

## Positioning Bushings • without collar, DIN 179 A

EH 23112.



### Product Description

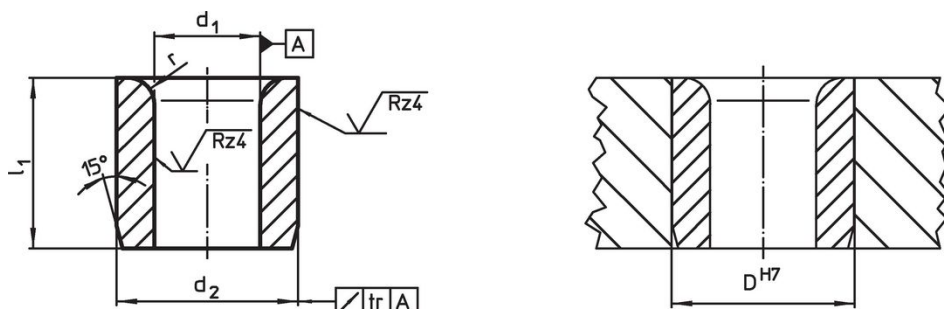
Positioning or drill bushings are used to drill repetitive holes in the same location to ensure repeatability.

The hardened and ground positioning bushings can be used as wear-resistant guide for drills, shafts etc.

### Material


- Case-hardened steel, case-hardened


### Drawing



### Order information

Dimensions				Location hole	[g]	Art. No.
d <sub>1</sub> F7	l <sub>1</sub> [mm]	d <sub>2</sub> n6	r	D H7 [mm]		
2.0	6	5	1.0	5	0.7	<a href="#">23112.0520</a>
2.0	9	5	1.0	5	1.1	<a href="#">23112.0521</a>
2.1	6	5	1.0	5	0.7	<a href="#">23112.0522</a>
2.1	9	5	1.0	5	1.1	<a href="#">23112.0523</a>
2.5	6	5	1.0	5	0.7	<a href="#">23112.0524</a>
2.5	9	5	1.0	5	1.0	<a href="#">23112.0525</a>
3.0	8	6	1.0	6	1.9	<a href="#">23112.0530</a>
3.0	12	6	1.0	6	1.9	<a href="#">23112.0531</a>
3.0	16	6	1.0	6	2.6	<a href="#">23112.0532</a>
3.1	8	6	1.0	6	1.2	<a href="#">23112.0533</a>
3.1	12	6	1.0	6	1.9	<a href="#">23112.0534</a>
3.1	16	6	1.0	6	3.2	<a href="#">23112.0535</a>
3.5	8	7	1.0	7	2.4	<a href="#">23112.0536</a>
3.5	12	7	1.0	7	2.6	<a href="#">23112.0537</a>
3.5	16	7	1.0	7	3.6	<a href="#">23112.0538</a>
4.0	8	7	1.0	7	1.5	<a href="#">23112.0540</a>
4.0	12	7	1.0	7	3.0	<a href="#">23112.0541</a>
4.0	16	7	1.0	7	3.2	<a href="#">23112.0542</a>
4.1	8	8	1.0	8	2.2	<a href="#">23112.0543</a>
4.1	12	8	1.0	8	3.4	<a href="#">23112.0544</a>
4.1	16	8	1.0	8	4.6	<a href="#">23112.0545</a>
4.5	8	8	1.0	8	2.1	<a href="#">23112.0546</a>
4.5	12	8	1.0	8	3.1	<a href="#">23112.0547</a>
4.5	16	8	1.0	8	4.2	<a href="#">23112.0548</a>
5.0	8	8	1.0	8	1.8	<a href="#">23112.0550</a>
5.0	12	8	1.0	8	3.4	<a href="#">23112.0551</a>
5.0	16	8	1.0	8	3.7	<a href="#">23112.0552</a>
5.1	10	10	1.5	10	4.4	<a href="#">23112.0553</a>
5.1	16	10	1.5	10	7.1	<a href="#">23112.0554</a>
5.1	20	10	1.5	10	8.9	<a href="#">23112.0555</a>
5.5	10	10	1.5	10	4.1	<a href="#">23112.0556</a>

