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Locating Pins • with ball end, stepped

EH 22630.



Product Description

Typical areas of application for locating pins with ball end are fixture and tool construction, assembly and inspection applications, and general machine and plant construction, where this construction provides a reproducible installation depth by means of an assembly stop.
The locating pins with ball end (plain / flattened) are used for precise positioning and guidance of components in clamping, assembly and inspection fixtures. The ball end at the end of the pin facilitates insertion into mating holes and reduces jamming during placement, even when components are inserted at a slight angle. In addition, these stepped locating pins with ball end are designed for positioning tasks where, besides precise centering, a defined installation depth is required. The shoulder serves as an assembly stop and prevents the pin from being pushed through or sinking into the fixture.
The “ball end plain” version features a fully spherical end and is ideally suited for classic centering positioning tasks where precise guidance and high repeatability are required.
The “ball end flattened” version has a flattened spherical end that enables earlier guidance during insertion. This geometry offers clear advantages for angled insertion and supports easy engagement even in the case of minor positional deviations of the components, without impairing positioning accuracy.
Both versions are suitable for continuous industrial use and are available in various internal thread variants. High-quality materials and precise manufacturing processes ensure high load capacity, long service life and reliable, reproducible positioning results.
The advantages are

- Defined installation depth by means of an assembly stop
- Reliable centering
- High repeat accuracy
- Optimized guidance during insertion
- Advantages for slanted mounting ("ball end flattened" design)

Material

- Tool steel, hardened, blackened and ground
- Stainless steel 1.4305, ground, surface heat-treated

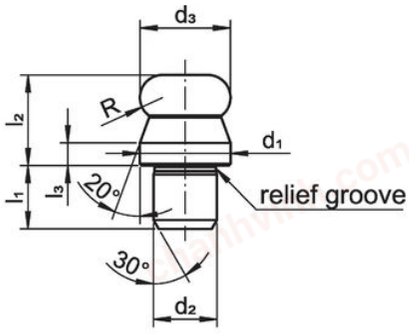
More information

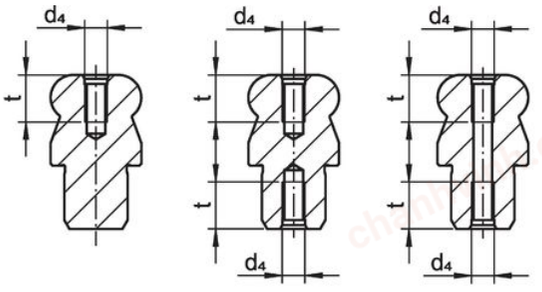
Further products

- Locating Pins, DIN 6321
- Locating Pins, bolt-on, similar to DIN 6321
- Locating Pins, with ball end

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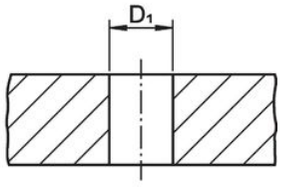
Drawing

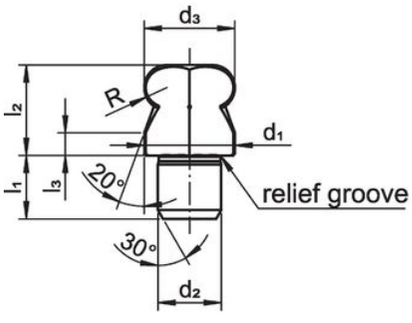


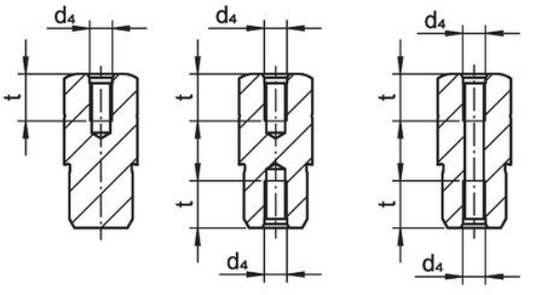


picture 1 picture 2 picture 3

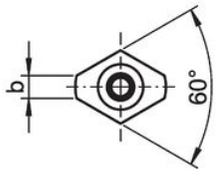








picture 4 picture 5 picture 6



Order information

Dimensions										Location hole		Art. No.
d_1 g6	d_2 n6	d_3 -0.01 -0.05	d_4	l_1	l_2	l_3	t	r	b	D_1 H7		
[mm]										[mm]	[g]	
ball end plain – picture 1, Tool steel												
6	**4**	6	M2,5	4	6	2.0	4.5	1.0	–	4	1.3	22630.0306
8	**6**	8	M 3	6	8	2.0	6.0	2.0	–	6	3.9	22630.0308
10	**7**	10	M 3	7	10	2.5	6.0	2.5	–	7	6.7	22630.0310
12	**8**	12	M 4	8	12	3.0	8.0	3.0	–	8	11.0	22630.0312
14	**10**	14	M 4	10	14	3.5	8.0	3.5	–	10	20.0	22630.0314
16	**12**	16	M 5	12	16	4.0	10.0	4.0	–	12	31.0	22630.0316
20	**14**	20	M 5	14	20	5.0	10.0	5.0	–	14	58.0	22630.0320
22	**16**	22	M 5	16	22	5.5	10.0	5.5	–	16	81.0	22630.0322
25	**18**	25	M 5	18	25	6.0	10.0	6.0	–	18	118.0	22630.0325
ball end plain – picture 1, Stainless steel												
6	**4**	6	M2,5	4	6	2.0	4.5	1.0	–	4	1.2	22630.0346
8	**6**	8	M 3	6	8	2.0	6.0	2.0	–	6	4.0	22630.0348
10	**7**	10	M 3	7	10	2.5	6.0	2.5	–	7	7.0	22630.0350
12	**8**	12	M 4	8	12	3.0	8.0	3.0	–	8	11.0	22630.0352
14	**10**	14	M 4	10	14	3.5	8.0	3.5	–	10	20.0	22630.0354
16	**12**	16	M 5	12	16	4.0	10.0	4.0	–	12	30.0	22630.0356
20	**14**	20	M 5	14	20	5.0	10.0	5.0	–	14	57.0	22630.0360

