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Positioning Bushings • with collar, DIN 172 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

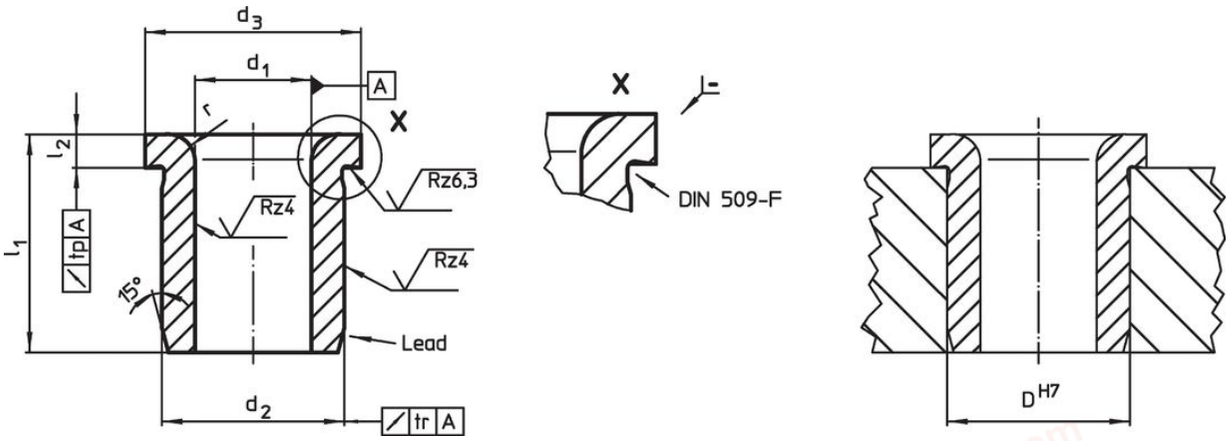
- Case-hardened steel, case-hardened
- Stainless steel

More information

Further products

- Positioning Bushings, without collar, DIN 179 A

Drawing



Order information

d_1 F7	l_1	d_2 n6	d_3	l_2	r	Location hole D H7		Art. No.
[mm]						[mm]	[g]	
Case-hardened steel								
2.0	**6**	5	8	2.0	1.0	5	1.2	23112.0020
2.0	**9**	5	8	2.0	1.0	5	1.6	23112.0021
2.1	**6**	5	8	2.0	1.0	5	1.2	23112.0022
2.1	**9**	5	8	2.0	1.0	5	1.5	23112.0023
2.5	**6**	5	8	2.0	1.0	5	1.1	23112.0024
2.5	**9**	5	8	2.0	1.0	5	1.4	23112.0025
3.0	**8**	6	9	2.5	1.0	6	1.9	23112.0030
3.0	**12**	6	9	2.5	1.0	6	2.6	23112.0031
3.0	**16**	6	9	2.5	1.0	6	3.2	23112.0032
3.1	**8**	6	9	2.5	1.0	6	1.9	23112.0033
3.1	**12**	6	9	2.5	1.0	6	2.5	23112.0034
3.1	**16**	6	9	2.5	1.0	6	3.2	23112.0035
3.5	**8**	7	10	2.5	1.0	7	2.4	23112.0036
3.5	**12**	7	10	2.5	1.0	7	3.4	23112.0037
3.5	**16**	7	10	2.5	1.0	7	4.3	23112.0038
4.0	**8**	7	10	2.5	1.0	7	2.3	23112.0040
4.0	**12**	7	10	2.5	1.0	7	3.1	23112.0041
4.0	**16**	7	10	2.5	1.0	7	3.9	23112.0042
4.1	**8**	8	11	2.5	1.0	8	3.0	23112.0043
4.1	**12**	8	11	2.5	1.0	8	4.2	23112.0044
4.1	**16**	8	11	2.5	1.0	8	5.3	23112.0045
4.5	**8**	8	11	2.5	1.0	8	2.9	23112.0046
4.5	**12**	8	11	2.5	1.0	8	3.9	23112.0047
4.5	**16**	8	11	2.5	1.0	8	5.0	23112.0048
5.0	**8**	8	11	2.5	1.0	8	2.6	23112.0050