d <sub>1</sub> F7	Dimensions			Location hole D H7 [mm]	 [g]	Art. No.
	l <sub>1</sub> [mm]	d <sub>2</sub> n6	r			
5.5	16	10	1.5	10	6.7	<a href="#">23112.0557</a>
5.5	20	10	1.5	10	8.4	<a href="#">23112.0558</a>
6.0	10	10	1.5	10	3.8	<a href="#">23112.0560</a>
6.0	16	10	1.5	10	6.1	<a href="#">23112.0561</a>
6.0	20	10	1.5	10	7.7	<a href="#">23112.0562</a>
6.1	10	12	1.5	12	6.3	<a href="#">23112.0563</a>
6.1	16	12	1.5	12	10.0	<a href="#">23112.0564</a>
6.1	20	12	1.5	12	13.0	<a href="#">23112.0565</a>
6.5	10	12	1.5	12	6.0	<a href="#">23112.0566</a>
6.5	16	12	1.5	12	9.7	<a href="#">23112.0567</a>
6.5	20	12	1.5	12	12.0	<a href="#">23112.0568</a>
7.0	10	12	1.5	12	5.6	<a href="#">23112.0570</a>
7.0	16	12	1.5	12	9.1	<a href="#">23112.0571</a>
7.0	20	12	1.5	12	11.0	<a href="#">23112.0572</a>
7.1	10	12	1.5	12	5.5	<a href="#">23112.0573</a>
7.1	16	12	1.5	12	9.0	<a href="#">23112.0574</a>
7.1	20	12	1.5	12	11.0	<a href="#">23112.0575</a>
7.5	10	12	1.5	12	5.1	<a href="#">23112.0576</a>
7.5	16	12	1.5	12	8.4	<a href="#">23112.0577</a>
7.5	20	12	1.5	12	11.0	<a href="#">23112.0578</a>
8.0	10	12	1.5	12	4.7	<a href="#">23112.0580</a>
8.0	16	12	1.5	12	7.6	<a href="#">23112.0581</a>
8.0	20	12	1.5	12	9.6	<a href="#">23112.0582</a>
8.1	12	15	2.0	15	11.0	<a href="#">23112.0583</a>
8.1	20	15	2.0	15	19.0	<a href="#">23112.0584</a>
8.1	25	15	2.0	15	24.0	<a href="#">23112.0585</a>
8.5	12	15	2.0	15	11.0	<a href="#">23112.0586</a>
8.5	20	15	2.0	15	18.0	<a href="#">23112.0587</a>
8.5	25	15	2.0	15	23.0	<a href="#">23112.0588</a>
9.0	12	15	2.0	15	10.0	<a href="#">23112.0590</a>
9.0	20	15	2.0	15	17.0	<a href="#">23112.0591</a>
9.0	25	15	2.0	15	22.0	<a href="#">23112.0592</a>
9.1	12	15	2.0	15	10.0	<a href="#">23112.0593</a>
9.1	20	15	2.0	15	17.0	<a href="#">23112.0594</a>
9.1	25	15	2.0	15	21.0	<a href="#">23112.0595</a>
9.5	12	15	2.0	15	9.5	<a href="#">23112.0596</a>
9.5	20	15	2.0	15	16.0	<a href="#">23112.0597</a>
9.5	25	15	2.0	15	20.0	<a href="#">23112.0598</a>
10.0	12	15	2.0	15	8.8	<a href="#">23112.0600</a>
10.0	20	15	2.0	15	15.0	<a href="#">23112.0601</a>
10.0	25	15	2.0	15	19.0	<a href="#">23112.0602</a>
10.1	12	18	2.0	18	16.0	<a href="#">23112.0603</a>
10.1	20	18	2.0	18	27.0	<a href="#">23112.0604</a>
10.1	25	18	2.0	18	33.0	<a href="#">23112.0605</a>
10.5	12	18	2.0	18	15.0	<a href="#">23112.0606</a>
10.5	20	18	2.0	18	26.0	<a href="#">23112.0607</a>
10.5	25	18	2.0	18	32.0	<a href="#">23112.0608</a>
11.0	12	18	2.0	18	14.0	<a href="#">23112.0610</a>
11.0	20	18	2.0	18	24.0	<a href="#">23112.0611</a>
11.0	25	18	2.0	18	31.0	<a href="#">23112.0612</a>
11.1	12	18	2.0	18	14.0	<a href="#">23112.0613</a>
11.1	20	18	2.0	18	24.0	<a href="#">23112.0614</a>
11.1	25	18	2.0	18	30.0	<a href="#">23112.0615</a>
11.5	12	18	2.0	18	13.0	<a href="#">23112.0616</a>
11.5	20	18	2.0	18	23.0	<a href="#">23112.0617</a>
11.5	25	18	2.0	18	29.0	<a href="#">23112.0618</a>
12.0	12	18	2.0	18	13.0	<a href="#">23112.0620</a>
12.0	20	18	2.0	18	22.0	<a href="#">23112.0621</a>
12.0	25	18	2.0	18	27.0	<a href="#">23112.0622</a>
12.1	16	22	2.0	22	32.0	<a href="#">23112.0623</a>
12.1	28	22	2.0	22	57.0	<a href="#">23112.0624</a>

