

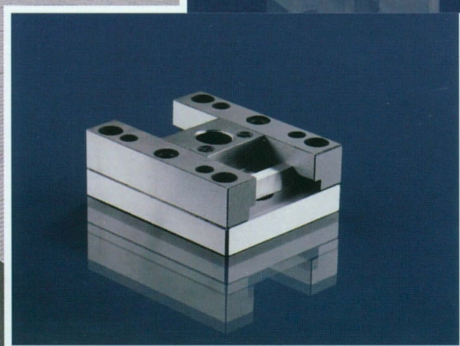


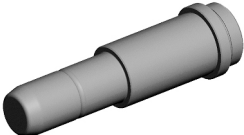
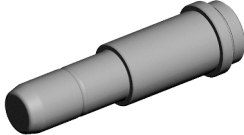
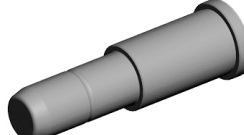
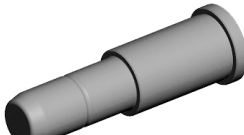
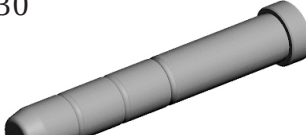
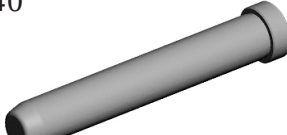
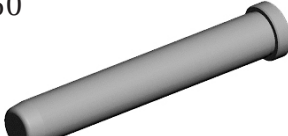
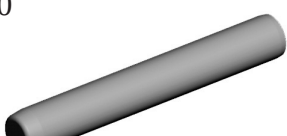
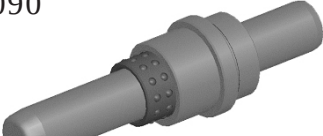
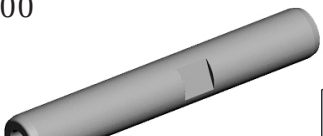
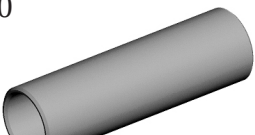
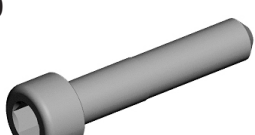
FODESCO®

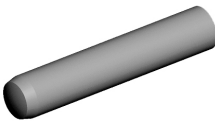
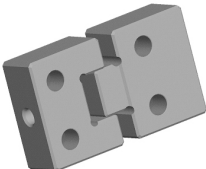
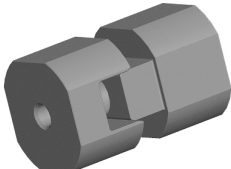
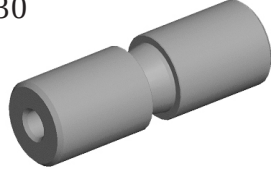
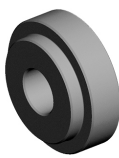
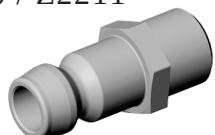
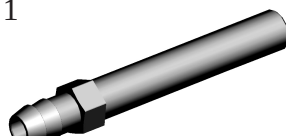
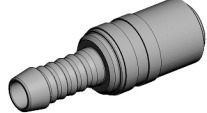
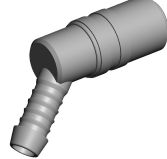
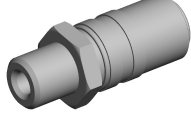
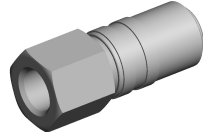
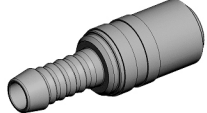
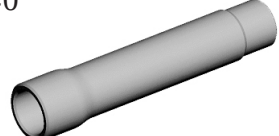
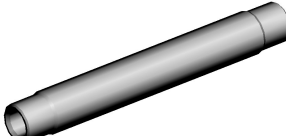
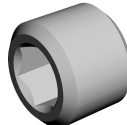
EVERYTHING FOR MOULDS

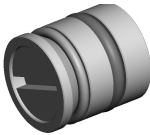
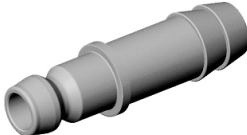
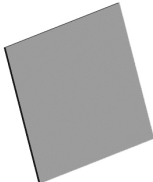
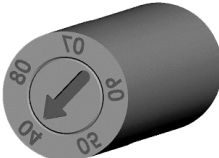
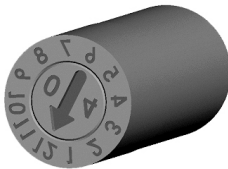
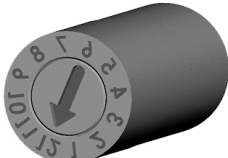
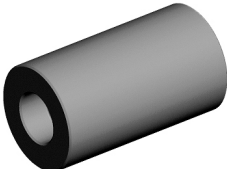
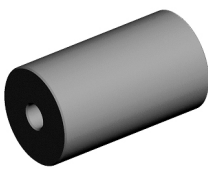
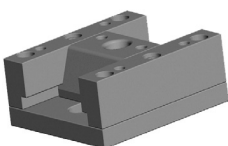
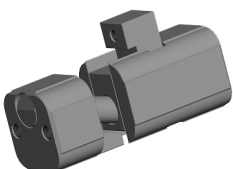
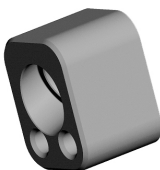
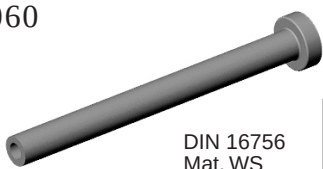
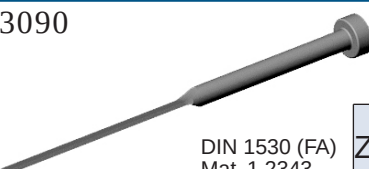
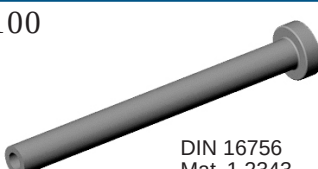
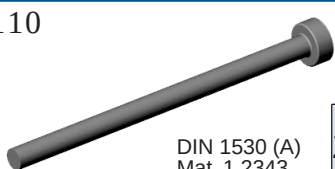


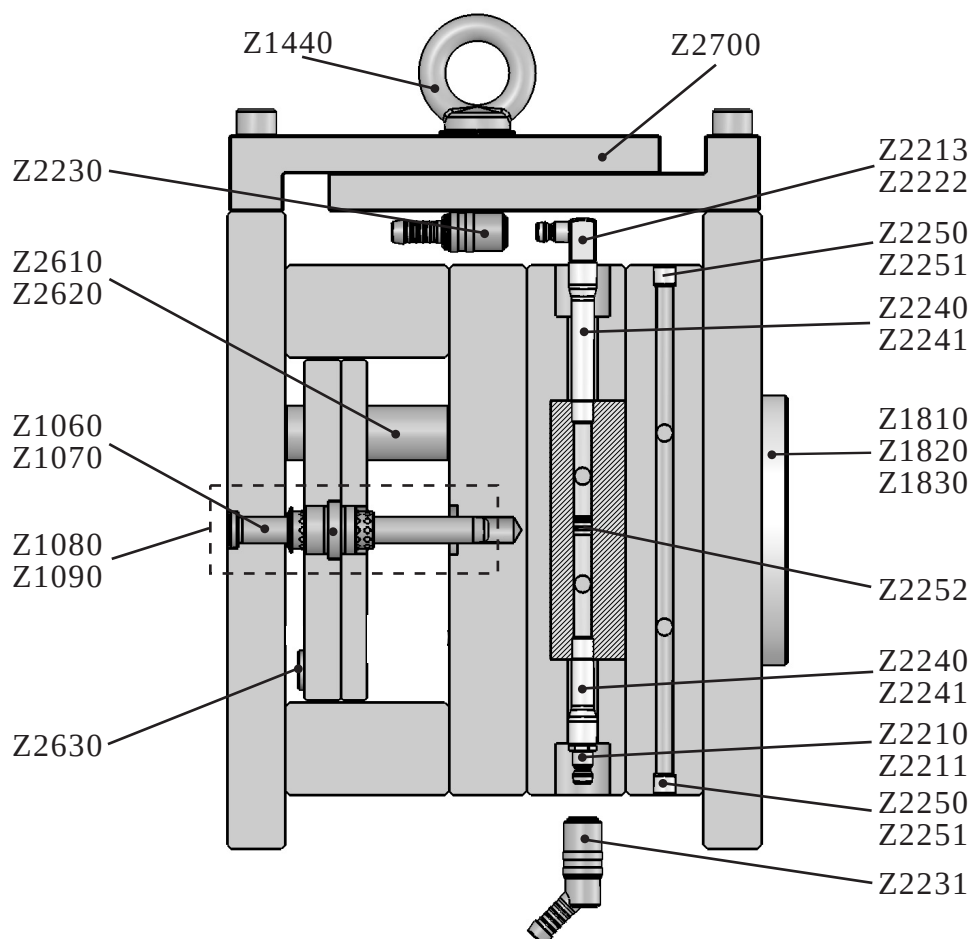
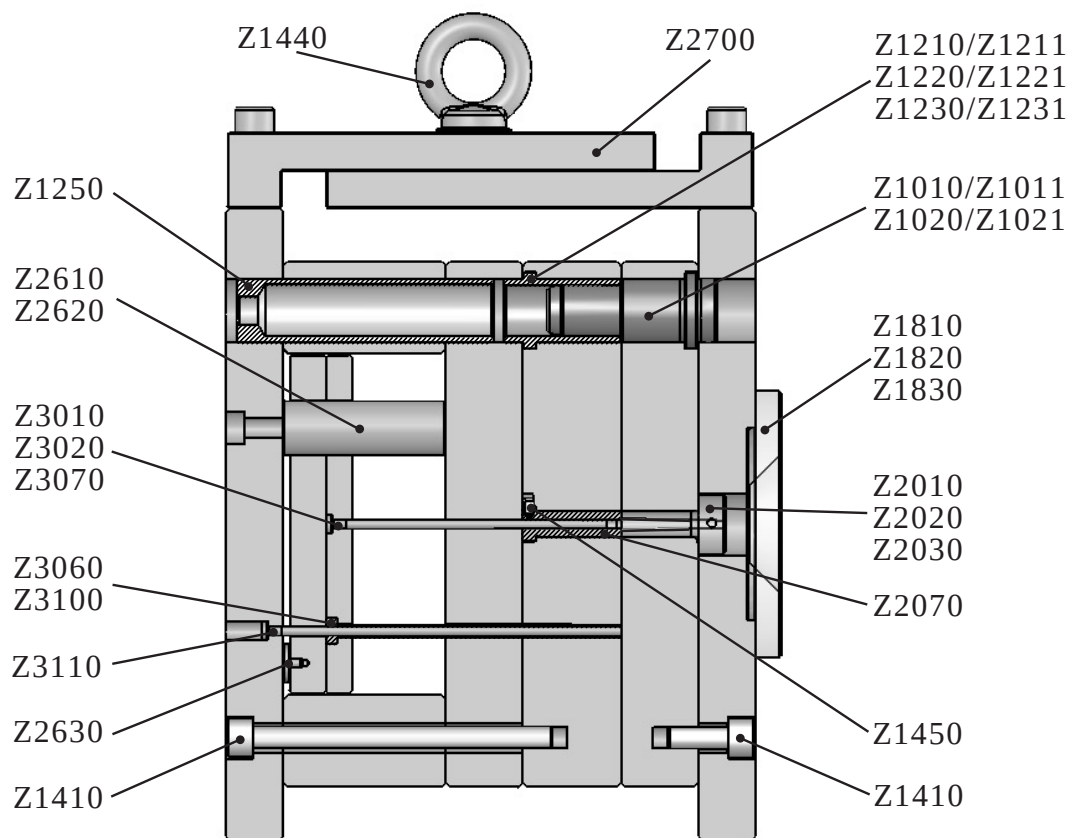
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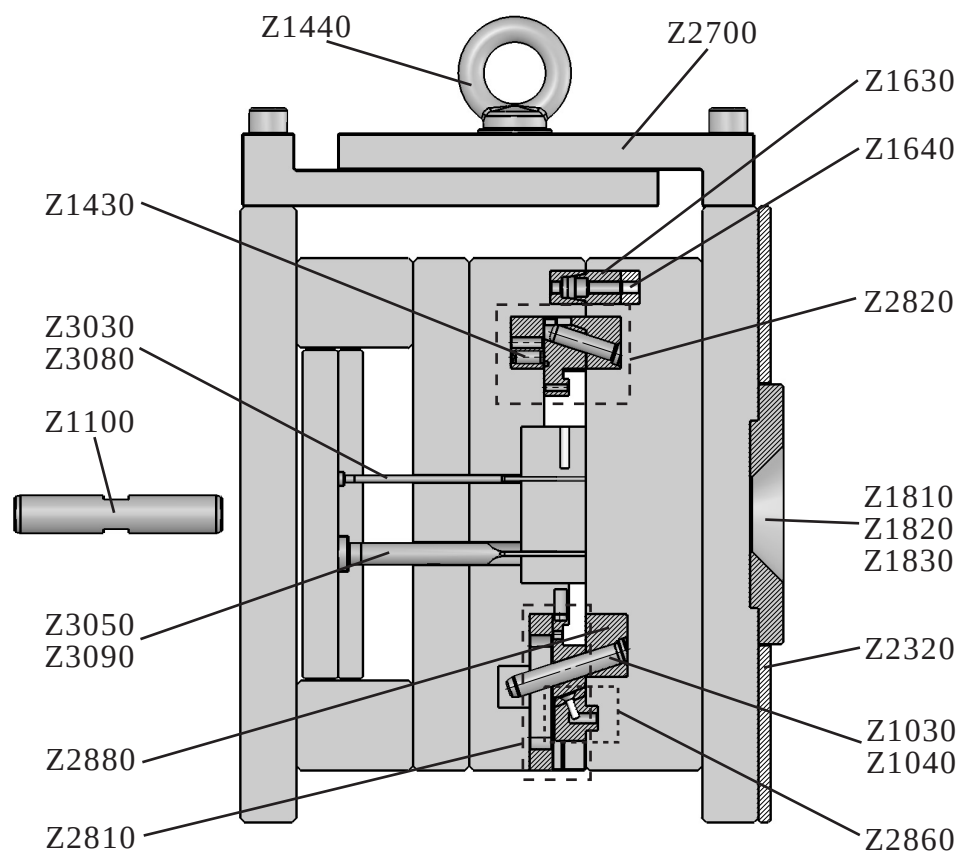
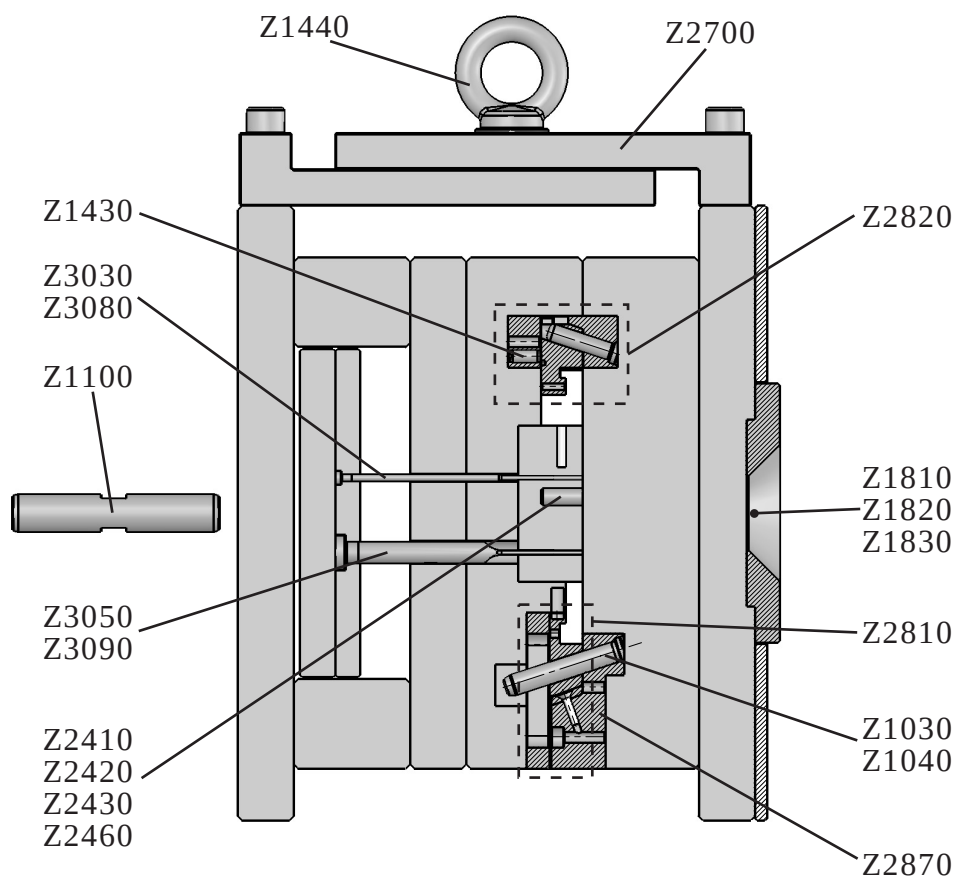


Z1010  Z6	Z1011  Z8	Z1020  Z10
Z1021  Z12	Z1030  Z14	Z1040  Z14
Z1060  Z15	Z1070  Z15	Z1080  Z15
Z1090  Z15	Z1100  Z16	Z1210  Z17
Z1211  Z17	Z1220  Z18	Z1221  Z18
Z1222  Z19	Z1223  Z20	Z1224  Z19
Z1230  Z21	Z1231  Z21	
Z1240  Z22	Z1250  Z22	Z1410  Z23
Z1420  Z24	Z1430  Z24	Z1440  Z24

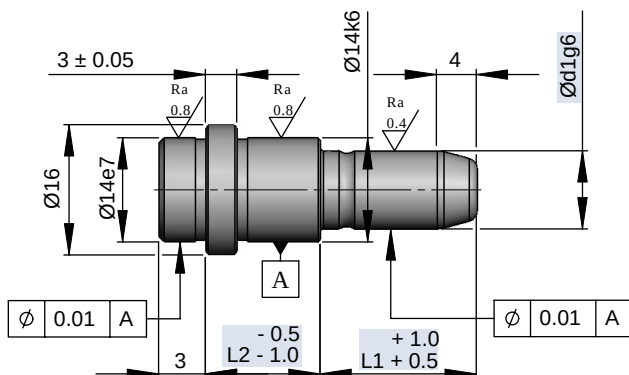
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Z1630  	Z1640  	Z1650  
Z1660  	Z1810  	Z1820  
Z1830  	Z2010 / Z2020 / Z2030  	Z2070  
Z2210 / Z2211  	Z2212  	Z2213  
Z2220  	Z2221  	Z2222  
Z2223  	Z2230  	Z2231  
Z2232  	Z2233  	Z2234  
Z2235  	Z2236  	Z2237  
Z2240  	Z2241  	Z2250 / Z2251  

Z2252  Z35	Z2260  Z36	Z2261  Z36
Z2320  Z36	Z2410  Z37	Z2420  Z37
Z2430  Z37	Z2450  Z37	Z2451  Z37
Z2460  Z38	Z2610  Z39	Z2620  Z39
Z2630  Z39		Z2810  Z40
Z2820  Z41	Z2860  Z46	Z2870  Z47
Z2880  Z48	Z3010  DIN 1530 (AH) Mat. WS Z49	Z3020  DIN 1530 (AH) Mat. HSS Z53
Z3030  DIN 1530 (CH) Mat. WS Z54	Z3040  DIN 1530 (D) Mat. WS Z55	Z3050  DIN 1530 (FAH) Mat. WS Z57
Z3060  DIN 16756 Mat. WS Z59	Z3070  DIN 1530 (A) Mat. 1.2343 Z61	Z3080  DIN 1530 (C) Mat. 1.2343 Z65
Z3090  DIN 1530 (FA) Mat. 1.2343 Z66	Z3100  DIN 16756 Mat. 1.2343 Z68	Z3110  DIN 1530 (A) Mat. 1.2343 Z70





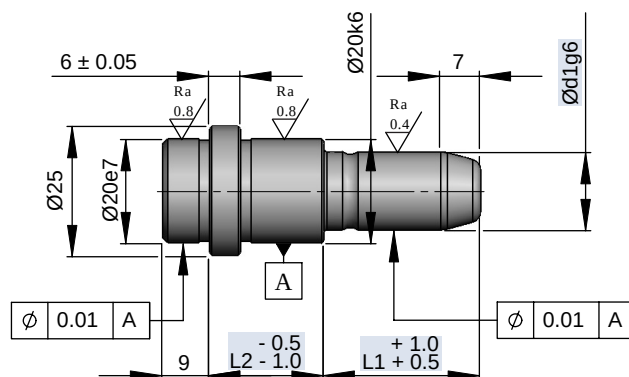
Ø10



Mat. DIN C15/720HV

Z1010/L2/d1x L1	Z1010/L2/d1x L1		
Z1010/17/10x 20	Z1010/56/10x 35		
30	60		
50			
70			
Z1010/22/10x 25			
35			
55			
75			
95			
Z1010/27/10x 20			
30			
50			
70			
90			
Z1010/36/10x 25			
45			
65			
85			
Z1010/46/10x 30			
45			
70			

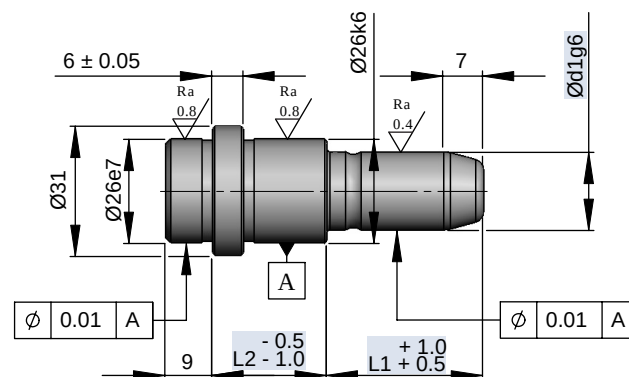
Ø15



Mat. DIN C15/720HV

Z1010/L2/d1x L1	Z1010/L2/d1x L1	Z1010/L2/d1x L1	
Z1010/17/15x 35	Z1010/36/15x 55	Z1010/66/15x 55	
55	55	65	
75	75	95	
95	95	125	
Z1010/22/15x 30	125	Z1010/76/15x 55	
50	155	95	
70	Z1010/46/15x 30	Z1010/86/15x 55	
90	45	95	
110	65	Z1010/96/15x 55	
125	85	95	
150	105	Z1010/116/15x 75	
Z1010/27/15x 30	125		
45	145		
65	Z1010/56/15x 35		
85	55		
105	75		
125	95		
145	135		
165			

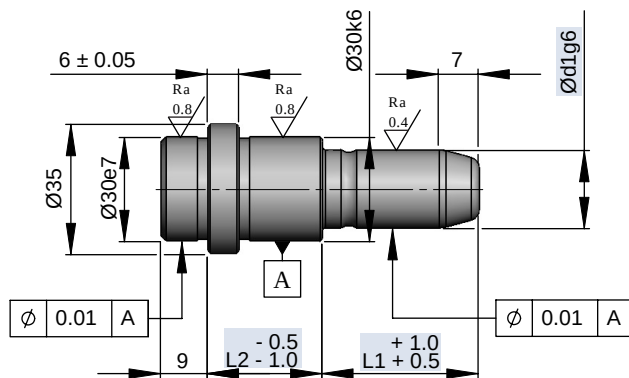
Ø20



Mat. DIN C15/720HV

Z1010/L2/d1x L1	Z1010/L2/d1x L1	Z1010/L2/d1x L1	Z1010/L2/d1x L1
Z1010/17/20x 35	Z1010/36/20x 35	Z1010/56/20x 35	Z1010/96/20x 55
55	55	55	75
75	75	75	Z1010/116/20x 55
120	95	95	75
Z1010/22/20x 35	115	155	Z1010/136/20x135
45	135	Z1010/66/20x 35	
65	165	55	
85	225	75	
115	255	95	
Z1010/27/20x 35	Z1010/46/20x 35	145	
45	45	Z1010/76/20x 55	
65	65	75	
85	85	95	
105	105	145	
125	135	Z1010/86/20x 55	
165	165	75	
225	245	95	
245		125	

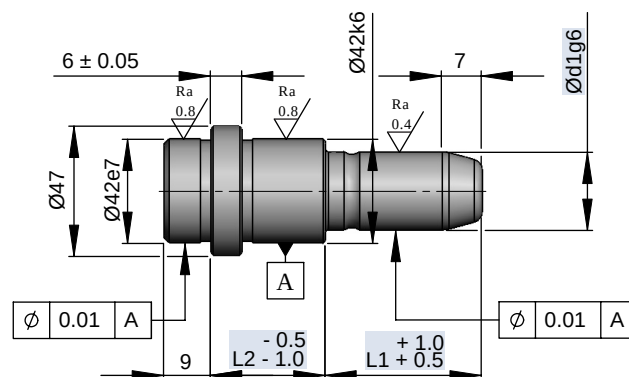
Ø24



Mat. DIN C15/720HV

Z1010/L2/d1x L1	Z1010/L2/d1x L1	Z1010/L2/d1x L1	Z1010/L2/d1x L1
Z1010/17/24x 35	55	Z1010/36/24x 35	55
55	55	Z1010/56/24x 35	75
75	75		95
Z1010/22/24x 35	95		135
55	115		135
75	135		165
105	165		205
130	205	Z1010/66/24x 35	125
Z1010/27/24x 35	245		125
45	285		155
65			155
85	45		155
105	65		155
125	85		155
165	105		155
205	125		155
245	165		155
285	205		155

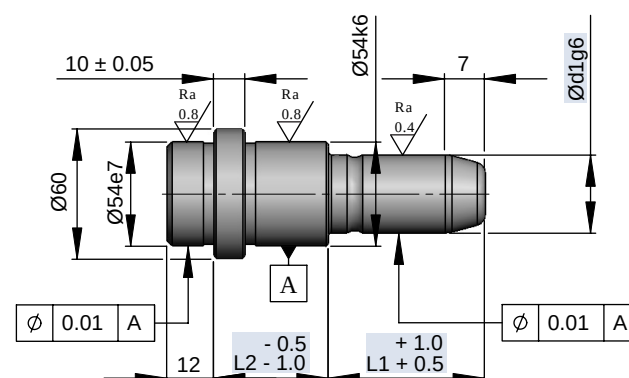
Ø32



Mat. DIN C15/720HV

Z1010/L2/d1x L1	Z1010/L2/d1x L1	Z1010/L2/d1x L1
Z1010/27/32x 45	55	Z1010/86/32x 55
65	75	
105	95	
165	115	
185	135	
245	175	
285	245	
Z1010/36/32x 55	295	
75	55	
95	75	
115	95	
155	115	
245	135	
285	175	
Z1010/46/32x 45	245	
65	295	
85	55	
105	75	
125	95	
165	115	
245	155	
285	225	

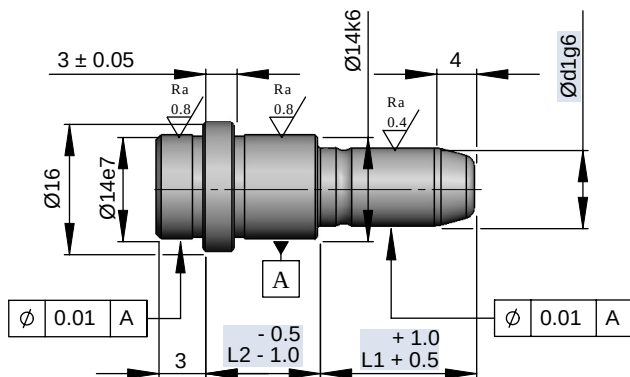
Ø42



Mat. DIN C15/720HV

Z1010/L2/d1x L1	Z1010/L2/d1x L1
Z1010/56/42x 155	Z1010/136/42x 95
195	135
Z1010/66/42x 75	215
135	215
Z1010/76/42x 75	155
115	215
175	215
Z1010/86/42x 75	195
135	195
Z1010/96/42x 75	245
115	
155	
Z1010/116/42x 95	
135	

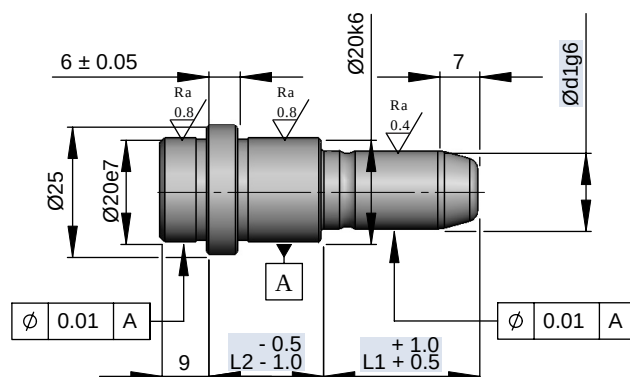
Ø9



Mat. DIN C15/720HV

Z1011/L2/d1x L1	Z1011/L2/d1x L1		
Z1011/17/9x 20	Z1011/56/9x 35		
30	60		
50			
70			
Z1011/22/9x 25			
35			
55			
75			
95			
Z1011/27/9x 20			
30			
50			
70			
90			
Z1011/36/9x 25			
45			
65			
85			
Z1011/46/9x 30			
45			
70			

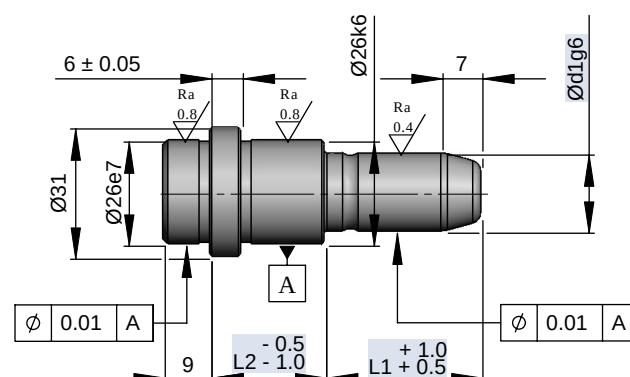
Ø14



Mat. DIN C15/720HV

Z1011/L2/d1x L1	Z1011/L2/d1x L1	Z1011/L2/d1x L1	
Z1011/17/14x 35	Z1011/36/14x 35	Z1011/66/14x 55	
55	55	65	
75	75	95	
95	95	125	
Z1011/22/14x 30	125	Z1011/76/14x 55	
50	155	95	
70	Z1011/46/14x 30	Z1011/86/14x 55	
90	45	95	
110	65	Z1011/96/14x 55	
125	85	95	
150	105	Z1011/116/14x 75	
Z1011/27/14x 30	125		
45	145		
65	Z1011/56/14x 35		
85	55		
105	75		
125	95		
145	135		
165			

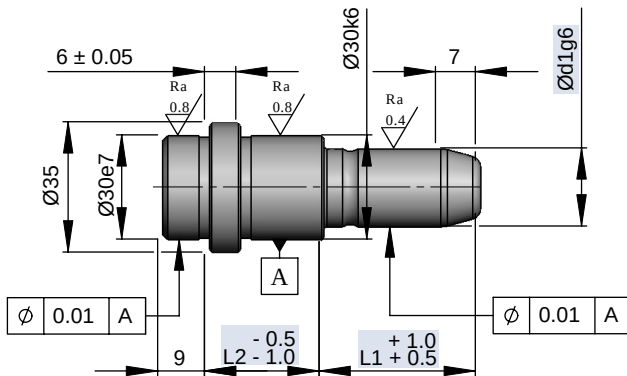
Ø18



Mat. DIN C15/720HV

Z1011/L2/d1x L1	Z1011/L2/d1x L1	Z1011/L2/d1x L1	Z1011/L2/d1x L1
Z1011/17/18x 35	Z1011/36/18x 35	Z1011/56/18x 35	Z1011/96/18x 55
55	55	55	75
75	75	75	Z1011/116/18x 55
120	95	95	75
Z1011/22/18x 35	115	155	Z1011/136/18x135
45	135	Z1011/66/18x 35	
65	165	55	
85	225	75	
115	255	95	
Z1011/27/18x 35	Z1011/46/18x 35	145	
45	45	Z1011/76/18x 55	
65	65	75	
85	85	95	
105	105	145	
125	135	Z1011/86/18x 55	
165	165	75	
225	245	95	
245		125	

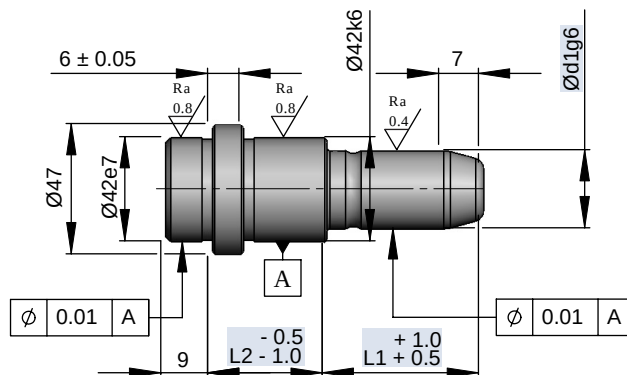
Ø22



Mat. DIN C15/720HV

Z1011/L2/d1x L1	Z1011/L2/d1x L1	Z1011/L2/d1x L1	Z1011/L2/d1x L1
Z1011/17/22x 35	Z1011/36/22x 35	Z1011/56/22x 35	Z1011/86/22x 55
55	55	55	75
75	75	75	95
Z1011/22/22x 35	95	95	135
55	115	115	Z1011/96/22x 55
75	135	165	75
105	165	205	95
130	205	Z1011/66/22x 35	125
Z1011/27/22x 35	245	55	Z1011/116/22x 75
45	285	75	115
65	Z1011/46/22x 35	95	155
85	45	155	Z1011/136/22x 95
105	65	Z1011/76/22x 55	135
125	85	75	Z1011/156/22x155
165	105	95	
205	125	115	
245	165	145	
285	205		

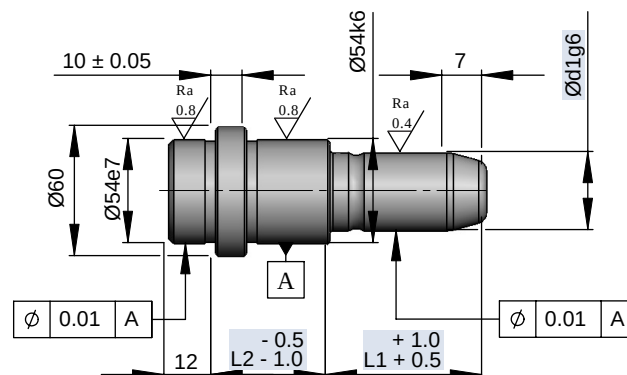
Ø30



Mat. DIN C15/720HV

Z1011/L2/d1x L1	Z1011/L2/d1x L1	Z1011/L2/d1x L1	
Z1011/27/30x 45	Z1011/56/30x 55	Z1011/86/30x 55	
65	75	75	
105	95	95	
165	115	115	
185	135	155	
245	175	225	
285	245	Z1011/96/30x 55	
Z1011/36/30x 55	295	75	
75	Z1011/66/30x 55	95	
95	75	115	
115	95	155	
155	115	205	
245	135	Z1011/116/30x 75	
285	175	115	
Z1011/46/30x 45	245	155	
65	295	Z1011/136/30x 95	
85	Z1011/76/30x 55	115	
105	75	155	
125	95	Z1011/156/30x115	
165	115	155	
245	155	Z1011/196/30x155	
285	225		

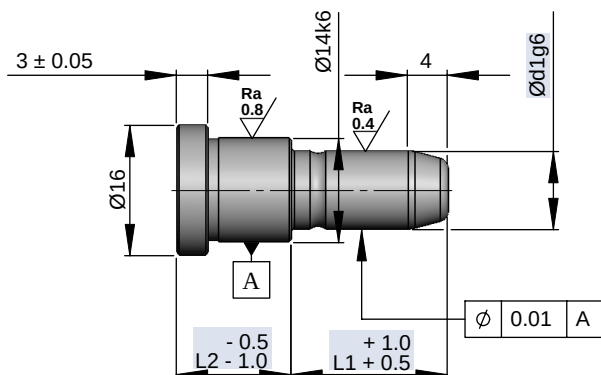
Ø40



Mat. DIN C15/720HV

Z1011/L2/d1x L1	Z1011/L2/d1x L1		
Z1011/56/40x 155	Z1011/136/40x 95		
195	135		
Z1011/66/40x 75	215		
135	Z1011/156/40x 115		
Z1011/76/40x 75	155		
115	215		
175	Z1011/196/40x 155		
Z1011/86/40x 75	195		
135	Z1011/246/40x 165		
Z1011/96/40x 75	245		
115			
155			
Z1011/116/40x 95			
135			

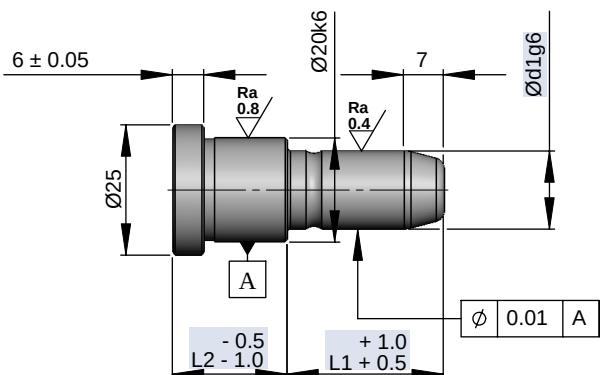
Ø10



Mat. DIN C15/720HV

Z1020/L2/d1x L1	Z1020/L2/d1x L1		
Z1020/17/10x 20	Z1020/46/10x 30		
30	45		
50	70		
70	35		
Z1020/22/10x 25	Z1020/56/10x 60		
35			
55			
75			
95			
Z1020/27/10x 20			
30			
50			
70			
90			
Z1020/36/10x 25			
45			
65			
85			

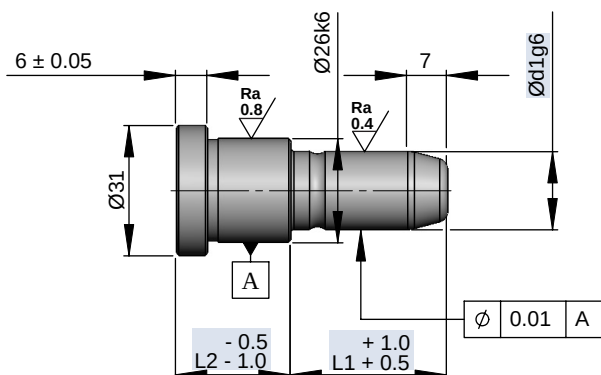
Ø15



Mat. DIN C15/720HV

Z1020/L2/d1x L1	Z1020/L2/d1x L1	Z1020/L2/d1x L1	
Z1020/17/15x 35	Z1020/36/15x 35	Z1020/66/15x 55	
55	55	65	
75	75	95	
95	95	125	
Z1020/22/15x 30	125	Z1020/76/15x 55	
50	155	95	
70	Z1020/46/15x 35	Z1020/86/15x 55	
90	45	95	
110	65	Z1020/96/15x 55	
125	85	95	
150	105	Z1020/116/15x 75	
Z1020/27/15x 30	125		
45	145		
65	Z1020/56/15x 35		
85	55		
105	75		
125	95		
145	135		
165			

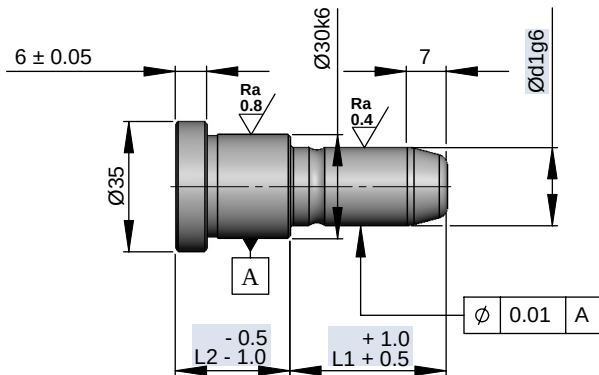
Ø20



Mat. DIN C15/720HV

Z1020/L2/d1x L1	Z1020/L2/d1x L1	Z1020/L2/d1x L1	Z1020/L2/d1x L1
Z1020/17/20x 35	Z1020/36/20x 35	Z1020/56/20x 35	Z1020/96/20x 55
55	55	55	75
75	75	75	Z1020/116/20x 55
120	95	95	75
Z1020/22/20x 35	115	155	Z1020/136/20x135
45	135	Z1020/66/20x 35	
65	165	55	
85	225	75	
115	255	95	
Z1020/27/20x 35	Z1020/46/20x 35	145	
45	45	Z1020/76/20x 55	
65	65	75	
85	85	95	
105	105	135	
125	135	Z1020/86/20x 55	
165	165	75	
225	245	95	
245		125	