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Dimensions						Location hole		Art. No.
d_1 F7	l_1	d_2 n6	d_3	l_2	r	D H7		
[mm]						[mm]	[g]	
5.0	12	8	11	2.5	1.0	8	3.6	23112.0051
5.0	16	8	11	2.5	1.0	8	4.5	23112.0052
5.1	10	10	13	3.0	1.5	10	5.5	23112.0053
5.1	16	10	13	3.0	1.5	10	8.2	23112.0054
5.1	20	10	13	3.0	1.5	10	10.0	23112.0055
5.5	10	10	13	3.0	1.5	10	5.3	23112.0056
5.5	16	10	13	3.0	1.5	10	7.9	23112.0057
5.5	20	10	13	3.0	1.5	10	9.6	23112.0058
6.0	10	10	13	3.0	1.5	10	4.9	23112.0060
6.0	16	10	13	3.0	1.5	10	7.3	23112.0061
6.0	20	10	13	3.0	1.5	10	8.8	23112.0062
6.1	10	12	15	3.0	1.5	12	7.7	23112.0063
6.1	16	12	15	3.0	1.5	12	12.0	23112.0064
6.1	20	12	15	3.0	1.5	12	14.0	23112.0065
6.5	10	12	15	3.0	1.5	12	7.4	23112.0066
6.5	16	12	15	3.0	1.5	12	11.0	23112.0067
6.5	20	12	15	3.0	1.5	12	14.0	23112.0068
7.0	10	12	15	3.0	1.5	12	7.0	23112.0070
7.0	16	12	15	3.0	1.5	12	10.0	23112.0071
7.0	20	12	15	3.0	1.5	12	13.0	23112.0072
7.1	10	12	15	3.0	1.5	12	6.9	23112.0073
7.1	16	12	15	3.0	1.5	12	10.0	23112.0074
7.1	20	12	15	3.0	1.5	12	13.0	23112.0075
7.5	10	12	15	3.0	1.5	12	6.5	23112.0076
7.5	16	12	15	3.0	1.5	12	9.7	23112.0077
7.5	20	12	15	3.0	1.5	12	12.0	23112.0078
8.0	10	12	15	3.0	1.5	12	6.0	23112.0080
8.0	16	12	15	3.0	1.5	12	8.9	23112.0081
8.0	20	12	15	3.0	1.5	12	11.0	23112.0082
8.1	12	15	18	3.0	2.0	15	13.0	23112.0083
8.1	20	15	18	3.0	2.0	15	25.0	23112.0084
8.1	25	15	18	3.0	2.0	15	26.0	23112.0085
8.5	12	15	18	3.0	2.0	15	13.0	23112.0086
8.5	20	15	18	3.0	2.0	15	20.0	23112.0087
8.5	25	15	18	3.0	2.0	15	25.0	23112.0088
9.0	12	15	18	3.0	2.0	15	12.0	23112.0090
9.0	20	15	18	3.0	2.0	15	19.0	23112.0091
9.0	25	15	18	3.0	2.0	15	23.0	23112.0092
9.1	12	15	18	3.0	2.0	15	12.0	23112.0093
9.1	20	15	18	3.0	2.0	15	19.0	23112.0094
9.1	25	15	18	3.0	2.0	15	23.0	23112.0095
9.5	12	15	18	3.0	2.0	15	11.0	23112.0096
9.5	20	15	18	3.0	2.0	15	18.0	23112.0097
9.5	25	15	18	3.0	2.0	15	22.0	23112.0098
10.0	12	15	18	3.0	2.0	15	10.0	23112.0100
10.0	20	15	18	3.0	2.0	15	17.0	23112.0101
10.0	25	15	18	3.0	2.0	15	20.0	23112.0102
10.1	12	18	22	4.0	2.0	18	19.0	23112.0103
10.1	20	18	22	4.0	2.0	18	30.0	23112.0104
10.1	25	18	22	4.0	2.0	18	37.0	23112.0105
10.5	12	18	22	4.0	2.0	18	19.0	23112.0106
10.5	20	18	22	4.0	2.0	18	29.0	23112.0107
10.5	25	18	22	4.0	2.0	18	36.0	23112.0108
11.0	12	18	22	4.0	2.0	18	18.0	23112.0110
11.0	20	18	22	4.0	2.0	18	28.0	23112.0111
11.0	25	18	22	4.0	2.0	18	34.0	23112.0112
11.1	12	18	22	4.0	2.0	18	18.0	23112.0113
11.1	20	18	22	4.0	2.0	18	28.0	23112.0114
11.1	25	18	22	4.0	2.0	18	34.0	23112.0115
11.5	12	18	22	4.0	2.0	18	17.0	23112.0116
11.5	20	18	22	4.0	2.0	18	26.0	23112.0117

