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Positioning Bushings • without collar, DIN 179 A

EH 23112.



Product Description

Positioning or drill bushings are used to drill repetitive holes in the same location to ensure repeatabililty.
The hardened and ground positioning bushings can be used as wear-resistant guide for drills, shafts etc.

Material

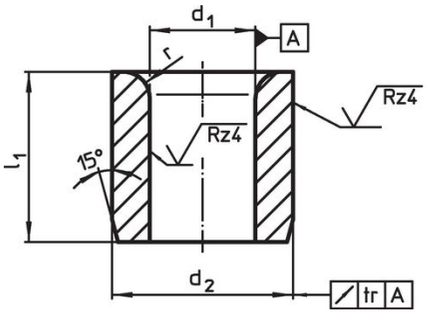
- Case-hardened steel, case-hardened
- Stainless steel

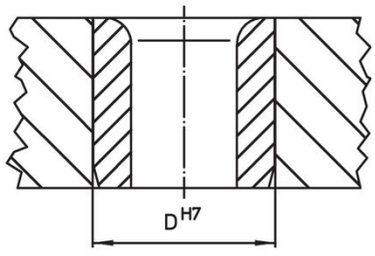
More information

Further products

- Positioning Bushings, with collar, DIN 172 A

Drawing





Order information

Dimensions				Location hole		Art. No.
d_1 F7	l_1	d_2 n6	r	D H7		
[mm]				[mm]	[g]	
Case-hardened steel						
2.0	**6**	5	1.0	5	0.8	23112.0520
2.0	**9**	5	1.0	5	1.1	23112.0521
2.1	**6**	5	1.0	5	0.7	23112.0522
2.1	**9**	5	1.0	5	1.1	23112.0523
2.5	**6**	5	1.0	5	0.7	23112.0524
2.5	**9**	5	1.0	5	1.0	23112.0525
3.0	**8**	6	1.0	6	1.3	23112.0530
3.0	**12**	6	1.0	6	1.9	23112.0531
3.0	**16**	6	1.0	6	3.3	23112.0532
3.1	**8**	6	1.0	6	1.2	23112.0533
3.1	**12**	6	1.0	6	1.9	23112.0534
3.1	**16**	6	1.0	6	3.2	23112.0535
3.5	**8**	7	1.0	7	1.7	23112.0536
3.5	**12**	7	1.0	7	2.6	23112.0537
3.5	**16**	7	1.0	7	3.6	23112.0538
4.0	**8**	7	1.0	7	1.5	23112.0540
4.0	**12**	7	1.0	7	2.4	23112.0541
4.0	**16**	7	1.0	7	3.2	23112.0542
4.1	**8**	8	1.0	8	2.2	23112.0543
4.1	**12**	8	1.0	8	3.4	23112.0544
4.1	**16**	8	1.0	8	4.6	23112.0545
4.5	**8**	8	1.0	8	2.1	23112.0546
4.5	**12**	8	1.0	8	3.1	23112.0547
4.5	**16**	8	1.0	8	4.2	23112.0548
5.0	**8**	8	1.0	8	1.8	23112.0550
5.0	**12**	8	1.0	8	2.7	23112.0551
5.0	**16**	8	1.0	8	3.7	23112.0552
5.1	**10**	10	1.5	10	4.4	23112.0553
5.1	**16**	10	1.5	10	7.1	23112.0554
5.1	**20**	10	1.5	10	8.9	23112.0555