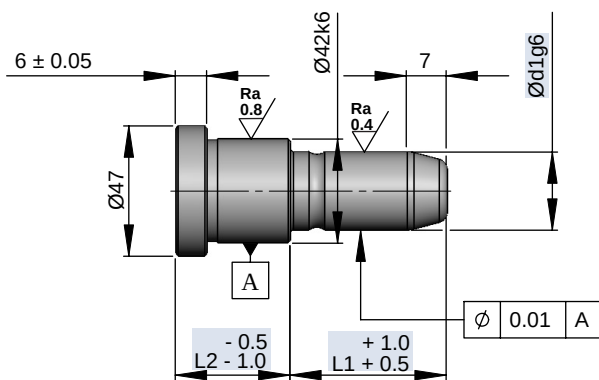
Ø24



Mat. DIN C15/720HV

Z1020/L2/d1x L1	Z1020/L2/d1x L1	Z1020/L2/d1x L1	Z1020/L2/d1x L1
Z1020/17/24x 35	Z1020/36/24x 35	Z1020/56/24x 35	Z1020/86/24x 55
55	55	55	75
75	75	75	95
Z1020/22/24x 35	95	95	135
55	115	115	Z1020/96/24x 55
75	135	165	75
105	165	205	95
130	205	Z1020/66/24x 35	125
Z1020/27/24x 35	245	55	Z1020/116/24x 75
45	285	75	115
65	Z1020/46/24x 35	95	155
85	45	155	Z1020/136/24x 95
105	65	Z1020/76/24x 55	135
125	85	75	155
165	105	95	
205	125	115	
245	165	145	
285	205		

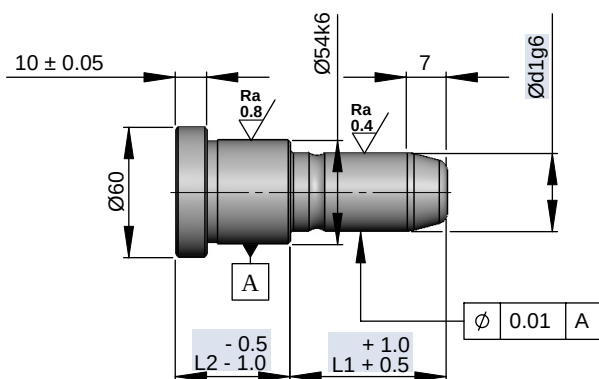
Ø32



Mat. DIN C15/720HV

Z1020/L2/d1x L1	Z1020/L2/d1x L1	Z1020/L2/d1x L1	Z1020/L2/d1x L1
Z1020/27/32x 45	Z1020/46/32x 45	Z1020/66/32x 55	Z1020/96/32x 55
65	65	75	75
105	85	95	95
165	95	115	115
185	105	135	155
245	125	175	205
285	165	245	Z1020/116/32x 75
Z1020/36/32x 55	245	295	115
75	285	Z1020/76/32x 55	155
95	Z1020/56/32x 55	75	Z1020/136/32x 95
115	75	95	115
155	95	115	155
245	115	155	Z1020/156/32x 115
285	135	225	155
	175	Z1020/86/32x 55	Z1020/196/32x 155
	245	75	
	295	95	
		115	
		155	
		225	

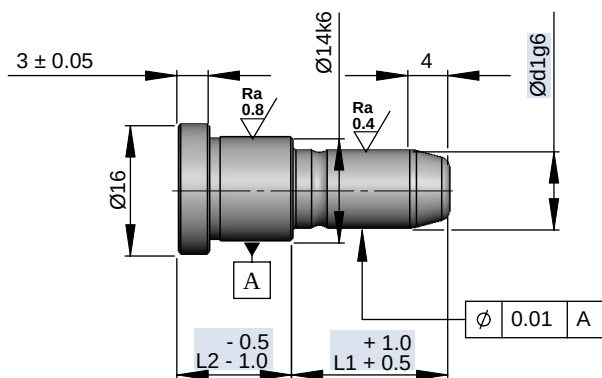
Ø42



Mat. DIN C15/720HV

Z1020/L2/d1x L1	Z1020/L2/d1x L1		
Z1020/56/42x 155	Z1020/136/42x 95		
195	135		
Z1020/66/42x 75	215		
135	Z1020/156/42x 115		
Z1020/76/42x 75	155		
115	215		
175	Z1020/196/42x 155		
Z1020/86/42x 75	195		
135	235		
Z1020/96/42x 75	Z1020/246/42x 165		
115	245		
155			
Z1020/116/42x 95			
135			
195			

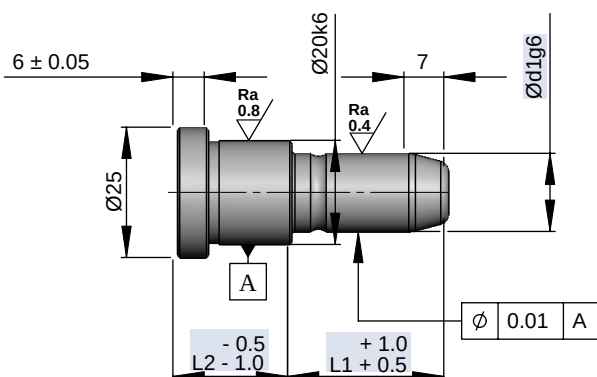
Ø9



Mat. DIN C15/720HV

Z1021/L2/d1x L1	Z1021/L2/d1x L1		
Z1021/17/9x 20	Z1021/46/9x 30		
30	45		
50	70		
70	35		
Z1021/22/9x 25	Z1021/56/9x 60		
35			
55			
75			
95			
Z1021/27/9x 20			
30			
50			
70			
90			
Z1021/36/9x 25			
45			
65			
85			

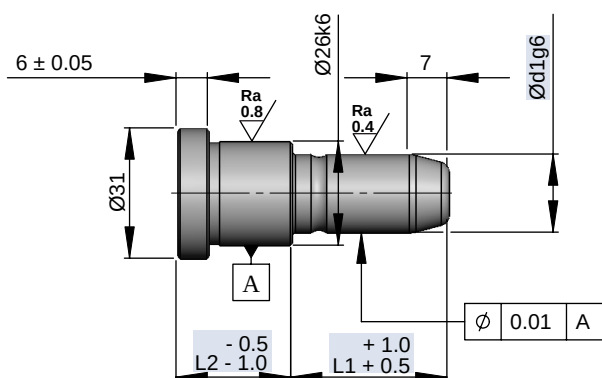
Ø14



Mat. DIN C15/720HV

Z1021/L2/d1x L1	Z1021/L2/d1x L1	Z1021/L2/d1x L1	
Z1021/17/14x 35	Z1021/36/14x 35	Z1021/66/14x 55	
55	55	65	
75	75	95	
95	95	125	
Z1021/22/14x 30	125	Z1021/76/14x 55	
50	155	95	
70	Z1021/46/14x 35	Z1021/86/14x 55	
90	45	95	
110	65	Z1021/96/14x 55	
125	85	95	
150	105	Z1021/116/14x 75	
Z1021/27/14x 30	125		
45	145		
65	Z1021/56/14x 35		
85	55		
105	75		
125	95		
145	135		
165			

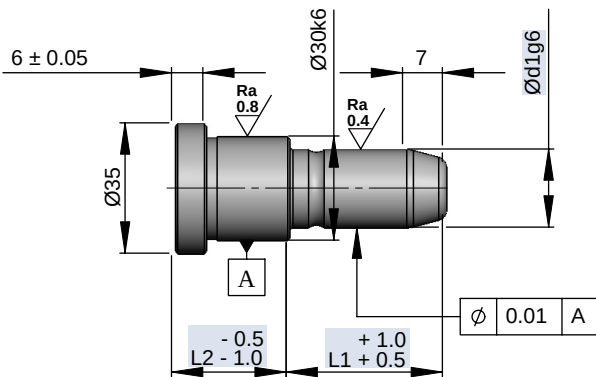
Ø18



Mat. DIN C15/720HV

Z1021/L2/d1x L1	Z1021/L2/d1x L1	Z1021/L2/d1x L1	Z1021/L2/d1x L1
Z1021/17/18x 35	Z1021/36/18x 35	Z1021/56/18x 35	Z1021/96/18x 55
55	55	55	75
75	75	75	Z1021/116/18x 55
120	95	95	75
Z1021/22/18x 35	115	155	Z1021/136/18x135
45	135	Z1021/66/18x 35	
65	165	55	
85	225	75	
115	255	95	
Z1021/27/18x 35	Z1021/46/18x 35	145	
45	45	Z1021/76/18x 55	
65	65	75	
85	85	95	
105	105	135	
125	135	Z1021/86/18x 55	
165	165	75	
225	245	95	
245		125	

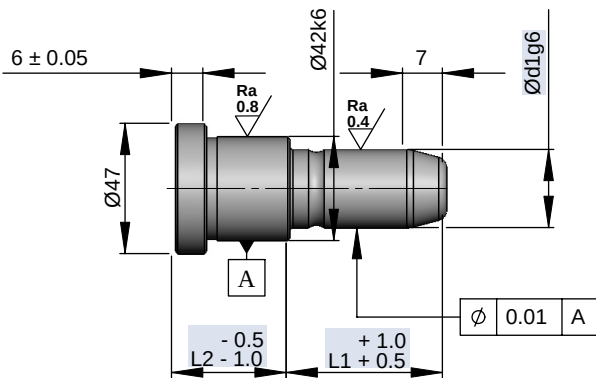
Ø22



Mat. DIN C15/720HV

Z1021/L2/d1x L1	Z1021/L2/d1x L1	Z1021/L2/d1x L1	Z1021/L2/d1x L1
Z1021/17/22x 35	Z1021/36/22x 35	Z1021/56/22x 35	Z1021/86/22x 55
55	55	55	75
75	75	75	95
Z1021/22/22x 35	95	95	135
55	115	115	Z1021/96/22x 55
75	135	165	75
105	165	205	95
130	205	Z1021/66/22x 35	125
Z1021/27/22x 35	245	55	Z1021/116/22x 75
45	285	75	115
65	Z1021/46/22x 35	95	155
85	45	155	Z1021/136/22x 95
105	65	Z1021/76/22x 55	135
125	85	75	155
165	105	95	
205	125	115	
245	165	145	
285	205		

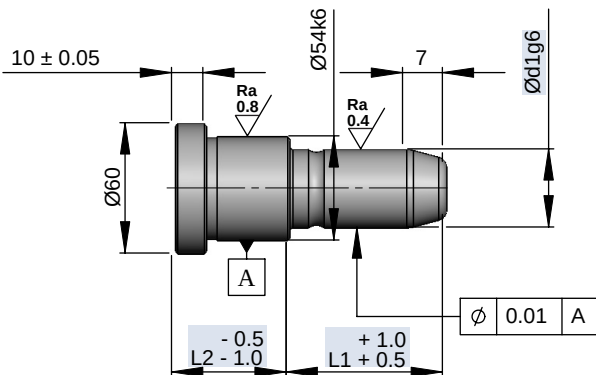
Ø30



Mat. DIN C15/720HV

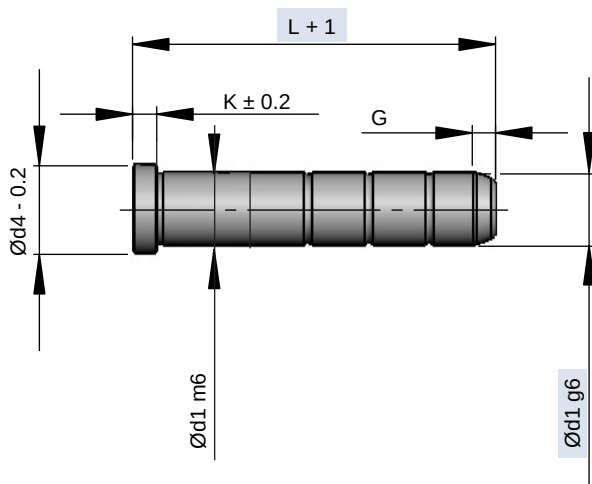
Z1021/L2/d1x L1	Z1021/L2/d1x L1	Z1021/L2/d1x L1	Z1021/L2/d1x L1
Z1021/27/30x 45	Z1021/46/30x 45	Z1021/66/30x 55	Z1021/96/30x 55
65	65	75	75
105	85	95	95
165	95	115	115
185	105	135	155
245	125	175	205
285	165	245	Z1021/116/30x 75
Z1021/36/30x 55	245	295	115
75	285	Z1021/76/30x 55	155
95	Z1021/56/30x 55	75	Z1021/136/30x 95
115	75	95	115
155	95	115	155
245	115	155	Z1021/156/30x115
285	135	225	155
	175	Z1021/86/30x 55	Z1021/196/30x155
	245	75	
	295	95	
		115	
		155	
		225	

Ø40



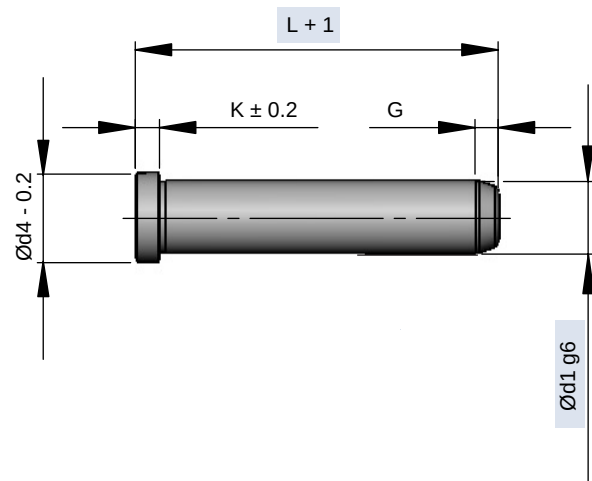
Mat. DIN C15/720HV

Z1021/L2/d1x L1	Z1021/L2/d1x L1		
Z1021/56/40x 155	Z1021/136/40x 95		
195	135		
Z1021/66/40x 75	215		
135	Z1021/156/40x 115		
Z1021/76/40x 75	155		
115	215		
175	Z1021/196/40x 155		
Z1021/86/40x 75	195		
135	235		
Z1021/96/40x 75	Z1021/246/40x 165		
115	245		
155			
Z1021/116/40x 95			
135			
195			

Z1030


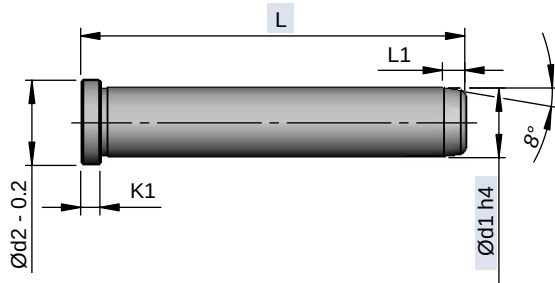
Mat. DIN C15/720HV

G	K	d4	Z 1030 / d1 x L	G	K	d4	Z 1030 / d1 x L
4	3	12	Z1030 / Ø10 x 40	7	8	24	Z1030 / Ø20 x 80
			Z1030 / Ø10 x 60				Z1030 / Ø20 x 100
			Z1030 / Ø10 x 80				Z1030 / Ø20 x 120
			Z1030 / Ø10 x 100				Z1030 / Ø20 x 140
7	6	16	Z1030 / Ø12 x 60	7	15	26	Z1030 / Ø20 x 160
			Z1030 / Ø12 x 80				Z1030 / Ø20 x 180
			Z1030 / Ø12 x 100				Z1030 / Ø20 x 200
			Z1030 / Ø12 x 120				Z1030 / Ø22 x 100
7	8	18	Z1030 / Ø14 x 60	7	15	26	Z1030 / Ø22 x 120
			Z1030 / Ø14 x 80				Z1030 / Ø22 x 140
			Z1030 / Ø14 x 100				Z1030 / Ø22 x 160
			Z1030 / Ø14 x 120				Z1030 / Ø22 x 180
7	8	20	Z1030 / Ø16 x 60	7	15	28	Z1030 / Ø22 x 200
			Z1030 / Ø16 x 80				Z1030 / Ø22 x 220
			Z1030 / Ø16 x 100				Z1030 / Ø24 x 100
			Z1030 / Ø16 x 120				Z1030 / Ø24 x 120
7	8	22	Z1030 / Ø18 x 80	7	15	36	Z1030 / Ø24 x 140
			Z1030 / Ø18 x 100				Z1030 / Ø24 x 160
			Z1030 / Ø18 x 120				Z1030 / Ø24 x 180
			Z1030 / Ø18 x 140				Z1030 / Ø24 x 200
7	8	22	Z1030 / Ø18 x 160	7	15	36	Z1030 / Ø24 x 220
			Z1030 / Ø18 x 180				Z1030 / Ø30 x 160
			Z1030 / Ø18 x 200				Z1030 / Ø30 x 200
							Z1030 / Ø30 x 240

Z1040


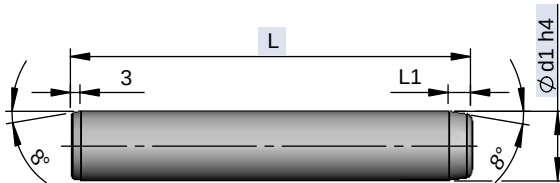
Mat. DIN C15/720HV

G	K	d4	Z 1040 / d1 x L	G	K	d4	Z 1040 / d1 x L
4	3	12	Z1040 / Ø10 x 40	7	8	24	Z1040 / Ø20 x 80
			Z1040 / Ø10 x 60				Z1040 / Ø20 x 120
			Z1040 / Ø10 x 80				Z1040 / Ø20 x 160
			Z1040 / Ø10 x 100				Z1040 / Ø20 x 240
7	6	16	Z1040 / Ø10 x 120	7	15	26	Z1040 / Ø22 x 100
			Z1040 / Ø12 x 40				Z1040 / Ø22 x 160
			Z1040 / Ø12 x 60				Z1040 / Ø22 x 200
			Z1040 / Ø12 x 80				Z1040 / Ø22 x 300
7	8	18	Z1040 / Ø12 x 100	7	15	28	Z1040 / Ø24 x 100
			Z1040 / Ø12 x 120				Z1040 / Ø24 x 160
			Z1040 / Ø12 x 140				Z1040 / Ø24 x 200
			Z1040 / Ø12 x 160				Z1040 / Ø24 x 300
7	8	20	Z1040 / Ø14 x 60	7	15	36	Z1040 / Ø30 x 120
			Z1040 / Ø14 x 80				Z1040 / Ø30 x 160
			Z1040 / Ø14 x 100				Z1040 / Ø30 x 200
			Z1040 / Ø14 x 120				Z1040 / Ø30 x 300
7	8	22	Z1040 / Ø14 x 140	7	15	36	Z1040 / Ø32 x 100
			Z1040 / Ø14 x 160				Z1040 / Ø32 x 120
			Z1040 / Ø14 x 180				Z1040 / Ø32 x 160
			Z1040 / Ø16 x 80				Z1040 / Ø32 x 200
7	8	22	Z1040 / Ø16 x 100	7	15	36	Z1040 / Ø32 x 240
			Z1040 / Ø16 x 160				Z1040 / Ø32 x 300
			Z1040 / Ø16 x 200				Z1040 / Ø32 x 360
			Z1040 / Ø18 x 80				Z1040 / Ø40 x 160
7	8	22	Z1040 / Ø18 x 120	7	15	36	Z1040 / Ø40 x 200
			Z1040 / Ø18 x 160				Z1040 / Ø40 x 240
			Z1040 / Ø18 x 240				Z1040 / Ø40 x 300
							Z1040 / Ø40 x 360
							Z1040 / Ø50 x 160
							Z1040 / Ø50 x 200
							Z1040 / Ø50 x 240
							Z1040 / Ø50 x 300
							Z1040 / Ø50 x 360

Z1060


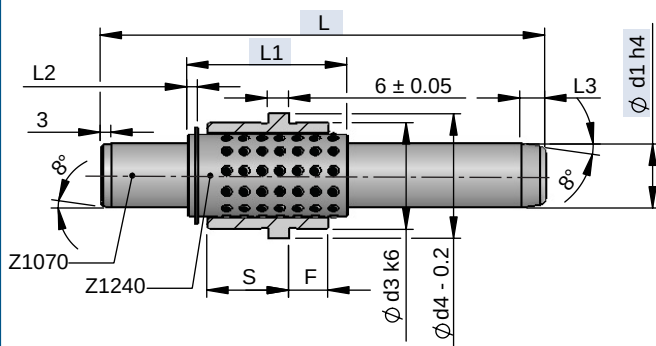
Mat. DIN C15/720HV

d2	L1	K1	Z 1060 / d1 x L				
16	4	4	Z1060 / Ø12 x 80				
			Z1060 / Ø12 x 100				
			Z1060 / Ø12 x 120				
22	7	6	Z1060 / Ø18 x 120				
			Z1060 / Ø18 x 140				
			Z1060 / Ø18 x 160				
37	7	6	Z1060 / Ø30 x 160				
			Z1060 / Ø30 x 200				
			Z1060 / Ø30 x 240				

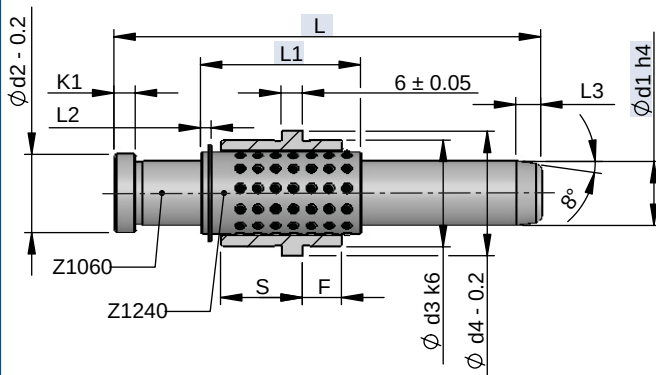
Z1070


Mat. DIN C15/720HV

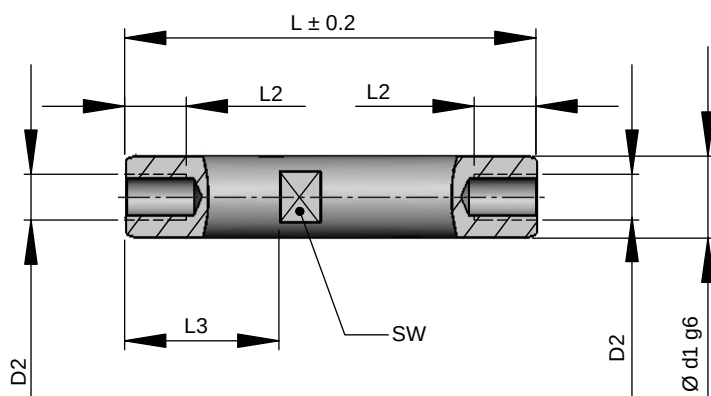
L1	Z 1070 / d1 x L			
4	Z1070 / Ø12 x 100			
	Z1070 / Ø12 x 125			
	Z1070 / Ø18 x 125			
7	Z1070 / Ø18 x 160			
	Z1070 / Ø30 x 160			
	Z1070 / Ø30 x 240			

Z1080


S + F	L2	L3	d3	d4	S	F	H	Z1080/d1xL1/ L
24	2.1	4	22	26	18	6	50	Z1080/12x 40 / 80
								Z1080/12x 40 / 100
								Z1080/12x 40 / 120
							82	Z1080/12x 56 / 80
								Z1080/12x 56 / 100
								Z1080/12x 56 / 120
34	3.0	7	30	35	23	11	44	Z1080/18x 45 / 120
								Z1080/18x 45 / 140
								Z1080/18x 45 / 160
							66	Z1080/18x 56 / 120
								Z1080/18x 56 / 140
								Z1080/18x 56 / 160
54	4.8	7	46	52	33	21	96	Z1080/18x 71 / 120
								Z1080/18x 71 / 140
								Z1080/18x 71 / 160
							32	Z1080/30x 56 / 160
								Z1080/30x 56 / 200
								Z1080/30x 56 / 240
54	4.8	7	46	52	33	21	70	Z1080/30x 75 / 160
								Z1080/30x 75 / 200
								Z1080/30x 75 / 240
							110	Z1080/30x 95 / 160
								Z1080/30x 95 / 200
								Z1080/30x 95 / 200

Z1090


S + F	L2	L3	d2	d3	d4	K1	S	F	H	Z1090/d1xL/ L1
24	2.1	4	16	22	26	4	18	6	50	Z1090/12x 40/ 100/ K
										Z1090/12x 40/ 125/ K
									82	Z1090/12x 56/ 100/ K
34	3.0	7	22	30	35	6	23	11	44	Z1090/18x 45/ 125/ K
										Z1090/18x 45/ 160/ K
									66	Z1090/18x 56/ 125/ K
										Z1090/18x 56/ 160/ K
									96	Z1090/18x 71/ 120/ K
										Z1090/18x 71/ 160/ K
54	4.8	7	37	46	52	6	33	21	32	Z1090/30x 56/ 160/ K
										Z1090/30x 56/ 240/ K
									70	Z1090/30x 75/ 160/ K
										Z1090/30x 75/ 240/ K
									110	Z1090/30x 95/ 160/ K
										Z1090/30x 95/ 240/ K



Mat. DIN C15/720HV

D2	L2	L3	SW	Z1100 / d1 x L
M8	12	25	12	Z1100 / Ø14 x 60
				Z1100 / Ø14 x 80
				Z1100 / Ø14 x 100
				Z1100 / Ø14 x 120
				Z1100 / Ø14 x 140
				Z1100 / Ø14 x 160
				Z1100 / Ø14 x 180
M10	18	45	14	Z1100 / Ø18 x 100
				Z1100 / Ø18 x 120
				Z1100 / Ø18 x 140
				Z1100 / Ø18 x 160
				Z1100 / Ø18 x 180
				Z1100 / Ø18 x 200
				Z1100 / Ø18 x 220
M12	22	50	19	Z1100 / Ø18 x 240
				Z1100 / Ø24 x 120
				Z1100 / Ø24 x 140
				Z1100 / Ø24 x 160
				Z1100 / Ø24 x 180
				Z1100 / Ø24 x 200
				Z1100 / Ø24 x 220
				Z1100 / Ø24 x 240

[illegible]

Z1210/d1x L	Z1210/d1x L		
Z1210/10x 12	Z1211/9x 12		
17	17		
22	22		
27	27		
36	36		
46	46		
56	56		
66	66		

Technical drawing of a shaft with a keyway. The drawing includes the following dimensions and tolerances:

- Overall length: 9 ± 0.05
- Keyway length: $L - 1.0$
- Keyway width: $\varnothing 0.01$ A
- Keyway depth: $\varnothing 0.01$ A
- Shaft diameter: $\varnothing 20k6$
- Key diameter: $\varnothing 25$
- Key width: $\varnothing 20e7$
- Surface finish: $Ra 0.4$
- Key fit: $\varnothing d11H7$

Z1210/d1x L	Z1210/d1x L	Z1211/d1x L	Z1211/d1x L
Z1210/15x 17	Z1210/15x 66	Z1211/14x 17	Z1211/14x 66
22	76	22	76
27	86	27	86
36	96	36	96
46	116	46	116
56		56	

Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a diameter of $\varnothing 26k6$ and a hub with a diameter of $\varnothing d11H7$. The shaft has a total length of 9 and a section with a diameter of $\varnothing 31$ and a length of $L - 1.0$. The hub has a total length of 6 ± 0.05 and a section with a diameter of $\varnothing 26e7$ and a length of $L - 1.0$. The drawing includes surface texture symbols (Ra 0.4) and feature control frames (A) indicating specific tolerances and surface requirements.

Z1210/d1x L1	Z1210/d1x L1	Z1211/d1x L1	Z1211/d1x L1
Z1210/20x 17	Z1210/20x 66	Z1211/18x 17	Z1211/18x 66
22	76	22	76
27	86	27	86
36	96	36	96
46	116	46	116
56	136	56	136

Technical drawing of a shaft with a keyway. The drawing includes the following dimensions and tolerances:

- Overall length: 9 ± 0.05
- Keyway length: $L - 1.0$
- Keyway width: $\varnothing 0.01$ A
- Keyway depth: $\varnothing 0.01$ A
- Shaft diameter: $\varnothing 30k6$
- Key diameter: $\varnothing 11H7$
- Surface finish: $Ra 0.4$
- Key diameter tolerance: ± 0.005

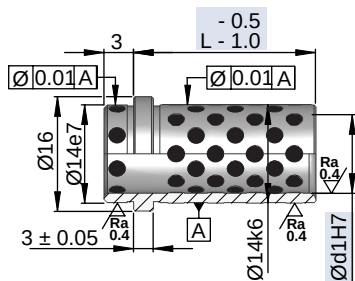
Z1210/d1x L1	Z1210/d1x L1	Z1211/d1x L1	Z1211/d1x L1
Z1210/24x 17	Z1210/24x 76	Z1211/22x 17	Z1211/22x 76
22	86	22	86
27	96	27	96
36	116	36	116
46	136	46	136
56	156	56	156
66		66	

Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a diameter of $\varnothing 42 \text{ k6}$ and a hub with a diameter of $\varnothing 42 \text{ H7}$. The shaft has a total length of 9 ± 0.5 mm. The hub has a total length of $L - 1.0$ mm. The shaft has a surface finish of $Ra 0.4$ and a circular runout of $\varnothing 0.01$ A. The hub has a surface finish of $Ra 0.4$ and a circular runout of $\varnothing 0.01$ A. The shaft is mounted on a base with a thickness of 6 ± 0.05 mm. The shaft has a diameter of $\varnothing 47$ mm and a circular runout of $\varnothing 42 \text{ e7}$. The hub has a diameter of $\varnothing 42 \text{ k6}$ and a circular runout of $\varnothing 42 \text{ H7}$. The shaft has a surface finish of $Ra 0.4$ and a circular runout of $\varnothing 0.01$ A. The hub has a surface finish of $Ra 0.4$ and a circular runout of $\varnothing 0.01$ A.

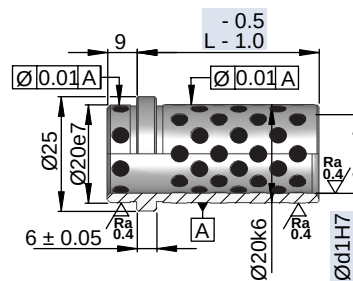
Z1210/d1x L1	Z1210/d1x L1	Z1211/d1x L1	Z1211/d1x L1
Z1210/32x 27	Z1210/32x 86	Z1211/30x 27	Z1211/30x 86
36	96	36	96
46	116	46	116
56	136	56	136
66	156	66	156
76	196	76	196

Technical drawing of a shaft assembly. The shaft has a diameter of $\varnothing 54k6$ and a length of 12. The pulley has a diameter of $\varnothing 60$ and a keyway with a width of 10 ± 0.05 . The shaft is mounted on a base with a diameter of $\varnothing 54k6$ and a length of 10 ± 0.05 . The drawing includes various tolerances and surface finish requirements.

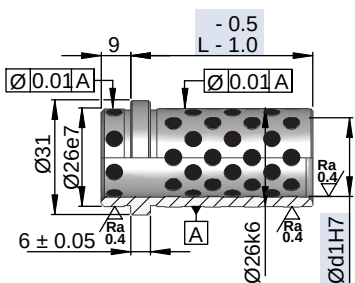
Z1210/d1x L1	Z1210/d1x L1	Z1211/d1x L1	Z1211/d1x L1
Z1210/42x 46	Z1210/42x 116	Z1211/40x 46	Z1211/40x 116
56	136	56	136
66	156	66	156
76	196	76	196
86	246	86	246
96		96	

10/09

Mat. 2.0975 / Graphite

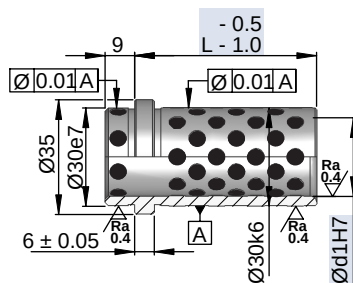
Z1220/d1x L	Z1221/d1x L		
Z1220/10x 12	Z1221/9x 12		
17	17		
22	22		
27	27		
36	36		
46	46		
56	56		

15/14

Mat. 2.0975 / Graphite

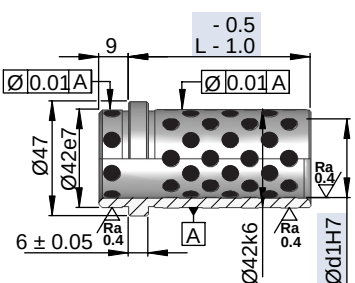
Z1220/d1x L	Z1221/d1x L		
Z1220/15x 17	Z1221/14x 17		
22	22		
27	27		
36	36		
46	46		
56	56		
66	66		
76	76		

20/18

Mat. 2.0975 / Graphite

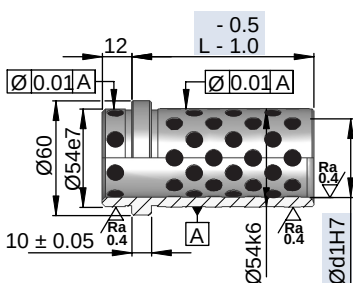
Z1220/d1x L1	Z1221/d1x L1		
Z1220/20x 17	Z1221/18x 17		
22	22		
27	27		
36	36		
46	46		
56	56		
66	66		
76	76		

24/22

Mat. 2.0975 / Graphite

Z1220/d1x L1	Z1220/d1x L1	Z1221/d1x L1	Z1221/d1x L1
Z1220/24x 22	Z1220/24x 96	Z1221/22x 22	Z1221/22x 96
27	116	27	116
36		36	
46		46	
56		56	
66		66	
76		76	
86		86	

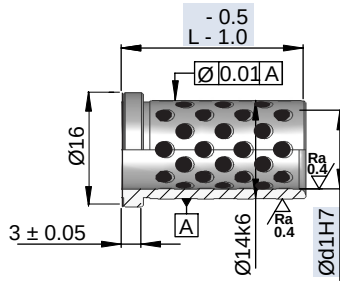
32/30

Mat. 2.0975 / Graphite

Z1220/d1x L1	Z1220/d1x L1	Z1221/d1x L1	Z1221/d1x L1
Z1220/32x 27	Z1220/32x 116	Z1221/30x 27	Z1221/30x 116
36	136	36	136
46		46	
56		56	
66		66	
76		76	
86		86	
96		96	

42/40

Mat. 2.0975 / Graphite

Z1220/d1x L1	Z1220/d1x L1	Z1221/d1x L1	Z1221/d1x L1
Z1220/42x 46	Z1220/42x 156	Z1221/40x 46	Z1221/40x 156
56	196	56	196
66		66	
76		76	
86		86	
96		96	
116		116	
136		136	

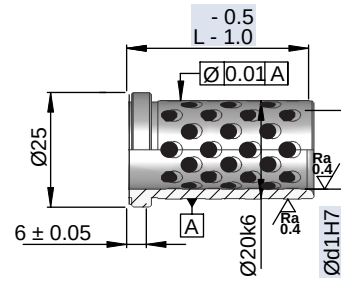
10/09



Mat. 2.0975 / Graphite

Z1222/d1x L	Z1224/d1x L		
Z1222/10x 12	Z1224/9x 12		
17	17		
22	22		
27	27		
36	36		
46	46		
56	56		

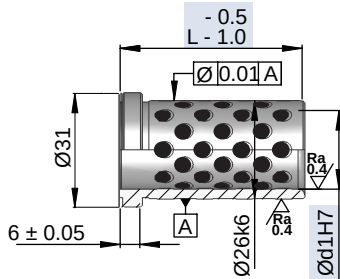
15/14



Mat. 2.0975 / Graphite

Z1222/d1x L	Z1224/d1x L		
Z1222/15x 17	Z1224/14x 17		
22	22		
27	27		
36	36		
46	46		
56	56		
66	66		
76	76		

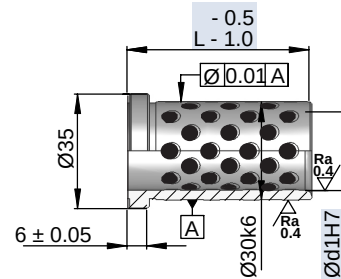
20/18



Mat. 2.0975 / Graphite

Z1222/d1x L1	Z1224/d1x L1		
Z1222/20x 17	Z1224/18x 17		
22	22		
27	27		
36	36		
46	46		
56	56		
66	66		
76	76		

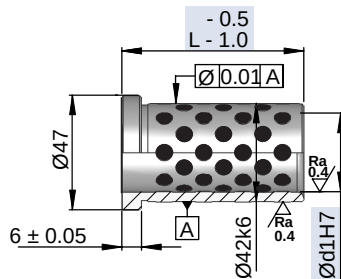
24/22



Mat. 2.0975 / Graphite

Z1222/d1x L1	Z1222/d1x L1	Z1224/d1x L1	Z1224/d1x L1
Z1222/24x 22	Z1222/24x 96	Z1224/22x 22	Z1224/22x 96
27	116	27	116
36		36	
46		46	
56		56	
66		66	
76		76	
86		86	

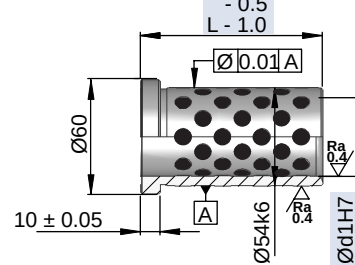
32/30



Mat. 2.0975 / Graphite

Z1222/d1x L1	Z1222/d1x L1	Z1224/d1x L1	Z1224/d1x L1
Z1222/32x 27	Z1222/32x 116	Z1224/30x 27	Z1224/30x 116
36	136	36	136
46		46	
56		56	
66		66	
76		76	
86		86	
96		96	

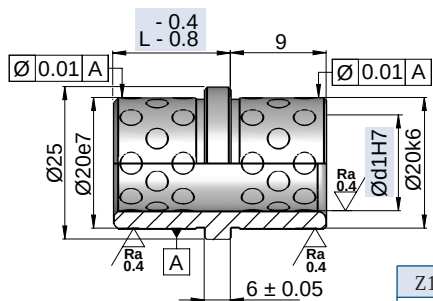
42/40



Mat. 2.0975 / Graphite

Z1222/d1x L1	Z1222/d1x L1	Z1224/d1x L1	Z1224/d1x L1
Z1222/42x 46	Z1222/42x 156	Z1224/40x 46	Z1224/40x 156
56	196	56	196
66		66	
76		76	
86		86	
96		96	
116		116	
136		136	

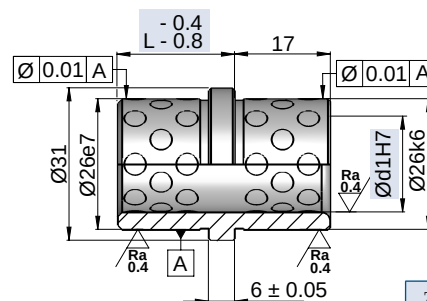
14



Mat. 2.0975 / Graphite

Z1223/d1x L
Z1223/14x 17

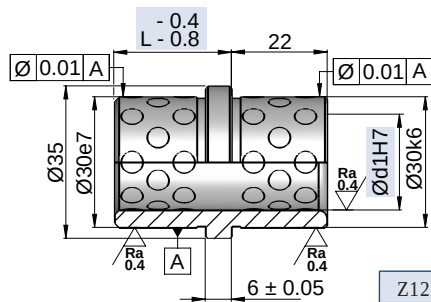
18



Mat. 2.0975 / Graphite

Z1223/d1x L
Z1223/18x 22

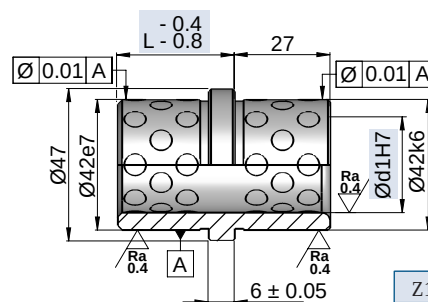
24



Mat. 2.0975 / Graphite

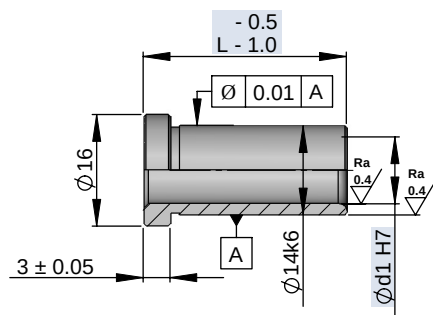
Z1223/d1x L
Z1223/24x 27

30

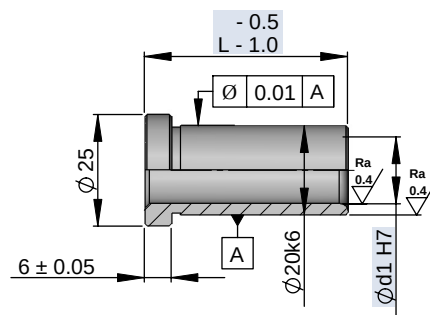


Mat. 2.0975 / Graphite

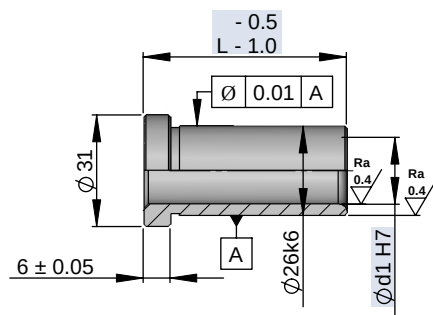
Z1223/d1x L
Z1223/30x 27

10/09

Mat. DIN C15/720HV

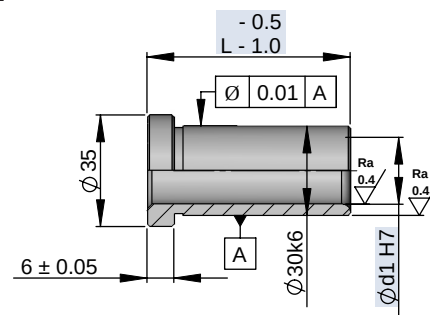
Z1230/d1x L	Z1231/d1x L		
Z1230/10x 12	Z1231/09x 12		
17	17		
22	22		
27	27		
36	36		
46	46		
56	56		
66	66		

