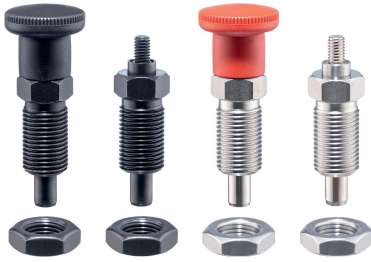


## Index Plungers Compact • with hexagon collar

EH 22110.



### Product Description

Index plungers are used for indexing bores.  
Types with / without lock have the same building height.  
Due to a thread recess the index plungers can be completely screwed in.

### Material

#### Body

- Steel, blackened
- Stainless steel 1.4305

#### Locking pin

- Steel, hardened
- Stainless steel 1.4305, nickel-plated

#### Knob

- Thermoplastic PA 6, black, dull
- Thermoplast PA 6, red, dull

### Assembly

The screw length can be adapted by distance collars for index plungers (EH 22120.).

### More information

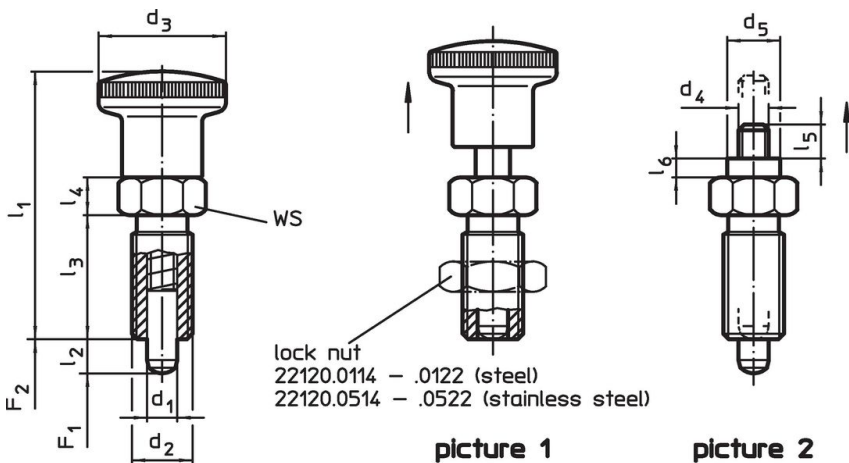
### Notes

Knob not removable.  
Lock nuts have to be purchased separately.

### Further products

- Mounting Blocks, for index bolts and index plungers, die-cast
- Locating Bushings, for index bolts and index plungers
- Distance Collars, for index plungers

### Drawing



### Order information

Dimensions											WS	Spring load <sup>1)</sup>		Temperature		Weight	Art. No.
d <sub>1</sub>	d <sub>2</sub>	l <sub>2</sub> min.	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	l <sub>1</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>		F <sub>1</sub> ~	F <sub>2</sub> ~	min.	max.		
[mm]											[mm]	[N]		[°C]		[g]	
<b>with knob, black – picture 1, Steel</b>																	
4	M 8 x 1	4	16	-	-	35.0	16	5	-	-	10	4.5	12.0	-30	80	10	<a href="#">22110.0103</a>
4	M 8 x 1	6	16	-	-	35.0	16	5	-	-	10	4.0	12.5	-30	80	10	<a href="#">22110.0104</a>
5	M10 x 1	5	19	-	-	40.0	18	6	-	-	12	5.0	15.0	-30	80	18	<a href="#">22110.0106</a>
5	M10 x 1	8	19	-	-	40.0	18	6	-	-	12	5.0	18.0	-30	80	18	<a href="#">22110.0107</a>
6	M12 x 1,5	6	23	-	-	48.0	22	6	-	-	14	6.5	19.0	-30	80	29	<a href="#">22110.0109</a>
6	M12 x 1,5	9	23	-	-	48.0	22	6	-	-	14	6.0	25.0	-30	80	29	<a href="#">22110.0110</a>
8	M16 x 1,5	8	28	-	-	58.0	26	8	-	-	17	8.5	26.0	-30	80	62	<a href="#">22110.0112</a>
8	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	8.5	28.0	-30	80	62	<a href="#">22110.0113</a>
10	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	9.5	38.0	-30	80	63	<a href="#">22110.0115</a>
12	M20 x 1,5	15	33	-	-	67.0	33	10	-	-	22	11.5	40.0	-30	80	128	<a href="#">22110.0116</a>
16	M24 x 2	20	33	-	-	78.5	38	12	-	-	27	13.0	54.0	-30	80	203	<a href="#">22110.0117</a>

