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Locating Pins • with ball end
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.
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.
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

- 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, stepped

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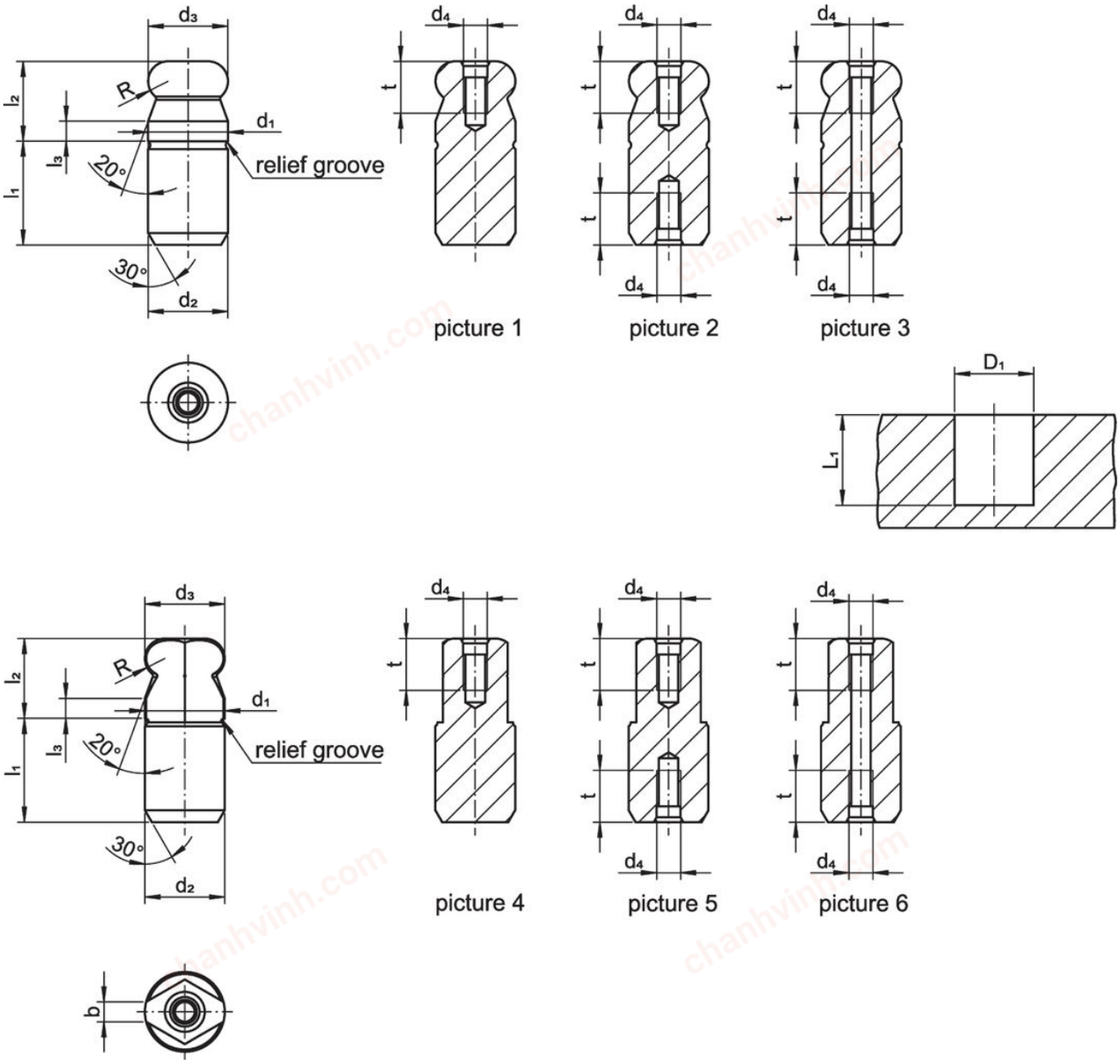
Drawing