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Dimensions						Location hole		Art. No.
d_1 F7	l_1	d_2 n6	d_3	l_2	r	D H7		
[mm]						[mm]	[g]	
11.5	**25**	18	22	4.0	2.0	18	33.0	23112.0118
12.0	**12**	18	22	4.0	2.0	18	16.0	23112.0120
12.0	**20**	18	22	4.0	2.0	18	25.0	23112.0121
12.0	**25**	18	22	4.0	2.0	18	31.0	23112.0122
12.1	**16**	22	26	4.0	2.0	22	37.0	23112.0123
12.1	**28**	22	26	4.0	2.0	22	62.0	23112.0124
12.1	**36**	22	26	4.0	2.0	22	78.0	23112.0125
12.5	**16**	22	26	4.0	2.0	22	36.0	23112.0126
12.5	**28**	22	26	4.0	2.0	22	60.0	23112.0127
12.5	**36**	22	26	4.0	2.0	22	76.0	23112.0128
13.0	**16**	22	26	4.0	2.0	22	34.0	23112.0130
13.0	**28**	22	26	4.0	2.0	22	58.0	23112.0131
13.0	**36**	22	26	4.0	2.0	22	73.0	23112.0132
14.0	**16**	22	26	4.0	2.0	22	32.0	23112.0140
14.0	**28**	22	26	4.0	2.0	22	198.0	23112.0141
14.0	**36**	22	26	4.0	2.0	22	67.0	23112.0142
15.0	**16**	22	26	4.0	2.0	22	29.0	23112.0150
15.0	**28**	22	26	4.0	2.0	22	48.0	23112.0151
15.0	**36**	22	26	4.0	2.0	22	61.0	23112.0152
16.0	**16**	26	30	4.0	2.0	26	45.0	23112.0160
16.0	**28**	26	30	4.0	2.0	26	76.0	23112.0161
16.0	**36**	26	30	4.0	2.0	26	97.0	23112.0162
16.1	**16**	26	30	4.0	2.0	26	45.0	23112.0163
16.1	**28**	26	30	4.0	2.0	26	76.0	23112.0164
16.1	**36**	26	30	4.0	2.0	26	96.0	23112.0165
16.5	**16**	26	30	4.0	2.0	26	44.0	23112.0166
16.5	**28**	26	30	4.0	2.0	26	73.0	23112.0167
16.5	**36**	26	30	4.0	2.0	26	93.0	23112.0168
17.0	**16**	26	30	4.0	2.0	26	42.0	23112.0171
17.0	**28**	26	30	4.0	2.0	26	70.0	23112.0172
17.0	**36**	26	30	4.0	2.0	26	89.0	23112.0173
18.0	**16**	26	30	4.0	2.0	26	39.0	23112.0181
18.0	**28**	26	30	4.0	2.0	26	64.0	23112.0182
18.0	**36**	26	30	4.0	2.0	26	82.0	23112.0183
19.0	**20**	30	34	5.0	3.0	30	71.0	23112.0191
19.0	**36**	30	34	5.0	3.0	30	125.0	23112.0192
19.0	**45**	30	34	5.0	3.0	30	154.0	23112.0193
20.0	**20**	30	34	5.0	3.0	30	66.0	23112.0201
20.0	**36**	30	34	5.0	3.0	30	117.0	23112.0202
20.0	**45**	30	34	5.0	3.0	30	143.0	23112.0203
20.1	**20**	30	34	5.0	3.0	30	66.0	23112.0204
20.1	**36**	30	34	5.0	3.0	30	115.0	23112.0205
20.1	**45**	30	34	5.0	3.0	30	142.0	23112.0206
22.0	**20**	30	34	5.0	3.0	30	56.0	23112.0221
22.0	**36**	30	34	5.0	3.0	30	96.0	23112.0222
22.0	**45**	30	34	5.0	3.0	30	120.0	23112.0223
25.0	**20**	35	39	5.0	3.0	35	80.0	23112.0251
25.0	**36**	35	39	5.0	3.0	35	138.0	23112.0252
25.0	**45**	35	39	5.0	3.0	35	171.0	23112.0253
30.0	**25**	42	46	5.0	3.0	42	139.0	23112.0301
30.0	**45**	42	46	5.0	3.0	42	245.0	23112.0302
30.0	**56**	42	46	5.0	3.0	42	303.0	23112.0303
Stainless steel								
4.0	**8**	7	10	2.5	1.0	7	2.3	23112.5040
4.0	**12**	7	10	2.5	1.0	7	3.0	23112.5041
4.1	**8**	8	11	2.5	1.0	8	3.0	23112.5043
4.1	**12**	8	11	2.5	1.0	8	4.1	23112.5044
5.0	**8**	8	11	2.5	1.0	8	2.6	23112.5050
5.0	**12**	8	11	2.5	1.0	8	3.5	23112.5051
5.1	**10**	10	13	3.0	1.5	10	5.5	23112.5053
5.1	**16**	10	13	3.0	1.5	10	8.1	23112.5054