<sup>1)</sup> statistical average value



d <sub>1</sub> -0.02 -0.05	d <sub>2</sub>	l <sub>2</sub> min.	Dimensions									WS [mm]	Spring load <sup>1)</sup>		 min. max. [°C]		 [g]	Art. No.	
			d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	l <sub>1</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>	F <sub>1</sub> ~		F <sub>2</sub> ~						
			[mm]										[N]						
<b>with knob, red – picture 1, Steel</b>																			
4	M 8 x 1	4	16	-	-	35.0	16	5	-	-	10	4.5	12.0	-30	80	10	22110.2103		
4	M 8 x 1	6	16	-	-	35.0	16	5	-	-	10	4.0	12.5	-30	80	11	22110.2104		
5	M10 x 1	5	19	-	-	40.0	18	6	-	-	12	5.0	15.0	-30	80	18	22110.2106		
5	M10 x 1	8	19	-	-	40.0	18	6	-	-	12	5.0	18.0	-30	80	18	22110.2107		
6	M12 x 1,5	6	23	-	-	48.0	22	6	-	-	14	6.5	19.0	-30	80	30	22110.2109		
6	M12 x 1,5	9	23	-	-	48.0	22	6	-	-	14	6.0	25.0	-30	80	29	22110.2110		
8	M16 x 1,5	8	28	-	-	58.0	26	8	-	-	17	8.5	26.0	-30	80	62	22110.2112		
8	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	8.5	28.0	-30	80	64	22110.2113		
10	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	9.5	38.0	-30	80	65	22110.2115		
12	M20 x 1,5	15	33	-	-	71.5	33	10	-	-	22	11.5	40.0	-30	80	117	22110.2116		
16	M24 x 2	20	33	-	-	78.5	38	12	-	-	27	13.0	54.0	-30	80	202	22110.2117		
<b>without knob – picture 2, Steel</b>																			
4	M 8 x 1	4	-	M3	7	-	16	5	4.5	2.5	10	4.5	12.0	-	250	9	22110.0143		
4	M 8 x 1	6	-	M3	7	-	16	5	4.5	2.5	10	4.0	12.5	-	250	9	22110.0144		
5	M10 x 1	5	-	M4	8	-	18	6	5.5	3.0	12	5.0	15.0	-	250	16	22110.0146		
5	M10 x 1	8	-	M4	8	-	18	6	5.5	3.0	12	5.0	18.0	-	250	17	22110.0147		
6	M12 x 1,5	6	-	M5	9	-	22	6	7.0	3.5	14	6.5	19.0	-	250	25	22110.0149		
6	M12 x 1,5	9	-	M5	9	-	22	6	7.0	3.5	14	6.0	25.0	-	250	26	22110.0150		
8	M16 x 1,5	8	-	M6	10	-	26	8	8.5	4.0	17	8.5	26.0	-	250	54	22110.0152		
8	M16 x 1,5	12	-	M6	10	-	26	8	8.5	4.0	17	8.5	28.0	-	250	55	22110.0153		
10	M16 x 1,5	12	-	M6	10	-	26	8	8.5	4.0	17	9.5	38.0	-	250	56	22110.0155		
12	M20 x 1,5	15	-	M6	12	-	33	10	8.5	4.0	22	11.5	40.0	-	250	111	22110.0156		
16	M24 x 2	20	-	M8	15	-	38	12	11.5	5.0	27	13.0	54.0	-	250	193	22110.0157		
<b>with knob, black – picture 1, Stainless steel</b>																			