15/14

Mat. DIN C15/720HV

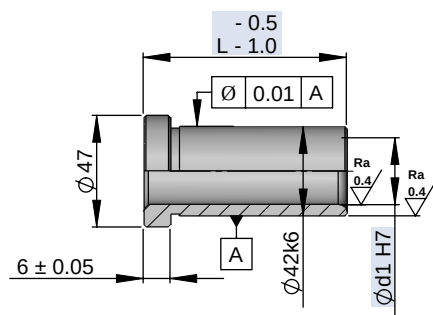
Z1230/d1x L	Z1230/d1x L	Z1231/d1x L	Z1231/d1x L
Z1230/15x 17	Z1230/15x 86	Z1231/14x 17	Z1231/15x 86
22	96	22	96
27	116	27	116
36		36	
46		46	
56		56	
66		66	
76		76	

20/18

Mat. DIN C15/720HV

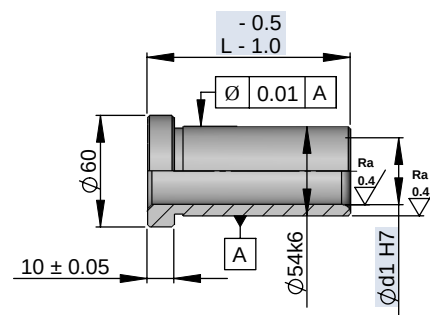
Z1230/d1x L1	Z1230/d1x L1	Z1231/d1x L1	Z1231/d1x L1
Z1230/20x 17	Z1230/20x 86	Z1231/18x 17	Z1231/18x 86
22	96	22	96
27	116	27	116
36	136	36	136
46		46	
56		56	
66		66	
76		76	

24/22

Mat. DIN C15/720HV

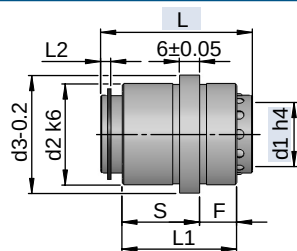
Z1230/d1x L1	Z1230/d1x L1	Z1231/d1x L1	Z1231/d1x L1
Z1230/24x 17	Z1230/24x 86	Z1231/22x 17	Z1231/22x 86
22	96	22	96
27	116	27	116
36	136	36	136
46	156	46	156
56		56	
66		66	
76		76	

32/30

Mat. DIN C15/720HV

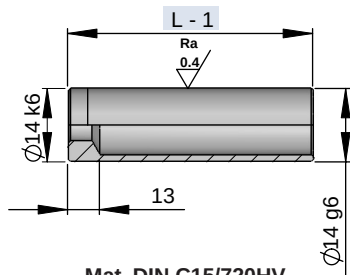
Z1230/d1x L1	Z1230/d1x L1	Z1231/d1x L1	Z1231/d1x L1
Z1230/32x 27	Z1230/32x 116	Z1231/30x 27	Z1231/30x 116
36	136	36	136
46	156	46	156
56	196	56	196
66		66	
76		76	
86		86	
96		96	

42/40

Mat. DIN C15/720HV

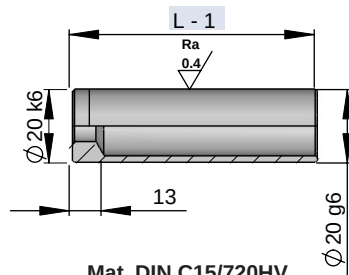
Z1230/d1x L1	Z1230/d1x L1	Z1231/d1x L1	Z1231/d1x L1
Z1230/42x 46	Z1230/40x 156	Z1231/40x 46	Z1231/40x 156
56	196	56	196
66	246	66	246
76		76	
86		86	
96		96	
116		116	
136		136	

Z1240


d2	d3	S	F	L1	L2	H	Z1240/d1x L
22	26	18	6	24	2.1	50	Z1240/12x 40
						82	56
30	35	23	11	34	3.0	44	Z1240/18x 45
						66	56
						96	71
46	52	33	21	54	4.8	32	Z1240/30x 56
						70	71
						110	95

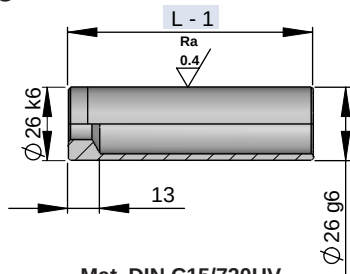
Z1250/14


Mat. DIN C15/720HV

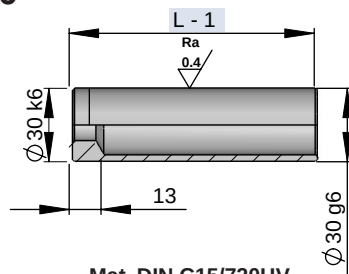
Z1250/20


Mat. DIN C15/720HV

Z1250/14x L		Z1250/20x L	Z1250/20x L
Z1250/14x 20		Z1250/20x 30	Z1250/20x 120
40		40	140
60		60	160
70		80	
80		100	
100			

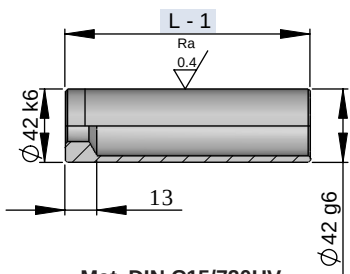
Z1250/26


Mat. DIN C15/720HV

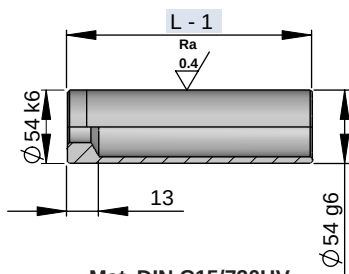
Z1250/30


Mat. DIN C15/720HV

Z1250/26x L1	Z1250/26x L1	Z1250/30x L1	Z1250/30x L1
Z1250/26x 30	Z1250/26x 140	Z1250/30x 40	Z1250/30x 160
40	160	60	180
60	180	80	200
80		100	240
100		120	
120		140	

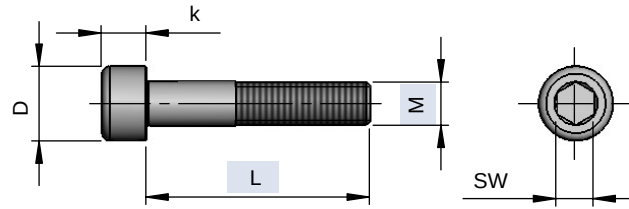
Z1250/42


Mat. DIN C15/720HV

Z1250/54


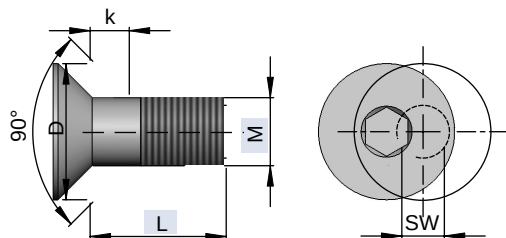
Mat. DIN C15/720HV

Z1250/42x L1	Z1250/42x L1	Z1250/54x L1	
Z1250/42x 40	Z1250/42x 160	Z1250/54x 60	
60	180	80	
80	200	120	
100	220	160	
120	260	200	
140	300	240	
		280	

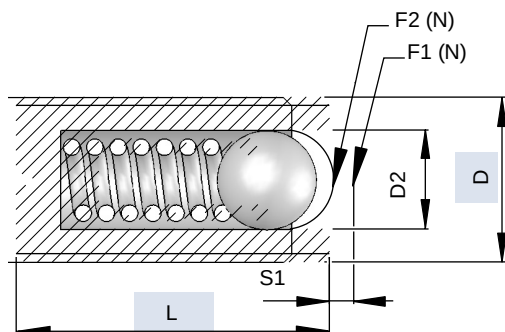


DIN 912-12.9

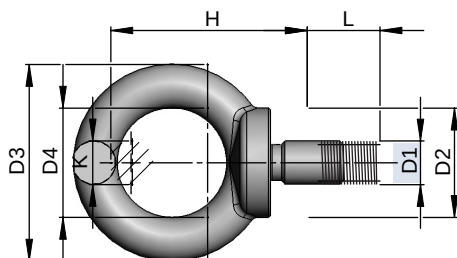
D	k	SW	Z1410 / M x L	D	k	SW	Z1410 / M x L	D	k	SW	Z1410 / M x L			
8.5	5	4	Z1410 / M5 x 16	16	10	8	Z1410 / M10 x 20	18	12	10	Z1410 / M12 x 170			
			Z1410 / M5 x 30				Z1410 / M10 x 25				Z1410 / M12 x 180			
10	6	5	Z1410 / M6 x 8				Z1410 / M10 x 30				Z1410 / M12 x 190			
			Z1410 / M6 x 10				Z1410 / M10 x 35				Z1410 / M12 x 200			
			Z1410 / M6 x 16				Z1410 / M10 x 40				Z1410 / M12 x 220			
			Z1410 / M6 x 18				Z1410 / M10 x 45				Z1410 / M12 x 240			
			Z1410 / M6 x 20				Z1410 / M10 x 50				Z1410 / M12 x 260			
			Z1410 / M6 x 22				Z1410 / M10 x 55				24	16	14	Z1410 / M16 x 20
			Z1410 / M6 x 25				Z1410 / M10 x 60							Z1410 / M16 x 25
			Z1410 / M6 x 30				Z1410 / M10 x 65							Z1410 / M16 x 30
			Z1410 / M6 x 35				Z1410 / M10 x 70							Z1410 / M16 x 35
			Z1410 / M6 x 40				Z1410 / M10 x 75							Z1410 / M16 x 40
			Z1410 / M6 x 45				Z1410 / M10 x 80							Z1410 / M16 x 45
			Z1410 / M6 x 50				Z1410 / M10 x 90							Z1410 / M16 x 50
			Z1410 / M6 x 55				Z1410 / M10 x 100							Z1410 / M16 x 55
			Z1410 / M6 x 60				Z1410 / M10 x 110							Z1410 / M16 x 60
			Z1410 / M6 x 65				Z1410 / M10 x 120							Z1410 / M16 x 65
			Z1410 / M6 x 70				Z1410 / M10 x 130							Z1410 / M16 x 70
			Z1410 / M6 x 75				Z1410 / M10 x 140							Z1410 / M16 x 75
			Z1410 / M6 x 80				Z1410 / M10 x 150							Z1410 / M16 x 80
			Z1410 / M6 x 90				Z1410 / M10 x 160							Z1410 / M16 x 90
			Z1410 / M6 x 100				Z1410 / M10 x 170							Z1410 / M16 x 100
Z1410 / M6 x 110	Z1410 / M10 x 180	Z1410 / M16 x 110												
Z1410 / M6 x 120	Z1410 / M10 x 190	Z1410 / M16 x 120												
Z1410 / M6 x 130	Z1410 / M10 x 200	Z1410 / M16 x 130												
Z1410 / M6 x 140	Z1410 / M10 x 220	Z1410 / M16 x 140												
13	8	6	Z1410 / M8 x 16	18	12	10	Z1410 / M12 x 25	30	20	17	Z1410 / M16 x 150			
			Z1410 / M8 x 20				Z1410 / M12 x 30				Z1410 / M16 x 160			
			Z1410 / M8 x 25				Z1410 / M12 x 35				Z1410 / M16 x 170			
			Z1410 / M8 x 30				Z1410 / M12 x 40				Z1410 / M16 x 180			
			Z1410 / M8 x 35				Z1410 / M12 x 45				Z1410 / M16 x 190			
			Z1410 / M8 x 40				Z1410 / M12 x 50				Z1410 / M16 x 200			
			Z1410 / M8 x 45				Z1410 / M12 x 55				Z1410 / M16 x 210			
			Z1410 / M8 x 50				Z1410 / M12 x 60				Z1410 / M16 x 220			
			Z1410 / M8 x 55				Z1410 / M12 x 65				Z1410 / M16 x 230			
			Z1410 / M8 x 60				Z1410 / M12 x 70				Z1410 / M16 x 240			
			Z1410 / M8 x 65				Z1410 / M12 x 75				Z1410 / M16 x 250			
			Z1410 / M8 x 70				Z1410 / M12 x 80				Z1410 / M16 x 260			
			Z1410 / M8 x 75				Z1410 / M12 x 90				Z1410 / M16 x 280			
			Z1410 / M8 x 80				Z1410 / M12 x 100				Z1410 / M16 x 300			
			Z1410 / M8 x 90				Z1410 / M12 x 110				Z1410 / M20 x 50			
			Z1410 / M8 x 100				Z1410 / M12 x 120				Z1410 / M20 x 60			
			Z1410 / M8 x 110				Z1410 / M12 x 130				Z1410 / M20 x 75			
			Z1410 / M8 x 120				Z1410 / M12 x 140				Z1410 / M20 x 200			
			Z1410 / M8 x 130				Z1410 / M12 x 150				Z1410 / M20 x 260			
			Z1410 / M8 x 140				Z1410 / M12 x 160							
Z1410 / M8 x 150														
Z1410 / M8 x 160														
Z1410 / M8 x 180														
Z1410 / M8 x 200														

Z1420

DIN 7991-10.9

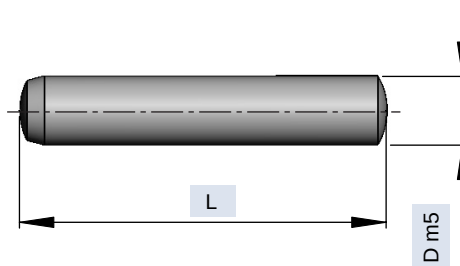
D	k	SW	Z1420 / M x L
8	2.3	2.5	Z1420 / M4 x 8 Z1420 / M4 x 10 Z1420 / M4 x 12 Z1420 / M4 x 16 Z1420 / M4 x 20
12	3.3	4	Z1420 / M5 x 8 Z1420 / M5 x 10 Z1420 / M5 x 12 Z1420 / M5 x 14 Z1420 / M5 x 16
16	3.3	4	Z1420 / M6 x 12 Z1420 / M6 x 16 Z1420 / M6 x 20 Z1420 / M6 x 25 Z1420 / M6 x 30
16	4.4	5	Z1420 / M8 x 12 Z1420 / M8 x 16 Z1420 / M8 x 20 Z1420 / M8 x 25 Z1420 / M8 x 30
20	5.5	6	Z1420 / M10 x 20
24	6.5	8	Z1420 / M12 x 20 Z1420 / M12 x 30

Z1430


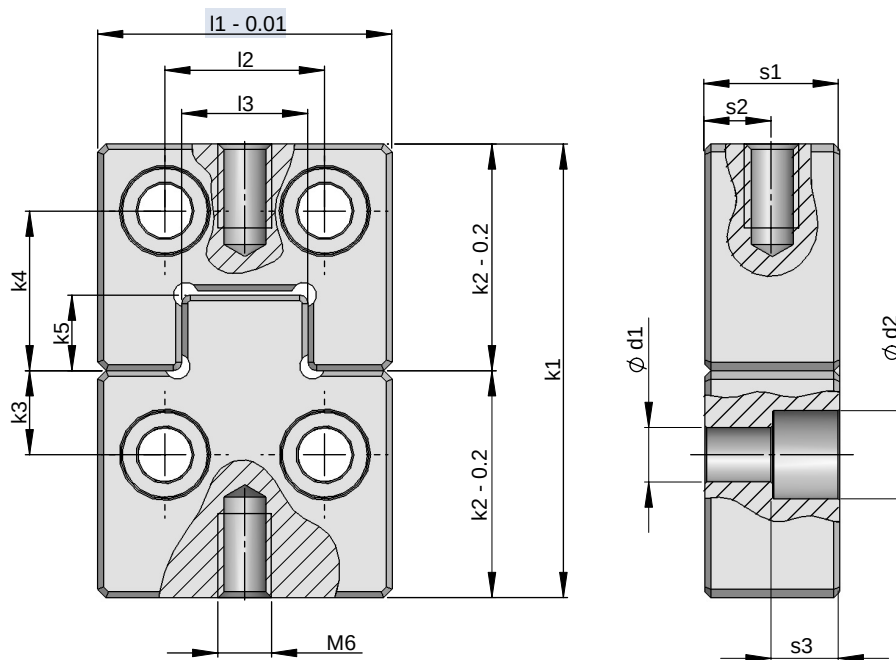
D2	S1	F1	F2	Z1430 / D x L
2.5	0.8	6.0	12.0	Z1430 / M4 x 9
3.0	0.9	7.0	13.0	Z1430 / M5 x 12
3.5	1.0	9.0	15.0	Z1430 / M6 x 14
5.0	1.5	20.0	35.0	Z1430 / M8 x 16
6.0	2.0	25.0	45.0	Z1430 / M10 x 19
8.0	2.5	35.0	60.0	Z1430 / M12 x 22
10.0	3.0	65.0	110	Z1430 / M16 x 24

Z1440

Mat. 1.0401 (C15)

↑								
Max. KG	Max. KG	L	D2	D3	D4	H	K	Z1440 / D1
140	95	13	20	36	20	36	8	Z1440 / M8
230	170	17	25	45	25	45	10	Z1440 / M10
340	240	21	30	54	30	53	12	Z1440 / M12
700	500	27	35	63	35	62	14	Z1440 / M16
1200	830	30	40	72	40	71	16	Z1440 / M20
1800	1270	36	50	90	50	90	20	Z1440 / M24
3600	2600	45	65	108	60	109	24	Z1440 / M30

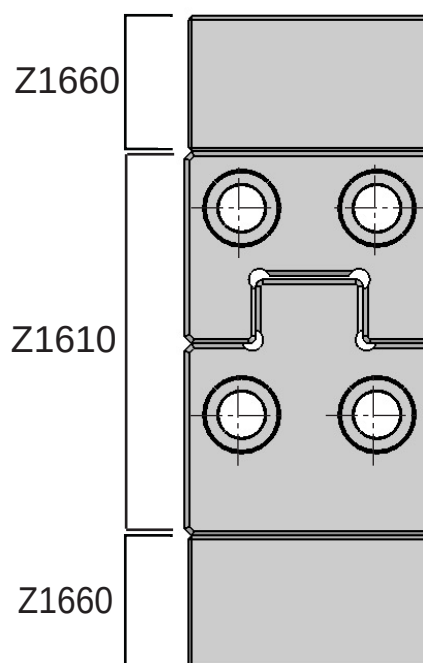
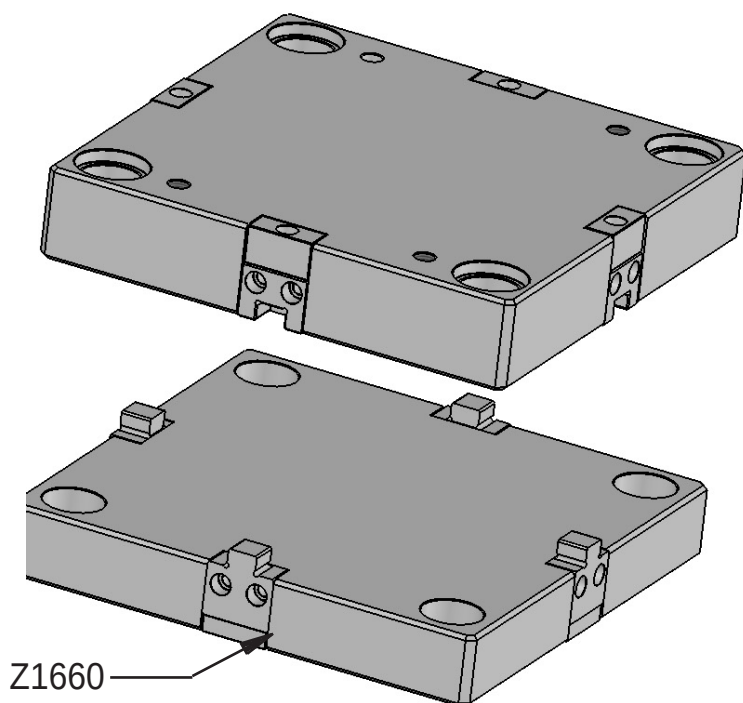

DIN 6325

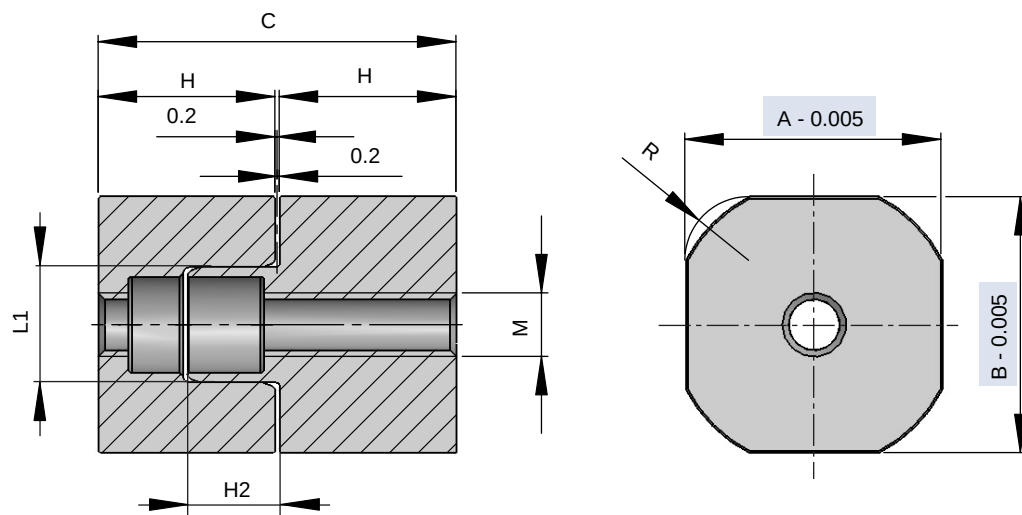
D	L	Z1450 / D x L	D	L	Z1450 / D x L	D	L	Z1450 / D x L
1,0	5	Z1450 / Ø 1,0 x 5	4,0	36	Z1450 / Ø 4,0 x 36	10,0	32	Z1450 / Ø 10,0 x 32
	6	Z1450 / Ø 1,0 x 6		40	Z1450 / Ø 4,0 x 40		36	Z1450 / Ø 10,0 x 36
	8	Z1450 / Ø 1,0 x 8		45	Z1450 / Ø 4,0 x 45		40	Z1450 / Ø 10,0 x 40
	10	Z1450 / Ø 1,0 x 10		50	Z1450 / Ø 4,0 x 50		45	Z1450 / Ø 10,0 x 45
1,5	4	Z1450 / Ø 1,5 x 4		55	Z1450 / Ø 4,0 x 55		50	Z1450 / Ø 10,0 x 50
	5	Z1450 / Ø 1,5 x 5	5,0	60	Z1450 / Ø 4,0 x 60		55	Z1450 / Ø 10,0 x 55
	6	Z1450 / Ø 1,5 x 6		10	Z1450 / Ø 5,0 x 10		60	Z1450 / Ø 10,0 x 60
	8	Z1450 / Ø 1,5 x 8		12	Z1450 / Ø 5,0 x 12		70	Z1450 / Ø 10,0 x 70
	10	Z1450 / Ø 1,5 x 10		14	Z1450 / Ø 5,0 x 14		80	Z1450 / Ø 10,0 x 80
	12	Z1450 / Ø 1,5 x 12		16	Z1450 / Ø 5,0 x 16		90	Z1450 / Ø 10,0 x 90
	14	Z1450 / Ø 1,5 x 14		18	Z1450 / Ø 5,0 x 18		100	Z1450 / Ø 10,0 x 100
	16	Z1450 / Ø 1,5 x 16		20	Z1450 / Ø 5,0 x 20	12,0	24	Z1450 / Ø 12,0 x 24
2,0	6	Z1450 / Ø 2,0 x 6		24	Z1450 / Ø 5,0 x 24		28	Z1450 / Ø 12,0 x 28
	8	Z1450 / Ø 2,0 x 8		28	Z1450 / Ø 5,0 x 28		32	Z1450 / Ø 12,0 x 32
	10	Z1450 / Ø 2,0 x 10		32	Z1450 / Ø 5,0 x 32		36	Z1450 / Ø 12,0 x 36
	12	Z1450 / Ø 2,0 x 12		36	Z1450 / Ø 5,0 x 36		40	Z1450 / Ø 12,0 x 40
	14	Z1450 / Ø 2,0 x 14		40	Z1450 / Ø 5,0 x 40		45	Z1450 / Ø 12,0 x 45
	16	Z1450 / Ø 2,0 x 16		45	Z1450 / Ø 5,0 x 45		50	Z1450 / Ø 12,0 x 50
	18	Z1450 / Ø 2,0 x 18		50	Z1450 / Ø 5,0 x 50		55	Z1450 / Ø 12,0 x 55
	20	Z1450 / Ø 2,0 x 20		55	Z1450 / Ø 5,0 x 55		60	Z1450 / Ø 12,0 x 60
	24	Z1450 / Ø 2,0 x 24		60	Z1450 / Ø 5,0 x 60		70	Z1450 / Ø 12,0 x 70
	28	Z1450 / Ø 2,0 x 28		70	Z1450 / Ø 5,0 x 70		80	Z1450 / Ø 12,0 x 80
2,5	32	Z1450 / Ø 2,0 x 32	6,0	14	Z1450 / Ø 6,0 x 14		90	Z1450 / Ø 12,0 x 90
	6	Z1450 / Ø 2,5 x 6		16	Z1450 / Ø 6,0 x 16	13,0	100	Z1450 / Ø 12,0 x 100
	8	Z1450 / Ø 2,5 x 8		18	Z1450 / Ø 6,0 x 18		32	Z1450 / Ø 13,0 x 32
	10	Z1450 / Ø 2,5 x 10		20	Z1450 / Ø 6,0 x 20		36	Z1450 / Ø 13,0 x 36
	12	Z1450 / Ø 2,5 x 12		24	Z1450 / Ø 6,0 x 24		40	Z1450 / Ø 13,0 x 40
	14	Z1450 / Ø 2,5 x 14		28	Z1450 / Ø 6,0 x 28		45	Z1450 / Ø 13,0 x 45
	16	Z1450 / Ø 2,5 x 16		32	Z1450 / Ø 6,0 x 32		50	Z1450 / Ø 13,0 x 50
	18	Z1450 / Ø 2,5 x 18		36	Z1450 / Ø 6,0 x 36		55	Z1450 / Ø 13,0 x 55
	20	Z1450 / Ø 2,5 x 20		40	Z1450 / Ø 6,0 x 40		60	Z1450 / Ø 13,0 x 60
	24	Z1450 / Ø 2,5 x 24		45	Z1450 / Ø 6,0 x 45		70	Z1450 / Ø 13,0 x 70
3,0	28	Z1450 / Ø 2,5 x 28		50	Z1450 / Ø 6,0 x 50		80	Z1450 / Ø 13,0 x 80
	32	Z1450 / Ø 2,5 x 32		55	Z1450 / Ø 6,0 x 55	14,0	90	Z1450 / Ø 13,0 x 90
	8	Z1450 / Ø 3,0 x 8		60	Z1450 / Ø 6,0 x 60		100	Z1450 / Ø 13,0 x 100
	10	Z1450 / Ø 3,0 x 10	8,0	70	Z1450 / Ø 6,0 x 70		36	Z1450 / Ø 14,0 x 36
	12	Z1450 / Ø 3,0 x 12		80	Z1450 / Ø 6,0 x 80		40	Z1450 / Ø 14,0 x 40
	14	Z1450 / Ø 3,0 x 14		18	Z1450 / Ø 8,0 x 18		45	Z1450 / Ø 14,0 x 45
	16	Z1450 / Ø 3,0 x 16		20	Z1450 / Ø 8,0 x 20		50	Z1450 / Ø 14,0 x 50
	18	Z1450 / Ø 3,0 x 18		24	Z1450 / Ø 8,0 x 24		55	Z1450 / Ø 14,0 x 55
	20	Z1450 / Ø 3,0 x 20		28	Z1450 / Ø 8,0 x 28		60	Z1450 / Ø 14,0 x 60
	24	Z1450 / Ø 3,0 x 24		32	Z1450 / Ø 8,0 x 32		70	Z1450 / Ø 14,0 x 70
	28	Z1450 / Ø 3,0 x 28		36	Z1450 / Ø 8,0 x 36		80	Z1450 / Ø 14,0 x 80
	32	Z1450 / Ø 3,0 x 32		40	Z1450 / Ø 8,0 x 40		90	Z1450 / Ø 14,0 x 90
4,0	36	Z1450 / Ø 3,0 x 36		45	Z1450 / Ø 8,0 x 45	16,0	100	Z1450 / Ø 14,0 x 100
	40	Z1450 / Ø 3,0 x 40		50	Z1450 / Ø 8,0 x 50		40	Z1450 / Ø 16,0 x 40
	10	Z1450 / Ø 4,0 x 10	10,0	55	Z1450 / Ø 8,0 x 55		45	Z1450 / Ø 16,0 x 45
	12	Z1450 / Ø 4,0 x 12		60	Z1450 / Ø 8,0 x 60		50	Z1450 / Ø 16,0 x 50
	14	Z1450 / Ø 4,0 x 14		70	Z1450 / Ø 8,0 x 70		55	Z1450 / Ø 16,0 x 55
	16	Z1450 / Ø 4,0 x 16		80	Z1450 / Ø 8,0 x 80		60	Z1450 / Ø 16,0 x 60
	18	Z1450 / Ø 4,0 x 18		90	Z1450 / Ø 8,0 x 90		70	Z1450 / Ø 16,0 x 70
	20	Z1450 / Ø 4,0 x 20		100	Z1450 / Ø 8,0 x 100		80	Z1450 / Ø 16,0 x 80
	24	Z1450 / Ø 4,0 x 24		20	Z1450 / Ø 10,0 x 20		90	Z1450 / Ø 16,0 x 90
	28	Z1450 / Ø 4,0 x 28		24	Z1450 / Ø 10,0 x 24		100	Z1450 / Ø 16,0 x 100
	32	Z1450 / Ø 4,0 x 32		28	Z1450 / Ø 10,0 x 28			



HRC 54...58

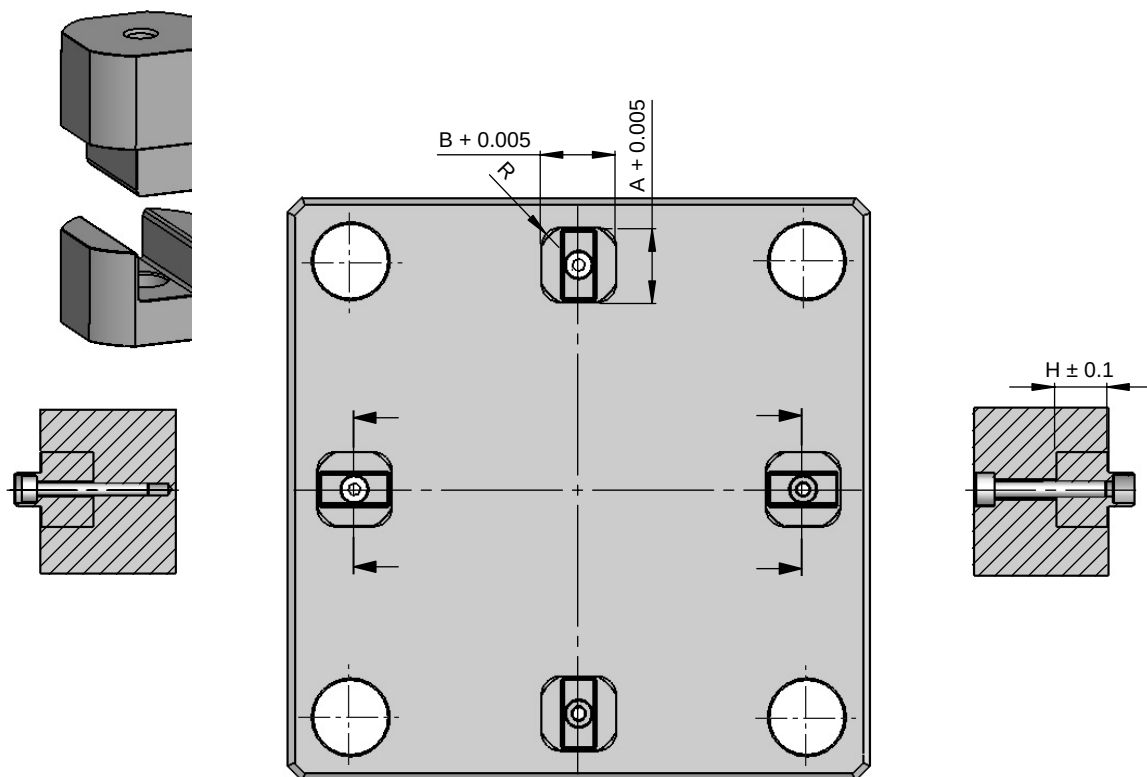
l1	l2	l3	k1	k2	k3	k4	k5	s1	s2	s3	d1	d2	Z1610 / l1
35	19	15	54	27	10	19	9	16	8	8	6.5	10.5	Z1610 / 35
50	34	17	44	22	11	11	9	16	8	8	6.5	10.5	Z1610 / 50
75	50	25	72	36	18	18	15	19	12	12	10.5	16.5	Z1610 / 75

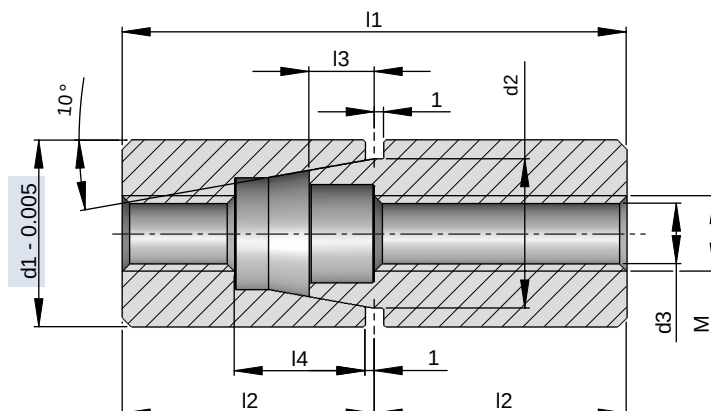
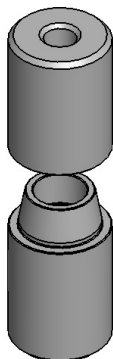




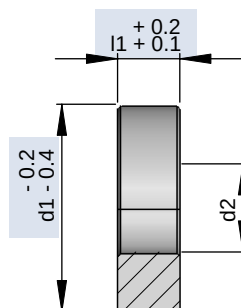
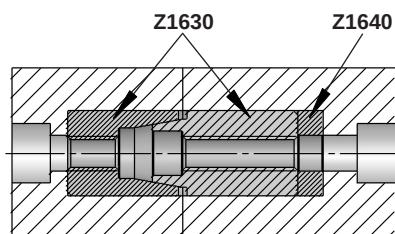
HRC 54...58

A	B	C	H	H2	L1	M	R	Z1620 / A x B
20	20	28	14	7.2	9	5	5	Z1620 / 20 x 20
30	30	40	20	10.2	16	8	7	Z1620 / 30 x 30

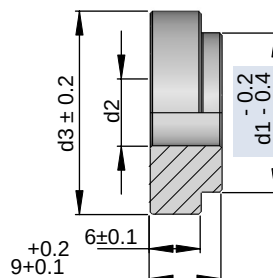
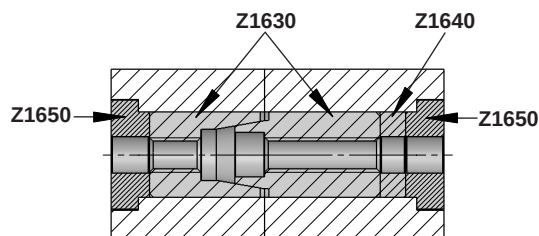


Z1630

Mat. W.1.3505 HRC 52...58

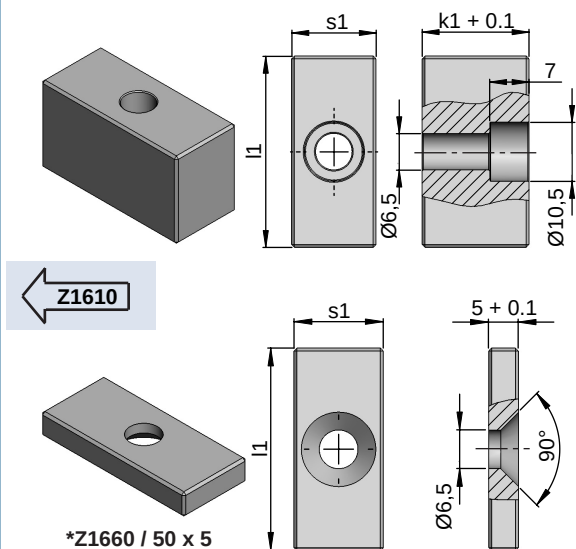
d1	l1	l2	l3	l4	d2	d3	M	Z1630 / d1
14	34	17	5	11	11	4.2	M5	Z1630 / Ø14
16	34	17	5	11	13	5.3	M6	Z1630 / Ø16
20	54	27	7	14	16	6.5	M8	Z1630 / Ø 20
25	54	27	9	17	20	6.5	M8	Z1630 / Ø 25
30	72	36	14	23	25	8.5	M10	Z1630 / Ø 30

Z1640

HRC 50 ± 2

d2	Z1640 / d1 x l1
5.5	Z1640 / Ø14 x 5 Z1640 / Ø14 x 10 Z1640 / Ø14 x 14 Z1640 / Ø14 x 19
6.5	Z1640 / Ø16 x 5 Z1640 / Ø16 x 10 Z1640 / Ø16 x 19
8.5	Z1640 / Ø20 x 9 Z1640 / Ø20 x 10 Z1640 / Ø20 x 20
8.5	Z1640 / Ø25 x 9 Z1640 / Ø25 x 10 Z1640 / Ø25 x 20
11	Z1640 / Ø30 x 10 Z1640 / Ø30 x 20 Z1640 / Ø30 x 30

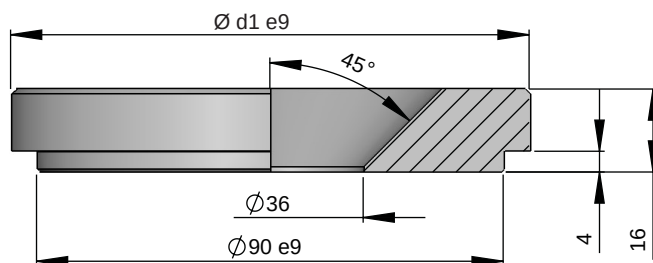
Z1650

HRC 50 ± 2

d2	d3	Z1650/ d1
5.5	16	Z1650 / Ø 14
6.5	20	Z1650 / Ø 16
8.5	25.5	Z1650 / Ø 20
8.5	31.5	Z1650 / Ø 25
11	35.5	Z1650 / Ø 30

