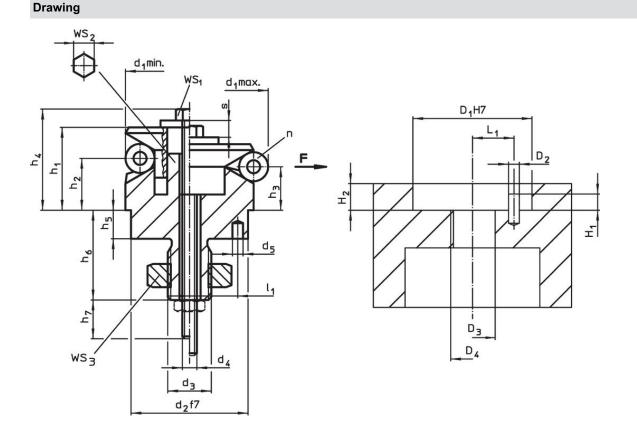
Operation

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

More information

Further products

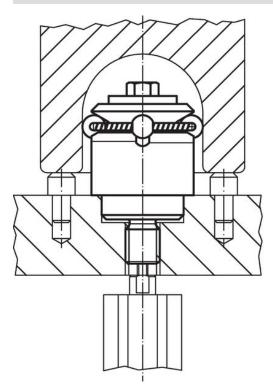
- Centering Clamping Elements, with clamping segments
- Centering Clamping Elements, with clamping balls
- Centering Clamping Elements, with clamping segments, operation from the bottom

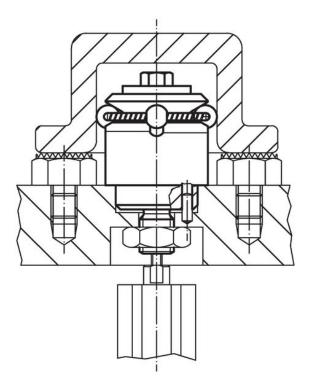


Order information

	Dimensions														Number	Stroke	e WS (Clamping	Tightening	Location	Art. No.
															of balls	s				force	torque	hole	
d₁	d ₁	d ₂	d ₃	d₄	d₅	h ₁	h ₂	h ₃	h₄	h ₅	h ₆	h ₇	I1	Ball	n		ws₁	WS ₂	WS ₃	F	max.	DDD D4 HIHL	
min.	max.	f7			+0.3	· ·	-		-2	Ŭ	+1		±0.10	liamete				-		max.	1	-H: +⊕0	
	[mm]															[mm]	n] [mm]		[kN]	[Nm]	[mm] [g		
54.5	70.5	45	M14 x 1,5	M8	5	40.6	23.7	19.1	49.9	9	24.5	32	15	16	6	9.2	13	10	21	8	43 4	45561144 ×61556750	223340.0354

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.

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.