4	M 8 x 1	4	16	-	-	35.0	16	5	-	-	10	4.5	12.0	-30	80	10	22110.0203		
4	M 8 x 1	6	16	-	-	35.0	16	5	-	-	10	4.0	12.5	-30	80	10	22110.0204		
5	M10 x 1	5	19	-	-	40.0	18	6	-	-	12	5.0	15.0	-30	80	18	22110.0206		
5	M10 x 1	8	19	-	-	40.0	18	6	-	-	12	5.0	18.0	-30	80	18	22110.0207		
6	M12 x 1,5	6	23	-	-	48.0	22	6	-	-	14	6.5	19.0	-30	80	29	22110.0209		
6	M12 x 1,5	9	23	-	-	48.0	22	6	-	-	14	6.0	25.0	-30	80	29	22110.0210		
8	M16 x 1,5	8	28	-	-	58.0	26	8	-	-	17	8.5	26.0	-30	80	62	22110.0212		
8	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	8.5	28.0	-30	80	62	22110.0213		
10	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	9.5	38.0	-30	80	63	22110.0215		
12	M20 x 1,5	15	33	-	-	67.0	33	10	-	-	22	11.5	40.0	-30	80	128	22110.0216		
16	M24 x 2	20	33	-	-	78.5	38	12	-	-	27	13.0	54.0	-30	80	203	22110.0217		
<b>with knob, red – picture 1, Stainless steel</b>																			
4	M 8 x 1	4	16	-	-	35.0	16	5	-	-	10	4.5	12.0	-30	80	10	22110.2203		
4	M 8 x 1	6	16	-	-	35.0	16	5	-	-	10	4.0	12.5	-30	80	11	22110.2204		
5	M10 x 1	5	19	-	-	40.0	18	6	-	-	12	5.0	15.0	-30	80	18	22110.2206		
5	M10 x 1	8	19	-	-	40.0	18	6	-	-	12	5.0	18.0	-30	80	18	22110.2207		
6	M12 x 1,5	6	23	-	-	48.0	22	6	-	-	14	6.5	19.0	-30	80	30	22110.2209		
6	M12 x 1,5	9	23	-	-	48.0	22	6	-	-	14	6.0	25.0	-30	80	29	22110.2210		
8	M16 x 1,5	8	28	-	-	58.0	26	8	-	-	17	8.5	26.0	-30	80	62	22110.2212		
8	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	8.5	28.0	-30	80	64	22110.2213		
10	M16 x 1,5	12	28	-	-	58.0	26	8	-	-	17	9.5	38.0	-30	80	65	22110.2215		
12	M20 x 1,5	15	33	-	-	71.5	33	10	-	-	22	11.5	40.0	-30	80	117	22110.2216		
16	M24 x 2	20	33	-	-	78.5	38	12	-	-	27	13.0	54.0	-30	80	202	22110.2217		
<b>without knob – picture 2, Stainless steel</b>																			
4	M 8 x 1	4	-	M3	7	-	16	5	4.5	2.5	10	4.5	12.0	-	250	9	22110.0243		
4	M 8 x 1	6	-	M3	7	-	16	5	4.5	2.5	10	4.0	12.5	-	250	9	22110.0244		
5	M10 x 1	5	-	M4	8	-	18	6	5.5	3.0	12	5.0	15.0	-	250	16	22110.0246		
5	M10 x 1	8	-	M4	8	-	18	6	5.5	3.0	12	5.0	18.0	-	250	17	22110.0247		
6	M12 x 1,5	6	-	M5	9	-	22	6	7.0	3.5	14	6.5	19.0	-	250	25	22110.0249		
6	M12 x 1,5	9	-	M5	9	-	22	6	7.0	3.5	14	6.0	25.0	-	250	26	22110.0250		
8	M16 x 1,5	8	-	M6	10	-	26	8	8.5	4.0	17	8.5	26.0	-	250	54	22110.0252		