Z1660


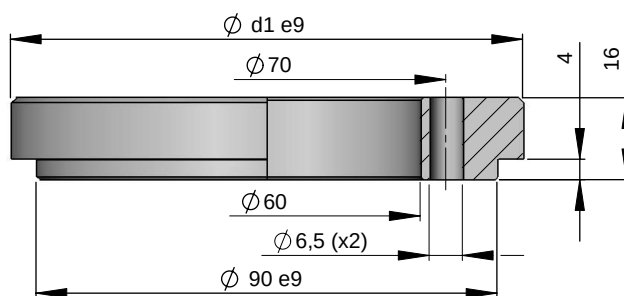
Mat. W.1.1730

l1	s1	k1	Z1660 / (l1+1) x k1
34	15	09	Z1660 / 35 x 09
		19	Z1660 / 35 x 19
		29	Z1660 / 35 x 29
		39	Z1660 / 35 x 39
		49	Z1660 / 35 x 49
		69	Z1660 / 35 x 69
49	15	5	Z1660 / 50 x 05*
		14	Z1660 / 50 x 14
		24	Z1660 / 50 x 24
		34	Z1660 / 50 x 34
		54	Z1660 / 50 x 54
74	18	10	Z1660 / 75 x 10
		20	Z1660 / 75 x 20
		30	Z1660 / 75 x 30
		40	Z1660 / 75 x 40
		60	Z1660 / 75 x 60

Z1810


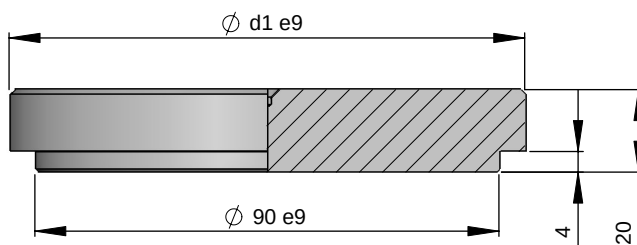
Mat. W.1.1730

Z1810 / d1 x 16
Z1810 / Ø 90 x 16
Z1810 / Ø 100 x 16
Z1810 / Ø 110 x 16
Z1810 / Ø 120 x 16
Z1810 / Ø 125 x 16
Z1810 / Ø 160 x 16
Z1810 / Ø 175 x 16

Z1820


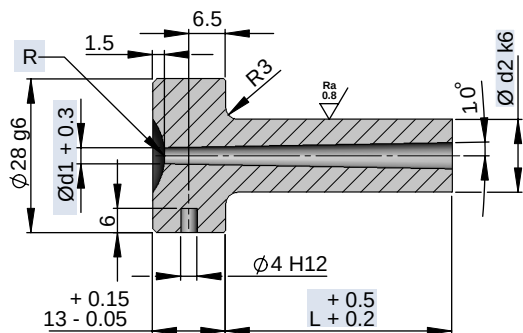
Mat. W.1.1730

Z1820 / d1 x 16
Z1820 / Ø 90 x 16
Z1820 / Ø 100 x 16
Z1820 / Ø 110 x 16
Z1820 / Ø 120 x 16
Z1820 / Ø 125 x 16
Z1820 / Ø 160 x 16
Z1820 / Ø 175 x 16

Z1830


Mat. W.1.1730

Z1830 / d1 x 20
Z1830 / Ø 90 x 20
Z1830 / Ø 100 x 20
Z1830 / Ø 110 x 20
Z1830 / Ø 120 x 20
Z1830 / Ø 125 x 20
Z1830 / Ø 160 x 20
Z1830 / Ø 175 x 20

Z2010


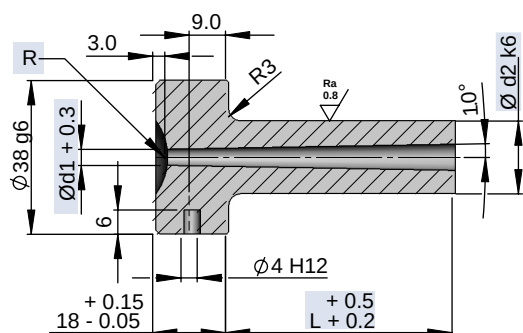
Mat. W.1.7242 HRC 56...58

Z2010 / d2 x L / d1 / R

Z2010 / Ø12 x 22 / 2.5 / R0
Z2010 / Ø12 x 27 / 2.5 / R0
Z2010 / Ø12 x 36 / 2.5 / R0
Z2010 / Ø12 x 46 / 2.5 / R0
Z2010 / Ø12 x 22 / 2.5 / R15.5
Z2010 / Ø12 x 27 / 2.5 / R15.5
Z2010 / Ø12 x 36 / 2.5 / R15.5
Z2010 / Ø12 x 46 / 2.5 / R15.5
Z2010 / Ø12 x 22 / 2.5 / R40
Z2010 / Ø12 x 27 / 2.5 / R40
Z2010 / Ø12 x 36 / 2.5 / R40
Z2010 / Ø12 x 46 / 2.5 / R40

Z2010 / d2 x L / d1 / R

Z2010 / Ø12 x 22 / 3.5 / R0
Z2010 / Ø12 x 27 / 3.5 / R0
Z2010 / Ø12 x 36 / 3.5 / R0
Z2010 / Ø12 x 46 / 3.5 / R0
Z2010 / Ø12 x 56 / 3.5 / R0
Z2010 / Ø12 x 22 / 3.5 / R15.5
Z2010 / Ø12 x 27 / 3.5 / R15.5
Z2010 / Ø12 x 36 / 3.5 / R15.5
Z2010 / Ø12 x 46 / 3.5 / R15.5
Z2010 / Ø12 x 22 / 3.5 / R40
Z2010 / Ø12 x 27 / 3.5 / R40
Z2010 / Ø12 x 36 / 3.5 / R40
Z2010 / Ø12 x 46 / 3.5 / R40
Z2010 / Ø12 x 56 / 3.5 / R40

Z2020


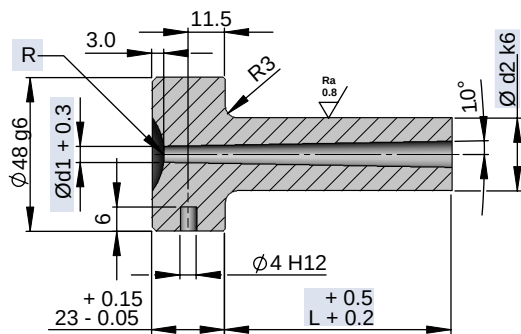
Mat. W.1.7242 HRC 56...58

Z2020 / d2 x L / d1 / R

Z2020 / Ø18 x 27 / 3.0 / R0
Z2020 / Ø18 x 36 / 3.0 / R0
Z2020 / Ø18 x 46 / 3.0 / R0
Z2020 / Ø18 x 56 / 3.0 / R0
Z2020 / Ø18 x 76 / 3.0 / R0
Z2020 / Ø18 x 96 / 3.0 / R0
Z2020 / Ø18 x 116 / 3.0 / R0
Z2020 / Ø18 x 27 / 3.0 / R15.5
Z2020 / Ø18 x 36 / 3.0 / R15.5
Z2020 / Ø18 x 46 / 3.0 / R15.5
Z2020 / Ø18 x 56 / 3.0 / R15.5
Z2020 / Ø18 x 76 / 3.0 / R15.5
Z2020 / Ø18 x 96 / 3.0 / R15.5
Z2020 / Ø18 x 116 / 3.0 / R15.5
Z2020 / Ø18 x 27 / 3.0 / R40
Z2020 / Ø18 x 36 / 3.0 / R40
Z2020 / Ø18 x 46 / 3.0 / R40
Z2020 / Ø18 x 56 / 3.0 / R40
Z2020 / Ø18 x 76 / 3.0 / R40
Z2020 / Ø18 x 96 / 3.0 / R40
Z2020 / Ø18 x 116 / 3.0 / R40

Z2020 / d2 x L / d1 / R

Z2020 / Ø18 x 27 / 4.0 / R0
Z2020 / Ø18 x 36 / 4.0 / R0
Z2020 / Ø18 x 46 / 4.0 / R0
Z2020 / Ø18 x 56 / 4.0 / R0
Z2020 / Ø18 x 76 / 4.0 / R0
Z2020 / Ø18 x 96 / 4.0 / R0
Z2020 / Ø18 x 116 / 4.0 / R0
Z2020 / Ø18 x 27 / 4.0 / R15.5
Z2020 / Ø18 x 36 / 4.0 / R15.5
Z2020 / Ø18 x 46 / 4.0 / R15.5
Z2020 / Ø18 x 56 / 4.0 / R15.5
Z2020 / Ø18 x 76 / 4.0 / R15.5
Z2020 / Ø18 x 96 / 4.0 / R15.5
Z2020 / Ø18 x 116 / 4.0 / R15.5
Z2020 / Ø18 x 27 / 4.0 / R40
Z2020 / Ø18 x 36 / 4.0 / R40
Z2020 / Ø18 x 46 / 4.0 / R40
Z2020 / Ø18 x 56 / 4.0 / R40
Z2020 / Ø18 x 76 / 4.0 / R40
Z2020 / Ø18 x 96 / 4.0 / R40
Z2020 / Ø18 x 116 / 4.0 / R40

Z2030


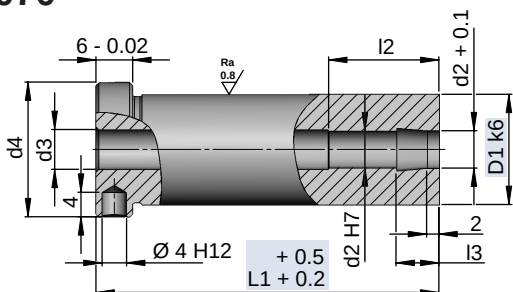
Mat. W.1.7242 HRC 56...58

Z2030 / d2 x L / d1 / R

Z2030 / Ø24 x 56 / 6.5 / R0
Z2030 / Ø24 x 76 / 6.5 / R0
Z2030 / Ø24 x 96 / 6.5 / R0
Z2030 / Ø24 x 116 / 6.5 / R0
Z2030 / Ø24 x 136 / 6.5 / R0
Z2030 / Ø24 x 156 / 6.5 / R0
Z2030 / Ø24 x 56 / 6.5 / R15.5
Z2030 / Ø24 x 76 / 6.5 / R15.5
Z2030 / Ø24 x 96 / 6.5 / R15.5
Z2030 / Ø24 x 116 / 6.5 / R15.5
Z2030 / Ø24 x 136 / 6.5 / R15.5
Z2030 / Ø24 x 156 / 6.5 / R15.5

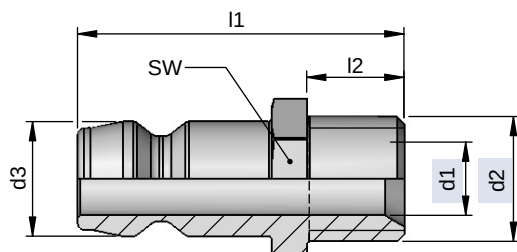
Z2030 / d2 x L / d1 / R

Z2030 / Ø24 x 56 / 6.5 / R40
Z2030 / Ø24 x 76 / 6.5 / R40
Z2030 / Ø24 x 96 / 6.5 / R40
Z2030 / Ø24 x 116 / 6.5 / R40
Z2030 / Ø24 x 136 / 6.5 / R40
Z2030 / Ø24 x 156 / 6.5 / R40

Z2070


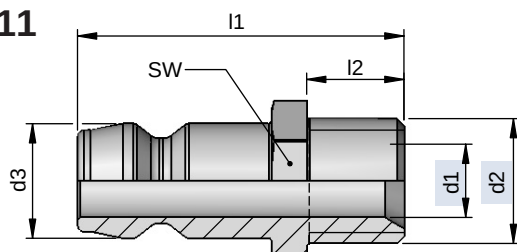
Mat. W.1.7242 HRC 56...58

d2	d3	d4	l2	l3	Z2070 / D1 x L1	d2	d3	d4	l2	l3	Z2070 / D1 x L1
4	4.5	16	18	7	Z2070 / Ø12 x 22	8	8.5	28	28	9.5	Z2070 / Ø24 x 36
					Z2070 / Ø12 x 27						Z2070 / Ø24 x 46
					Z2070 / Ø12 x 36						Z2070 / Ø24 x 56
					Z2070 / Ø12 x 46						Z2070 / Ø24 x 66
6	6.5	22	27	7	Z2070 / Ø18 x 22						Z2070 / Ø24 x 76
					Z2070 / Ø18 x 27						Z2070 / Ø24 x 86
					Z2070 / Ø18 x 36						Z2070 / Ø24 x 96
					Z2070 / Ø18 x 46						
					Z2070 / Ø18 x 56						
					Z2070 / Ø18 x 66						
					Z2070 / Ø18 x 76						

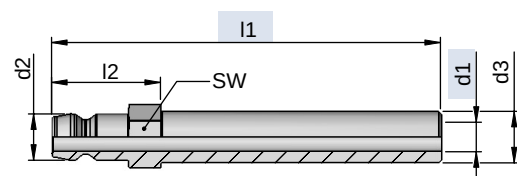
Z2210


Mat. Ms

d1	d2	d3	l1	l2	SW	Product code
6	BSP 1/8"	9	25	7	11	Z2210 / N618 / Ø 6
6	BSP 1/4"	9	26	8	14	Z2210 / N614 / Ø 6
6	BSP 3/8"	9	29	11	17	Z2210 / N638 / Ø 6
4,5	M8 x 0,75	9	28	10	11	Z2210 / N608 / Ø 4,5
6	M10 x 1	9	25	7	11	Z2210 / N610 / Ø 6
6	M14 x 1,5	9	25	7	14	Z2210 / N610 / Ø 6 / 1,5
6	M10 x 1	9	25	7	14	Z2210 / N610SS / Ø 6
6	BSP 1/8"	9	25	7	11	Z2210 / N618SS / Ø 6
6	BSP 1/4"	9	26	8	14	Z2210 / N614SS / Ø 6
6	M14 x 1,5	9	26	8	14	Z2210 / N645SS / Ø 6
6	BSP 1/8"	13	27	9	14	Z2210 / N918 / Ø 6
9	BSP 1/4"	13	27	9	14	Z2210 / N914 / Ø 9
9	BSP 3/8"	13	31	10	17	Z2210 / N938 / Ø 9
9	BSP 1/2"	13	32	10	22	Z2210 / N912 / Ø 9
6	M10 x 1	13	27	9	14	Z2210 / N910 / Ø 6
6	M10 x 1,5	13	27	9	14	Z2210 / N910 / Ø 6 / 1,5
9	M14 x 1,5	13	27	9	15	Z2210 / N945 / Ø 9
9	M16 x 1,5	13	31	10	17	Z2210 / N965 / Ø 9
6	BSP 1/8"	13	27	9	14	Z2210 / N918SS / Ø 6
9	BSP 1/4"	13	27	9	14	Z2210 / N914SS / Ø 9
9	BSP 3/8"	13	31	10	17	Z2210 / N938SS / Ø 9
13	BSP 1/2"	19	47	12	22	Z2210 / N812 / Ø 13
13	BSP 3/4"	19	51	16	27	Z2210 / N834 / Ø 13
13	M24 x 1,5	19	51	16	27	Z2210 / N824 / Ø 13

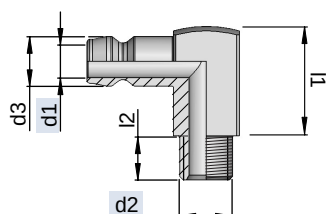
Z2211

 V = 
 Mat. Ms

d1	d2	d3	l1	l2	SW	Product code
6	BSP 1/4"	9	29	11	14	Z2211 / N614V / Ø 6
6	BSP 3/8"	9	29	11	17	Z2211 / N638V / Ø 6
6	M14 x 1,5	9	29	11	14	Z2211 / N645V / Ø 6
9	BSP 1/4"	13	29	11	14	Z2211 / N914V / Ø 9
9	BSP 3/8"	13	31	13	17	Z2211 / N938V / Ø 9
9	M14 x 1,5	13	29	11	14	Z2211 / N945V / Ø 9
9	M16 x 1,5	13	31	13	17	Z2211 / N965V / Ø 9
13	BSP 1/2"	19	47	12	22	Z2211 / N812V / Ø 13
13	BSP 3/4"	19	51	16	27	Z2211 / N834V / Ø 13
13	M24 x 1,5	19	51	16	27	Z2211 / N824V / Ø 13

Z2212


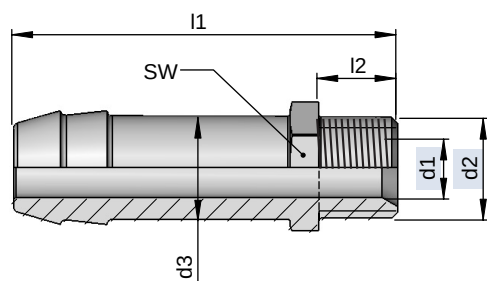
Mat. Ms

d1	d2	d3	SW	l2	l1	Product code
6	9	10	11	21	50	Z2212 / N608 / Ø 6 / Ø 10 x 50
					65	Z2212 / N608 / Ø 6 / Ø 10 x 65
					80	Z2212 / N608 / Ø 6 / Ø 10 x 80
					100	Z2212 / N608 / Ø 6 / Ø 10 x 100
					120	Z2212 / N608 / Ø 6 / Ø 10 x 120
					240	Z2212 / N608 / Ø 6 / Ø 10 x 240
9	13	14	15	22	360	Z2212 / N608 / Ø 6 / Ø 10 x 360
					70	Z2212 / N908 / Ø 9 / Ø 14 x 70
					150	Z2212 / N908 / Ø 9 / Ø 14 x 150
					300	Z2212 / N908 / Ø 9 / Ø 14 x 300

Z2213


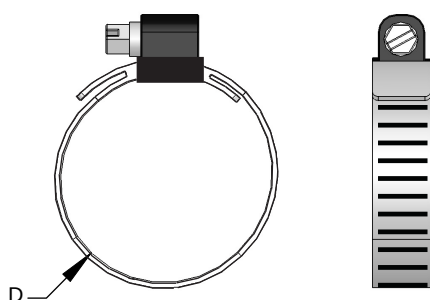
Mat. Ms

d1	d2	d3	l1	l2	Product code
6	BSP 1/8"	9	20	9	Z2213 / N618 / Ø 6 / 90°
6	BSP 1/4"	9	20	9	Z2213 / N614 / Ø 6 / 90°
6	BSP 3/8"	9	20	9	Z2213 / N638 / Ø 6 / 90°
4,5	M8 x 0,75	9	20	9	Z2213 / N608 / Ø 4,5 / 90°
6	M10 x 1	9	20	9	Z2213 / N610 / Ø 6 / 90°
6	M14 x 1,5	9	20	9	Z2213 / N645 / Ø 6 / 90°
9	BSP 1/4"	13	24	9	Z2213 / N914 / Ø 9 / 90°
9	BSP 3/8"	13	24	9	Z2213 / N938 / Ø 9 / 90°
9	M14 x 1,5	13	24	9	Z2213 / N945 / Ø 9 / 90°
9	M16 x 1,5	13	24	9	Z2213 / N965 / Ø 9 / 90°

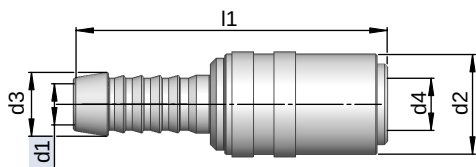
Z2220


Mat. Ms

d1	d2	d3	l1	l2	SW	Product code
4.5	M8 x 0.75	10	28	7	11	Z2220 / N608H / Ø 4,5
6	M10 x 1	10	28	7	11	Z2220 / N610H / Ø 6
6	M12 x 1.5	10	30	9	15	Z2220 / N625H / Ø 6
6	M14 x 1.5	10	30	9	15	Z2220 / N645H / Ø 6
6	BSP 1/8"	10	30	7	11	Z2220 / N618H / Ø 6
6	BSP 1/4"	10	28	9	15	Z2220 / N614H / Ø 6
8	M12 x 1.5	13	36	9	15	Z2220 / N925H / Ø 9
9	M14 x 1.5	13	36	9	15	Z2220 / N945H / Ø 9
9	M16 x 1.5	13	36	9	17	Z2220 / N965H / Ø 9
9	BSP 1/4"	13	36	9	15	Z2220 / N914H / Ø 9
9	BSP 3/8"	13	36	9	17	Z2220 / N938H / Ø 9
9	BSP 1/2"	13	36	9	17	Z2220 / N912H / Ø 9

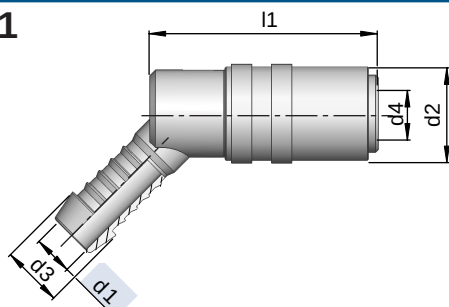
Z2223


Dmin	Dmax	Product code
9	14	Z2223 / Ø 09-14 / G
10	15	Z2223 / Ø 10-15 / G
10	19	Z2223 / Ø 10-19 / G
16	27	Z2223 / Ø 16-27 / G
23	35	Z2223 / Ø 23-35 / G
9	14	Z2223 / Ø 09-14 / SS
10	15	Z2223 / Ø 10-15 / SS
10	19	Z2223 / Ø 10-19 / SS
16	27	Z2223 / Ø 16-27 / SS
27	35	Z2223 / Ø 23-35 / SS

Z2230


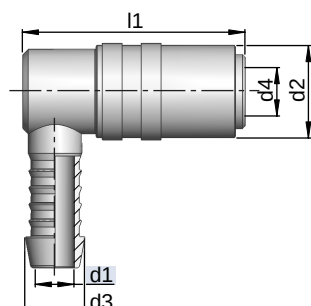
Mat. Ms

d1	d2	d3	d4	l1	Product code
3	17	10	9	53	Z2230 / C613 / Ø 3
4	17	10	9	53	Z2230 / C614 / Ø 4
6	17	10	9	53	Z2230 / C615 / Ø 6
6	17	10	9	53	Z2230 / C616 / Ø 6
6	17	10	9	53	Z2230 / C618 / Ø 6
9	23	13	13	61	Z2230 / C916 / Ø 9
9	23	13	13	61	Z2230 / C911 / Ø 9
9	23	13	13	61	Z2230 / C918 / Ø 9
9	23	13	13	61	Z2230 / C958 / Ø 9
13	31	19	19	92	Z2230 / C819 / Ø 13

Z2231


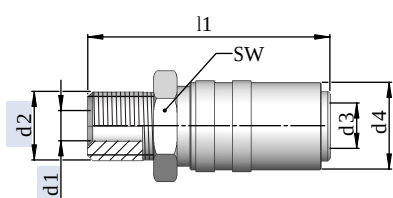
Mat. Ms

d1	d2	d3	d4	l1	Product code
4	17	10	9	41	Z2231 / C614 / Ø 4 / 45°
6	17	10	9	41	Z2231 / C615 / Ø 6 / 45°
6	17	10	9	41	Z2231 / C616 / Ø 6 / 45°
9	23	13	13	51	Z2231 / C911 / Ø 9 / 45°
9	23	13	13	51	Z2231 / C918 / Ø 9 / 45°
13	31	19	19	82	Z2231 / C819 / Ø 13 / 45°

Z2232


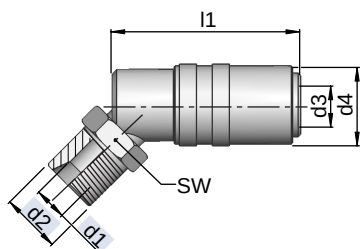
Mat. Ms

d1	d2	d3	d4	l1	Product code
4	17	10	9	41	Z2232 / C614 / Ø 4 / 90°
6	17	10	9	41	Z2232 / C615 / Ø 6 / 90°
6	17	10	9	41	Z2232 / C616 / Ø 6 / 90°
9	23	13	13	51	Z2232 / C911 / Ø 9 / 90°
9	23	13	13	51	Z2232 / C918 / Ø 9 / 90°
13	31	19	19	82	Z2232 / C819 / Ø 13 / 90°

Z2233


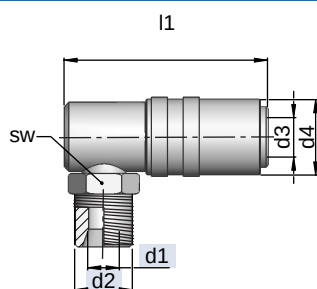
Mat. Ms

d1	d2	d3	d4	l1	SW	Product code
6	M10 x 1,0	9	17	48	17	Z2233 / CET610 / Ø 6
6	M14 x 1,5	9	17	48	17	Z2233 / CET645 / Ø 6
6	M16 x 1,5	9	17	48	17	Z2233 / CET665 / Ø 6
6	BSP 1/8"	9	17	48	17	Z2233 / CET618 / Ø 6
6	BSP 1/4"	9	17	48	17	Z2233 / CET614 / Ø 6
6	BSP 3/8"	9	17	48	17	Z2233 / CET638 / Ø 6
9	M14x1,5	13	23	53	21	Z2233 / CET945 / Ø 9
9	M16x1,5	13	23	53	21	Z2233 / CET965 / Ø 9
9	M18x1,5	13	23	53	21	Z2233 / CET985 / Ø 9
9	BSP 1/4"	13	23	53	21	Z2233 / CET914 / Ø 9
9	BSP 3/8"	13	23	53	21	Z2233 / CET938 / Ø 9
9	BSP 1/2"	13	23	53	21	Z2233 / CET912 / Ø 9
13	BSP 1/2"	19	31	78	30	Z2233 / CET812 / Ø 13
13	BSP 3/4"	19	31	78	30	Z2233 / CET834 / Ø 13
13	M24x1,5	19	31	78	30	Z2233 / CET824 / Ø 13

Z2234


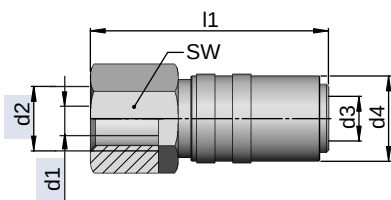
Mat. Ms

d1	d2	d3	d4	l1	Product code
6	BSP 1/8"	9	17	41	Z2234 / CET618 / Ø 6 / 45°
6	BSP 1/4"	9	17	41	Z2234 / CET614 / Ø 6 / 45°
6	M10x1	9	17	41	Z2234 / CET610 / Ø 6 / 45°
6	M14x1,5	9	17	41	Z2234 / CET645 / Ø 6 / 45°
6	BSP 1/4"	9	17	41	Z2234 / CET914 / Ø 9 / 45°
9	BSP 3/8"	13	13	51	Z2234 / CET938 / Ø 9 / 45°
9	M14x1,5	13	13	51	Z2234 / CET945 / Ø 9 / 45°
9	M16x1,5	13	13	51	Z2234 / CET965 / Ø 9 / 45°
9	M18x1,5	13	13	51	Z2234 / CET985 / Ø 9 / 45°
13	BSP 1/2"	19	19	82	Z2234 / CET812 / Ø 13 / 45°
13	BSP 3/4"	19	19	82	Z2234 / CET834 / Ø 13 / 45°
13	M24x1,5	19	19	82	Z2234 / CET824 / Ø 13 / 45°

Z2235


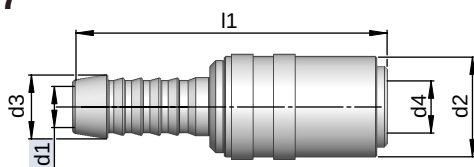
Mat. Ms

d1	d2	d3	d4	l1	Product code
6	BSP 1/8"	9	17	41	Z2235 / CET618 / Ø 6 / 90°
6	BSP 1/4"	9	17	41	Z2235 / CET614 / Ø 6 / 90°
6	M10x1	9	17	41	Z2235 / CET610 / Ø 6 / 90°
6	M14x1,5	9	17	41	Z2235 / CET645 / Ø 6 / 90°
6	BSP 1/4"	9	17	41	Z2235 / CET914 / Ø 9 / 90°
9	BSP 3/8"	13	13	51	Z2235 / CET938 / Ø 9 / 90°
9	M14x1,5	13	13	51	Z2235 / CET945 / Ø 9 / 90°
9	M16x1,5	13	13	51	Z2235 / CET965 / Ø 9 / 90°
9	M18x1,5	13	13	51	Z2235 / CET985 / Ø 9 / 90°
13	BSP 1/2"	19	19	82	Z2235 / CET812 / Ø 13 / 90°
13	BSP 3/4"	19	19	82	Z2235 / CET834 / Ø 13 / 90°
13	M24x1,5	19	19	82	Z2235 / CET824 / Ø 13 / 90°

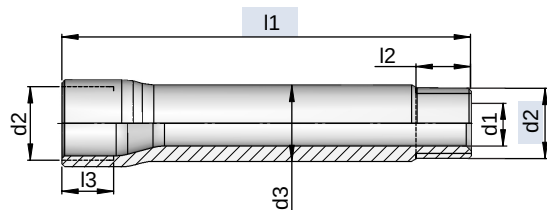
Z2236


Mat. Ms

d1	d2	d3	d4	l1	SW	Product code
6	BSP 1/8"	9	17	47	17	Z2236 / CIT618 / Ø 6
6	BSP 1/4"	9	17	47	17	Z2236 / CIT614 / Ø 6
6	BSP 3/8"	9	17	47	17	Z2236 / CIT638 / Ø 6
6	M10x1	9	17	47	17	Z2236 / CIT610 / Ø 6
6	M14x1,5	9	17	47	17	Z2236 / CIT645 / Ø 6
6	M16x1,5	9	17	47	17	Z2236 / CIT665 / Ø 6
9	BSP 1/4"	13	23	53	21	Z2236 / CIT914 / Ø 9
9	BSP 3/8"	13	23	53	21	Z2236 / CIT938 / Ø 9
9	BSP 1/2"	13	23	53	21	Z2236 / CIT912 / Ø 9
9	M14x1,5	13	23	53	21	Z2236 / CIT945 / Ø 9
9	M16x1,5	13	23	53	21	Z2236 / CIT965 / Ø 9
9	M18x1,5	13	23	53	21	Z2236 / CIT985 / Ø 9

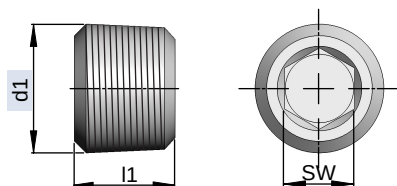
Z2237


d1	d2	d3	d4	l1	Product code
3	17	10	9	53	Z2237 / C613 / Ø 3 / OV
4	17	10	9	53	Z2237 / C614 / Ø 4 / OV
6	17	10	9	53	Z2237 / C615 / Ø 6 / OV
6	17	10	9	53	Z2237 / C616 / Ø 6 / OV
6	17	10	9	53	Z2237 / C618 / Ø 6 / OV
9	23	13	13	61	Z2237 / C916 / Ø 9 / OV
9	23	13	13	61	Z2237 / C911 / Ø 9 / OV
9	23	13	13	61	Z2237 / C918 / Ø 9 / OV
9	23	13	13	61	Z2237 / C958 / Ø 9 / OV
10	25	13	19	61	Z2237 / C818 / Ø 10 / OV
13	31	19	19	92	Z2237 / C819 / Ø 13 / OV

Z2240


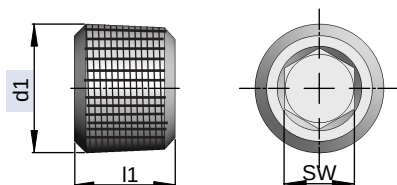
Mat. 1.0308 Zn

d1	d2	d3	l2	l3	l1	Product code
6	BSPT 1/8"	10	9	11	50	Z2240 / 1/8 x 50
					75	Z2240 / 1/8 x 75
					100	Z2240 / 1/8 x 100
					125	Z2240 / 1/8 x 125
9	BSPT 1/4"	14	10	12	50	Z2240 / 1/4 x 50
					75	Z2240 / 1/4 x 75
					100	Z2240 / 1/4 x 100
					125	Z2240 / R1/4 x 125
					150	Z2240 / R1/4 x 150

Z2250


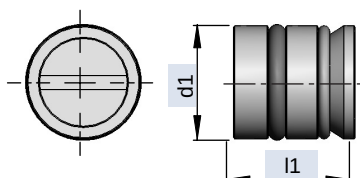
Mat. Ms

d1	l1	SW	Z2250 / A / d1
BSP 1/8"	10	5	Z2250 / A / 1/8"
BSP 1/4"	10	6	Z2250 / A / 1/4"
BSP 3/8"	10	8	Z2250 / A / 3/8"
BSP 1/2"	10	10	Z2250 / A / 1/2"
M6 x 0,75	10	3	Z2250 / A / M6 x 0,75
M8 x 0,75	10	4	Z2250 / A / M8 x 0,75
M10 x 1.0	10	5	Z2250 / A / M10 x 1.0
M12 x 1.5	10	6	Z2250 / A / M12 x 1.5
M14 x 1.5	10	7	Z2250 / A / M14 x 1.5

Z2251


Mat. Ms / Surface: Nickel

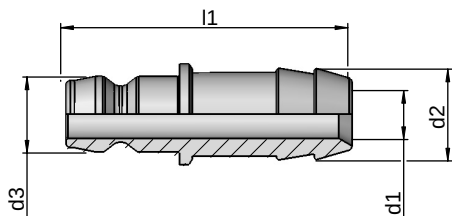
d1	l1	SW	Z2251 / B / d1
BSP 1/8"	10	5	Z2251 / B / 1/8
BSP 1/4"	10	6	Z2251 / B / 1/4
BSP 3/8"	10	8	Z2251 / B / 3/8
BSP 1/2"	10	10	Z2251 / B / 1/2
M 6 x 0.75	10	3	Z2251 / B / M6 x 0,75
M 8 x 0.75	10	4	Z2251 / B / M8 x 0,75
M 10 x 1.0	10	5	Z2251 / B / M10 x 1.0
M12 x 1.5	10	6	Z2251 / B / M12 x 1.5
M14 x 1.5	10	7	Z2251 / B / M14 x 1.5

Z2252


Mat. Ms / O-Ring VITON 200C°

d1	l1	Z2252 / C / d1 x l1
6	10	Z2252 / C / Ø 6 x 10
7	10	Z2252 / C / Ø 7 x 10
8	10	Z2252 / C / Ø 8 x 10
10	10	Z2252 / C / Ø10 x 10
12	10	Z2252 / C / Ø12 x 10
14	12	Z2252 / C / Ø14 x 12
16	12	Z2252 / C / Ø16 x 12

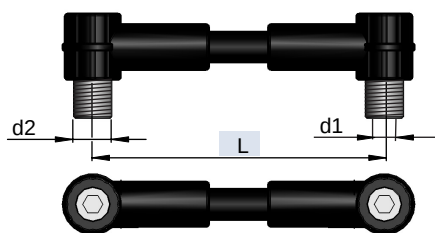
Z2260



Mat. Ms

d1	d2	d3	l1	Product code
4.5	6	9	35	Z2260 / NH623
6	8	9	35	Z2260 / NH624
6	10	9	35	Z2260 / NH625
6	13	9	35	Z2260 / NH626
6	13	9	35	Z2260 / NH628
9	10	13	41	Z2260 / NH926
9	13	13	41	Z2260 / NH928
13	13	19	53	Z2260 / NH828
13	19	19	62	Z2260 / NH819

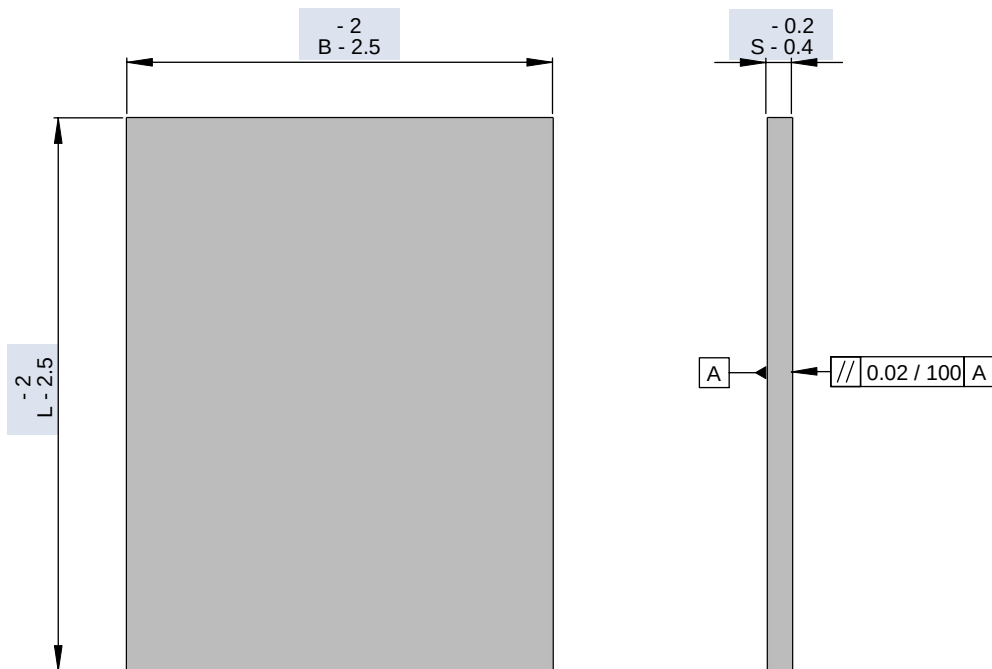
Z2261



Mat. Ms/Plastic

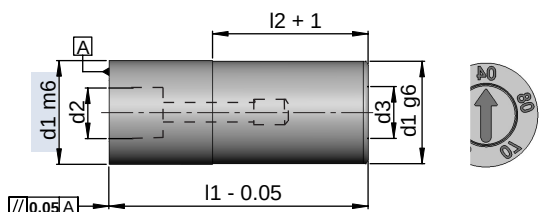
d1	L	Product code
8	125	Z2261 / BB1818 / 125
8	250	Z2261 / BB1818 / 250
8	500	Z2261 / BB1818 / 500
10	125	Z2261 / BB1414 / 125
10	250	Z2261 / BB1414 / 250
10	500	Z2261 / BB1414 / 500
8	125	Z2261 / BB1010 / 125
8	250	Z2261 / BB1010 / 250
8	500	Z2261 / BB1010 / 500
10	125	Z2261 / BB4545 / 125
10	250	Z2261 / BB4545 / 250
10	500	Z2261 / BB4545 / 500

Z2320



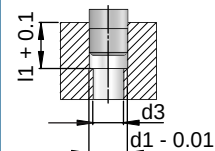
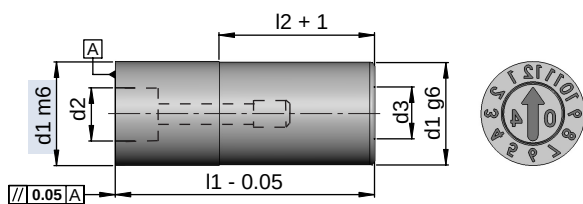
0.3 W / mK / max. 230°C / 630 N/mm²