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Dimensions										Location hole		Art. No.
d_1 g6	d_2 n6	d_3 -0.01 -0.05	d_4	l_1	l_2	l_3	t	r	b	D_1 H7		
[mm]										[mm]	[g]	
ball end plain, female thread on both sides, blind hole – picture 2, Tool steel												
20	**14**	20	M 5	14	20	5.0	10.0	5.0	–	14	58.0	22630.0323
22	**16**	22	M 5	16	22	5.5	10.0	5.5	–	16	80.0	22630.0324
25	**18**	25	M 5	18	25	6.0	10.0	6.0	–	18	118.0	22630.0328
ball end plain, female thread on both sides, blind hole – picture 2, Stainless steel												
20	**14**	14	M 5	14	20	5.0	10.0	5.0	–	14	58.0	22630.0363
ball end plain, female thread on both sides, through-bore – picture 3, Tool steel												
8	**6**	8	M 3	6	8	2.0	6.0	2.0	–	6	3.2	22630.0730
10	**7**	10	M 3	7	10	2.5	6.0	2.5	–	7	6.4	22630.0733
12	**8**	12	M 4	8	12	3.0	8.0	3.0	–	8	10.0	22630.0736
16	**12**	16	M 5	12	16	4.0	10.0	4.0	–	12	30.0	22630.0738
ball end plain, female thread on both sides, through-bore – picture 3, Stainless steel												
8	**6**	8	M 3	6	8	2.0	6.0	2.0	–	6	3.2	22630.0740
10	**7**	10	M 3	7	10	2.5	6.0	2.5	–	7	6.5	22630.0743
12	**8**	12	M 4	8	12	3.0	8.0	3.0	–	8	10.0	22630.0746
16	**12**	16	M 5	12	16	4.0	10.0	4.0	–	12	30.0	22630.0748
ball end flattened – picture 4, Tool steel												
6	**4**	6	M2,5	4	6	2.0	4.5	1.0	1.70	4	1.0	22630.0406
8	**6**	8	M 3	6	8	2.0	6.0	2.0	2.00	6	3.2	22630.0408
10	**7**	10	M 3	7	10	2.5	6.0	2.5	2.50	7	5.3	22630.0410
12	**8**	12	M 4	8	12	3.0	8.0	3.0	2.50	8	8.4	22630.0412
14	**10**	14	M 4	10	14	3.5	8.0	3.5	3.76	10	16.0	22630.0414
16	**12**	16	M 5	12	16	4.0	10.0	4.0	4.30	12	25.0	22630.0416
20	**14**	20	M 5	14	20	5.0	10.0	5.0	5.00	14	46.0	22630.0420
22	**16**	22	M 5	16	22	5.5	10.0	5.5	5.00	16	63.0	22630.0422
25	**18**	25	M 5	18	25	6.0	10.0	6.0	5.60	18	92.0	22630.0425
ball end flattened – picture 4, Stainless steel												
6	**4**	6	M2,5	4	6	2.0	4.5	1.0	1.70	4	0.9	22630.0446
8	**6**	8	M 3	6	8	2.0	6.0	2.0	2.00	6	3.2	22630.0448
10	**7**	10	M 3	7	10	2.5	6.0	2.5	2.50	7	5.3	22630.0450
12	**8**	12	M 4	8	12	3.0	8.0	3.0	2.50	8	8.0	22630.0452
14	**10**	14	M 4	10	14	3.5	8.0	3.5	3.76	10	16.0	22630.0454
16	**12**	16	M 5	12	16	4.0	10.0	4.0	4.30	12	23.0	22630.0456
20	**14**	20	M 5	14	20	5.0	10.0	5.0	5.00	14	45.0	22630.0460
ball end flattened, female thread on both sides, through-bore – picture 5, Tool steel												
20	**14**	20	M 5	14	20	5.0	10.0	5.0	5.00	14	44.0	22630.0418
22	**16**	22	M 5	16	22	5.5	10.0	5.5	5.00	16	63.0	22630.0421
25	**18**	25	M 5	18	25	6.0	10.0	6.0	5.60	18	91.0	22630.0423
ball end flattened, female thread on both sides, through-bore – picture 5, Stainless steel												
20	**14**	20	M 5	14	20	5.0	10.0	5.0	5.00	14	45.0	22630.0458
ball end flattened, female thread on both sides, through-bore – picture 6, Tool steel												
8	**6**	8	M 3	6	8	2.0	6.0	2.0	2.00	6	2.5	22630.0770
10	**7**	10	M 3	7	10	2.5	6.0	2.5	2.50	7	5.0	22630.0773
12	**8**	12	M 4	8	12	3.0	8.0	3.0	2.50	8	7.4	22630.0776
16	**12**	16	M 5	12	16	4.0	10.0	4.0	4.30	12	23.0	22630.0778
ball end flattened, female thread on both sides, through-bore – picture 6, Stainless steel												
8	**6**	8	M 3	6	8	2.0	6.0	2.0	2.00	6	2.5	22630.0780
10	**7**	10	M 3	7	10	2.5	6.0	2.5	2.50	7	5.0	22630.0783
12	**8**	12	M 4	8	12	3.0	8.0	3.0	2.50	8	7.3	22630.0786
16	**12**	16	M 5	12	16	4.0	10.0	4.0	4.30	12	22.0	22630.0788

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

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.

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.