<sup>1)</sup> statistical average value

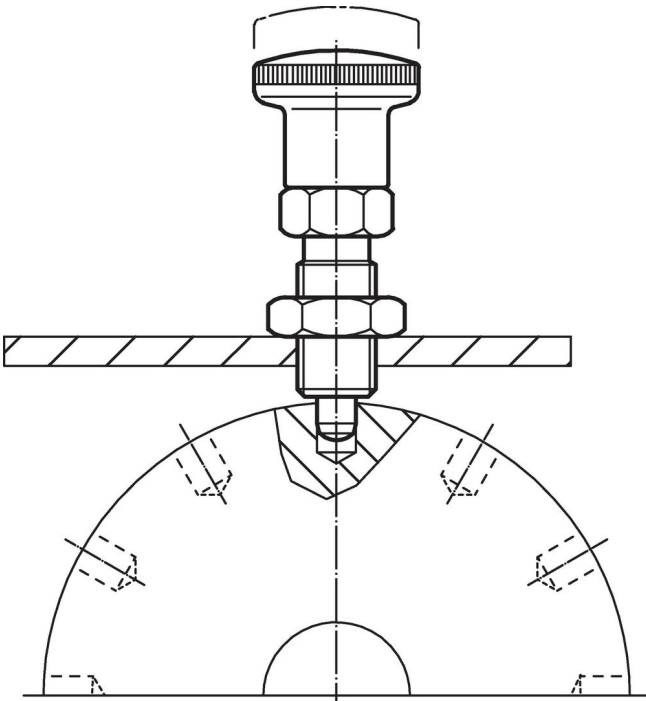
d <sub>1</sub> -0.02 -0.05	d <sub>2</sub>	l <sub>2</sub> min.	Dimensions								WS [mm]	Spring load <sup>1)</sup>		min. max.		[g]	Art. No.
			d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	l <sub>1</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	l <sub>6</sub>		F <sub>1</sub> ~	F <sub>2</sub> ~	[°C]			
			[mm]									[N]					
8	M16 x 1,5	12	-	M6	10	-	26	8	8.5	4.0	17	8.5	28.0	-	250	55	<a href="#">22110.0253</a>
10	M16 x 1,5	12	-	M6	10	-	26	8	8.5	4.0	17	9.5	38.0	-	250	56	<a href="#">22110.0255</a>
12	M20 x 1,5	15	-	M6	12	-	33	10	8.5	4.0	22	11.5	40.0	-	250	111	<a href="#">22110.0256</a>
16	M24 x 2	20	-	M8	15	-	38	12	11.5	5.0	27	13.0	54.0	-	250	193	<a href="#">22110.0257</a>

<sup>1)</sup> statistical average value

### Accessories

	Dimensions		Wrench size		[g]	Art. No.
	d <sub>2</sub> [mm]		[mm]			
<b>Lock nuts ISO 8675 (DIN 439), Steel</b>						
	M 8 x 1		13		2.7	<a href="#">22120.0114</a>
	M10 x 1		16		5.2	<a href="#">22120.0115</a>
	M12 x 1,5		18		7.5	<a href="#">22120.0116</a>
	M16 x 1,5		24		15.0	<a href="#">22120.0118</a>
	M20 x 1,5		30		32.0	<a href="#">22120.0120</a>
	M24 x 2		36		58.0	<a href="#">22120.0122</a>
<b>Lock nuts ISO 8675 (DIN 439), Stainless steel</b>						
	M 8 x 1		13		2.7	<a href="#">22120.0514</a>
	M10 x 1		16		5.2	<a href="#">22120.0515</a>
	M12 x 1,5		18		7.5	<a href="#">22120.0516</a>
	M16 x 1,5		24		15.0	<a href="#">22120.0518</a>
	M20 x 1,5		30		32.0	<a href="#">22120.0520</a>
	M24 x 2		36		58.0	<a href="#">22120.0522</a>

### Application example



### Compliance

For detailed compliance information please select the desired article number.