Z2320 / B x L x s	Z2320 / B x L x s	Z2320 / B x L x s	Z2320 / B x L x s	Z2320 / B x L x s
Z2320 / 100 x 130 x 6	Z2320 / 246 x 346 x 6	Z2320 / 346 x 696 x 6	Z2320 / 496 x 546 x 6	Z2320 / 596 x 896 x 6
Z2320 / 150 x 180 x 6	Z2320 / 246 x 396 x 6	Z2320 / 346 x 796 x 6	Z2320 / 496 x 596 x 6	Z2320 / 596 x 996 x 6
Z2320 / 156 x 156 x 6	Z2320 / 246 x 446 x 6	Z2320 / 396 x 396 x 6	Z2320 / 496 x 696 x 6	Z2320 / 646 x 696 x 6
Z2320 / 156 x 196 x 6	Z2320 / 246 x 496 x 6	Z2320 / 396 x 446 x 6	Z2320 / 496 x 796 x 6	Z2320 / 646 x 796 x 6
Z2320 / 156 x 206 x 6	Z2320 / 296 x 296 x 6	Z2320 / 396 x 496 x 6	Z2320 / 496 x 896 x 6	Z2320 / 646 x 896 x 6
Z2320 / 156 x 246 x 6	Z2320 / 296 x 346 x 6	Z2320 / 396 x 596 x 6	Z2320 / 496 x 996 x 6	Z2320 / 646 x 996 x 6
Z2320 / 156 x 296 x 6	Z2320 / 296 x 396 x 6	Z2320 / 396 x 696 x 6	Z2320 / 546 x 546 x 6	Z2320 / 696 x 696 x 6
Z2320 / 156 x 396 x 6	Z2320 / 296 x 446 x 6	Z2320 / 396 x 796 x 6	Z2320 / 546 x 596 x 6	Z2320 / 696 x 796 x 6
Z2320 / 196 x 196 x 6	Z2320 / 296 x 496 x 6	Z2320 / 446 x 446 x 6	Z2320 / 546 x 646 x 6	Z2320 / 696 x 896 x 6
Z2320 / 196 x 206 x 6	Z2320 / 296 x 546 x 6	Z2320 / 446 x 496 x 6	Z2320 / 546 x 696 x 6	Z2320 / 696 x 996 x 6
Z2320 / 196 x 246 x 6	Z2320 / 296 x 596 x 6	Z2320 / 446 x 546 x 6	Z2320 / 546 x 796 x 6	Z2320 / 796 x 796 x 6
Z2320 / 196 x 296 x 6	Z2320 / 296 x 696 x 6	Z2320 / 446 x 596 x 6	Z2320 / 546 x 896 x 6	Z2320 / 796 x 896 x 6
Z2320 / 196 x 346 x 6	Z2320 / 346 x 396 x 6	Z2320 / 446 x 696 x 6	Z2320 / 546 x 996 x 6	Z2320 / 796 x 996 x 6
Z2320 / 196 x 396 x 6	Z2320 / 346 x 446 x 6	Z2320 / 446 x 796 x 6	Z2320 / 596 x 596 x 6	Z2320 / 1000 x 1000 x 6
Z2320 / 196 x 446 x 6	Z2320 / 346 x 496 x 6	Z2320 / 446 x 896 x 6	Z2320 / 596 x 646 x 6	
Z2320 / 246 x 246 x 6	Z2320 / 346 x 546 x 6	Z2320 / 446 x 996 x 6	Z2320 / 596 x 696 x 6	
Z2320 / 246 x 296 x 6	Z2320 / 346 x 596 x 6	Z2320 / 496 x 496 x 6	Z2320 / 596 x 796 x 6	

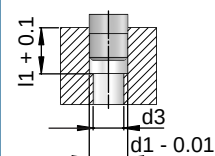
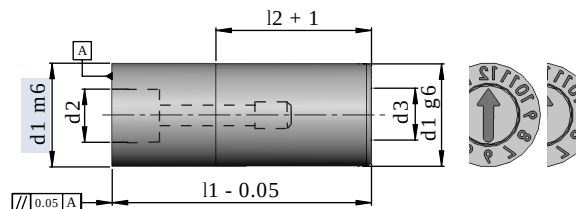
Z2410


Mat. INOX 1.4034 HRC 45...50

d1	d2	d3	l1	l2	Z2410 / d1 / Y
4	2.2	2.5	10	5	Z2410 / Ø4 / Y
5	3.0	3.5	10	5	Z2410 / Ø5 / Y
6	3.2	4	20	12	Z2410 / Ø6 / Y
8	4.7	6	20	12	Z2410 / Ø8 / Y
10	5.7	8	20	12	Z2410 / Ø10 / Y
12	6.7	10	20	12	Z2410 / Ø12 / Y
16	8.7	12	20	12	Z2410 / Ø16 / Y

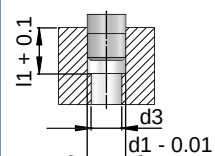
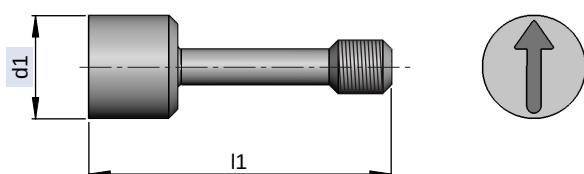

Z2420

 Mat. INOX 1.4034 HRC 45...50
 XXXX = YEAR

d1	d2	d3	l1	l2	Z2420 / d1 / MY / YEAR
4	2.2	2.5	10	5	Z2420 / Ø4 / MY / xxxx
5	3.0	3.5	10	5	Z2420 / Ø5 / MY / xxxx
6	3.2	4	20	12	Z2420 / Ø6 / MY / xxxx
8	4.7	6	20	12	Z2420 / Ø8 / MY / xxxx
10	5.7	8	20	12	Z2420 / Ø10 / MY / xxxx
12	6.7	10	20	12	Z2420 / Ø12 / MY / xxxx
16	8.7	12	20	12	Z2420 / Ø16 / MY / xxxx


Z2430


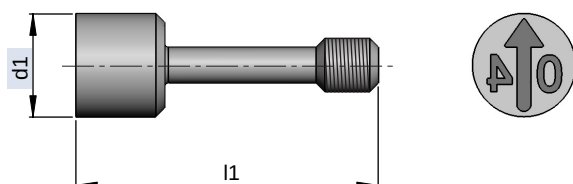
Mat. INOX 1.4034 HRC 45...50

d1	d2	d3	l1	l2	Z2430 / d1 / M
4	2.2	2.5	10	5	Z2430 / Ø4 / M
5	3.0	3.5	10	5	Z2430 / Ø5 / M
6	3.2	4	20	12	Z2430 / Ø6 / M
8	4.7	6	20	12	Z2430 / Ø8 / M
10	5.7	8	20	12	Z2430 / Ø10 / M
12	6.7	10	20	12	Z2430 / Ø12 / M
16	8.7	12	20	12	Z2430 / Ø16 / M

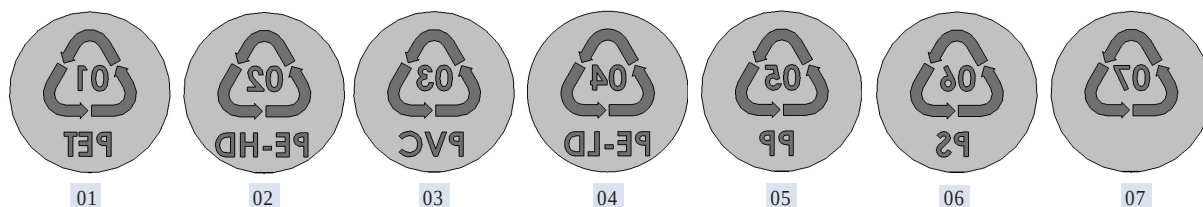
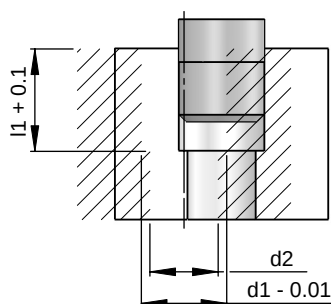
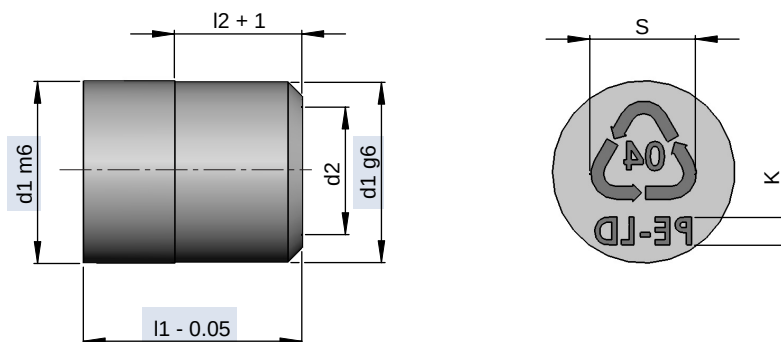

Z2450


Mat. INOX 1.4034 HRC 45...50

l1	d1	Z2450 / d1 / A
7.5	2.2	Z2450 / Ø4 / A
	3.0	Z2450 / Ø5 / A
17	3.2	Z2450 / Ø6 / A
	4.7	Z2450 / Ø8 / A
	5.7	Z2450 / Ø10 / A
	6.7	Z2450 / Ø12 / A
	8.7	Z2450 / Ø16 / A

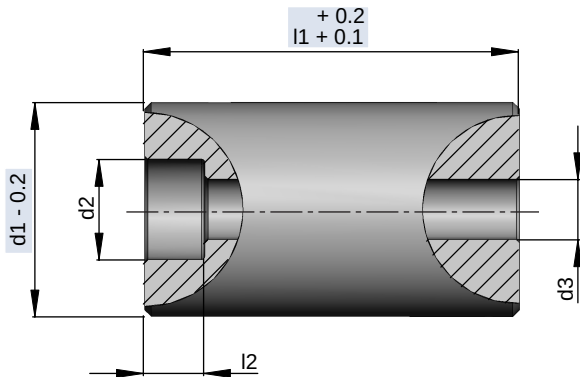
Z2451

 Mat. INOX 1.4034 HRC 45...50
 XXXX = YEAR

l1	d1	Z2451 / d1 / AY / YEAR
7.5	2.2	Z2451 / Ø4 / AY / xxxx
	3.0	Z2451 / Ø5 / AY / xxxx
17	3.2	Z2451 / Ø6 / AY / xxxx
	4.7	Z2451 / Ø8 / AY / xxxx
	5.7	Z2451 / Ø10 / AY / xxxx
	6.7	Z2451 / Ø12 / AY / xxxx
	8.7	Z2451 / Ø16 / AY / xxxx



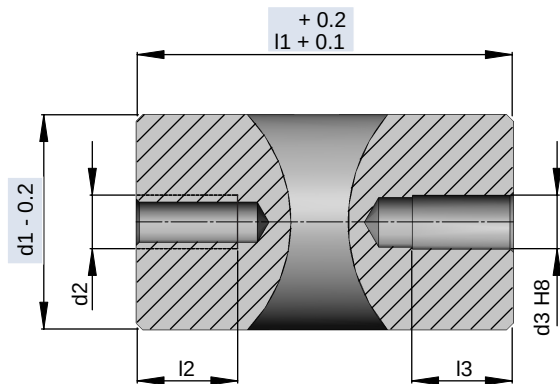
Mat. INOX 1.4034 HRC 48...54

d1	d2	l1	l2	K	S	Z2460 / d1 x l1 / xx
10	8	12	7	1.6	5.6	Z2460 / Ø10 x 12 / 01
						Z2460 / Ø10 x 12 / 02
						Z2460 / Ø10 x 12 / 03
						Z2460 / Ø10 x 12 / 04
						Z2460 / Ø10 x 12 / 05
						Z2460 / Ø10 x 12 / 06
						Z2460 / Ø10 x 12 / 07
12	10	12	7	2.0	6.8	Z2460 / Ø12 x 12 / 01
						Z2460 / Ø12 x 12 / 02
						Z2460 / Ø12 x 12 / 03
						Z2460 / Ø12 x 12 / 04
						Z2460 / Ø12 x 12 / 05
						Z2460 / Ø12 x 12 / 06
						Z2460 / Ø12 x 12 / 07
16	12	16	9	2.6	9.0	Z2460 / Ø16 x 16 / 01
						Z2460 / Ø16 x 16 / 02
						Z2460 / Ø16 x 16 / 03
						Z2460 / Ø16 x 16 / 04
						Z2460 / Ø16 x 16 / 05
						Z2460 / Ø16 x 16 / 06
						Z2460 / Ø16 x 16 / 07
20	16	16	9	3.2	11.5	Z2460 / Ø20 x 16 / 01
						Z2460 / Ø20 x 16 / 02
						Z2460 / Ø20 x 16 / 03
						Z2460 / Ø20 x 16 / 04
						Z2460 / Ø20 x 16 / 05
						Z2460 / Ø20 x 16 / 06
						Z2460 / Ø20 x 16 / 07

Z2610


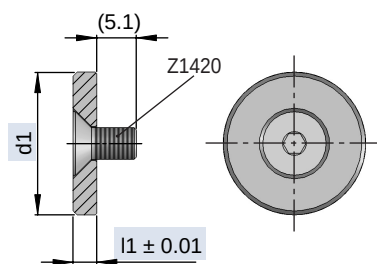
Mat. W.1.2764

d1	d2	d3	l2	l1	Z2610 / d1 x l1 / R
25	15	9	9	46	Z2610 / 25 x 46 / R
				56	Z2610 / 25 x 56 / R
				76	Z2610 / 25 x 76 / R
32	15	9	9	46	Z2610 / 32 x 46 / R
				56	Z2610 / 32 x 56 / R
				76	Z2610 / 32 x 76 / R
40	18	11	11	46	Z2610 / 40 x 46 / R
				56	Z2610 / 40 x 56 / R
				76	Z2610 / 40 x 76 / R
				96	Z2610 / 40 x 96 / R
50	20	14	14	56	Z2610 / 50 x 56 / R
				76	Z2610 / 50 x 76 / R
				96	Z2610 / 50 x 96 / R
				116	Z2610 / 50 x 116 / R
63	20	14	14	56	Z2610 / 63 x 56 / R
				76	Z2610 / 63 x 76 / R
				96	Z2610 / 63 x 96 / R
				116	Z2610 / 63 x 116 / R
				136	Z2610 / 63 x 136 / R
80	26	18	18	76	Z2610 / 80 x 76 / R
				96	Z2610 / 80 x 96 / R
				116	Z2610 / 80 x 116 / R
				136	Z2610 / 80 x 136 / R

Z2620


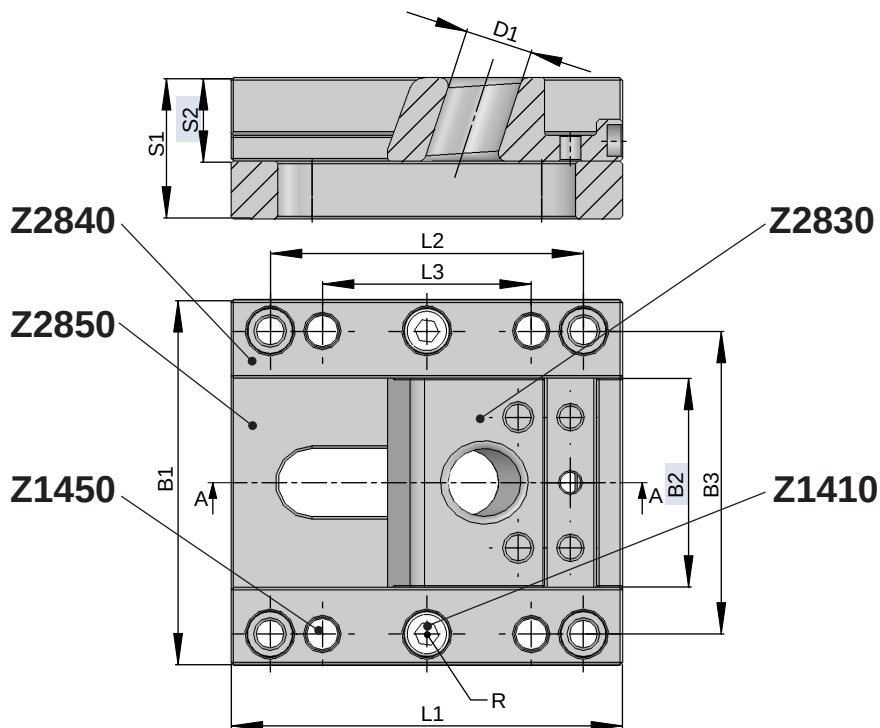
Mat. W.1.2764

d1	d2	d3	l2	l3	l1	Z2620 / d1 x l1
25	M8	8	15	15	46	Z2620 / 25 x 46
					56	Z2620 / 25 x 56
					76	Z2620 / 25 x 76
32	M8	8	15	15	46	Z2620 / 32 x 46
					56	Z2620 / 32 x 56
					76	Z2620 / 32 x 76
40	M8	8	15	15	46	Z2620 / 40 x 46
					56	Z2620 / 40 x 56
					76	Z2620 / 40 x 76
					96	Z2620 / 40 x 96
50	M10	10	18	18	56	Z2620 / 50 x 56
					76	Z2620 / 50 x 76
					96	Z2620 / 50 x 96
					116	Z2620 / 50 x 116
63	M10	10	18	18	56	Z2620 / 63 x 56
					76	Z2620 / 63 x 76
					96	Z2620 / 63 x 96
					116	Z2620 / 63 x 116
					136	Z2620 / 63 x 136
80	M12	12	20	20	76	Z2620 / 80 x 76
					96	Z2620 / 80 x 96
					116	Z2620 / 80 x 116
					136	Z2620 / 80 x 136

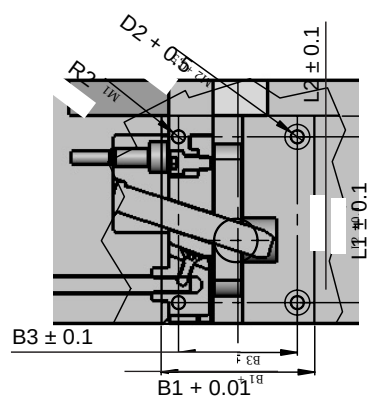
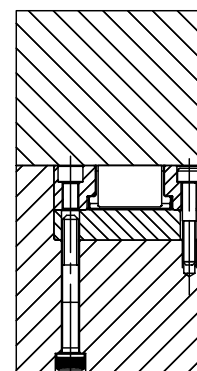
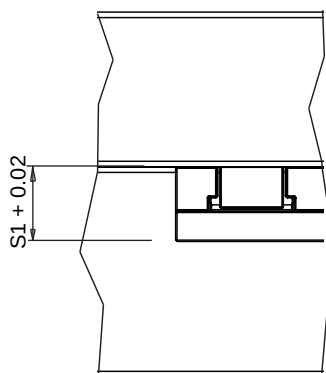
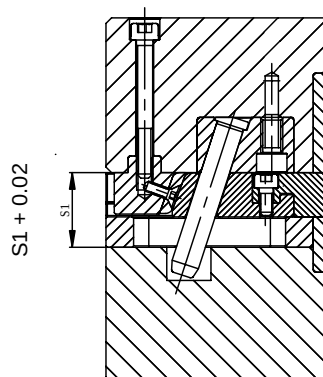
Z2630


Mat. 16 Cr Ni 4

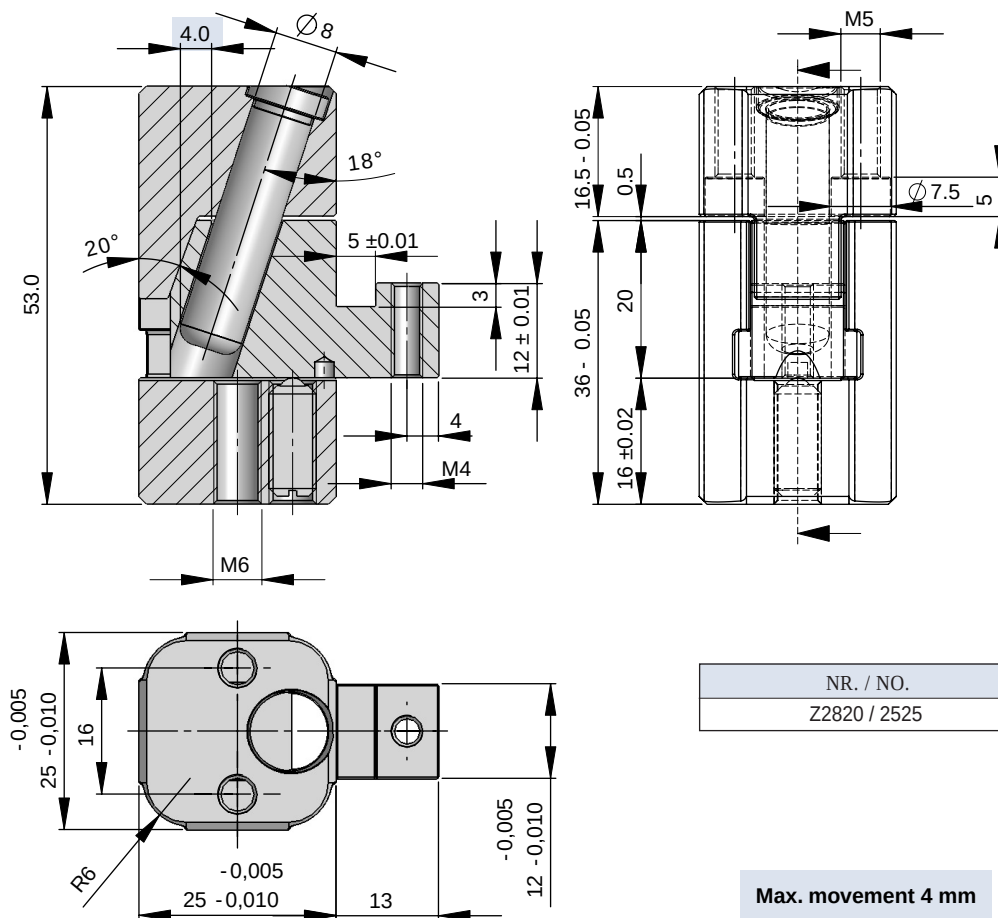
d1	l1	Z1420	Z2630 / d1 x l1
18	3	M4 x 8	Z2630 / Ø18 x 3
28	3	M4 x 8	Z2630 / Ø28 x 3



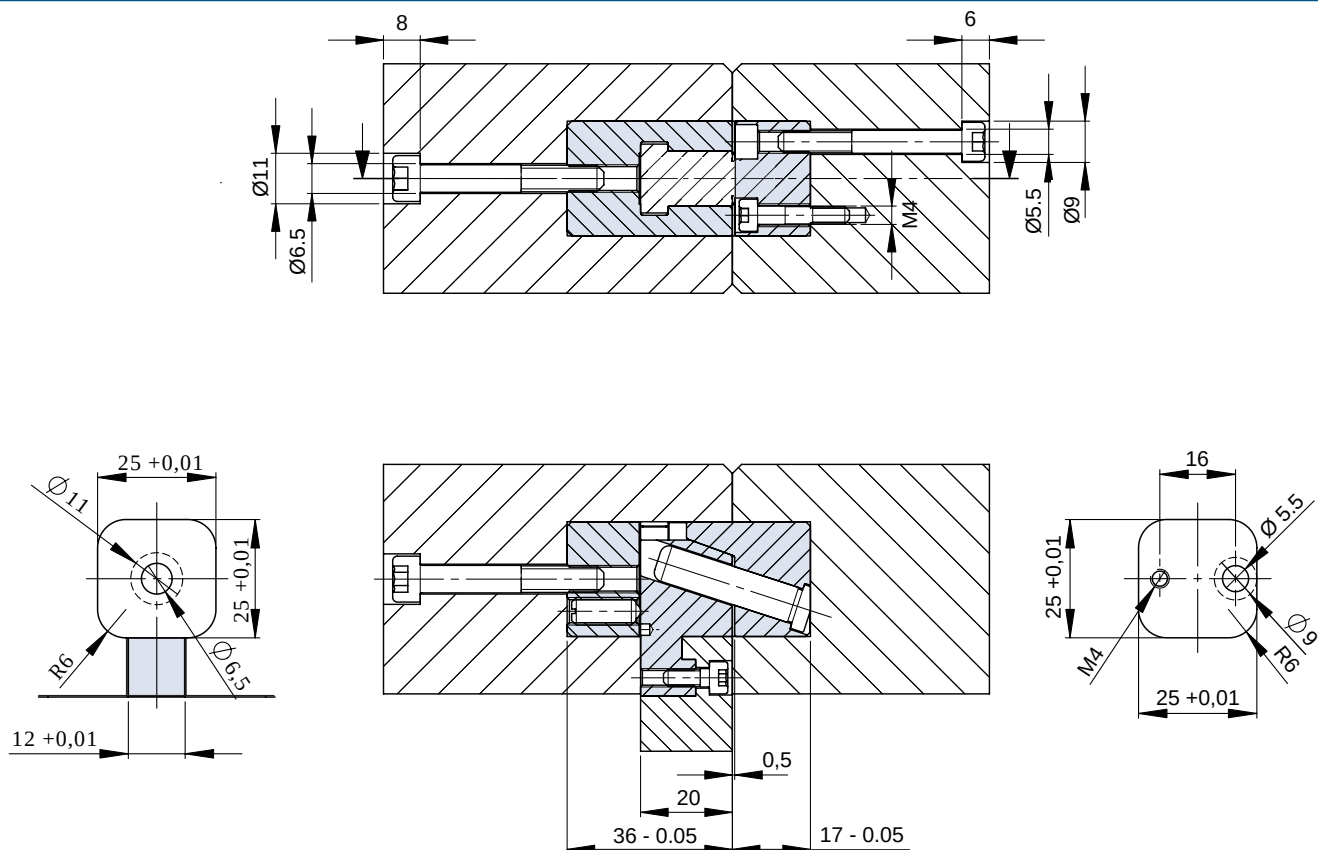
$$Z2810 = Z2830 (x1) + Z2840 (x2) + Z2850 (x1) + Z1450 (x4) + Z1410 (x2)$$

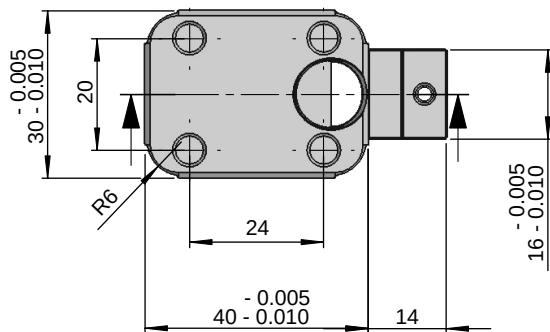
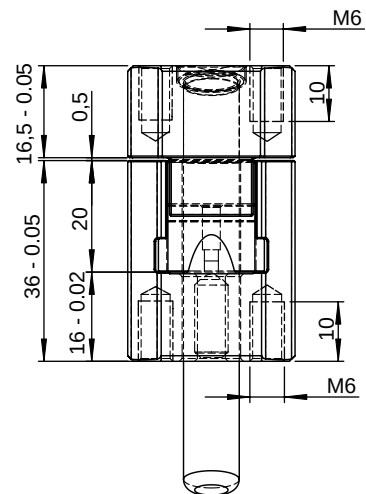
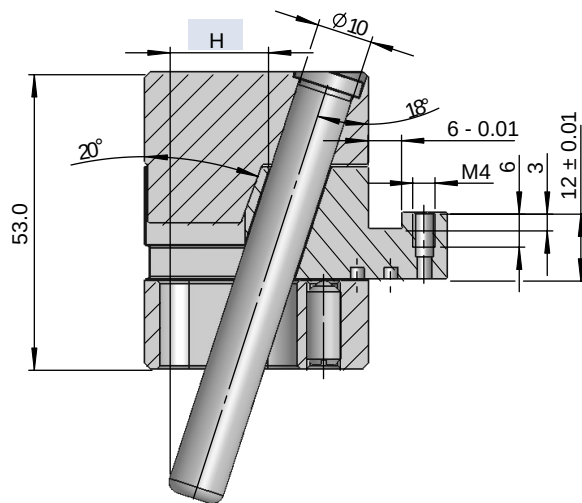


S1	S2	D1	L1	L2	L3	B1	B2	B3	R	D2	R2	Z2810 / S2B2
27	16	10.5	75	60	40	55	25	43	M6	6	M5	Z2810 / 1625
27	16	13	75	60	40	60	30	48	M6	6	M5	Z2810 / 1630
27	16	13	75	60	40	70	40	58	M6	6	M5	Z2810 / 1640
27	16	13	75	60	40	80	50	68	M6	6	M5	Z2810 / 1650
27	16	13	75	60	40	90	60	78	M6	6	M5	Z2810 / 1660
42	30	15	100	76	52	76	40	62	M8	8	M6	Z2810 / 3040
42	30	15	100	76	52	86	50	72	M8	8	M6	Z2810 / 3050
42	30	17	120	96	72	96	60	82	M8	8	M6	Z2810 / 3060
42	30	19	140	116	92	116	80	102	M8	8	M6	Z2810 / 3080
42	30	19	140	116	92	136	100	122	M8	8	M6	Z2810 / 30100



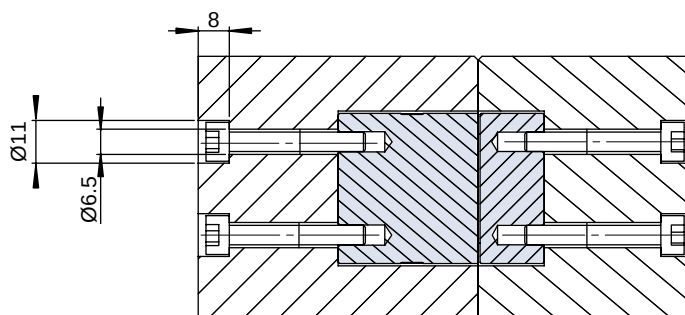
HRC 53...58



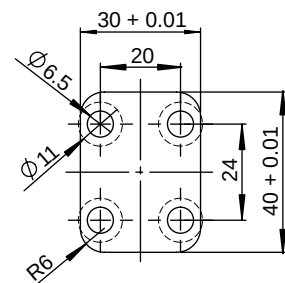
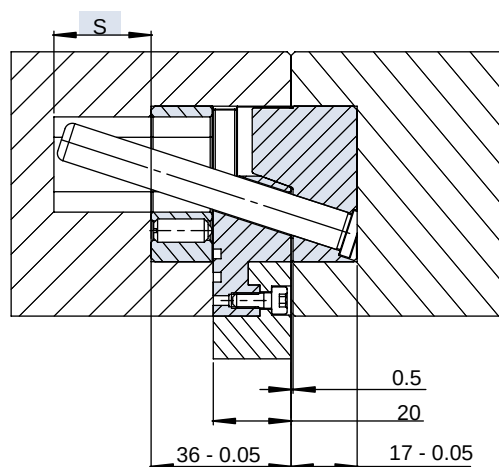
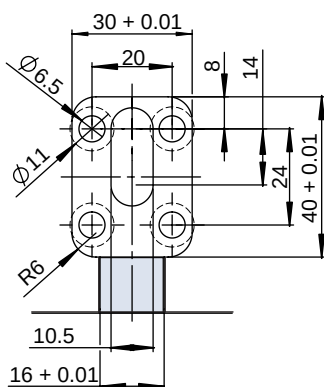


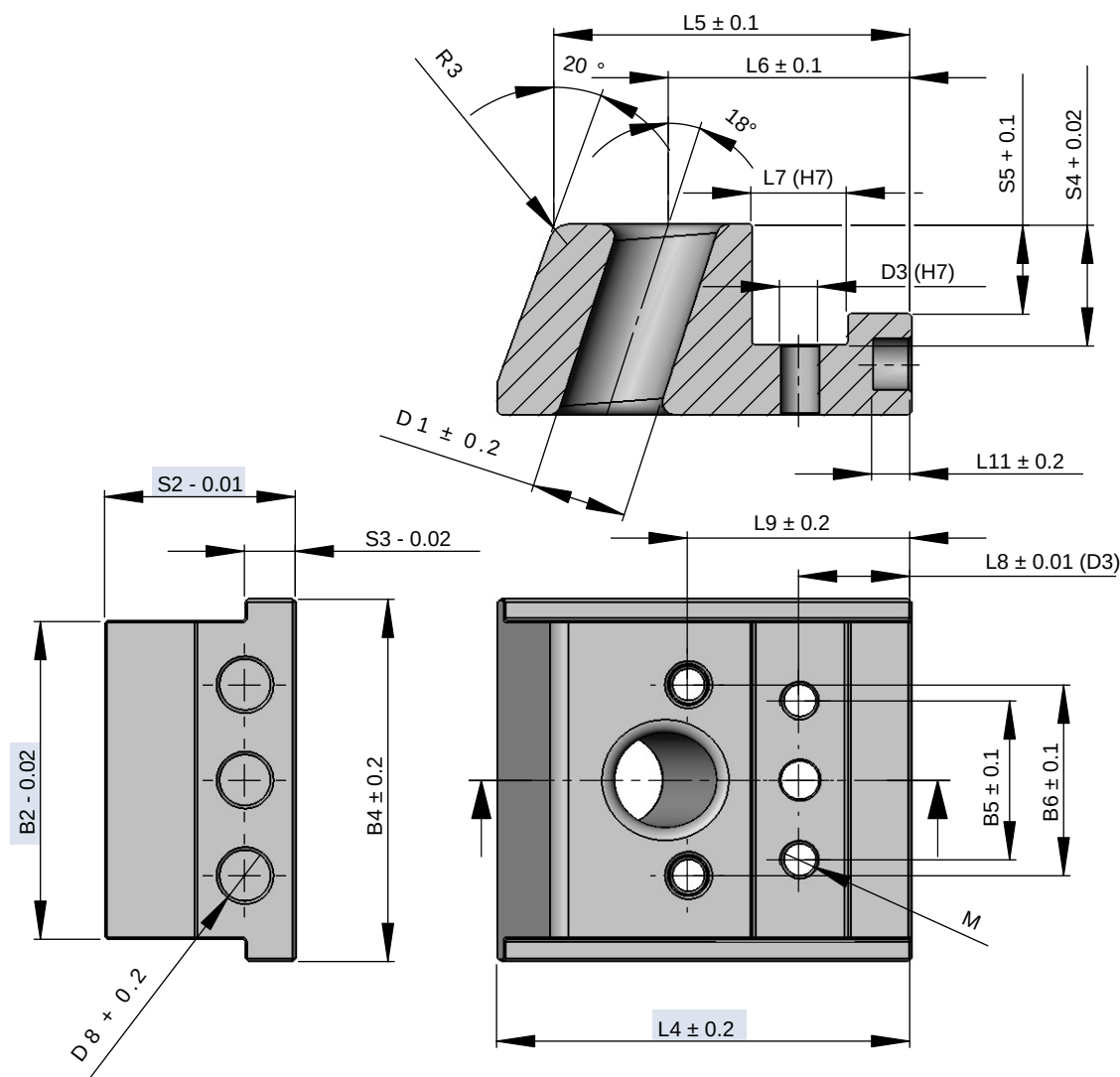
Max. movement H	Z2820 / 3040 / H
6 mm	Z2820 / 3040 / 06
12 mm	Z2820 / 3040 / 12
18 mm	Z2820 / 3040 / 18

HRC 53...58



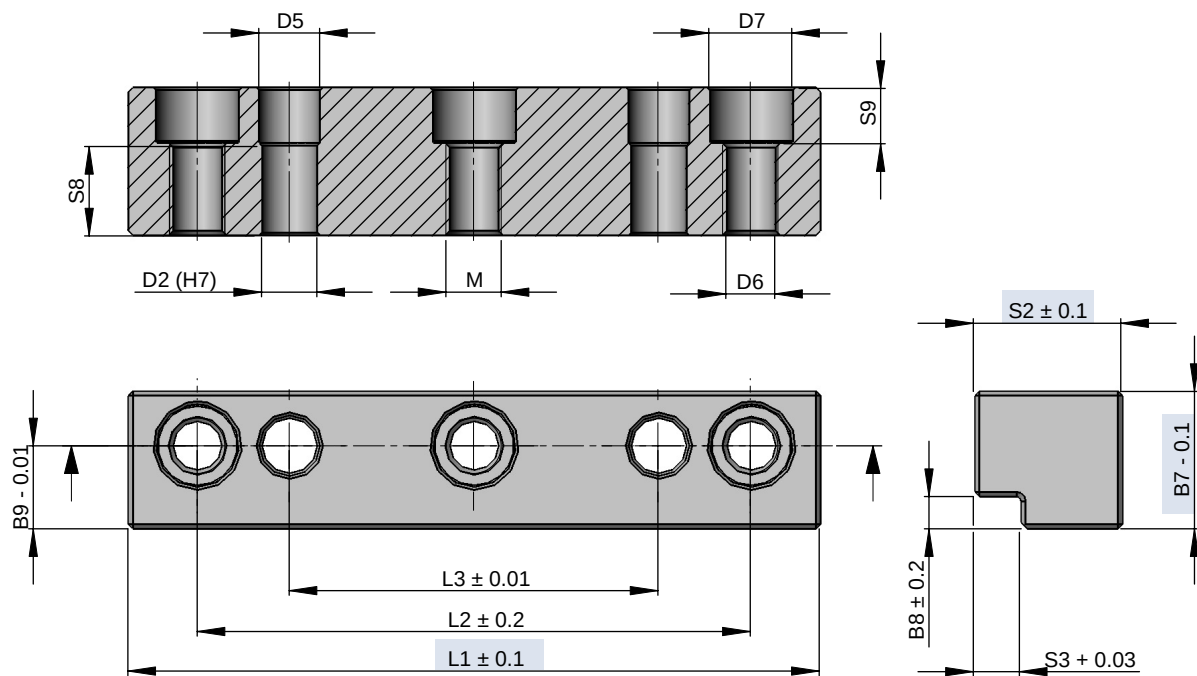
S	Z2820 / 3040 / H
0 mm	Z2820 / 3040 / 06
7 mm	Z2820 / 3040 / 12
25 mm	Z2820 / 3040 / 18





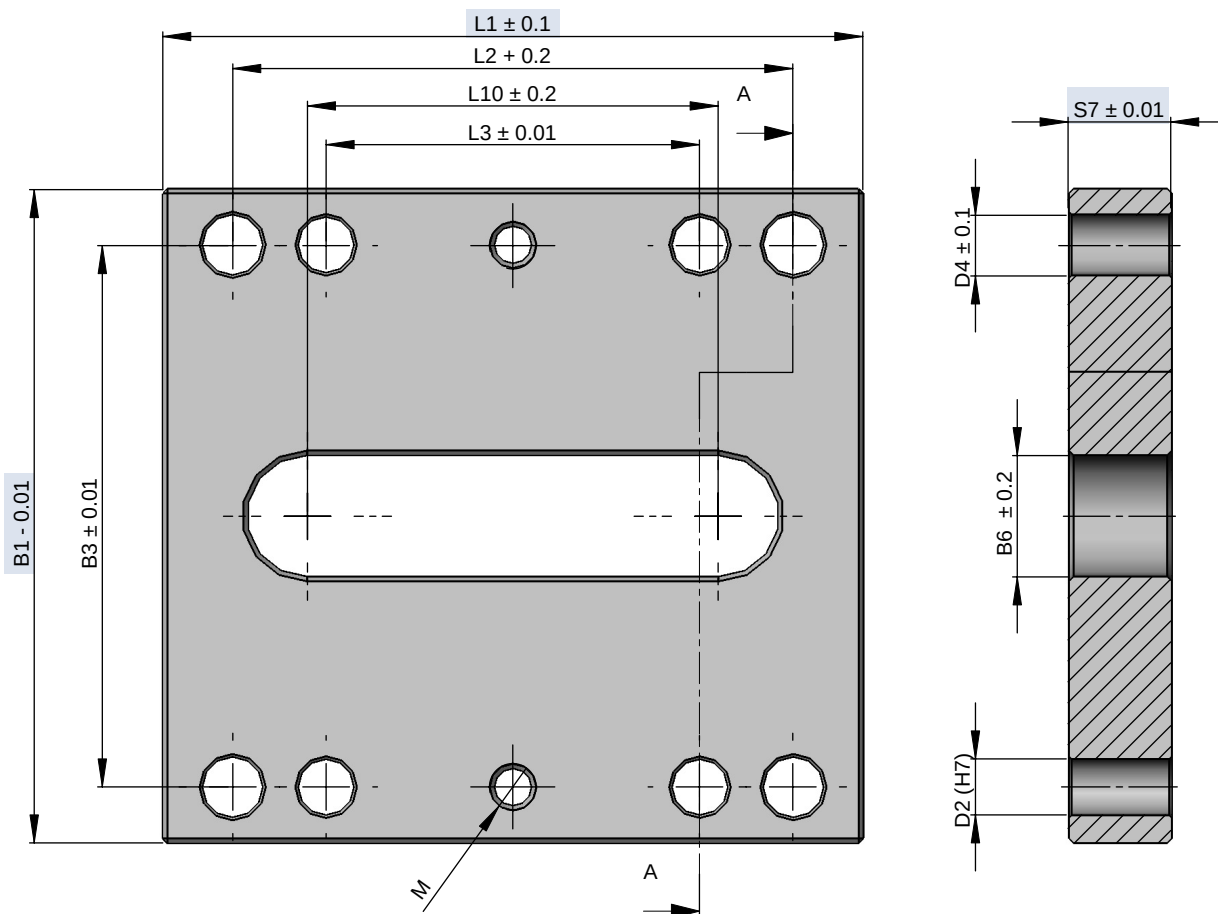
HRC 52+2

D1	S2	B2	L4	S3	B4	L5	L6	S4	S5	L7	L8	D3	B5	L9	B6	M	L11	S10	D8	Z2830 / S2B2 / S2 x B2 x L4
10.5	16	25	40	5	31	35	24	11	8	10	10	4	15	19	17	M5	3	4	6	Z2830 / 1625 / 16 x 25 x 40
13	16	30	45	5	36	40	26	11	8	10	10	4	18	20	20	M5	3	4	6	Z2830 / 1630 / 16 x 30 x 45
13	16	40	45	5	46	40	26	11	8	10	10	4	25	20	25	M5	3	4	6	Z2830 / 1640 / 16 x 40 x 45
13	16	50	45	5	56	40	26	11	8	10	10	4	30	20	30	M5	3	4	6	Z2830 / 1650 / 16 x 50 x 45
13	16	60	45	5	66	40	26	11	8	10	10	4	40	20	40	M5	3	4	6	Z2830 / 1660 / 16 x 60 x 45
15	30	40	65	8	47	56	38	19	14	15	17.5	6	25	35	25	M6	6	8	8	Z2830 / 3040 / 30 x 40 x 65
15	30	50	65	8	57	56	38	19	14	15	17.5	6	30	35	30	M6	6	8	8	Z2830 / 3050 / 30 x 50 x 65
17	30	60	85	8	67	76	58	19	14	20	25	6	30	45	30	M6	10	8	8	Z2830 / 3060 / 30 x 60 x 65
19	30	80	85	8	87	76	58	19	14	20	25	6	50	45	50	M6	10	8	8	Z2830 / 3080 / 30 x 80 x 85
19	30	100	85	8	107	76	58	19	14	20	25	6	70	45	70	M6	10	8	8	Z2830 / 30100 / 30 x 100 x 85