d <sub>1</sub> F7	Dimensions			r	Location hole D H7 [mm]	 [g]	Art. No.
	l <sub>1</sub> [mm]	d <sub>2</sub> n6					
12.1	36	22		2.0	22	74.0	<a href="#">23112.0625</a>
12.5	16	22		2.0	22	31.0	<a href="#">23112.0626</a>
12.5	28	22		2.0	22	66.0	<a href="#">23112.0627</a>
12.5	36	22		2.0	22	69.0	<a href="#">23112.0628</a>
13.0	16	22		2.0	22	30.0	<a href="#">23112.0630</a>
13.0	28	22		2.0	22	53.0	<a href="#">23112.0631</a>
13.0	36	22		2.0	22	69.0	<a href="#">23112.0632</a>
14.0	16	22		2.0	22	27.0	<a href="#">23112.0640</a>
14.0	28	22		2.0	22	49.0	<a href="#">23112.0641</a>
14.0	36	22		2.0	22	63.0	<a href="#">23112.0642</a>
15.0	16	22		2.0	22	24.0	<a href="#">23112.0650</a>
15.0	28	22		2.0	22	44.0	<a href="#">23112.0651</a>
15.0	36	22		2.0	22	56.0	<a href="#">23112.0652</a>
16.0	16	26		2.0	26	45.0	<a href="#">23112.0660</a>
16.0	28	26		2.0	26	71.0	<a href="#">23112.0661</a>
16.0	36	26		2.0	26	92.0	<a href="#">23112.0662</a>
16.1	16	26		2.0	26	40.0	<a href="#">23112.0663</a>
16.1	28	26		2.0	26	71.0	<a href="#">23112.0664</a>
16.1	36	26		2.0	26	91.0	<a href="#">23112.0665</a>
16.5	16	26		2.0	26	39.0	<a href="#">23112.0666</a>
16.5	28	26		2.0	26	68.0	<a href="#">23112.0667</a>
16.5	36	26		2.0	26	88.0	<a href="#">23112.0668</a>
17.0	16	26		2.0	26	37.0	<a href="#">23112.0671</a>
17.0	28	26		2.0	26	65.0	<a href="#">23112.0672</a>
17.0	36	26		2.0	26	84.0	<a href="#">23112.0673</a>
18.0	16	26		2.0	26	33.0	<a href="#">23112.0681</a>
18.0	28	26		2.0	26	59.0	<a href="#">23112.0682</a>
18.0	36	26		2.0	26	76.0	<a href="#">23112.0683</a>
19.0	20	30		3.0	30	64.0	<a href="#">23112.0691</a>
19.0	36	30		3.0	30	117.0	<a href="#">23112.0692</a>
19.0	45	30		3.0	30	147.0	<a href="#">23112.0693</a>
20.0	20	30		3.0	30	59.0	<a href="#">23112.0701</a>
20.0	36	30		3.0	30	108.0	<a href="#">23112.0702</a>
20.0	45	30		3.0	30	136.0	<a href="#">23112.0703</a>
20.1	20	30		3.0	30	59.0	<a href="#">23112.0704</a>
20.1	36	30		3.0	30	108.0	<a href="#">23112.0705</a>
20.1	45	30		3.0	30	135.0	<a href="#">23112.0706</a>
22.0	20	30		3.0	30	49.0	<a href="#">23112.0721</a>
22.0	36	30		3.0	30	90.0	<a href="#">23112.0722</a>
22.0	45	30		3.0	30	113.0	<a href="#">23112.0723</a>
25.0	20	35		3.0	35	71.0	<a href="#">23112.0751</a>
25.0	36	35		3.0	35	130.0	<a href="#">23112.0752</a>
25.0	45	35		3.0	35	163.0	<a href="#">23112.0753</a>
30.0	25	42		3.0	42	129.0	<a href="#">23112.0801</a>
30.0	45	42		3.0	42	235.0	<a href="#">23112.0802</a>
30.0	56	42		3.0	42	293.0	<a href="#">23112.0803</a>

## Compliance

### RoHS compliant

Contains lead - compliant according to exceptions 6a / 6b / 6c.

### Contains SVHC substances >0,1% w/w

Contains lead - SVHC list [REACH] as of 27.06.2024.

### Contains Proposition 65 substances



Lead can cause cancer and reproductive harm 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.