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Dimensions						Location hole		Art. No.
d_1 F7	l_1	d_2 n6	d_3	l_2	r	D H7		
[mm]						[mm]	[g]	
6.0	**10**	10	13	3.0	1.5	10	4.7	23112.5060
6.0	**16**	10	13	3.0	1.5	10	7.1	23112.5061
6.1	**10**	12	15	3.0	1.5	12	7.6	23112.5063
6.1	**16**	12	15	3.0	1.5	12	11.0	23112.5064
8.0	**10**	12	15	3.0	1.5	12	5.9	23112.5080
8.0	**16**	12	15	3.0	1.5	12	8.8	23112.5081
8.0	**20**	12	15	3.0	1.5	12	11.0	23112.5082
8.1	**12**	15	18	3.0	2.0	15	13.0	23112.5083
8.1	**20**	15	18	3.0	2.0	15	20.0	23112.5084
10.0	**12**	15	18	3.0	2.0	15	10.0	23112.5100
10.0	**20**	15	18	3.0	2.0	15	16.0	23112.5101
10.1	**12**	18	22	4.0	2.0	18	19.0	23112.5103
10.1	**20**	18	22	4.0	2.0	18	30.0	23112.5104
12.0	**12**	18	22	4.0	2.0	18	16.0	23112.5120
12.0	**20**	18	22	4.0	2.0	18	25.0	23112.5121
12.1	**16**	22	26	4.0	2.0	22	36.0	23112.5123
12.1	**28**	22	26	4.0	2.0	22	61.0	23112.5124
14.0	**16**	22	26	4.0	2.0	22	31.0	23112.5140
14.0	**28**	22	26	4.0	2.0	22	52.0	23112.5141
15.0	**16**	22	26	4.0	2.0	22	29.0	23112.5150
15.0	**28**	22	26	4.0	2.0	22	47.0	23112.5151
16.0	**16**	26	30	4.0	2.0	26	44.0	23112.5160
16.0	**28**	26	30	4.0	2.0	26	75.0	23112.5161

Compliance

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