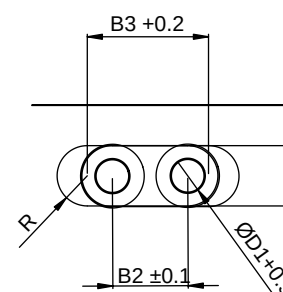
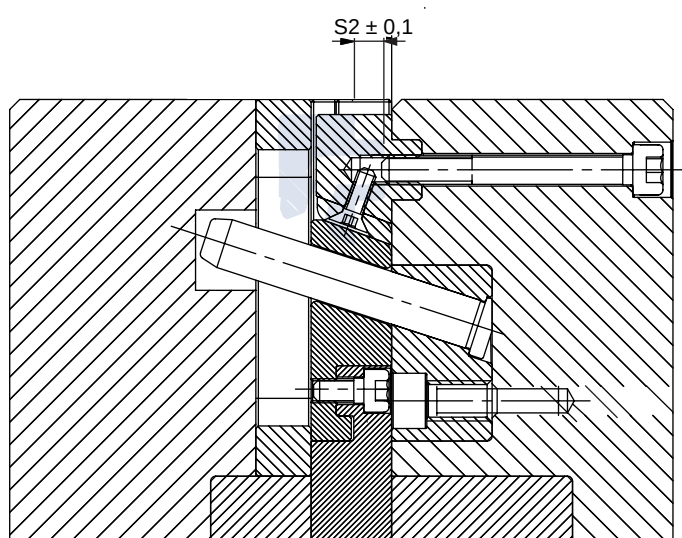
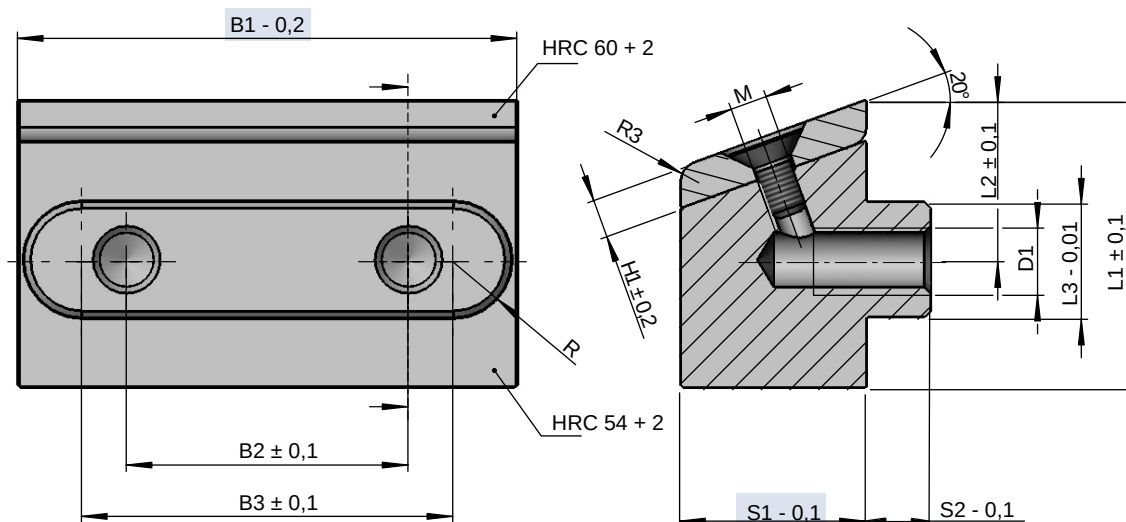
HRC 58+2

S2	B7	L1	B8	S3	B9	L2	L3	D2	D5	S8	D6	D7	S9	M	Z2840 / S2 x B7 x L1
16	14.9	75	3.5	5	9	60	40	6	6.5	10	5.3	9	6	M6	Z2840 / 16 x 14.9 x 75
30	17.9	100	4.2	8	11	76	52	6	6.5	10	6.4	11	8	M8	Z2840 / 30 x 17.9 x 100
30	17.9	120	4.2	8	11	96	72	6	6.5	10	6.4	11	8	M8	Z2840 / 30 x 17.9 x 120
30	17.9	140	4.2	8	11	116	92	6	6.5	10	6.4	11	8	M8	Z2840 / 30 x 17.9 x 140



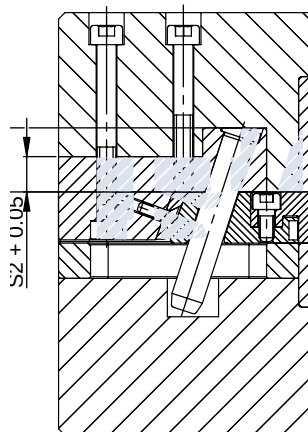
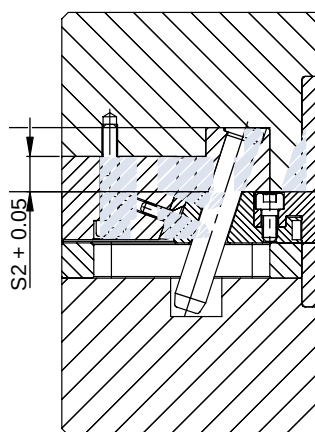
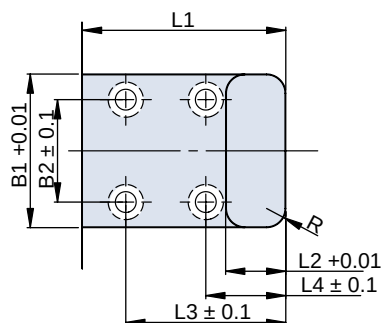
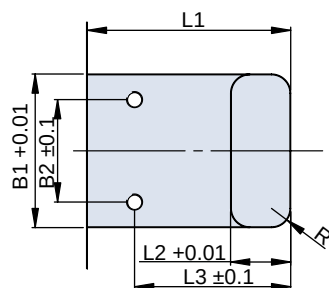
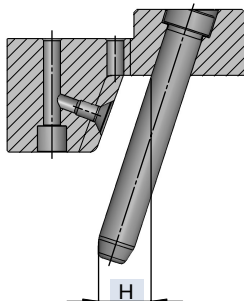
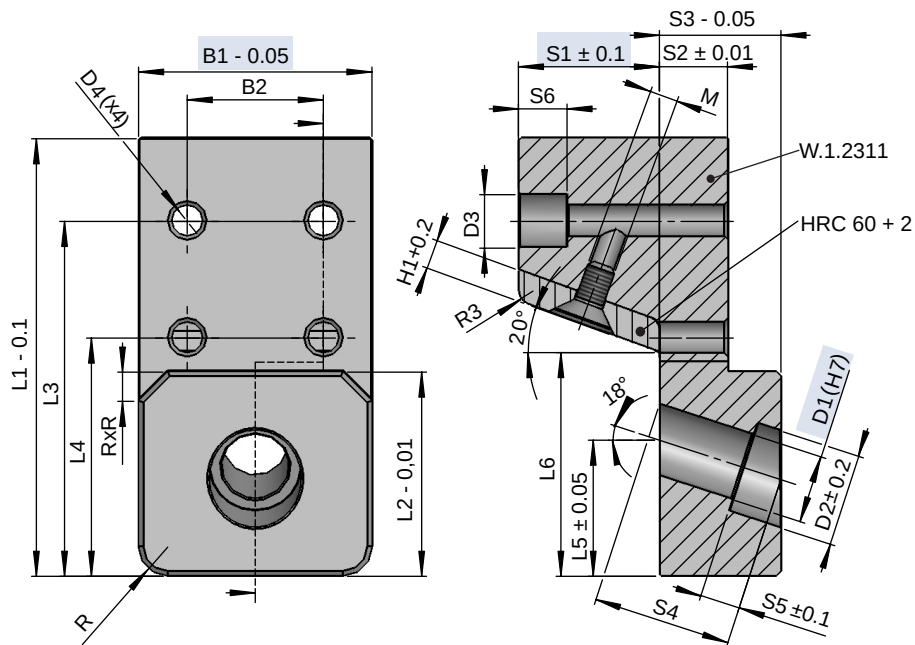
HRC 58+2

B1	L1	S7	B3	L2	D4	B6	L10	L3	D2	M	Z2850 / xxxx / B1 x L1 x S7
55	75	11	43	60	6.5	11	44	40	6	M5	Z2850 / 1625 / 55 x 75 x 11
60	75	11	48	60	6.5	13	44	40	6	M5	Z2850 / 1630 / 60 x 75 x 11
70	75	11	58	60	6.5	13	44	40	6	M5	Z2850 / 1640 / 70 x 75 x 11
80	75	11	68	60	6.5	13	44	40	6	M5	Z2850 / 1650 / 80 x 75 x 11
90	75	11	78	60	6.5	13	44	40	6	M5	Z2850 / 1660 / 90 x 75 x 11
76	100	12	62	76	8.5	15	60	52	6	M6	Z2850 / 3040 / 76 x 100 x 12
86	100	12	72	76	8.5	15	60	52	6	M6	Z2850 / 3050 / 86 x 100 x 12
96	120	12	82	96	8.5	17	80	72	6	M6	Z2850 / 3060 / 96 x 120 x 12
116	140	12	102	116	8.5	19	100	92	6	M6	Z2850 / 3080 / 116 x 140 x 12
136	140	12	122	116	8.5	19	100	92	6	M6	Z2850 / 30100 / 136 x 140 x 12



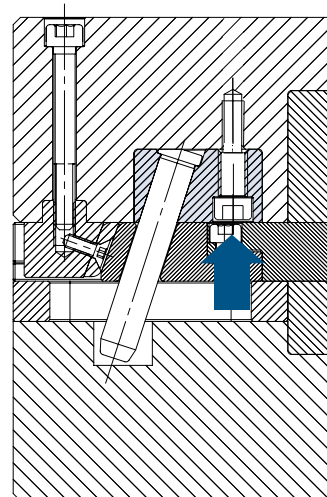
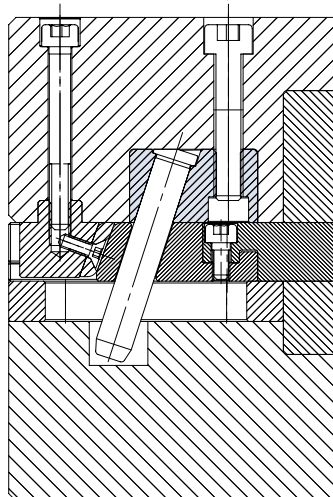
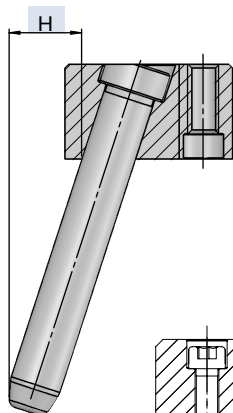
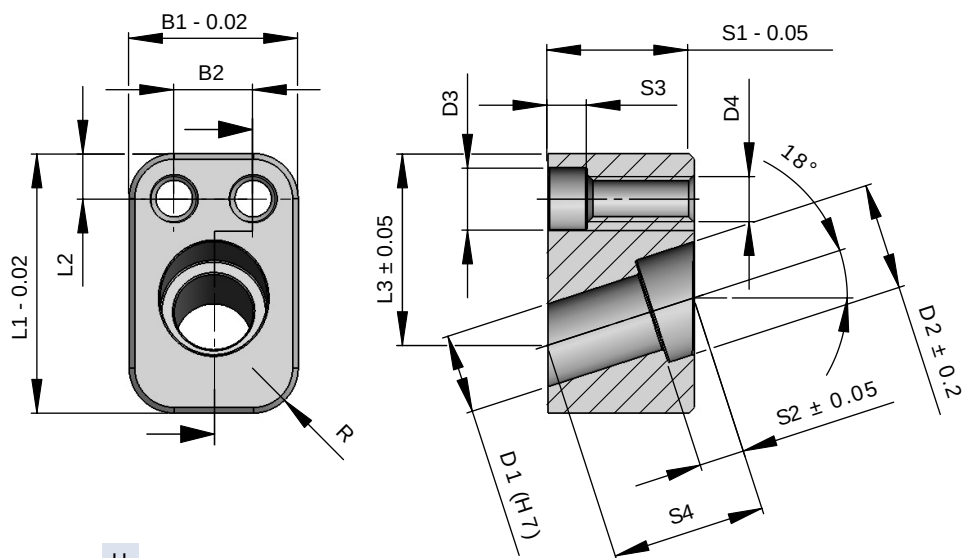
HRC 54 + 2 / HRC 60 + 2

S2	L1	L2	L3	D1	H1	M	S1	B1	B2	B3	Z2860 / xxxx / S1 x B1
6	26	15	12	M6	4	M4	15	23	-	9	Z2860 / 1625 / 15 x 23
								28	14	14	Z2860 / 1630 / 15 x 28
								38	22	22	Z2860 / 1640 / 15 x 38
								48	32	32	Z2860 / 1650 / 15 x 48
								58	42	42	Z2860 / 1660 / 15 x 58
10	45	25	18	M10	6	M6	29	38	18	18	Z2860 / 3040 / 29 x 38
								48	28	28	Z2860 / 3050 / 29 x 48
								58	38	38	Z2860 / 3060 / 29 x 58
								78	44	44	Z2860 / 3080 / 29 x 78
								98	54	54	Z2860 / 30100 / 29 x 98



Z1040	H
Z1040 / 10 x 40	4
Z1040 / 10 x 60	10
Z1040 / 10 x 80	16
Z1040 / 10 x 120	28
Z1040 / 12 x 60	9
Z1040 / 12 x 80	15
Z1040 / 12 x 100	21
Z1040 / 12 x 160	40
Z1040 / 14 x 80	13
Z1040 / 14 x 100	19
Z1040 / 14 x 120	26
Z1040 / 14 x 180	44
Z1040 / 16 x 80	13
Z1040 / 16 x 100	19
Z1040 / 16 x 160	38
Z1040 / 16 x 200	50
Z1040 / 18 x 80	13
Z1040 / 18 x 120	25
Z1040 / 18 x 160	38
Z1040 / 18 x 240	63

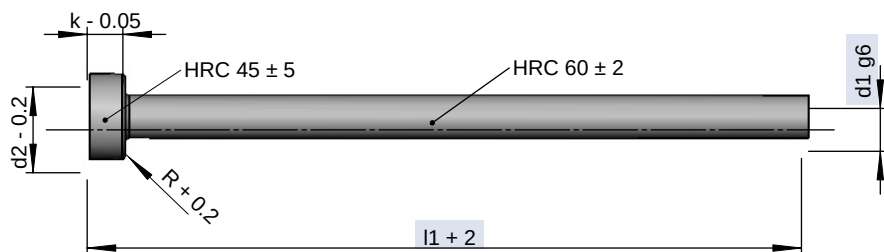
R	S1	S2	S3	M	H1	S5	L1	L2	L3	L4	L5	L6	S6	D3	D4	S4	D1	D2	B1	B2	Z2870 / xxxx / S1 x B1 / D1
5	15	11	20	M4	4	3	65	20	50	26	14	25	6	10	M6	22.7	10	12.5	23	-	Z2870 / 1625 / 15 x 23 / Ø10
6						6	70	30	57	36	21	35				23.0	12	17	28	14	Z2870 / 1630 / 15 x 28 / Ø12
																			38	22	Z2870 / 1640 / 15 x 38 / Ø12
																			48	32	Z2870 / 1650 / 15 x 48 / Ø12
																			58	42	Z2870 / 1660 / 15 x 58 / Ø12
	29	14	25	M6	6	8	90	42	73	49	28	46	10	11	M8	28.6	14	19	38	18	Z2870 / 3040 / 29 x 38 / Ø14
																			48	28	Z2870 / 3050 / 29 x 48 / Ø14
8													12	15	M10	28.9	16	21	58	38	Z2870 / 3060 / 29 x 58 / Ø16
																29.2	18	23	78	44	Z2870 / 3080 / 29 x 78 / Ø18
																			98	54	Z2870 / 30100 / 29 x 98 / Ø18



Z1040	H
Z1040 / 10 x 40	4
Z1040 / 10 x 60	10
Z1040 / 10 x 80	16
Z1040 / 10 x 120	28
Z1040 / 12 x 60	8
Z1040 / 12 x 80	14
Z1040 / 12 x 100	21
Z1040 / 12 x 160	39
Z1040 / 14 x 80	13
Z1040 / 14 x 100	19
Z1040 / 14 x 120	25
Z1040 / 14 x 180	44
Z1040 / 16 x 80	12
Z1040 / 16 x 100	18
Z1040 / 16 x 160	36
Z1040 / 16 x 200	49
Z1040 / 18 x 80	11
Z1040 / 18 x 120	23
Z1040 / 18 x 160	36
Z1040 / 18 x 240	60
Z1040 / 20 x 80	9
Z1040 / 20 x 120	22
Z1040 / 20 x 160	34
Z1040 / 20 x 240	59
Z1040 / 22 x 100	14
Z1040 / 22 x 160	32
Z1040 / 22 x 200	44
Z1040 / 22 x 300	75
Z1040 / 24 x 100	12
Z1040 / 24 x 160	31
Z1040 / 24 x 200	43
Z1040 / 24 x 300	74
Z1040 / 14 x 80	16
Z1040 / 14 x 80	28
Z1040 / 14 x 80	41
Z1040 / 14 x 80	72

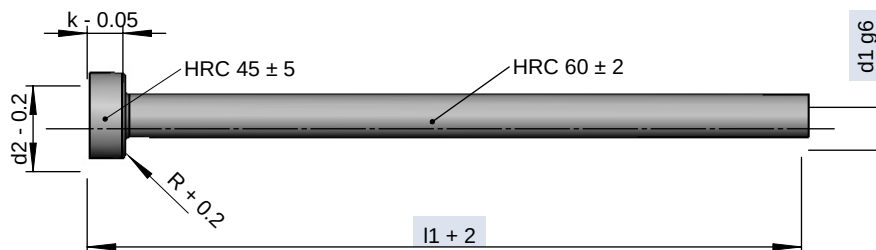
Mat. W 1.2311

D1	D2	D3	D4	L1	L2	L3	S1	S2	S3	S4	B1	B2	R	S1	Z2880 / B1 x L1 / D1
10	12.5	11	M8	30	8	24	20	3	7	22.7	30	14	8	20	Z2880 / 30 x 30 / Ø10
12	16.5			34		26	22	6		25.1				22	Z2880 / 30 x 34 / Ø12
14	19.0			38		29	26	8		29.6				26	Z2880 / 30 x 38 / Ø12
16	21.0			42		32	30			34.1				30	Z2880 / 30 x 42 / Ø12
18	23.0			46		34	32			36.6				32	Z2880 / 30 x 46 / Ø12
20	25.0	14	M10	50	10	38	36		9	41.1	40	20	10	36	Z2880 / 40 x 50 / Ø14
22	27.0			54		41	42	15		47.7				42	Z2880 / 40 x 54 / Ø14
24	29.0			58		44	46			52.3				46	Z2880 / 40 x 58 / Ø16
30	37.0			68		50	52		11	59.5	45	25		52	Z2880 / 45 x 68 / Ø18



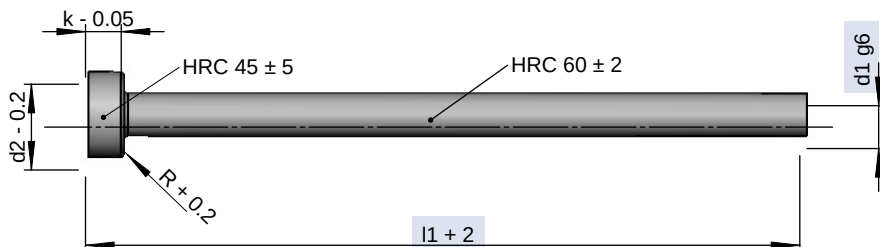
HARDENED
DIN 1530 (AH)
Mat. WS

R	k	d2	d1	l1	Z3010 / d1 x l1 / AH	R	k	d2	d1	l1	Z3010 / d1 x l1 / AH
0,2	1,2	2,5	0,8	040	Z3010 / Ø 0,8 x 040 / AH	0,2	1,5	3,0	1,5	200	Z3010 / Ø 1,5 x 200 / AH
				050	Z3010 / Ø 0,8 x 050 / AH					250	Z3010 / Ø 1,5 x 250 / AH
				063	Z3010 / Ø 0,8 x 063 / AH	0,2	1,5	3,0	1,6	040	Z3010 / Ø 1,6 x 040 / AH
				080	Z3010 / Ø 0,8 x 080 / AH					050	Z3010 / Ø 1,6 x 050 / AH
				100	Z3010 / Ø 0,8 x 100 / AH					063	Z3010 / Ø 1,6 x 063 / AH
				125	Z3010 / Ø 0,8 x 125 / AH					080	Z3010 / Ø 1,6 x 080 / AH
				160	Z3010 / Ø 0,8 x 160 / AH					100	Z3010 / Ø 1,6 x 100 / AH
										125	Z3010 / Ø 1,6 x 125 / AH
0,2	1,2	2,5	0,9	040	Z3010 / Ø 0,9 x 040 / AH	0,2	1,5	3,0	1,7	160	Z3010 / Ø 1,6 x 160 / AH
				050	Z3010 / Ø 0,9 x 050 / AH					200	Z3010 / Ø 1,6 x 200 / AH
				063	Z3010 / Ø 0,9 x 063 / AH					250	Z3010 / Ø 1,6 x 250 / AH
				080	Z3010 / Ø 0,9 x 080 / AH					040	Z3010 / Ø 1,7 x 040 / AH
				100	Z3010 / Ø 0,9 x 100 / AH					050	Z3010 / Ø 1,7 x 050 / AH
				125	Z3010 / Ø 0,9 x 125 / AH					063	Z3010 / Ø 1,7 x 063 / AH
				160	Z3010 / Ø 0,9 x 160 / AH					080	Z3010 / Ø 1,7 x 080 / AH
0,2	1,2	2,5	1,0	040	Z3010 / Ø 1,0 x 040 / AH	0,2	1,5	3,0	1,8	100	Z3010 / Ø 1,7 x 100 / AH
				050	Z3010 / Ø 1,0 x 050 / AH					125	Z3010 / Ø 1,7 x 125 / AH
				063	Z3010 / Ø 1,0 x 063 / AH					160	Z3010 / Ø 1,7 x 160 / AH
				080	Z3010 / Ø 1,0 x 080 / AH					200	Z3010 / Ø 1,7 x 200 / AH
				100	Z3010 / Ø 1,0 x 100 / AH					040	Z3010 / Ø 1,8 x 040 / AH
				125	Z3010 / Ø 1,0 x 125 / AH					050	Z3010 / Ø 1,8 x 050 / AH
				160	Z3010 / Ø 1,0 x 160 / AH					063	Z3010 / Ø 1,8 x 063 / AH
0,2	1,2	2,5	1,1	040	Z3010 / Ø 1,1 x 040 / AH	0,2	1,5	3,0	1,9	080	Z3010 / Ø 1,8 x 080 / AH
				050	Z3010 / Ø 1,1 x 050 / AH					100	Z3010 / Ø 1,8 x 100 / AH
				063	Z3010 / Ø 1,1 x 063 / AH					125	Z3010 / Ø 1,8 x 125 / AH
				080	Z3010 / Ø 1,1 x 080 / AH					160	Z3010 / Ø 1,8 x 160 / AH
				100	Z3010 / Ø 1,1 x 100 / AH					200	Z3010 / Ø 1,8 x 200 / AH
				125	Z3010 / Ø 1,1 x 125 / AH					040	Z3010 / Ø 1,9 x 040 / AH
				160	Z3010 / Ø 1,1 x 160 / AH					050	Z3010 / Ø 1,9 x 050 / AH
0,2	1,2	2,5	1,2	040	Z3010 / Ø 1,2 x 040 / AH	0,2	1,5	3,0	2,0	063	Z3010 / Ø 1,9 x 063 / AH
				050	Z3010 / Ø 1,2 x 050 / AH					080	Z3010 / Ø 1,9 x 080 / AH
				063	Z3010 / Ø 1,2 x 063 / AH					100	Z3010 / Ø 1,9 x 100 / AH
				080	Z3010 / Ø 1,2 x 080 / AH					125	Z3010 / Ø 1,9 x 125 / AH
				100	Z3010 / Ø 1,2 x 100 / AH					160	Z3010 / Ø 1,9 x 160 / AH
				125	Z3010 / Ø 1,2 x 125 / AH					200	Z3010 / Ø 1,9 x 200 / AH
				160	Z3010 / Ø 1,2 x 160 / AH	0,2	2,0	4,0	2,1	040	Z3010 / Ø 2,0 x 040 / AH
0,2	1,5	3,0	1,3	200	Z3010 / Ø 1,2 x 200 / AH					050	Z3010 / Ø 2,0 x 050 / AH
				040	Z3010 / Ø 1,3 x 040 / AH					063	Z3010 / Ø 2,0 x 063 / AH
				050	Z3010 / Ø 1,3 x 050 / AH					080	Z3010 / Ø 2,0 x 080 / AH
				063	Z3010 / Ø 1,3 x 063 / AH					100	Z3010 / Ø 2,0 x 100 / AH
				080	Z3010 / Ø 1,3 x 080 / AH					125	Z3010 / Ø 2,0 x 125 / AH
				100	Z3010 / Ø 1,3 x 100 / AH					160	Z3010 / Ø 2,0 x 160 / AH
0,2	1,5	3,0	1,4	125	Z3010 / Ø 1,3 x 125 / AH					200	Z3010 / Ø 2,0 x 200 / AH
				160	Z3010 / Ø 1,3 x 160 / AH					250	Z3010 / Ø 2,0 x 250 / AH
				200	Z3010 / Ø 1,3 x 200 / AH					315	Z3010 / Ø 2,0 x 315 / AH
				040	Z3010 / Ø 1,4 x 040 / AH	0,2	2,0	4,0	2,2	080	Z3010 / Ø 2,1 x 080 / AH
				050	Z3010 / Ø 1,4 x 050 / AH					100	Z3010 / Ø 2,1 x 100 / AH
				063	Z3010 / Ø 1,4 x 063 / AH					125	Z3010 / Ø 2,1 x 125 / AH
				080	Z3010 / Ø 1,4 x 080 / AH					160	Z3010 / Ø 2,1 x 160 / AH
0,2	1,5	3,0	1,5	100	Z3010 / Ø 1,4 x 100 / AH					200	Z3010 / Ø 2,1 x 200 / AH
				125	Z3010 / Ø 1,4 x 125 / AH					250	Z3010 / Ø 2,1 x 250 / AH
				160	Z3010 / Ø 1,4 x 160 / AH	0,2	2,0	4,0	2,3	080	Z3010 / Ø 2,2 x 080 / AH
				200	Z3010 / Ø 1,4 x 200 / AH					100	Z3010 / Ø 2,2 x 100 / AH
				040	Z3010 / Ø 1,5 x 040 / AH					125	Z3010 / Ø 2,2 x 125 / AH
				050	Z3010 / Ø 1,5 x 050 / AH					160	Z3010 / Ø 2,2 x 160 / AH
				063	Z3010 / Ø 1,5 x 063 / AH					200	Z3010 / Ø 2,2 x 200 / AH
				080	Z3010 / Ø 1,5 x 080 / AH					250	Z3010 / Ø 2,2 x 250 / AH
				100	Z3010 / Ø 1,5 x 100 / AH	0,2	2,0	4,0	2,3	080	Z3010 / Ø 2,3 x 080 / AH
0,2	1,5	3,0	1,5	125	Z3010 / Ø 1,5 x 125 / AH					100	Z3010 / Ø 2,3 x 100 / AH
				160	Z3010 / Ø 1,5 x 160 / AH					125	Z3010 / Ø 2,3 x 125 / AH
										160	Z3010 / Ø 2,3 x 160 / AH



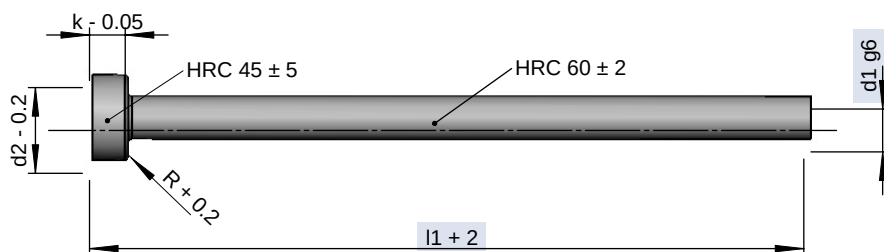
**HARDENED
DIN 1530 (AH)
Mat. WS**

R	k	d2	d1	l1	Z3010 / d1 x l1 / AH	R	k	d2	d1	l1	Z3010 / d1 x l1 / AH
0,2	2,0	4,0	2,3	200	Z3010 / Ø 2,3 x 200 / AH	0,3	3,0	7,0	3,5	125	Z3010 / Ø 3,5 x 125 / AH
				250	Z3010 / Ø 2,3 x 250 / AH					160	Z3010 / Ø 3,5 x 160 / AH
0,2	2,0	4,0	2,4	080	Z3010 / Ø 2,4 x 080 / AH					200	Z3010 / Ø 3,5 x 200 / AH
				100	Z3010 / Ø 2,4 x 100 / AH					250	Z3010 / Ø 3,5 x 250 / AH
				125	Z3010 / Ø 2,4 x 125 / AH					315	Z3010 / Ø 3,5 x 315 / AH
				160	Z3010 / Ø 2,4 x 160 / AH	0,3	3,0	7,0	3,6	100	Z3010 / Ø 3,6 x 100 / AH
				200	Z3010 / Ø 2,4 x 200 / AH					125	Z3010 / Ø 3,6 x 125 / AH
0,3	2,0	5,0	2,5	080	Z3010 / Ø 2,5 x 080 / AH					160	Z3010 / Ø 3,6 x 160 / AH
				100	Z3010 / Ø 2,5 x 100 / AH					200	Z3010 / Ø 3,6 x 200 / AH
				125	Z3010 / Ø 2,5 x 125 / AH	0,3	3,0	7,0	3,7	080	Z3010 / Ø 3,7 x 080 / AH
				160	Z3010 / Ø 2,5 x 160 / AH					100	Z3010 / Ø 3,7 x 100 / AH
				200	Z3010 / Ø 2,5 x 200 / AH					125	Z3010 / Ø 3,7 x 125 / AH
				250	Z3010 / Ø 2,5 x 250 / AH					160	Z3010 / Ø 3,7 x 160 / AH
				315	Z3010 / Ø 2,5 x 315 / AH					200	Z3010 / Ø 3,7 x 200 / AH
0,3	2,0	5,0	2,6	100	Z3010 / Ø 2,6 x 100 / AH					250	Z3010 / Ø 3,7 x 250 / AH
				125	Z3010 / Ø 2,6 x 125 / AH	0,3	3,0	7,0	3,8	100	Z3010 / Ø 3,8 x 100 / AH
				160	Z3010 / Ø 2,6 x 160 / AH					125	Z3010 / Ø 3,8 x 125 / AH
0,3	2,0	5,0	2,7	080	Z3010 / Ø 2,7 x 080 / AH					160	Z3010 / Ø 3,8 x 160 / AH
				100	Z3010 / Ø 2,7 x 100 / AH					200	Z3010 / Ø 3,8 x 200 / AH
				125	Z3010 / Ø 2,7 x 125 / AH	0,3	3,0	8,0	4,0	040	Z3010 / Ø 4,0 x 040 / AH
				160	Z3010 / Ø 2,7 x 160 / AH					050	Z3010 / Ø 4,0 x 050 / AH
				200	Z3010 / Ø 2,7 x 200 / AH					063	Z3010 / Ø 4,0 x 063 / AH
				250	Z3010 / Ø 2,7 x 250 / AH					080	Z3010 / Ø 4,0 x 080 / AH
0,3	2,0	5,0	2,8	100	Z3010 / Ø 2,8 x 100 / AH					100	Z3010 / Ø 4,0 x 100 / AH
				125	Z3010 / Ø 2,8 x 125 / AH					125	Z3010 / Ø 4,0 x 125 / AH
				160	Z3010 / Ø 2,8 x 160 / AH					160	Z3010 / Ø 4,0 x 160 / AH
				200	Z3010 / Ø 2,8 x 200 / AH					200	Z3010 / Ø 4,0 x 200 / AH
0,3	2,0	5,0	2,9	100	Z3010 / Ø 2,9 x 100 / AH					250	Z3010 / Ø 4,0 x 250 / AH
				125	Z3010 / Ø 2,9 x 125 / AH					315	Z3010 / Ø 4,0 x 315 / AH
				160	Z3010 / Ø 2,9 x 160 / AH					400	Z3010 / Ø 4,0 x 400 / AH
0,3	3,0	6,0	3,0	040	Z3010 / Ø 3,0 x 040 / AH	0,3	3,0	8,0	4,1	100	Z3010 / Ø 4,1 x 100 / AH
				063	Z3010 / Ø 3,0 x 063 / AH					125	Z3010 / Ø 4,1 x 125 / AH
				080	Z3010 / Ø 3,0 x 080 / AH					160	Z3010 / Ø 4,1 x 160 / AH
				100	Z3010 / Ø 3,0 x 100 / AH	0,3	3,0	8,0	4,2	080	Z3010 / Ø 4,2 x 080 / AH
				125	Z3010 / Ø 3,0 x 125 / AH					100	Z3010 / Ø 4,2 x 100 / AH
				160	Z3010 / Ø 3,0 x 160 / AH					125	Z3010 / Ø 4,2 x 125 / AH
				200	Z3010 / Ø 3,0 x 200 / AH					160	Z3010 / Ø 4,2 x 160 / AH
				250	Z3010 / Ø 3,0 x 250 / AH					200	Z3010 / Ø 4,2 x 200 / AH
				315	Z3010 / Ø 3,0 x 315 / AH					250	Z3010 / Ø 4,2 x 250 / AH
				400	Z3010 / Ø 3,0 x 400 / AH					315	Z3010 / Ø 4,2 x 315 / AH
0,3	3,0	6,0	3,1	125	Z3010 / Ø 3,1 x 125 / AH					400	Z3010 / Ø 4,2 x 400 / AH
				160	Z3010 / Ø 3,1 x 160 / AH	0,3	3,0	8,0	4,3	100	Z3010 / Ø 4,3 x 100 / AH
				200	Z3010 / Ø 3,1 x 200 / AH					125	Z3010 / Ø 4,3 x 125 / AH
				250	Z3010 / Ø 3,1 x 250 / AH					160	Z3010 / Ø 4,3 x 160 / AH
0,3	3,0	6,0	3,2	080	Z3010 / Ø 3,2 x 080 / AH					100	Z3010 / Ø 4,4 x 100 / AH
				100	Z3010 / Ø 3,2 x 100 / AH					125	Z3010 / Ø 4,4 x 125 / AH
				125	Z3010 / Ø 3,2 x 125 / AH					160	Z3010 / Ø 4,4 x 160 / AH
				160	Z3010 / Ø 3,2 x 160 / AH	0,3	3,0	8,0	4,5	080	Z3010 / Ø 4,5 x 080 / AH
				200	Z3010 / Ø 3,2 x 200 / AH					100	Z3010 / Ø 4,5 x 100 / AH
				250	Z3010 / Ø 3,2 x 250 / AH					125	Z3010 / Ø 4,5 x 125 / AH
				315	Z3010 / Ø 3,2 x 315 / AH					160	Z3010 / Ø 4,5 x 160 / AH
0,3	3,0	6,0	3,3	100	Z3010 / Ø 3,3 x 100 / AH					200	Z3010 / Ø 4,5 x 200 / AH
				125	Z3010 / Ø 3,3 x 125 / AH					250	Z3010 / Ø 4,5 x 250 / AH
				160	Z3010 / Ø 3,3 x 160 / AH					315	Z3010 / Ø 4,5 x 315 / AH
				200	Z3010 / Ø 3,3 x 200 / AH	0,3	3,0	8,0	4,6	100	Z3010 / Ø 4,6 x 100 / AH
0,3	3,0	6,0	3,4	100	Z3010 / Ø 3,4 x 100 / AH					125	Z3010 / Ø 4,6 x 125 / AH
				125	Z3010 / Ø 3,4 x 125 / AH					160	Z3010 / Ø 4,6 x 160 / AH
				160	Z3010 / Ø 3,4 x 160 / AH	0,3	3,0	8,0	4,7	100	Z3010 / Ø 4,7 x 100 / AH
				200	Z3010 / Ø 3,4 x 200 / AH					125	Z3010 / Ø 4,7 x 125 / AH
0,3	3,0	7,0	3,5	080	Z3010 / Ø 3,5 x 080 / AH					160	Z3010 / Ø 4,7 x 160 / AH
				100	Z3010 / Ø 3,5 x 100 / AH					200	Z3010 / Ø 4,7 x 200 / AH



