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Centering Clamping Mandrels • cylindrical

EH 23340.



Product Description

The centering clamping mandrels, cylindrical are ideal for use in fixture construction. They enable workpieces to be clamped with a hole on their inside diameter and therefore without interfering clamping edges. The centering clamping mandrels can be mounted on grid and fixture plates, for example, by pressing them into bores or screwing them into threads.
They enable exact positioning, offer precise repeat accuracy and achieve high holding forces when clamping parts with holes. The centring clamping mandrels offer the possibility of fixing complex workpieces without external clamping elements to enable these components to be machined on 5 sides.
The centering clamping mandrels, cylindrical have the following characteristics:

- Clamping stroke max. 0.7 mm
- Two versions - for press-in or screw-in
- Made of stainless steel or free-cutting steel
- Clamping body can be machined very easily (for adaptation to bore diameter)

Material

Body

- Free cutting steel, blackened
- Stainless Steel

Clamping screw

- Steel
- Stainless Steel

Assembly

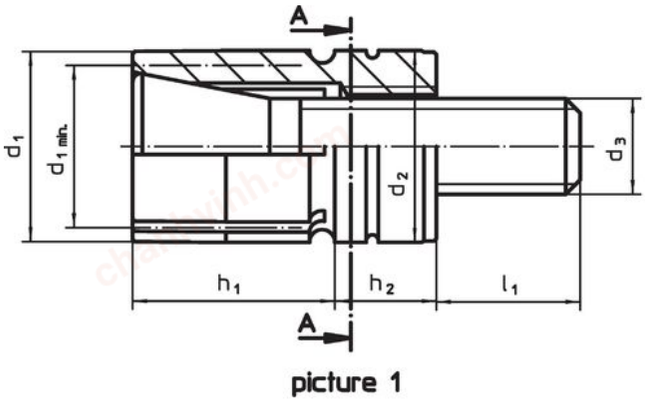
The centering clamping mandrel can be adjusted to the respective diameter by turning or milling.
We recommend a transition fit for the location hole.
Picture 1 - Mounting in bore hole or socket.
Thread for clamping screw required.
Picture 2 – Mounting in thread.
Remove the clamping screw from the body for the assembly. Srew-in centering clamping element and tighten using the wrench size (WS_2).

Operation

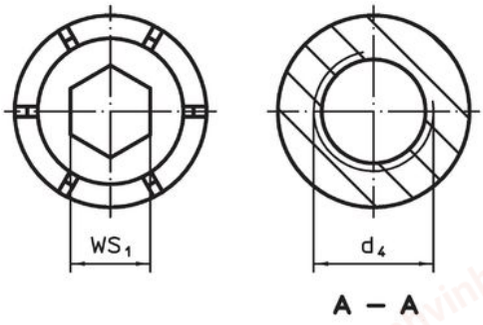
It is operated using the conical clamping screw (WS_1). This expands the body by up to 0.7 mm.

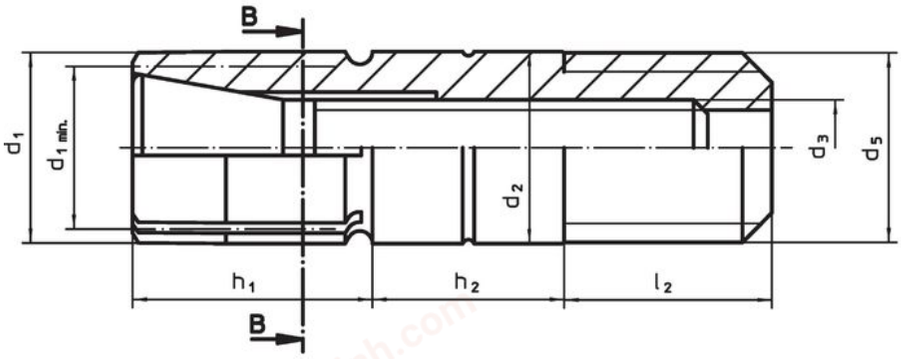
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Drawing

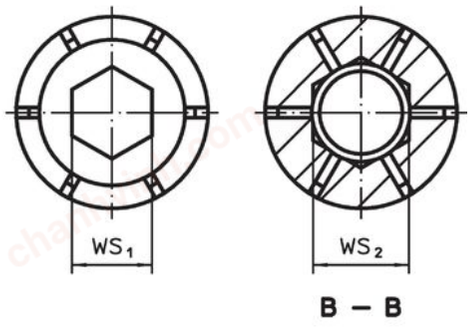


picture 1





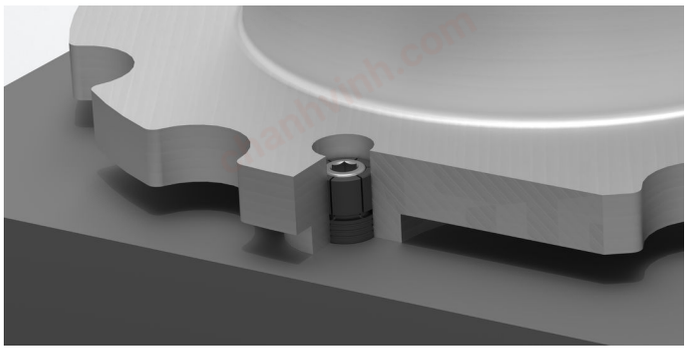
picture 2



Order information

Dimensions										WS		Number of segments	Clamping force max.	Tightening torque max.	Location hole		Art. No.
d_1	d_1 min.	d_2 h8	d_3	d_4	d_5	h_1	h_2	l_1	l_2	WS_1	WS_2						
[mm]										[mm]			[kN]	[Nm]	[mm]	[g]	
press-fit – picture 1, Free cutting steel																	
6	5.5	6	M 3	M 4	–	7.0	6.00	7.3	–	2.5	–	4	1.1	2.8	6	3.9	23340.0506
10	7.5	10	M 4	M 5	–	12.7	6.35	8.4	–	4.0	–	4	4.2	5.0	10	12.0	23340.0510
12	10.5	12	M 6	M 8	–	12.7	6.35	11.1	–	5.0	–	6	8.5	17.0	12	17.0	23340.0512
16	12.0	16	M 8	M10	–	12.7	6.35	13.0	–	6.0	–	6	11.1	34.0	16	29.0	23340.0516
20	16.0	20	M10	M12	–	14.0	8.00	13.0	–	8.0	–	6	20.0	60.0	20	51.0	23340.0520
screwable – picture 2, Stainless Steel																	
12	10.5	12	M 6	–	M12 x 1,75	15.0	12.00	–	13	5.0	6	6	8.5	17.0	–	23.0	23340.0612
16	12.0	16	M 8	–	M16 x 2	16.0	16.00	–	13	6.0	8	6	11.1	34.0	–	61.0	23340.0616

Application example



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Compliance

RoHS-compliant
Compliant with Directive 2011/65/EU [RoHS].

Does not contain SVHC substances
No SVHC substances with more than 0.1% w/w contained - SVHC list [REACH] as of 04.02.2026.

SCIP-code
N/A

Contains Proposition 65 substances


Nickel can cause cancer 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.

POP-compliant
Contains no persistent organic pollutants – Stockholm Convention [POP] as of September 2025.

PFAS-compliant
Contains no per- and polyfluoroalkyl substances (PFAS).

TSCA-compliant
Agent concentration in this product does not exceed the specified threshold.