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Dimensions				Location hole		Art. No.
d_1 F7	l_1	d_2 n6	r	D H7		
[mm]				[mm]	[g]	
5.5	**10**	10	1.5	10	4.9	23112.0556
5.5	**16**	10	1.5	10	6.7	23112.0557
5.5	**20**	10	1.5	10	8.4	23112.0558
6.0	**10**	10	1.5	10	3.8	23112.0560
6.0	**16**	10	1.5	10	6.1	23112.0561
6.0	**20**	10	1.5	10	7.7	23112.0562
6.1	**10**	12	1.5	12	6.3	23112.0563
6.1	**16**	12	1.5	12	10.0	23112.0564
6.1	**20**	12	1.5	12	13.0	23112.0565
6.5	**10**	12	1.5	12	6.0	23112.0566
6.5	**16**	12	1.5	12	9.7	23112.0567
6.5	**20**	12	1.5	12	12.0	23112.0568
7.0	**10**	12	1.5	12	5.6	23112.0570
7.0	**16**	12	1.5	12	9.1	23112.0571
7.0	**20**	12	1.5	12	11.0	23112.0572
7.1	**10**	12	1.5	12	5.5	23112.0573
7.1	**16**	12	1.5	12	9.0	23112.0574
7.1	**20**	12	1.5	12	11.0	23112.0575
7.5	**10**	12	1.5	12	5.1	23112.0576
7.5	**16**	12	1.5	12	8.4	23112.0577
7.5	**20**	12	1.5	12	11.0	23112.0578
8.0	**10**	12	1.5	12	4.7	23112.0580
8.0	**16**	12	1.5	12	7.6	23112.0581
8.0	**20**	12	1.5	12	9.6	23112.0582
8.1	**12**	15	2.0	15	11.0	23112.0583
8.1	**20**	15	2.0	15	19.0	23112.0584
8.1	**25**	15	2.0	15	24.0	23112.0585
8.5	**12**	15	2.0	15	11.0	23112.0586
8.5	**20**	15	2.0	15	18.0	23112.0587
8.5	**25**	15	2.0	15	23.0	23112.0588
9.0	**12**	15	2.0	15	10.0	23112.0590
9.0	**20**	15	2.0	15	17.0	23112.0591
9.0	**25**	15	2.0	15	22.0	23112.0592
9.1	**12**	15	2.0	15	10.0	23112.0593
9.1	**20**	15	2.0	15	17.0	23112.0594
9.1	**25**	15	2.0	15	21.0	23112.0595
9.5	**12**	15	2.0	15	9.5	23112.0596
9.5	**20**	15	2.0	15	16.0	23112.0597
9.5	**25**	15	2.0	15	20.0	23112.0598
10.0	**12**	15	2.0	15	8.8	23112.0600
10.0	**20**	15	2.0	15	15.0	23112.0601
10.0	**25**	15	2.0	15	19.0	23112.0602
10.1	**12**	18	2.0	18	16.0	23112.0603
10.1	**20**	18	2.0	18	27.0	23112.0604
10.1	**25**	18	2.0	18	33.0	23112.0605
10.5	**12**	18	2.0	18	15.0	23112.0606
10.5	**20**	18	2.0	18	26.0	23112.0607
10.5	**25**	18	2.0	18	32.0	23112.0608
11.0	**12**	18	2.0	18	14.0	23112.0610
11.0	**20**	18	2.0	18	24.0	23112.0611
11.0	**25**	18	2.0	18	31.0	23112.0612
11.1	**12**	18	2.0	18	14.0	23112.0613
11.1	**20**	18	2.0	18	24.0	23112.0614
11.1	**25**	18	2.0	18	30.0	23112.0615
11.5	**12**	18	2.0	18	13.0	23112.0616
11.5	**20**	18	2.0	18	23.0	23112.0617
11.5	**25**	18	2.0	18	29.0	23112.0618
12.0	**12**	18	2.0	18	13.0	23112.0620
12.0	**20**	18	2.0	18	22.0	23112.0621
12.0	**25**	18	2.0	18	27.0	23112.0622
12.1	**16**	22	2.0	22	32.0	23112.0623