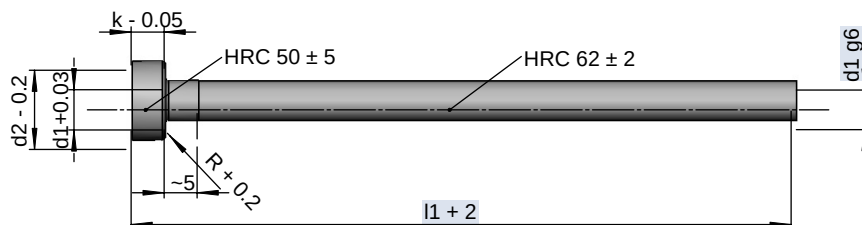
HARDENED
DIN 1530 (AH)
Mat. WS

R	k	d2	d1	l1	Z3010 / d1 x l1 / AH	R	k	d2	d1	l1	Z3010 / d1 x l1 / AH
0,3	3,0	8,0	4,7	250	Z3010 / Ø 4,7 x 250 / AH	0,5	5,0	12,0	6,3	100	Z3010 / Ø 6,3 x 100 / AH
				315	Z3010 / Ø 4,7 x 315 / AH					125	Z3010 / Ø 6,3 x 125 / AH
0,3	3,0	10,0	5,0	040	Z3010 / Ø 5,0 x 040 / AH					160	Z3010 / Ø 6,3 x 160 / AH
				063	Z3010 / Ø 5,0 x 063 / AH	0,5	5,0	12,0	6,5	100	Z3010 / Ø 6,5 x 100 / AH
				080	Z3010 / Ø 5,0 x 080 / AH					125	Z3010 / Ø 6,5 x 125 / AH
				100	Z3010 / Ø 5,0 x 100 / AH					160	Z3010 / Ø 6,5 x 160 / AH
				125	Z3010 / Ø 5,0 x 125 / AH					200	Z3010 / Ø 6,5 x 200 / AH
				160	Z3010 / Ø 5,0 x 160 / AH					250	Z3010 / Ø 6,5 x 250 / AH
				200	Z3010 / Ø 5,0 x 200 / AH					315	Z3010 / Ø 6,5 x 315 / AH
				250	Z3010 / Ø 5,0 x 250 / AH	0,5	5,0	12,0	6,6	100	Z3010 / Ø 6,6 x 100 / AH
				315	Z3010 / Ø 5,0 x 315 / AH					125	Z3010 / Ø 6,6 x 125 / AH
				400	Z3010 / Ø 5,0 x 400 / AH					160	Z3010 / Ø 6,6 x 160 / AH
				500	Z3010 / Ø 5,0 x 500 / AH	0,5	5,0	12,0	7,0	100	Z3010 / Ø 7,0 x 100 / AH
0,3	3,0	10,0	5,1	100	Z3010 / Ø 5,1 x 100 / AH					125	Z3010 / Ø 7,0 x 125 / AH
				125	Z3010 / Ø 5,1 x 125 / AH					160	Z3010 / Ø 7,0 x 160 / AH
				160	Z3010 / Ø 5,1 x 160 / AH					200	Z3010 / Ø 7,0 x 200 / AH
				200	Z3010 / Ø 5,1 x 200 / AH					250	Z3010 / Ø 7,0 x 250 / AH
				250	Z3010 / Ø 5,1 x 250 / AH					315	Z3010 / Ø 7,0 x 315 / AH
0,3	3,0	10,0	5,2	080	Z3010 / Ø 5,2 x 080 / AH					400	Z3010 / Ø 7,0 x 400 / AH
				100	Z3010 / Ø 5,2 x 100 / AH	0,5	5,0	12,0	7,5	100	Z3010 / Ø 7,5 x 100 / AH
				125	Z3010 / Ø 5,2 x 125 / AH					125	Z3010 / Ø 7,5 x 125 / AH
				160	Z3010 / Ø 5,2 x 160 / AH					160	Z3010 / Ø 7,5 x 160 / AH
				200	Z3010 / Ø 5,2 x 200 / AH					200	Z3010 / Ø 7,5 x 200 / AH
				250	Z3010 / Ø 5,2 x 250 / AH					250	Z3010 / Ø 7,5 x 250 / AH
				315	Z3010 / Ø 5,2 x 315 / AH	0,5	5,0	14,0	8,0	063	Z3010 / Ø 8,0 x 063 / AH
				400	Z3010 / Ø 5,2 x 400 / AH					080	Z3010 / Ø 8,0 x 080 / AH
				100	Z3010 / Ø 5,3 x 100 / AH					100	Z3010 / Ø 8,0 x 100 / AH
				125	Z3010 / Ø 5,3 x 125 / AH					125	Z3010 / Ø 8,0 x 125 / AH
				160	Z3010 / Ø 5,3 x 160 / AH					160	Z3010 / Ø 8,0 x 160 / AH
0,3	3,0	10,0	5,5	100	Z3010 / Ø 5,5 x 100 / AH					200	Z3010 / Ø 8,0 x 200 / AH
				125	Z3010 / Ø 5,5 x 125 / AH					250	Z3010 / Ø 8,0 x 250 / AH
				160	Z3010 / Ø 5,5 x 160 / AH					315	Z3010 / Ø 8,0 x 315 / AH
				200	Z3010 / Ø 5,5 x 200 / AH					400	Z3010 / Ø 8,0 x 400 / AH
				250	Z3010 / Ø 5,5 x 250 / AH					500	Z3010 / Ø 8,0 x 500 / AH
				315	Z3010 / Ø 5,5 x 315 / AH	0,5	5,0	14,0	8,2	080	Z3010 / Ø 8,2 x 080 / AH
0,3	3,0	10,0	5,7	100	Z3010 / Ø 5,7 x 100 / AH					100	Z3010 / Ø 8,2 x 100 / AH
				125	Z3010 / Ø 5,7 x 125 / AH					125	Z3010 / Ø 8,2 x 125 / AH
				160	Z3010 / Ø 5,7 x 160 / AH					160	Z3010 / Ø 8,2 x 160 / AH
0,5	5,0	12,0	6,0	040	Z3010 / Ø 6,0 x 040 / AH					200	Z3010 / Ø 8,2 x 200 / AH
				063	Z3010 / Ø 6,0 x 063 / AH					250	Z3010 / Ø 8,2 x 250 / AH
				080	Z3010 / Ø 6,0 x 080 / AH					315	Z3010 / Ø 8,2 x 315 / AH
				100	Z3010 / Ø 6,0 x 100 / AH					400	Z3010 / Ø 8,2 x 400 / AH
				125	Z3010 / Ø 6,0 x 125 / AH	0,5	5,0	14,0	8,5	100	Z3010 / Ø 8,5 x 100 / AH
				160	Z3010 / Ø 6,0 x 160 / AH					125	Z3010 / Ø 8,5 x 125 / AH
				200	Z3010 / Ø 6,0 x 200 / AH					160	Z3010 / Ø 8,5 x 160 / AH
				250	Z3010 / Ø 6,0 x 250 / AH					200	Z3010 / Ø 8,5 x 200 / AH
				315	Z3010 / Ø 6,0 x 315 / AH					250	Z3010 / Ø 8,5 x 250 / AH
				400	Z3010 / Ø 6,0 x 400 / AH					315	Z3010 / Ø 8,5 x 315 / AH
				500	Z3010 / Ø 6,0 x 500 / AH					400	Z3010 / Ø 8,5 x 400 / AH
0,5	5,0	12,0	6,1	100	Z3010 / Ø 6,1 x 100 / AH	0,5	5,0	14,0	9,0	100	Z3010 / Ø 9,0 x 100 / AH
				125	Z3010 / Ø 6,1 x 125 / AH					125	Z3010 / Ø 9,0 x 125 / AH
				160	Z3010 / Ø 6,1 x 160 / AH					160	Z3010 / Ø 9,0 x 160 / AH
				200	Z3010 / Ø 6,1 x 200 / AH					200	Z3010 / Ø 9,0 x 200 / AH
0,5	5,0	12,0	6,2	080	Z3010 / Ø 6,2 x 080 / AH					250	Z3010 / Ø 9,0 x 250 / AH
				100	Z3010 / Ø 6,2 x 100 / AH					315	Z3010 / Ø 9,0 x 315 / AH
				125	Z3010 / Ø 6,2 x 125 / AH					400	Z3010 / Ø 9,0 x 400 / AH
				160	Z3010 / Ø 6,2 x 160 / AH	0,5	5,0	14,0	9,5	100	Z3010 / Ø 9,5 x 100 / AH
				200	Z3010 / Ø 6,2 x 200 / AH					125	Z3010 / Ø 9,5 x 125 / AH
				250	Z3010 / Ø 6,2 x 250 / AH					160	Z3010 / Ø 9,5 x 160 / AH
				315	Z3010 / Ø 6,2 x 315 / AH	0,5	5,0	16,0	10,0	080	Z3010 / Ø 10,0 x 080 / AH
				400	Z3010 / Ø 6,2 x 400 / AH					100	Z3010 / Ø 10,0 x 100 / AH



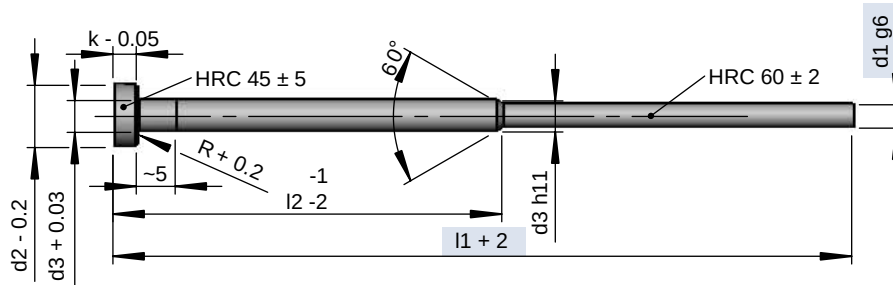
**HARDENED
DIN 1530 (AH)
Mat. WS**

R	k	d2	d1	l1	Z3010 / d1 x l1 / AH	R	k	d2	d1	l1	Z3010 / d1 x l1 / AH
0,5	5,0	16,0	10,0	125	Z3010 / Ø 10,0 x 125 / AH	0,8	7,0	22,0	14,0	400	Z3010 / Ø 14,0 x 400 / AH
				160	Z3010 / Ø 10,0 x 160 / AH	0,8	7,0	22,0	16,0	080	Z3010 / Ø 16,0 x 080 / AH
				200	Z3010 / Ø 10,0 x 200 / AH					100	Z3010 / Ø 16,0 x 100 / AH
				250	Z3010 / Ø 10,0 x 250 / AH					125	Z3010 / Ø 16,0 x 125 / AH
				315	Z3010 / Ø 10,0 x 315 / AH					160	Z3010 / Ø 16,0 x 160 / AH
				400	Z3010 / Ø 10,0 x 400 / AH					200	Z3010 / Ø 16,0 x 200 / AH
				500	Z3010 / Ø 10,0 x 500 / AH					250	Z3010 / Ø 16,0 x 250 / AH
0,5	5,0	16,0	10,2	080	Z3010 / Ø 10,2 x 080 / AH					315	Z3010 / Ø 16,0 x 315 / AH
				100	Z3010 / Ø 10,2 x 100 / AH					400	Z3010 / Ø 16,0 x 400 / AH
				125	Z3010 / Ø 10,2 x 125 / AH	0,8	7,0	24,0	18,0	160	Z3010 / Ø 18,0 x 160 / AH
				160	Z3010 / Ø 10,2 x 160 / AH					200	Z3010 / Ø 18,0 x 200 / AH
				200	Z3010 / Ø 10,2 x 200 / AH					250	Z3010 / Ø 18,0 x 250 / AH
				250	Z3010 / Ø 10,2 x 250 / AH					315	Z3010 / Ø 18,0 x 315 / AH
				315	Z3010 / Ø 10,2 x 315 / AH					400	Z3010 / Ø 18,0 x 400 / AH
				400	Z3010 / Ø 10,2 x 400 / AH	1,0	8,0	26,0	20,0	160	Z3010 / Ø 20,0 x 160 / AH
0,5	5,0	16,0	10,5	100	Z3010 / Ø 10,5 x 100 / AH					200	Z3010 / Ø 20,0 x 200 / AH
				125	Z3010 / Ø 10,5 x 125 / AH					250	Z3010 / Ø 20,0 x 250 / AH
				160	Z3010 / Ø 10,5 x 160 / AH					315	Z3010 / Ø 20,0 x 315 / AH
				200	Z3010 / Ø 10,5 x 200 / AH					400	Z3010 / Ø 20,0 x 400 / AH
				250	Z3010 / Ø 10,5 x 250 / AH						
				315	Z3010 / Ø 10,5 x 315 / AH						
				400	Z3010 / Ø 10,5 x 400 / AH						
0,5	5,0	16,0	10,7	100	Z3010 / Ø 10,7 x 100 / AH						
				125	Z3010 / Ø 10,7 x 125 / AH						
				160	Z3010 / Ø 10,7 x 160 / AH						
0,5	5,0	16,0	11,0	160	Z3010 / Ø 11,0 x 160 / AH						
				200	Z3010 / Ø 11,0 x 200 / AH						
				250	Z3010 / Ø 11,0 x 250 / AH						
				315	Z3010 / Ø 11,0 x 315 / AH						
				400	Z3010 / Ø 11,0 x 400 / AH						
0,8	7,0	18,0	12,0	080	Z3010 / Ø 12,0 x 080 / AH						
				100	Z3010 / Ø 12,0 x 100 / AH						
				125	Z3010 / Ø 12,0 x 125 / AH						
				160	Z3010 / Ø 12,0 x 160 / AH						
				200	Z3010 / Ø 12,0 x 200 / AH						
				250	Z3010 / Ø 12,0 x 250 / AH						
				315	Z3010 / Ø 12,0 x 315 / AH						
				400	Z3010 / Ø 12,0 x 400 / AH						
				500	Z3010 / Ø 12,0 x 500 / AH						
0,8	7,0	18,0	12,2	160	Z3010 / Ø 12,2 x 160 / AH						
				200	Z3010 / Ø 12,2 x 200 / AH						
				250	Z3010 / Ø 12,2 x 250 / AH						
				315	Z3010 / Ø 12,2 x 315 / AH						
				400	Z3010 / Ø 12,2 x 400 / AH						
0,8	7,0	18,0	12,5	160	Z3010 / Ø 12,5 x 160 / AH						
				200	Z3010 / Ø 12,5 x 200 / AH						
				250	Z3010 / Ø 12,5 x 250 / AH						
				315	Z3010 / Ø 12,5 x 315 / AH						
				400	Z3010 / Ø 12,5 x 400 / AH						
0,8	7,0	18,0	13,0	100	Z3010 / Ø 13,0 x 100 / AH						
				125	Z3010 / Ø 13,0 x 125 / AH						
				160	Z3010 / Ø 13,0 x 160 / AH						
				200	Z3010 / Ø 13,0 x 200 / AH						
				250	Z3010 / Ø 13,0 x 250 / AH						
				315	Z3010 / Ø 13,0 x 315 / AH						
0,8	7,0	22,0	14,0	100	Z3010 / Ø 14,0 x 100 / AH						
				125	Z3010 / Ø 14,0 x 125 / AH						
				160	Z3010 / Ø 14,0 x 160 / AH						
				200	Z3010 / Ø 14,0 x 200 / AH						
				250	Z3010 / Ø 14,0 x 250 / AH						
				315	Z3010 / Ø 14,0 x 315 / AH						



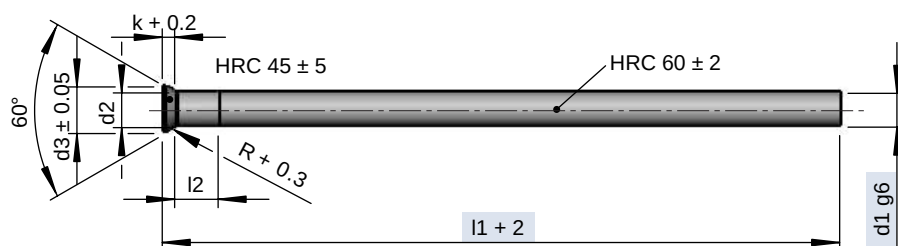
HARDENED
DIN 1530 (AH)
Mat. HSS

R	k	d2	d1	l1	Z3020 / d1 x l1 / AH	R	k	d2	d1	l1	Z3020 / d1 x l1 / AH
0,2	1,5	3,0	1,5	160	Z3020 / Ø 1,5 x 160 / AH						
				200	Z3020 / Ø 1,5 x 200 / AH						
0,2	2,0	4,0	2,0	100	Z3020 / Ø 2,0 x 100 / AH						
				160	Z3020 / Ø 2,0 x 160 / AH						
				200	Z3020 / Ø 2,0 x 200 / AH						
				250	Z3020 / Ø 2,0 x 250 / AH						
0,2	2,0	4,0	2,2	160	Z3020 / Ø 2,2 x 160 / AH						
				200	Z3020 / Ø 2,2 x 200 / AH						
0,3	2,0	5,0	2,5	100	Z3020 / Ø 2,5 x 100 / AH						
				160	Z3020 / Ø 2,5 x 160 / AH						
				200	Z3020 / Ø 2,5 x 200 / AH						
				250	Z3020 / Ø 2,5 x 250 / AH						
0,3	3,0	6,0	3,0	100	Z3020 / Ø 3,0 x 100 / AH						
				160	Z3020 / Ø 3,0 x 160 / AH						
				200	Z3020 / Ø 3,0 x 200 / AH						
				250	Z3020 / Ø 3,0 x 250 / AH						
0,3	3,0	6,0	3,2	160	Z3020 / Ø 3,2 x 160 / AH						
				200	Z3020 / Ø 3,2 x 200 / AH						
0,3	3,0	7,0	3,5	100	Z3020 / Ø 3,5 x 100 / AH						
				160	Z3020 / Ø 3,5 x 160 / AH						
				200	Z3020 / Ø 3,5 x 200 / AH						
				250	Z3020 / Ø 3,5 x 250 / AH						
0,3	3,0	8,0	4,0	100	Z3020 / Ø 4,0 x 100 / AH						
				160	Z3020 / Ø 4,0 x 160 / AH						
				200	Z3020 / Ø 4,0 x 200 / AH						
				250	Z3020 / Ø 4,0 x 250 / AH						
0,3	3,0	8,0	4,2	160	Z3020 / Ø 4,2 x 160 / AH						
				200	Z3020 / Ø 4,2 x 200 / AH						
0,3	3,0	8,0	4,5	100	Z3020 / Ø 4,5 x 100 / AH						
				160	Z3020 / Ø 4,5 x 160 / AH						
				200	Z3020 / Ø 4,5 x 200 / AH						
				250	Z3020 / Ø 4,5 x 250 / AH						
0,3	3,0	10,0	5,0	100	Z3020 / Ø 5,0 x 100 / AH						
				160	Z3020 / Ø 5,0 x 160 / AH						
				200	Z3020 / Ø 5,0 x 200 / AH						
				250	Z3020 / Ø 5,0 x 250 / AH						
0,3	3,0	10,0	5,2	200	Z3020 / Ø 5,2 x 200 / AH						
0,3	3,0	10,0	5,5	200	Z3020 / Ø 5,5 x 200 / AH						
0,5	5,0	12,0	6,0	200	Z3020 / Ø 6,0 x 200 / AH						
0,5	5,0	14,0	8,0	200	Z3020 / Ø 8,0 x 200 / AH						
0,5	5,0	14,0	9,0	200	Z3020 / Ø 9,0 x 200 / AH						
0,5	5,0	16,0	10,0	200	Z3020 / Ø 10,0 x 200 / AH						

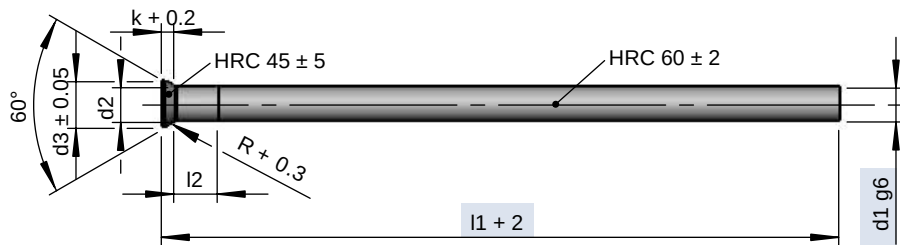


HARDED
DIN 1530 (CH)
Mat. WS

R	k	d2	d3	l2	d1	l1	Z3030 / d1 x l1 / CH	R	k	d2	d3	l2	d1	l1	Z3030 / d1 x l1 / CH
0,2	2,0	4,0	2,0	032	0,50	080	Z3030 / Ø 0,5 x 080 / CH	0,3	3,0	6,0	3,0	032	1,60	080	Z3030 / Ø 1,6 x 080 / CH
				050		100	Z3030 / Ø 0,5 x 100 / CH					050		100	Z3030 / Ø 1,6 x 100 / CH
				050		125	Z3030 / Ø 0,5 x 125 / CH					050		125	Z3030 / Ø 1,6 x 125 / CH
				063		160	Z3030 / Ø 0,5 x 160 / CH					063		160	Z3030 / Ø 1,6 x 160 / CH
				080		200	Z3030 / Ø 0,5 x 200 / CH					080		200	Z3030 / Ø 1,6 x 200 / CH
0,2	2,0	4,0	2,0	032	0,60	080	Z3030 / Ø 0,6 x 080 / CH	0,3	3,0	6,0	3,0	032	1,70	080	Z3030 / Ø 1,7 x 080 / CH
				050		100	Z3030 / Ø 0,6 x 100 / CH					050		100	Z3030 / Ø 1,7 x 100 / CH
				050		125	Z3030 / Ø 0,6 x 125 / CH					050		125	Z3030 / Ø 1,7 x 125 / CH
				063		160	Z3030 / Ø 0,6 x 160 / CH					063		160	Z3030 / Ø 1,7 x 160 / CH
				080		200	Z3030 / Ø 0,6 x 200 / CH					080		200	Z3030 / Ø 1,7 x 200 / CH
0,2	2,0	4,0	2,0	032	0,70	080	Z3030 / Ø 0,7 x 080 / CH	0,3	3,0	6,0	3,0	032	1,80	080	Z3030 / Ø 1,8 x 080 / CH
				050		100	Z3030 / Ø 0,7 x 100 / CH					050		100	Z3030 / Ø 1,8 x 100 / CH
				050		125	Z3030 / Ø 0,7 x 125 / CH					050		125	Z3030 / Ø 1,8 x 125 / CH
				063		160	Z3030 / Ø 0,7 x 160 / CH					063		160	Z3030 / Ø 1,8 x 160 / CH
				080		200	Z3030 / Ø 0,7 x 200 / CH					080		200	Z3030 / Ø 1,8 x 200 / CH
0,2	2,0	4,0	2,0	032	0,80	080	Z3030 / Ø 0,8 x 080 / CH	0,3	3,0	6,0	3,0	032	1,90	080	Z3030 / Ø 1,9 x 080 / CH
				050		100	Z3030 / Ø 0,8 x 100 / CH					050		100	Z3030 / Ø 1,9 x 100 / CH
				050		125	Z3030 / Ø 0,8 x 125 / CH					050		125	Z3030 / Ø 1,9 x 125 / CH
				063		160	Z3030 / Ø 0,8 x 160 / CH					063		160	Z3030 / Ø 1,9 x 160 / CH
				080		200	Z3030 / Ø 0,8 x 200 / CH					080		200	Z3030 / Ø 1,9 x 200 / CH
0,2	2,0	4,0	2,0	063	0,85	160	Z3030 / Ø 0,85 x 160 / CH	0,3	3,0	6,0	3,0	032	2,00	080	Z3030 / Ø 2,0 x 080 / CH
				080		200	Z3030 / Ø 0,85 x 200 / CH					050		100	Z3030 / Ø 2,0 x 100 / CH
0,2	2,0	4,0	2,0	032	0,90	080	Z3030 / Ø 0,9 x 080 / CH					050		125	Z3030 / Ø 2,0 x 125 / CH
				050		100	Z3030 / Ø 0,9 x 100 / CH					050		160	Z3030 / Ø 2,0 x 160 / CH
				050		125	Z3030 / Ø 0,9 x 125 / CH					063		200	Z3030 / Ø 2,0 x 200 / CH
				063		160	Z3030 / Ø 0,9 x 160 / CH					080		250	Z3030 / Ø 2,0 x 250 / CH
				080		200	Z3030 / Ø 0,9 x 200 / CH	0,3	3,0	6,0	3,0	032	2,10	080	Z3030 / Ø 2,1 x 080 / CH
0,2	2,0	4,0	2,0	063	0,95	160	Z3030 / Ø 0,95 x 160 / CH					050		100	Z3030 / Ø 2,1 x 100 / CH
				080		200	Z3030 / Ø 0,95 x 200 / CH					050		125	Z3030 / Ø 2,1 x 125 / CH
0,2	2,0	4,0	2,0	032	1,00	080	Z3030 / Ø 1,0 x 080 / CH					063		160	Z3030 / Ø 2,1 x 160 / CH
				050		100	Z3030 / Ø 1,0 x 100 / CH					080		200	Z3030 / Ø 2,1 x 200 / CH
				050		125	Z3030 / Ø 1,0 x 125 / CH	0,3	3,0	6,0	3,0	032	2,20	080	Z3030 / Ø 2,2 x 080 / CH
				063		160	Z3030 / Ø 1,0 x 160 / CH					050		100	Z3030 / Ø 2,2 x 100 / CH
				080		200	Z3030 / Ø 1,0 x 200 / CH					050		125	Z3030 / Ø 2,2 x 125 / CH
0,2	2,0	4,0	2,0	032	1,10	080	Z3030 / Ø 1,1 x 080 / CH					063		160	Z3030 / Ø 2,2 x 160 / CH
				050		100	Z3030 / Ø 1,1 x 100 / CH					080		200	Z3030 / Ø 2,2 x 200 / CH
				050		125	Z3030 / Ø 1,1 x 125 / CH	0,3	3,0	6,0	3,0	032	2,30	080	Z3030 / Ø 2,3 x 080 / CH
				063		160	Z3030 / Ø 1,1 x 160 / CH					050		100	Z3030 / Ø 2,3 x 100 / CH
				080		200	Z3030 / Ø 1,1 x 200 / CH					050		125	Z3030 / Ø 2,3 x 125 / CH
0,2	2,0	4,0	2,0	032	1,20	080	Z3030 / Ø 1,2 x 080 / CH					063		160	Z3030 / Ø 2,3 x 160 / CH
				050		100	Z3030 / Ø 1,2 x 100 / CH					080		200	Z3030 / Ø 2,3 x 200 / CH
				050		125	Z3030 / Ø 1,2 x 125 / CH	0,3	3,0	6,0	3,0	032	2,40	080	Z3030 / Ø 2,4 x 080 / CH
				063		160	Z3030 / Ø 1,2 x 160 / CH					050		100	Z3030 / Ø 2,4 x 100 / CH
				080		200	Z3030 / Ø 1,2 x 200 / CH					050		125	Z3030 / Ø 2,4 x 125 / CH
0,2	2,0	4,0	2,0	032	1,30	080	Z3030 / Ø 1,3 x 080 / CH					063		160	Z3030 / Ø 2,4 x 160 / CH
				050		100	Z3030 / Ø 1,3 x 100 / CH					080		200	Z3030 / Ø 2,4 x 200 / CH
				050		125	Z3030 / Ø 1,3 x 125 / CH	0,3	3,0	6,0	3,0	050	2,50	100	Z3030 / Ø 2,5 x 100 / CH
				063		160	Z3030 / Ø 1,3 x 160 / CH					050		125	Z3030 / Ø 2,5 x 125 / CH
				080		200	Z3030 / Ø 1,3 x 200 / CH					063		160	Z3030 / Ø 2,5 x 160 / CH
0,2	2,0	4,0	2,0	032	1,40	080	Z3030 / Ø 1,4 x 080 / CH					080		200	Z3030 / Ø 2,5 x 200 / CH
				050		100	Z3030 / Ø 1,4 x 100 / CH							250	Z3030 / Ø 2,5 x 250 / CH
				050		125	Z3030 / Ø 1,4 x 125 / CH								
				063		160	Z3030 / Ø 1,4 x 160 / CH								
				080		200	Z3030 / Ø 1,4 x 200 / CH								
0,3	3,0	6,0	3,0	032	1,50	080	Z3030 / Ø 1,5 x 080 / CH								
				050		100	Z3030 / Ø 1,5 x 100 / CH								
				050		125	Z3030 / Ø 1,5 x 125 / CH								
				063		160	Z3030 / Ø 1,5 x 160 / CH								
				080		200	Z3030 / Ø 1,5 x 200 / CH								
						250	Z3030 / Ø 1,5 x 250 / CH								

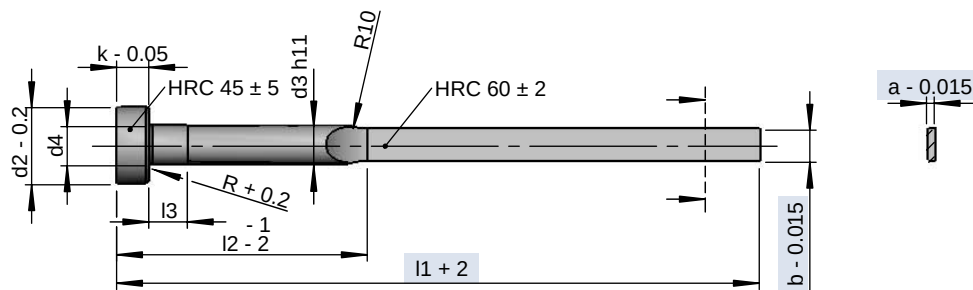

**HARDENED
DIN 1530 (D)
Mat. WS**

R	k	d3	d2	l2	d1	l1	Z3040 / d1 x l1 / D	R	k	d3	d2	l2	d1	l1	Z3040 / d1 x l1 / D
0,4	0,92	1,4	d1 +0,03	5,0	0,80	100	Z3040 / Ø 0,8 x 100 / D	0,4	1,45	3,2	d1 +0,03	5,0	2,10	100	Z3040 / Ø 2,1 x 100 / D
						125	Z3040 / Ø 0,8 x 125 / D							125	Z3040 / Ø 2,1 x 125 / D
						160	Z3040 / Ø 0,8 x 160 / D							160	Z3040 / Ø 2,1 x 160 / D
						200	Z3040 / Ø 0,8 x 200 / D							200	Z3040 / Ø 2,1 x 200 / D
0,4	1,01	1,6	d1 +0,03	5,0	0,90	100	Z3040 / Ø 0,9 x 100 / D	0,4	1,37	3,2	d1 +0,03	5,0	2,20	100	Z3040 / Ø 2,2 x 100 / D
						125	Z3040 / Ø 0,9 x 125 / D							125	Z3040 / Ø 2,2 x 125 / D
						160	Z3040 / Ø 0,9 x 160 / D							160	Z3040 / Ø 2,2 x 160 / D
						200	Z3040 / Ø 0,9 x 200 / D							200	Z3040 / Ø 2,2 x 200 / D
0,4	1,19	1,8	d1 +0,03	5,0	1,00	100	Z3040 / Ø 1,0 x 100 / D	0,4	1,32	3,2	d1 +0,03	5,0	2,25	100	Z3040 / Ø 2,25 x 100 / D
						125	Z3040 / Ø 1,0 x 125 / D							125	Z3040 / Ø 2,25 x 125 / D
						160	Z3040 / Ø 1,0 x 160 / D							160	Z3040 / Ø 2,25 x 160 / D
						200	Z3040 / Ø 1,0 x 200 / D							200	Z3040 / Ø 2,25 x 200 / D
0,4	1,11	1,8	d1 +0,03	5,0	1,10	100	Z3040 / Ø 1,1 x 100 / D	0,4	1,54	3,5	d1 +0,03	5,0	2,30	100	Z3040 / Ø 2,3 x 100 / D
						125	Z3040 / Ø 1,1 x 125 / D							125	Z3040 / Ø 2,3 x 125 / D
						160	Z3040 / Ø 1,1 x 160 / D							160	Z3040 / Ø 2,3 x 160 / D
						200	Z3040 / Ø 1,1 x 200 / D							200	Z3040 / Ø 2,3 x 200 / D
0,4	1,19	2,0	d1 +0,03	5,0	1,20	100	Z3040 / Ø 1,2 x 100 / D	0,4	1,45	3,5	d1 +0,03	5,0	2,40	100	Z3040 / Ø 2,4 x 100 / D
						125	Z3040 / Ø 1,2 x 125 / D							125	Z3040 / Ø 2,4 x 125 / D
						160	Z3040 / Ø 1,2 x 160 / D							160	Z3040 / Ø 2,4 x 160 / D
						200	Z3040 / Ø 1,2 x 200 / D							200	Z3040 / Ø 2,4 x 200 / D
0,4	1,15	2,0	d1 +0,03	5,0	1,25	100	Z3040 / Ø 1,25 x 100 / D	0,4	1,37	3,5	d1 +0,03	5,0	2,50	100	Z3040 / Ø 2,5 x 100 / D
						125	Z3040 / Ø 1,25 x 125 / D							125	Z3040 / Ø 2,5 x 125 / D
						160	Z3040 / Ø 1,25 x 160 / D							160	Z3040 / Ø 2,5 x 160 / D
						200	Z3040 / Ø 1,25 x 200 / D							200	Z3040 / Ø 2,5 x 200 / D
0,4	1,11	2,0	d1 +0,03	5,0	1,30	100	Z3040 / Ø 1,3 x 100 / D	0,4	1,71	4,0	d1 +0,03	5,0	2,60	100	Z3040 / Ø 2,6 x 100 / D
						125	Z3040 / Ø 1,3 x 125 / D							125	Z3040 / Ø 2,6 x 125 / D
						160	Z3040 / Ø 1,3 x 160 / D							160	Z3040 / Ø 2,6 x 160 / D
						200	Z3040 / Ø 1,3 x 200 / D							200	Z3040 / Ø 2,6 x 200 / D
0,4	1,19	2,2	d1 +0,03	5,0	1,40	100	Z3040 / Ø 1,4 x 100 / D	0,4	1,63	4,0	d1 +0,03	5,0	2,70	100	Z3040 / Ø 2,7 x 100 / D
						125	Z3040 / Ø 1,4 x 125 / D							125	Z3040 / Ø 2,7 x 125 / D
						160	Z3040 / Ø 1,4 x 160 / D							160	Z3040 / Ø 2,7 x 160 / D
						200	Z3040 / Ø 1,4 x 200 / D							200	Z3040 / Ø 2,7 x 200 / D
0,4	1,11	2,2	d1 +0,03	5,0	1,50	100	Z3040 / Ø 1,5 x 100 / D	0,4	1,58	4,0	d1 +0,03	5,0	2,75	100	Z3040 / Ø 2,75 x 100 / D
						125	Z3040 / Ø 1,5 x 125 / D							125	Z3040 / Ø 2,75 x 125 / D
						160	Z3040 / Ø 1,5 x 160 / D							160	Z3040 / Ø 2,75 x 160 / D
						200	Z3040 / Ø 1,5 x 200 / D							200	Z3040 / Ø 2,75 x 200 / D
0,4	1,28	2,5	d1 +0,03	5,0	1,60	100	Z3040 / Ø 1,6 x 100 / D	0,4	1,54	4,0	d1 +0,03	5,0	2,80	100	Z3040 / Ø 2,8 x 100 / D
						125	Z3040 / Ø 1,6 x 125 / D							125	Z3040 / Ø 2,8 x 125 / D
						160	Z3040 / Ø 1,6 x 160 / D							160	Z3040 / Ø 2,8 x 160 / D
						200	Z3040 / Ø 1,6 x 200 / D							200	Z3040 / Ø 2,8 x 200 / D
0,4	1,19	2,5	d1 +0,03	5,0	1,70	100	Z3040 / Ø 1,7 x 100 / D	0,4	1,45	4,0	d1 +0,03	5,0	2,90	100	Z3040 / Ø 2,9 x 100 / D
						125	Z3040 / Ø 1,7 x 125 / D							125	Z3040 / Ø 2,9 x 125 / D
						160	Z3040 / Ø 1,7 x 160 / D							160	Z3040 / Ø 2,9 x 160 / D
						200	Z3040 / Ø 1,7 x 200 / D							200	Z3040 / Ø 2,9 x 200 / D
0,4	1,15	2,8	d1 +0,03	5,0	1,75	100	Z3040 / Ø 1,75 x 100 / D	0,6	1,80	4,5	d1 +0,03	5,0	3,00	100	Z3040 / Ø 3,0 x 100 / D
						125	Z3040 / Ø 1,75 x 125 / D							125	Z3040 / Ø 3,0 x 125 / D
						160	Z3040 / Ø 1,75 x 160 / D							160	Z3040 / Ø 3,0 x 160 / D
						200	Z3040 / Ø 1,75 x 200 / D							200	Z3040 / Ø 3,0 x 200 / D
0,4	1,37	2,8	d1 +0,03	5,0	1,80	100	Z3040 / Ø 1,8 x 100 / D	0,6	1,71	4,5	d1 +0,03	5,0	3,10	100	Z3040 / Ø 3,1 x 100 / D
						125	Z3040 / Ø 1,8 x 125 / D							125	Z3040 / Ø 3,1 x 125 / D
						160	Z3040 / Ø 1,8 x 160 / D							160	Z3040 / Ø 3,1 x 160 / D
						200	Z3040 / Ø 1,8 x 200 / D							200	Z3040 / Ø 3,1 x 200 / D
0,4	1,28	2,8	d1 +0,03	5,0	1,90	100	Z3040 / Ø 1,9 x 100 / D	0,6	1,63	4,5	d1 +0,03	5,0	3,20	100	Z3040 / Ø 3,2 x 100 / D
						125	Z3040 / Ø 1,9 x 125 / D							125	Z3040 / Ø 3,2 x 125 / D
						160	Z3040 / Ø 1,9 x 160 / D							160	Z3040 / Ø 3,2 x 160 / D
						200	Z3040 / Ø 1,9 x 200 / D							200	Z3040 / Ø 3,2 x 200 / D
0,4	1,37	3,0	d1 +0,03	5,0	2,00	100	Z3040 / Ø 2,0 x 100 / D	0,6	1,58	4,5	d1 +0,03	5,0	3,25	100	Z3040 / Ø 3,25 x 100 / D
						125	Z3040 / Ø 2,0 x 125 / D							125	Z3040 / Ø 3,25 x 125 / D
						160	Z3040 / Ø 2,0 x 160 / D							160	Z3040 / Ø 3,25 x 160 / D
						200	Z3040 / Ø 2,0 x 200 / D							200	Z3040 / Ø 3,25 x 200 / D
						250	Z3040 / Ø 2,0 x 250 / D							160	Z3040 / Ø 3,25 x 160 / D



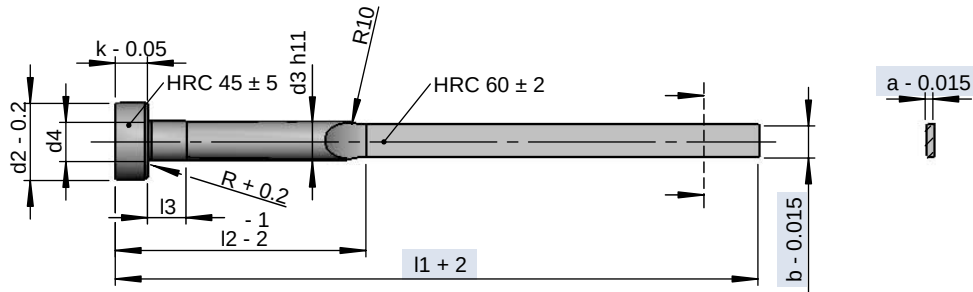
HARDENED
DIN 1530 (D)
Mat. WS

R	k	d3	d2	l2	d1	l1	Z3040 / d1 x l1 / D	R	k	d3	d2	l2	d1	l1	Z3040 / d1 x l1 / D
0,6	1,58	4,5	d1	5,0	3,25	200	Z3040 / Ø 3,25 x 200 / D	1,0	2,06	8,0	d1	6,0	6,20	160	Z3040 / Ø 6,2 x 160 / D
0,6	1,80	5,0	d1 +0,03	5,0	3,50	100	Z3040 / Ø 3,5 x 100 / D							200	Z3040 / Ø 6,2 x 200 / D
						125	Z3040 / Ø 3,5 x 125 / D	1,0	3,16	9,0	d1 +0,04	6,0	6,50	100	Z3040 / Ø 6,5 x 100 / D
						160	Z3040 / Ø 3,5 x 160 / D							125	Z3040 / Ø 6,5 x 125 / D
						200	Z3040 / Ø 3,5 x 200 / D							160	Z3040 / Ø 6,5 x 160 / D
0,6	1,58	5,0	d1 +0,03	5,0	3,75	100	Z3040 / Ø 3,75 x 100 / D							200	Z3040 / Ø 6,5 x 200 / D
						125	Z3040 / Ø 3,75 x 125 / D	1,0	2,73	9,0	d1 +0,04	6,0	7,00	100	Z3040 / Ø 7,0 x 100 / D
						160	Z3040 / Ø 3,75 x 160 / D							125	Z3040 / Ø 7,0 x 125 / D
						200	Z3040 / Ø 3,75 x 200 / D							160	Z3040 / Ø 7,0 x 160 / D
0,6	1,80	5,5	d1 +0,03	5,0	4,00	100	Z3040 / Ø 4,0 x 100 / D							200	Z3040 / Ø 7,0 x 200 / D
						125	Z3040 / Ø 4,0 x 125 / D	1,0	3,16	10,0	d1 +0,04	6,0	7,50	100	Z3040 / Ø 7,5 x 100 / D
						160	Z3040 / Ø 4,0 x 160 / D							125	Z3040 / Ø 7,5 x 125 / D
						200	Z3040 / Ø 4,0 x 200 / D							160	Z3040 / Ø 7,5 x 160 / D
						250	Z3040 / Ø 4,0 x 250 / D							200	Z3040 / Ø 7,5 x 200 / D
						315	Z3040 / Ø 4,0 x 315 / D	1,0	2,73	10,0	d1 +0,04	8,0	8,00	100	Z3040 / Ø 8,0 x 100 / D
0,6	1,71	5,5	d1 +0,03	5,0	4,10	100	Z3040 / Ø 4,1 x 100 / D							125	Z3040 / Ø 8,0 x 125 / D
						125	Z3040 / Ø 4,1 x 125 / D							160	Z3040 / Ø 8,0 x 160 / D
						160	Z3040 / Ø 4,1 x 160 / D							200	Z3040 / Ø 8,0 x 200 / D
						200	Z3040 / Ø 4,1 x 200 / D							250	Z3040 / Ø 8,0 x 250 / D
0,6	1,63	5,5	d1 +0,03	5,0	4,20	100	Z3040 / Ø 4,2 x 100 / D							315	Z3040 / Ø 8,0 x 315 / D
						125	Z3040 / Ø 4,2 x 125 / D	1,0	2,56	10,0	d1 +0,04	8,0	8,20	100	Z3040 / Ø 8,2 x 100 / D
						160	Z3040 / Ø 4,2 x 160 / D							125	Z3040 / Ø 8,2 x 125 / D
						200	Z3040 / Ø 4,2 x 200 / D							160	Z3040 / Ø 8,2 x 160 / D
0,6	1,58	5,5	d1 +0,03	5,0	4,25	100	Z3040 / Ø 4,25 x 100 / D							200	Z3040 / Ø 8,2 x 200 / D
						125	Z3040 / Ø 4,25 x 125 / D	1,0	3,16	11,0	d1 +0,04	8,0	8,50	100	Z3040 / Ø 8,5 x 100 / D
						160	Z3040 / Ø 4,25 x 160 / D							125	Z3040 / Ø 8,5 x 125 / D
						200	Z3040 / Ø 4,25 x 200 / D							160	Z3040 / Ø 8,5 x 160 / D
0,6	1,80	6,0	d1 +0,03	5,0	4,50	100	Z3040 / Ø 4,5 x 100 / D							200	Z3040 / Ø 8,5 x 200 / D
						125	Z3040 / Ø 4,5 x 125 / D	1,0	2,73	11,0	d1 +0,04	8,0	9,00	100	Z3040 / Ø 9,0 x 100 / D
						160	Z3040 / Ø 4,5 x 160 / D							125	Z3040 / Ø 9,0 x 125 / D
						200	Z3040 / Ø 4,5 x 200 / D							160	Z3040 / Ø 9,0 x 160 / D
0,6	1,80	6,5	d1 +0,03	5,0	5,00	100	Z3040 / Ø 5,0 x 100 / D							200	Z3040 / Ø 9,0 x 200 / D
						125	Z3040 / Ø 5,0 x 125 / D	1,0	2,73	12,0	d1 +0,04	10,0	10,00	100	Z3040 / Ø 10,0 x 100 / D
						160	Z3040 / Ø 5,0 x 160 / D							125	Z3040 / Ø 10,0 x 125 / D
						200	Z3040 / Ø 5,0 x 200 / D							160	Z3040 / Ø 10,0 x 160 / D
						250	Z3040 / Ø 5,0 x 250 / D							200	Z3040 / Ø 10,0 x 200 / D
						315	Z3040 / Ø 5,0 x 315 / D							250	Z3040 / Ø 10,0 x 250 / D
1,0	1,71	6,5	d1 +0,03	6,0	5,10	100	Z3040 / Ø 5,1 x 100 / D							315	Z3040 / Ø 10,0 x 315 / D
						125	Z3040 / Ø 5,1 x 125 / D	1,0	2,73	13,0	d1 +0,04	12,0	11,00	100	Z3040 / Ø 11,0 x 100 / D
						160	Z3040 / Ø 5,1 x 160 / D							125	Z3040 / Ø 11,0 x 125 / D
						200	Z3040 / Ø 5,1 x 200 / D							160	Z3040 / Ø 11,0 x 160 / D
1,0	1,63	6,5	d1 +0,03	6,0	5,20	100	Z3040 / Ø 5,2 x 100 / D							200	Z3040 / Ø 11,0 x 200 / D
						125	Z3040 / Ø 5,2 x 125 / D	1,0	2,73	14,0	d1 +0,04	12,0	12,00	100	Z3040 / Ø 12,0 x 100 / D
						160	Z3040 / Ø 5,2 x 160 / D							125	Z3040 / Ø 12,0 x 125 / D
						200	Z3040 / Ø 5,2 x 200 / D							160	Z3040 / Ø 12,0 x 160 / D
1,0	1,58	6,5	d1 +0,03	6,0	5,25	100	Z3040 / Ø 5,25 x 100 / D							200	Z3040 / Ø 12,0 x 200 / D
						125	Z3040 / Ø 5,25 x 125 / D							250	Z3040 / Ø 12,0 x 250 / D
						160	Z3040 / Ø 5,25 x 160 / D							315	Z3040 / Ø 12,0 x 315 / D
						200	Z3040 / Ø 5,25 x 200 / D	1,0	3,23	16,0	d1 +0,04	14,0	14,00	100	Z3040 / Ø 14,0 x 100 / D
1,0	1,80	7,0	d1 +0,03	6,0	5,50	100	Z3040 / Ø 5,5 x 100 / D							125	Z3040 / Ø 14,0 x 125 / D
						125	Z3040 / Ø 5,5 x 125 / D							160	Z3040 / Ø 14,0 x 160 / D
						160	Z3040 / Ø 5,5 x 160 / D							200	Z3040 / Ø 14,0 x 200 / D
						200	Z3040 / Ø 5,5 x 200 / D							250	Z3040 / Ø 14,0 x 250 / D
1,0	2,23	8,0	d1 +0,03	6,0	6,00	100	Z3040 / Ø 6,0 x 100 / D							315	Z3040 / Ø 14,0 x 315 / D
						125	Z3040 / Ø 6,0 x 125 / D	1,0	3,23	18,0	d1 +0,04	16,0	16,00	100	Z3040 / Ø 16,0 x 100 / D
						160	Z3040 / Ø 6,0 x 160 / D							125	Z3040 / Ø 16,0 x 125 / D
						200	Z3040 / Ø 6,0 x 200 / D							160	Z3040 / Ø 16,0 x 160 / D
						250	Z3040 / Ø 6,0 x 250 / D							200	Z3040 / Ø 16,0 x 200 / D
						315	Z3040 / Ø 6,0 x 315 / D							250	Z3040 / Ø 16,0 x 250 / D
1,0	2,06	8,0	d1 +0,03	6,0	6,20	100	Z3040 / Ø 6,2 x 100 / D							315	Z3040 / Ø 16,0 x 315 / D
						125	Z3040 / Ø 6,2 x 125 / D								