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]		
ball end plain, not stepped – picture 1, Tool steel												
5	**5**	5	M2,5	6	5	2.0	4.5	1.0	–	5	2.4 g	22630.0505
6	**6**	6	M 3	8	6	2.0	5.0	1.0	–	6	2.9 g	22630.0506
8	**8**	8	M 3	10	8	2.0	6.0	2.0	–	8	6.0 g	22630.0508
10	**10**	10	M 3	13	10	2.5	6.0	2.5	–	10	12.0 g	22630.0510
12	**12**	12	M 4	15	12	3.0	8.0	3.0	–	12	21.0 g	22630.0512
14	**14**	14	M 4	17	14	3.5	8.0	3.5	–	14	34.0 g	22630.0514
16	**16**	16	M 5	20	16	4.0	10.0	4.0	–	16	51.0 g	22630.0516
20	**20**	20	M 5	25	20	5.0	10.0	5.0	–	20	101.0 g	22630.0520
25	**25**	25	M 5	25	25	6.0	10.0	6.0	–	25	176.0 g	22630.0525
30	**30**	30	M 6	30	30	8.0	12.0	8.0	–	30	307.0 g	22630.0530
40	**40**	40	M 6	40	40	10.0	12.0	10.0	–	40	729.0 g	22630.0540
50	**50**	50	M 6	50	50	12.0	12.0	12.0	–	50	1.4 kg	22630.0550