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Dimensions				Location hole		Art. No.
d_1 F7	l_1	d_2 n6	r	D H7		
[mm]				[mm]	[g]	
12.1	**28**	22	2.0	22	57.0	23112.0624
12.1	**36**	22	2.0	22	74.0	23112.0625
12.5	**16**	22	2.0	22	31.0	23112.0626
12.5	**28**	22	2.0	22	66.0	23112.0627
12.5	**36**	22	2.0	22	69.0	23112.0628
13.0	**16**	22	2.0	22	30.0	23112.0630
13.0	**28**	22	2.0	22	53.0	23112.0631
13.0	**36**	22	2.0	22	69.0	23112.0632
14.0	**16**	22	2.0	22	27.0	23112.0640
14.0	**28**	22	2.0	22	49.0	23112.0641
14.0	**36**	22	2.0	22	63.0	23112.0642
15.0	**16**	22	2.0	22	24.0	23112.0650
15.0	**28**	22	2.0	22	44.0	23112.0651
15.0	**36**	22	2.0	22	56.0	23112.0652
16.0	**16**	26	2.0	26	45.0	23112.0660
16.0	**28**	26	2.0	26	71.0	23112.0661
16.0	**36**	26	2.0	26	92.0	23112.0662
16.1	**16**	26	2.0	26	40.0	23112.0663
16.1	**28**	26	2.0	26	71.0	23112.0664
16.1	**36**	26	2.0	26	91.0	23112.0665
16.5	**16**	26	2.0	26	39.0	23112.0666
16.5	**28**	26	2.0	26	68.0	23112.0667
16.5	**36**	26	2.0	26	88.0	23112.0668
17.0	**16**	26	2.0	26	37.0	23112.0671
17.0	**28**	26	2.0	26	65.0	23112.0672
17.0	**36**	26	2.0	26	84.0	23112.0673
18.0	**16**	26	2.0	26	33.0	23112.0681
18.0	**28**	26	2.0	26	59.0	23112.0682
18.0	**36**	26	2.0	26	76.0	23112.0683
19.0	**20**	30	3.0	30	64.0	23112.0691
19.0	**36**	30	3.0	30	117.0	23112.0692
19.0	**45**	30	3.0	30	147.0	23112.0693
20.0	**20**	30	3.0	30	59.0	23112.0701
20.0	**36**	30	3.0	30	108.0	23112.0702
20.0	**45**	30	3.0	30	136.0	23112.0703
20.1	**20**	30	3.0	30	59.0	23112.0704
20.1	**36**	30	3.0	30	108.0	23112.0705
20.1	**45**	30	3.0	30	135.0	23112.0706
22.0	**20**	30	3.0	30	49.0	23112.0721
22.0	**36**	30	3.0	30	90.0	23112.0722
22.0	**45**	30	3.0	30	113.0	23112.0723
25.0	**20**	35	3.0	35	71.0	23112.0751
25.0	**36**	35	3.0	35	130.0	23112.0752
25.0	**45**	35	3.0	35	163.0	23112.0753
30.0	**25**	42	3.0	42	129.0	23112.0801
30.0	**45**	42	3.0	42	235.0	23112.0802
30.0	**56**	42	3.0	42	293.0	23112.0803
Stainless steel						
4.0	**8**	7	1.0	7	1.5	23112.5540
4.0	**12**	7	1.0	7	2.3	23112.5541
4.1	**8**	8	1.0	8	2.2	23112.5543
4.1	**12**	8	1.0	8	3.3	23112.5544
5.0	**8**	8	1.0	8	1.8	23112.5550
5.0	**12**	8	1.0	8	2.7	23112.5551
5.1	**10**	10	1.5	10	4.3	23112.5553
5.1	**16**	10	1.5	10	7.0	23112.5554
6.0	**10**	10	1.5	10	3.7	23112.5560
6.0	**16**	10	1.5	10	6.0	23112.5561
6.1	**10**	12	1.5	12	6.3	23112.5563
6.1	**16**	12	1.5	12	10.0	23112.5564
8.0	**10**	12	1.5	12	4.7	23112.5580

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Dimensions				Location hole		Art. No.
d_1 F7	l_1	d_2 n6	r	D H7		
[mm]				[mm]	[g]	
8.0	**16**	12	1.5	12	7.5	23112.5581
8.0	**20**	12	1.5	12	9.4	23112.5582
8.1	**12**	15	2.0	15	11.0	23112.5583
8.1	**20**	15	2.0	15	19.0	23112.5584
10.0	**12**	15	2.0	15	8.7	23112.5600
10.0	**20**	15	2.0	15	15.0	23112.5601
10.1	**12**	18	2.0	18	16.0	23112.5603
10.1	**20**	18	2.0	18	26.0	23112.5604
12.0	**12**	18	2.0	18	13.0	23112.5620
12.0	**20**	18	2.0	18	21.0	23112.5621
12.1	**16**	22	2.0	22	32.0	23112.5623
12.1	**28**	22	2.0	22	56.0	23112.5624
14.0	**16**	22	2.0	22	27.0	23112.5640
14.0	**28**	22	2.0	22	48.0	23112.5641
15.0	**16**	22	2.0	22	24.0	23112.5650
15.0	**28**	22	2.0	22	43.0	23112.5651
16.0	**16**	26	2.0	26	40.0	23112.5660
16.0	**28**	26	2.0	26	70.0	23112.5661

Compliance

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