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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]		
ball end plain, not stepped – picture 1, Stainless steel												
5	**5**	5	M2,5	6	5	2.0	4.5	1.0	–	5	1.3 g	22630.0565
6	**6**	6	M 3	8	6	2.0	5.0	1.0	–	6	3.4 g	22630.0566
8	**8**	8	M 3	10	8	2.0	6.0	2.0	–	8	6.0 g	22630.0568
10	**10**	10	M 3	13	10	2.5	6.0	2.5	–	10	12.0 g	22630.0570
12	**12**	12	M 4	15	12	3.0	8.0	3.0	–	12	21.0 g	22630.0572
14	**14**	14	M 4	17	14	3.5	8.0	3.5	–	14	34.0 g	22630.0574
16	**16**	16	M 5	20	16	4.0	10.0	4.0	–	16	51.0 g	22630.0576
20	**20**	20	M 5	25	20	5.0	10.0	5.0	–	20	101.0 g	22630.0580
ball end plain, not stepped, female thread on both sides, blind hole – picture 2, Tool steel												
10	**10**	10	M 3	13	10	2.5	6.0	2.5	–	10	12.0 g	22630.0511
12	**12**	12	M 4	15	12	3.0	8.0	3.0	–	12	20.0 g	22630.0513
16	**16**	16	M 5	20	16	4.0	10.0	4.0	–	16	50.0 g	22630.0718
20	**20**	20	M 5	25	20	5.0	10.0	5.0	–	20	102.0 g	22630.0722
25	**25**	25	M 5	25	25	6.0	10.0	6.0	–	25	176.0 g	22630.0727
30	**30**	30	M 6	30	30	8.0	12.0	8.0	–	30	306.0 g	22630.0735
ball end plain, not stepped, female thread on both sides, blind hole – picture 2, Stainless steel												
10	**10**	10	M 3	13	10	10.0	6.0	2.5	–	10	12.0 g	22630.0571
12	**12**	12	M 4	15	12	12.0	8.0	3.0	–	12	20.0 g	22630.0573
16	**16**	16	M 5	20	16	16.0	10.0	4.0	–	16	49.0 g	22630.0578
20	**20**	20	M 5	25	20	20.0	10.0	5.0	–	20	103.0 g	22630.0583
ball end plain, not stepped, female thread on both sides, through-bore – picture 3, Tool steel												
8	**8**	8	M 3	10	8	2.0	6.0	2.0	–	8	5.7 g	22630.0710
ball end plain, not stepped, female thread on both sides, through-bore – picture 3, Stainless steel												
8	**8**	8	M 3	10	8	2.0	6.0	2.0	–	8	5.7 g	22630.0720
with ball end flattened, not stepped – picture 4, Tool steel												
5	**5**	5	M2,5	6	5	2.0	4.5	1.0	1.5	5	1.2 g	22630.0605
6	**6**	6	M 3	8	6	2.0	5.0	1.0	1.8	6	3.1 g	22630.0606
8	**8**	8	M 3	10	8	2.0	6.0	2.0	1.9	8	5.0 g	22630.0608
10	**10**	10	M 3	13	10	2.5	6.0	2.5	2.5	10	11.0 g	22630.0610
12	**12**	12	M 4	15	12	3.0	8.0	3.0	2.5	12	17.0 g	22630.0612
14	**14**	14	M 4	17	14	3.5	8.0	3.5	3.9	14	29.0 g	22630.0614
16	**16**	16	M 5	20	16	4.0	10.0	4.0	4.3	16	44.0 g	22630.0616
20	**20**	20	M 5	25	20	5.0	10.0	5.0	5.0	20	88.0 g	22630.0620
25	**25**	25	M 5	25	25	6.0	10.0	6.0	5.6	25	149.0 g	22630.0625
30	**30**	30	M 6	30	30	8.0	12.0	8.0	8.8	30	270.0 g	22630.0630
40	**40**	40	M 6	40	40	10.0	12.0	10.0	12.8	40	657.0 g	22630.0640
50	**50**	50	M 6	50	50	12.0	12.0	12.0	16.7	50	1.2 kg	22630.0650
with ball end flattened, not stepped – picture 4, Stainless steel												
5	**5**	5	M2,5	6	5	2.0	4.5	1.0	1.5	5	1.3 g	22630.0665
6	**6**	6	M 3	8	6	2.0	5.0	1.0	1.8	6	2.6 g	22630.0666
8	**8**	8	M 3	10	8	2.0	6.0	2.0	1.9	8	5.0 g	22630.0668
10	**10**	10	M 3	13	10	2.5	6.0	2.5	2.5	10	11.0 g	22630.0670
12	**12**	12	M 4	15	12	3.0	8.0	3.0	2.5	12	17.0 g	22630.0672
14	**14**	14	M 4	17	14	3.5	8.0	3.5	3.9	14	30.0 g	22630.0674
16	**16**	16	M 5	20	16	4.0	10.0	4.0	4.3	16	44.0 g	22630.0676
20	**20**	20	M 5	25	20	5.0	10.0	5.0	5.0	20	88.0 g	22630.0680
ball end flattened, not stepped, female thread on both sides, blind hole – picture 5, Tool steel												
10	**10**	10	M 3	13	10	2.5	6.0	2.5	–	10	11.0 g	22630.0609
12	**12**	12	M 4	15	12	3.0	8.0	3.0	–	12	17.0 g	22630.0611
16	**16**	16	M 5	20	16	4.0	10.0	4.0	–	16	46.0 g	22630.0615
20	**20**	20	M 5	25	20	5.0	10.0	5.0	–	20	90.0 g	22630.0618
25	**25**	25	M 5	25	25	6.0	10.0	6.0	–	25	150.0 g	22630.0623
30	**30**	30	M 6	30	30	8.0	12.0	8.0	–	30	271.0 g	22630.0627
ball end flattened, not stepped, female thread on both sides, blind hole – picture 5, Stainless steel												
10	**10**	10	M 3	13	10	2.5	6.0	2.5	–	10	11.0 g	22630.0669
12	**12**	12	M 4	15	12	3.0	8.0	3.0	–	12	17.0 g	22630.0671
16	**16**	16	M 5	20	16	4.0	10.0	4.0	–	16	43.0 g	22630.0675
20	**20**	20	M 5	25	20	5.0	10.0	5.0	–	20	90.0 g	22630.0678

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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]		
ball end flattened, not stepped, female thread on both sides, through-bore – picture 6, Tool steel												
8	**8**	8	–	10	8	2.0	6.0	2.0	–	8	4.8 g	22630.0750
ball end flattened, not stepped, female thread on both sides, through-bore – picture 6, Stainless steel												
8	**8**	8	–	10	8	2.0	6.0	2.0	–	8	4.8 g	22630.0760

Application example

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.