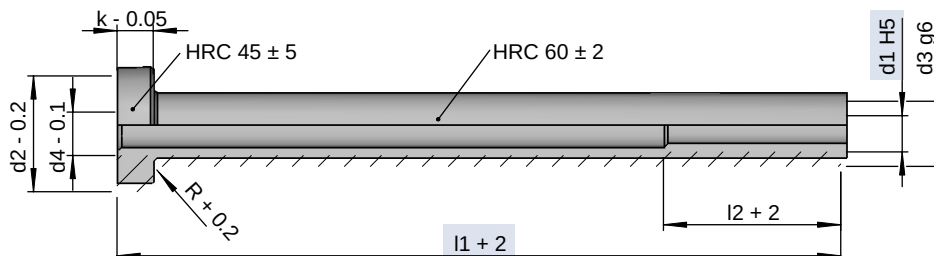
HARDENED
DIN 1530 (FAH)
Mat. WS

d3	d2	d4	k	r1	l2	l3	a	b	l1	Z3050 / a x b x l1 / FAH
4,2	8	d3 +0,03	3	0,3	32	5	0,8	3,8	63	Z3050 / 0,8 x 3,8 x 63 / FAH
					40				80	Z3050 / 0,8 x 3,8 x 80 / FAH
					50				100	Z3050 / 0,8 x 3,8 x 100 / FAH
					63				125	Z3050 / 0,8 x 3,8 x 125 / FAH
					80				160	Z3050 / 0,8 x 3,8 x 160 / FAH
					100				200	Z3050 / 0,8 x 3,8 x 200 / FAH
4,2	8	d3 +0,03	3	0,3	32	5	1,0	3,5	63	Z3050 / 1,0 x 3,5 x 63 / FAH
					40				80	Z3050 / 1,0 x 3,5 x 80 / FAH
					50				100	Z3050 / 1,0 x 3,5 x 100 / FAH
					63				125	Z3050 / 1,0 x 3,5 x 125 / FAH
					80				160	Z3050 / 1,0 x 3,5 x 160 / FAH
					100				200	Z3050 / 1,0 x 3,5 x 200 / FAH
4,2	8	d3 +0,03	3	0,3	32	5	1,0	3,8	63	Z3050 / 1,0 x 3,8 x 63 / FAH
					40				80	Z3050 / 1,0 x 3,8 x 80 / FAH
					50				100	Z3050 / 1,0 x 3,8 x 100 / FAH
					63				125	Z3050 / 1,0 x 3,8 x 125 / FAH
					80				160	Z3050 / 1,0 x 3,8 x 160 / FAH
					100				200	Z3050 / 1,0 x 3,8 x 200 / FAH
5,0	10	d3 +0,03	3	0,3	40	5	1,0	4,5	80	Z3050 / 1,0 x 4,5 x 80 / FAH
					50				100	Z3050 / 1,0 x 4,5 x 100 / FAH
					63				125	Z3050 / 1,0 x 4,5 x 125 / FAH
					80				160	Z3050 / 1,0 x 4,5 x 160 / FAH
					100				200	Z3050 / 1,0 x 4,5 x 200 / FAH
					100				200	Z3050 / 1,0 x 4,5 x 200 / FAH
6,0	12	d3 +0,03	5	0,5	40	6	1,0	5,5	80	Z3050 / 1,0 x 5,5 x 80 / FAH
					50				100	Z3050 / 1,0 x 5,5 x 100 / FAH
					63				125	Z3050 / 1,0 x 5,5 x 125 / FAH
					80				160	Z3050 / 1,0 x 5,5 x 160 / FAH
					100				200	Z3050 / 1,0 x 5,5 x 200 / FAH
					100				200	Z3050 / 1,0 x 5,5 x 200 / FAH
4,2	8	d3 +0,03	3	0,3	40	5	1,2	3,8	80	Z3050 / 1,2 x 3,8 x 80 / FAH
					50				100	Z3050 / 1,2 x 3,8 x 100 / FAH
					63				125	Z3050 / 1,2 x 3,8 x 125 / FAH
					80				160	Z3050 / 1,2 x 3,8 x 160 / FAH
					100				200	Z3050 / 1,2 x 3,8 x 200 / FAH
					100				200	Z3050 / 1,2 x 3,8 x 200 / FAH
5,0	10	d3 +0,03	3	0,3	40	5	1,2	4,5	80	Z3050 / 1,2 x 4,5 x 80 / FAH
					50				100	Z3050 / 1,2 x 4,5 x 100 / FAH
					63				125	Z3050 / 1,2 x 4,5 x 125 / FAH
					80				160	Z3050 / 1,2 x 4,5 x 160 / FAH
					100				200	Z3050 / 1,2 x 4,5 x 200 / FAH
					100				200	Z3050 / 1,2 x 4,5 x 200 / FAH
6,0	12	d3 +0,03	5	0,5	40	6	1,2	5,5	80	Z3050 / 1,2 x 5,5 x 80 / FAH
					50				100	Z3050 / 1,2 x 5,5 x 100 / FAH
					63				125	Z3050 / 1,2 x 5,5 x 125 / FAH
					80				160	Z3050 / 1,2 x 5,5 x 160 / FAH
					100				200	Z3050 / 1,2 x 5,5 x 200 / FAH
					100				200	Z3050 / 1,2 x 5,5 x 200 / FAH
8,0	14	d3 +0,03	5	0,5	50	8	1,2	7,5	100	Z3050 / 1,2 x 7,5 x 100 / FAH
					63				125	Z3050 / 1,2 x 7,5 x 125 / FAH
					80				160	Z3050 / 1,2 x 7,5 x 160 / FAH
					100				200	Z3050 / 1,2 x 7,5 x 200 / FAH
					125				250	Z3050 / 1,2 x 7,5 x 250 / FAH
					125				250	Z3050 / 1,2 x 7,5 x 250 / FAH
5,0	10	d3 +0,03	3	0,3	40	5	1,5	4,5	80	Z3050 / 1,5 x 4,5 x 80 / FAH
					50				100	Z3050 / 1,5 x 4,5 x 100 / FAH
					63				125	Z3050 / 1,5 x 4,5 x 125 / FAH
					80				160	Z3050 / 1,5 x 4,5 x 160 / FAH
					100				200	Z3050 / 1,5 x 4,5 x 200 / FAH
					100				200	Z3050 / 1,5 x 4,5 x 200 / FAH
6,0	12	d3 +0,03	5	0,5	50	6	1,5	5,5	100	Z3050 / 1,5 x 5,5 x 100 / FAH
					63				125	Z3050 / 1,5 x 5,5 x 125 / FAH
					80				160	Z3050 / 1,5 x 5,5 x 160 / FAH
					100				200	Z3050 / 1,5 x 5,5 x 200 / FAH
					100				200	Z3050 / 1,5 x 5,5 x 200 / FAH
					100				200	Z3050 / 1,5 x 5,5 x 200 / FAH
8,0	14	d3 +0,03	5	0,5	50	8	1,5	7,5	100	Z3050 / 1,5 x 7,5 x 100 / FAH
					63				125	Z3050 / 1,5 x 7,5 x 125 / FAH
					80				160	Z3050 / 1,5 x 7,5 x 160 / FAH
					100				200	Z3050 / 1,5 x 7,5 x 200 / FAH
					125				250	Z3050 / 1,5 x 7,5 x 250 / FAH
					125				250	Z3050 / 1,5 x 7,5 x 250 / FAH



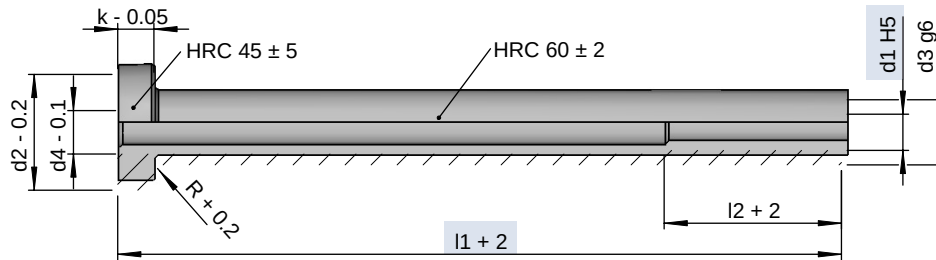
HARDENED
DIN 1530 (FAH)
Mat. WS

d3	d2	d4	k	r1	l2	l3	a	b	l1	Z3050 / a x b x l1 / FAH
10,0	16	d3 +0,04	5	0,5	80	10	1,5	9,5	160	Z3050 / 1,5 x 9,5 x 160 / FAH
					100				200	Z3050 / 1,5 x 9,5 x 200 / FAH
					125				250	Z3050 / 1,5 x 9,5 x 250 / FAH
					160				315	Z3050 / 1,5 x 9,5 x 315 / FAH
6,0	12	d3 +0,03	5	0,5	50	6	2,0	5,5	100	Z3050 / 2,0 x 5,5 x 100 / FAH
					63				125	Z3050 / 2,0 x 5,5 x 125 / FAH
					80				160	Z3050 / 2,0 x 5,5 x 160 / FAH
					100				200	Z3050 / 2,0 x 5,5 x 200 / FAH
8,0	14	d3 +0,03	5	0,5	63	8	2,0	7,5	125	Z3050 / 2,0 x 7,5 x 125 / FAH
					80				160	Z3050 / 2,0 x 7,5 x 160 / FAH
					100				200	Z3050 / 2,0 x 7,5 x 200 / FAH
					125				250	Z3050 / 2,0 x 7,5 x 250 / FAH
					160				315	Z3050 / 2,0 x 7,5 x 315 / FAH
10,0	16	d3 +0,04	5	0,5	80	10	2,0	9,5	160	Z3050 / 2,0 x 9,5 x 160 / FAH
					100				200	Z3050 / 2,0 x 9,5 x 200 / FAH
					125				250	Z3050 / 2,0 x 9,5 x 250 / FAH
					160				315	Z3050 / 2,0 x 9,5 x 315 / FAH
					200				400	Z3050 / 2,0 x 9,5 x 400 / FAH
12,0	18	d3 +0,04	7	0,8	100	12	2,0	11,5	200	Z3050 / 2,0 x 11,5 x 200 / FAH
					125				250	Z3050 / 2,0 x 11,5 x 250 / FAH
					160				315	Z3050 / 2,0 x 11,5 x 315 / FAH
					200				400	Z3050 / 2,0 x 11,5 x 400 / FAH
12,0	18	d3 +0,04	7	0,8	100	12	2,5	11,5	200	Z3050 / 2,5 x 11,5 x 200 / FAH
					125				250	Z3050 / 2,5 x 11,5 x 250 / FAH
					160				315	Z3050 / 2,5 x 11,5 x 315 / FAH
					200				400	Z3050 / 2,5 x 11,5 x 400 / FAH



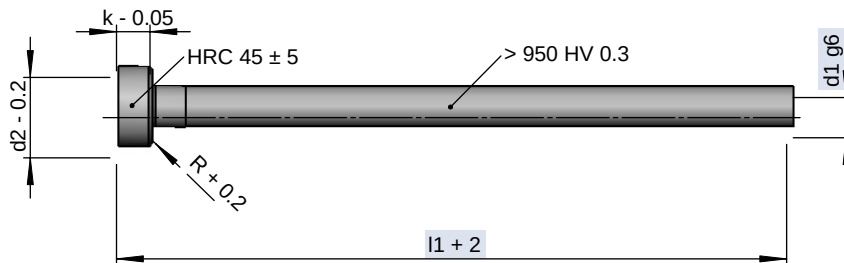
HARDENED
DIN 16756
Mat. WS

R	k	d2	d3	d4	l2	d1	l1	Z3060 / d1 / d3 x l1	R	k	d2	d3	d4	l2	d1	l1	Z3060 / d1 / d3 x l1
0,3	3	6	3,0	1,9	35	1,5	75	Z3060 / Ø 1,5 / 3,0 x 75	0,5	5	12	6,0	3,9	45	3,5	150	Z3060 / Ø 3,5 / 6,0 x 150
							100	Z3060 / Ø 1,5 / 3,0 x 100								175	Z3060 / Ø 3,5 / 6,0 x 175
							125	Z3060 / Ø 1,5 / 3,0 x 125								200	Z3060 / Ø 3,5 / 6,0 x 200
							150	Z3060 / Ø 1,5 / 3,0 x 150								225	Z3060 / Ø 3,5 / 6,0 x 225
							175	Z3060 / Ø 1,5 / 3,0 x 175								250	Z3060 / Ø 3,5 / 6,0 x 250
							175	Z3060 / Ø 1,5 / 3,0 x 175								275	Z3060 / Ø 3,5 / 6,0 x 275
0,3	3	6	3,0	1,9	35	1,6	75	Z3060 / Ø 1,6 / 3,0 x 75	0,5	5	12	6,0	4,0	45	3,7	75	Z3060 / Ø 3,7 / 6,0 x 75
							100	Z3060 / Ø 1,6 / 3,0 x 100								100	Z3060 / Ø 3,7 / 6,0 x 100
							125	Z3060 / Ø 1,6 / 3,0 x 125								125	Z3060 / Ø 3,7 / 6,0 x 125
							150	Z3060 / Ø 1,6 / 3,0 x 150								150	Z3060 / Ø 3,7 / 6,0 x 150
							175	Z3060 / Ø 1,6 / 3,0 x 175								175	Z3060 / Ø 3,7 / 6,0 x 175
							175	Z3060 / Ø 1,6 / 3,0 x 175								200	Z3060 / Ø 3,7 / 6,0 x 200
0,3	3	8	4,0	2,4	35	2,0	75	Z3060 / Ø 2,0 / 4,0 x 75								225	Z3060 / Ø 3,7 / 6,0 x 225
							100	Z3060 / Ø 2,0 / 4,0 x 100								250	Z3060 / Ø 3,7 / 6,0 x 250
							125	Z3060 / Ø 2,0 / 4,0 x 125								275	Z3060 / Ø 3,7 / 6,0 x 275
							150	Z3060 / Ø 2,0 / 4,0 x 150	0,5	5	12	6,0	4,3	45	4,0	75	Z3060 / Ø 4,0 / 6,0 x 75
							175	Z3060 / Ø 2,0 / 4,0 x 175								100	Z3060 / Ø 4,0 / 6,0 x 100
							200	Z3060 / Ø 2,0 / 4,0 x 200								125	Z3060 / Ø 4,0 / 6,0 x 125
							225	Z3060 / Ø 2,0 / 4,0 x 225								150	Z3060 / Ø 4,0 / 6,0 x 150
							225	Z3060 / Ø 2,0 / 4,0 x 225								175	Z3060 / Ø 4,0 / 6,0 x 175
0,3	3	8	4,0	2,4	35	2,2	75	Z3060 / Ø 2,2 / 4,0 x 75								200	Z3060 / Ø 4,0 / 6,0 x 200
							100	Z3060 / Ø 2,2 / 4,0 x 100								225	Z3060 / Ø 4,0 / 6,0 x 225
							125	Z3060 / Ø 2,2 / 4,0 x 125								250	Z3060 / Ø 4,0 / 6,0 x 250
							150	Z3060 / Ø 2,2 / 4,0 x 150								275	Z3060 / Ø 4,0 / 6,0 x 275
							175	Z3060 / Ø 2,2 / 4,0 x 175	0,5	5	14	8,0	4,5	45	4,2	75	Z3060 / Ø 4,2 / 8,0 x 75
							200	Z3060 / Ø 2,2 / 4,0 x 200								100	Z3060 / Ø 4,2 / 8,0 x 100
							225	Z3060 / Ø 2,2 / 4,0 x 225								125	Z3060 / Ø 4,2 / 8,0 x 125
							225	Z3060 / Ø 2,2 / 4,0 x 225								150	Z3060 / Ø 4,2 / 8,0 x 150
0,3	3	10	5,0	2,9	35	2,5	75	Z3060 / Ø 2,5 / 5,0 x 75								175	Z3060 / Ø 4,2 / 8,0 x 175
							100	Z3060 / Ø 2,5 / 5,0 x 100								200	Z3060 / Ø 4,2 / 8,0 x 200
							125	Z3060 / Ø 2,5 / 5,0 x 125								225	Z3060 / Ø 4,2 / 8,0 x 225
							150	Z3060 / Ø 2,5 / 5,0 x 150								250	Z3060 / Ø 4,2 / 8,0 x 250
							175	Z3060 / Ø 2,5 / 5,0 x 175								275	Z3060 / Ø 4,2 / 8,0 x 275
							200	Z3060 / Ø 2,5 / 5,0 x 200	0,5	5	14	8,0	4,8	45	4,5	75	Z3060 / Ø 4,5 / 8,0 x 75
							225	Z3060 / Ø 2,5 / 5,0 x 225								100	Z3060 / Ø 4,5 / 8,0 x 100
							250	Z3060 / Ø 2,5 / 5,0 x 250								125	Z3060 / Ø 4,5 / 8,0 x 125
0,3	3	10	5,0	3,0	35	2,7	75	Z3060 / Ø 2,7 / 5,0 x 75								150	Z3060 / Ø 4,5 / 8,0 x 150
							100	Z3060 / Ø 2,7 / 5,0 x 100								175	Z3060 / Ø 4,5 / 8,0 x 175
							125	Z3060 / Ø 2,7 / 5,0 x 125								200	Z3060 / Ø 4,5 / 8,0 x 200
							150	Z3060 / Ø 2,7 / 5,0 x 150								225	Z3060 / Ø 4,5 / 8,0 x 225
							175	Z3060 / Ø 2,7 / 5,0 x 175								250	Z3060 / Ø 4,5 / 8,0 x 250
							200	Z3060 / Ø 2,7 / 5,0 x 200								275	Z3060 / Ø 4,5 / 8,0 x 275
							225	Z3060 / Ø 2,7 / 5,0 x 225	0,5	5	14	8,0	5,3	45	5,0	75	Z3060 / Ø 5,0 / 8,0 x 75
							250	Z3060 / Ø 2,7 / 5,0 x 250								100	Z3060 / Ø 5,0 / 8,0 x 100
0,3	3	10	5,0	3,3	45	3,0	75	Z3060 / Ø 3,0 / 5,0 x 75								125	Z3060 / Ø 5,0 / 8,0 x 125
							100	Z3060 / Ø 3,0 / 5,0 x 100								150	Z3060 / Ø 5,0 / 8,0 x 150
							125	Z3060 / Ø 3,0 / 5,0 x 125								175	Z3060 / Ø 5,0 / 8,0 x 175
							150	Z3060 / Ø 3,0 / 5,0 x 150								200	Z3060 / Ø 5,0 / 8,0 x 200
							175	Z3060 / Ø 3,0 / 5,0 x 175								225	Z3060 / Ø 5,0 / 8,0 x 225
							200	Z3060 / Ø 3,0 / 5,0 x 200								250	Z3060 / Ø 5,0 / 8,0 x 250
							225	Z3060 / Ø 3,0 / 5,0 x 225								275	Z3060 / Ø 5,0 / 8,0 x 275
							250	Z3060 / Ø 3,0 / 5,0 x 250	0,5	5	14	8,0	5,5	45	5,2	75	Z3060 / Ø 5,2 / 8,0 x 75
							275	Z3060 / Ø 3,0 / 5,0 x 275								100	Z3060 / Ø 5,2 / 8,0 x 100
0,3	3	10	5,0	3,5	45	3,2	75	Z3060 / Ø 3,2 / 5,0 x 75								125	Z3060 / Ø 5,2 / 8,0 x 125
							100	Z3060 / Ø 3,2 / 5,0 x 100								150	Z3060 / Ø 5,2 / 8,0 x 150
							125	Z3060 / Ø 3,2 / 5,0 x 125								175	Z3060 / Ø 5,2 / 8,0 x 175
							150	Z3060 / Ø 3,2 / 5,0 x 150								200	Z3060 / Ø 5,2 / 8,0 x 200
							175	Z3060 / Ø 3,2 / 5,0 x 175								225	Z3060 / Ø 5,2 / 8,0 x 225
							200	Z3060 / Ø 3,2 / 5,0 x 200								250	Z3060 / Ø 5,2 / 8,0 x 250
							225	Z3060 / Ø 3,2 / 5,0 x 225								275	Z3060 / Ø 5,2 / 8,0 x 275
							250	Z3060 / Ø 3,2 / 5,0 x 250	0,5	5	14	8,0	5,8	45	5,5	75	Z3060 / Ø 5,5 / 8,0 x 75
							275	Z3060 / Ø 3,2 / 5,0 x 275								100	Z3060 / Ø 5,5 / 8,0 x 100
0,5	5	12	6,0	3,9	45	3,5	75	Z3060 / Ø 3,5 / 6,0 x 75								125	Z3060 / Ø 5,5 / 8,0 x 125
							100	Z3060 / Ø 3,5 / 6,0 x 100								150	Z3060 / Ø 5,5 / 8,0 x 150
							125	Z3060 / Ø 3,5 / 6,0 x 125								175	Z3060 / Ø 5,5 / 8,0 x 175
							125	Z3060 / Ø 3,5 / 6,0 x 125								200	Z3060 / Ø 5,5 / 8,0 x 200
							125	Z3060 / Ø 3,5 / 6,0 x 125								225	Z3060 / Ø 5,5 / 8,0 x 225
							125	Z3060 / Ø 3,5 / 6,0 x 125								250	Z3060 / Ø 5,5 / 8,0 x 250
							125	Z3060 / Ø 3,5 / 6,0 x 125								275	Z3060 / Ø 5,5 / 8,0 x 275
							125	Z3060 / Ø 3,5 / 6,0 x 125	0,5	5	14	8,0	5,8	45	5,5	75	Z3060 / Ø 5,5 / 8,0 x 75



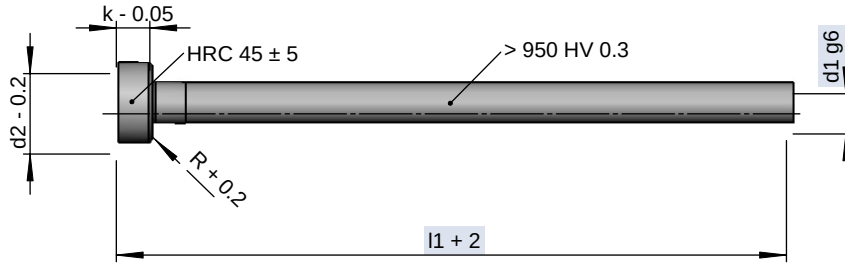
HARDENED
DIN 16756
Mat. WS

R	k	d2	d3	d4	l2	d1	l1	Z3060 / d1 / d3 x l1	R	k	d2	d3	d4	l2	d1	l1	Z3060 / d1 / d3 x l1
0,5	5	14	8,0	5,8	45	5,5	100	Z3060 / Ø 5,5 / 8,0 x 100	0,8	7	22	14,0	11,0	45	10,5	275	Z3060 / Ø 10,5 / 14,0 x 275
							125	Z3060 / Ø 5,5 / 8,0 x 125	0,8	7	22	16,0	12,5	45	12,0	75	Z3060 / Ø 12,0 / 16,0 x 75
							150	Z3060 / Ø 5,5 / 8,0 x 150								100	Z3060 / Ø 12,0 / 16,0 x 100
							175	Z3060 / Ø 5,5 / 8,0 x 175								125	Z3060 / Ø 12,0 / 16,0 x 125
							200	Z3060 / Ø 5,5 / 8,0 x 200								150	Z3060 / Ø 12,0 / 16,0 x 150
							225	Z3060 / Ø 5,5 / 8,0 x 225								175	Z3060 / Ø 12,0 / 16,0 x 175
							250	Z3060 / Ø 5,5 / 8,0 x 250								200	Z3060 / Ø 12,0 / 16,0 x 200
							275	Z3060 / Ø 5,5 / 8,0 x 275								225	Z3060 / Ø 12,0 / 16,0 x 225
0,5	5	16	10,0	6,3	45	6,0	75	Z3060 / Ø 6,0 / 10,0 x 75								250	Z3060 / Ø 12,0 / 16,0 x 250
							100	Z3060 / Ø 6,0 / 10,0 x 100								275	Z3060 / Ø 12,0 / 16,0 x 275
							125	Z3060 / Ø 6,0 / 10,0 x 125	0,8	7	22	16,0	13,0	45	12,5	75	Z3060 / Ø 12,5 / 16,0 x 75
							150	Z3060 / Ø 6,0 / 10,0 x 150								100	Z3060 / Ø 12,5 / 16,0 x 100
							175	Z3060 / Ø 6,0 / 10,0 x 175								125	Z3060 / Ø 12,5 / 16,0 x 125
							200	Z3060 / Ø 6,0 / 10,0 x 200								150	Z3060 / Ø 12,5 / 16,0 x 150
							225	Z3060 / Ø 6,0 / 10,0 x 225								175	Z3060 / Ø 12,5 / 16,0 x 175
							250	Z3060 / Ø 6,0 / 10,0 x 250								200	Z3060 / Ø 12,5 / 16,0 x 200
							275	Z3060 / Ø 6,0 / 10,0 x 275								225	Z3060 / Ø 12,5 / 16,0 x 225
0,5	5	16	10,0	6,5	45	6,2	75	Z3060 / Ø 6,2 / 10,0 x 75								250	Z3060 / Ø 12,5 / 16,0 x 250
							100	Z3060 / Ø 6,2 / 10,0 x 100								275	Z3060 / Ø 12,5 / 16,0 x 275
							125	Z3060 / Ø 6,2 / 10,0 x 125									
							150	Z3060 / Ø 6,2 / 10,0 x 150									
							175	Z3060 / Ø 6,2 / 10,0 x 175									
							200	Z3060 / Ø 6,2 / 10,0 x 200									
							225	Z3060 / Ø 6,2 / 10,0 x 225									
							250	Z3060 / Ø 6,2 / 10,0 x 250									
							275	Z3060 / Ø 6,2 / 10,0 x 275									
0,8	7	20	12,0	8,3	45	8,0	75	Z3060 / Ø 8,0 / 12,0 x 75									
							100	Z3060 / Ø 8,0 / 12,0 x 100									
							125	Z3060 / Ø 8,0 / 12,0 x 125									
							150	Z3060 / Ø 8,0 / 12,0 x 150									
							175	Z3060 / Ø 8,0 / 12,0 x 175									
							200	Z3060 / Ø 8,0 / 12,0 x 200									
							225	Z3060 / Ø 8,0 / 12,0 x 225									
							250	Z3060 / Ø 8,0 / 12,0 x 250									
							275	Z3060 / Ø 8,0 / 12,0 x 275									
0,8	7	20	12,0	8,5	45	8,2	75	Z3060 / Ø 8,2 / 12,0 x 75									
							100	Z3060 / Ø 8,2 / 12,0 x 100									
							125	Z3060 / Ø 8,2 / 12,0 x 125									
							150	Z3060 / Ø 8,2 / 12,0 x 150									
							175	Z3060 / Ø 8,2 / 12,0 x 175									
							200	Z3060 / Ø 8,2 / 12,0 x 200									
							225	Z3060 / Ø 8,2 / 12,0 x 225									
							250	Z3060 / Ø 8,2 / 12,0 x 250									
							275	Z3060 / Ø 8,2 / 12,0 x 275									
0,8	7	22	14,0	10,5	45	10,0	75	Z3060 / Ø 10,0 / 14,0 x 75									
							100	Z3060 / Ø 10,0 / 14,0 x 100									
							125	Z3060 / Ø 10,0 / 14,0 x 125									
							150	Z3060 / Ø 10,0 / 14,0 x 150									
							175	Z3060 / Ø 10,0 / 14,0 x 175									
							200	Z3060 / Ø 10,0 / 14,0 x 200									
							225	Z3060 / Ø 10,0 / 14,0 x 225									
							250	Z3060 / Ø 10,0 / 14,0 x 250									
							275	Z3060 / Ø 10,0 / 14,0 x 275									
0,8	7	22	14,0	11,0	45	10,5	75	Z3060 / Ø 10,5 / 14,0 x 75									
							100	Z3060 / Ø 10,5 / 14,0 x 100									
							125	Z3060 / Ø 10,5 / 14,0 x 125									
							150	Z3060 / Ø 10,5 / 14,0 x 150									
							175	Z3060 / Ø 10,5 / 14,0 x 175									
							200	Z3060 / Ø 10,5 / 14,0 x 200									
							225	Z3060 / Ø 10,5 / 14,0 x 225									
							250	Z3060 / Ø 10,5 / 14,0 x 250									



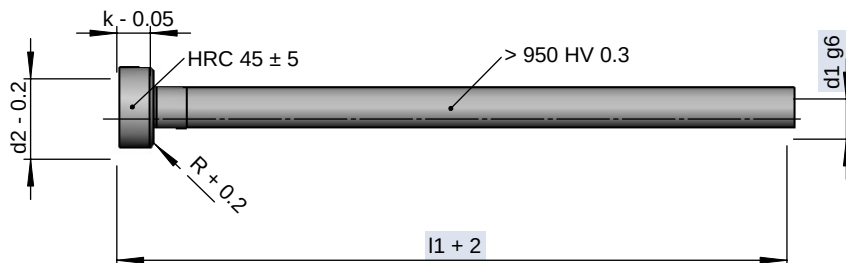
NITRIDED
DIN 1530 (A)
Mat. 1.2343

R	k	d2	d1	l1	Z3070 / d1 x l1 / A	R	k	d2	d1	l1	Z3070 / d1 x l1 / A
0,2	1,2	2,5	1,0	100	Z3070 / Ø 1,0 x 100 / A	0,3	2,0	5,0	2,7	315	Z3070 / Ø 2,7 x 315 / A
				125	Z3070 / Ø 1,0 x 125 / A	0,3	3,0	6,0	3,0	100	Z3070 / Ø 3,0 x 100 / A
				160	Z3070 / Ø 1,0 x 160 / A					125	Z3070 / Ø 3,0 x 125 / A
0,2	1,2	2,5	1,1	100	Z3070 / Ø 1,1 x 100 / A					160	Z3070 / Ø 3,0 x 160 / A
				125	Z3070 / Ø 1,1 x 125 / A					200	Z3070 / Ø 3,0 x 200 / A
				160	Z3070 / Ø 1,1 x 160 / A					250	Z3070 / Ø 3,0 x 250 / A
0,2	1,2	2,5	1,2	100	Z3070 / Ø 1,2 x 100 / A					315	Z3070 / Ø 3,0 x 315 / A
				125	Z3070 / Ø 1,2 x 125 / A					400	Z3070 / Ø 3,0 x 400 / A
				160	Z3070 / Ø 1,2 x 160 / A					500	Z3070 / Ø 3,0 x 500 / A
				200	Z3070 / Ø 1,2 x 200 / A	0,3	3,0	6,0	3,1	100	Z3070 / Ø 3,1 x 100 / A
0,2	1,5	3,0	1,3	100	Z3070 / Ø 1,3 x 100 / A					125	Z3070 / Ø 3,1 x 125 / A
				125	Z3070 / Ø 1,3 x 125 / A					160	Z3070 / Ø 3,1 x 160 / A
				160	Z3070 / Ø 1,3 x 160 / A	0,3	3,0	6,0	3,2	100	Z3070 / Ø 3,2 x 100 / A
				200	Z3070 / Ø 1,3 x 200 / A					125	Z3070 / Ø 3,2 x 125 / A
0,2	1,5	3,0	1,4	100	Z3070 / Ø 1,4 x 100 / A					160	Z3070 / Ø 3,2 x 160 / A
				125	Z3070 / Ø 1,4 x 125 / A					200	Z3070 / Ø 3,2 x 200 / A
				160	Z3070 / Ø 1,4 x 160 / A					250	Z3070 / Ø 3,2 x 250 / A
				200	Z3070 / Ø 1,4 x 200 / A					315	Z3070 / Ø 3,2 x 315 / A
0,2	1,5	3,0	1,5	100	Z3070 / Ø 1,5 x 100 / A					400	Z3070 / Ø 3,2 x 400 / A
				125	Z3070 / Ø 1,5 x 125 / A	0,3	3,0	6,0	3,3	100	Z3070 / Ø 3,3 x 100 / A
				160	Z3070 / Ø 1,5 x 160 / A					125	Z3070 / Ø 3,3 x 125 / A
				200	Z3070 / Ø 1,5 x 200 / A					160	Z3070 / Ø 3,3 x 160 / A
0,2	1,5	3,0	1,6	100	Z3070 / Ø 1,6 x 100 / A	0,3	3,0	6,0	3,4	100	Z3070 / Ø 3,4 x 100 / A
				125	Z3070 / Ø 1,6 x 125 / A					125	Z3070 / Ø 3,4 x 125 / A
				160	Z3070 / Ø 1,6 x 160 / A					160	Z3070 / Ø 3,4 x 160 / A
				200	Z3070 / Ø 1,6 x 200 / A	0,3	3,0	7,0	3,5	100	Z3070 / Ø 3,5 x 100 / A
0,2	1,5	3,0	1,7	100	Z3070 / Ø 1,7 x 100 / A					125	Z3070 / Ø 3,5 x 125 / A
				125	Z3070 / Ø 1,7 x 125 / A					160	Z3070 / Ø 3,5 x 160 / A
				160	Z3070 / Ø 1,7 x 160 / A					200	Z3070 / Ø 3,5 x 200 / A
				200	Z3070 / Ø 1,7 x 200 / A					250	Z3070 / Ø 3,5 x 250 / A
0,2	1,5	3,0	1,8	100	Z3070 / Ø 1,8 x 100 / A					315	Z3070 / Ø 3,5 x 315 / A
				125	Z3070 / Ø 1,8 x 125 / A					400	Z3070 / Ø 3,5 x 400 / A
				160	Z3070 / Ø 1,8 x 160 / A	0,3	3,0	7,0	3,6	100	Z3070 / Ø 3,6 x 100 / A
				200	Z3070 / Ø 1,8 x 200 / A					125	Z3070 / Ø 3,6 x 125 / A
0,2	1,5	3,0	1,9	100	Z3070 / Ø 1,9 x 100 / A					160	Z3070 / Ø 3,6 x 160 / A
				125	Z3070 / Ø 1,9 x 125 / A	0,3	3,0	7,0	3,7	100	Z3070 / Ø 3,7 x 100 / A
				160	Z3070 / Ø 1,9 x 160 / A					125	Z3070 / Ø 3,7 x 125 / A
				200	Z3070 / Ø 1,9 x 200 / A					160	Z3070 / Ø 3,7 x 160 / A
0,2	2,0	4,0	2,0	100	Z3070 / Ø 2,0 x 100 / A					200	Z3070 / Ø 3,7 x 200 / A
				125	Z3070 / Ø 2,0 x 125 / A					250	Z3070 / Ø 3,7 x 250 / A
				160	Z3070 / Ø 2,0 x 160 / A					315	Z3070 / Ø 3,7 x 315 / A
				200	Z3070 / Ø 2,0 x 200 / A					400	Z3070 / Ø 3,7 x 400 / A
				250	Z3070 / Ø 2,0 x 250 / A	0,3	3,0	7,0	3,8	100	Z3070 / Ø 3,8 x 100 / A
0,2	2,0	4,0	2,2	100	Z3070 / Ø 2,2 x 100 / A					125	Z3070 / Ø 3,8 x 125 / A
				125	Z3070 / Ø 2,2 x 125 / A					160	Z3070 / Ø 3,8 x 160 / A
				160	Z3070 / Ø 2,2 x 160 / A					200	Z3070 / Ø 3,8 x 200 / A
				200	Z3070 / Ø 2,2 x 200 / A	0,3	3,0	8,0	4,0	100	Z3070 / Ø 4,0 x 100 / A
0,3	2,0	5,0	2,5	100	Z3070 / Ø 2,5 x 100 / A					125	Z3070 / Ø 4,0 x 125 / A
				125	Z3070 / Ø 2,5 x 125 / A					160	Z3070 / Ø 4,0 x 160 / A
				160	Z3070 / Ø 2,5 x 160 / A					200	Z3070 / Ø 4,0 x 200 / A
				200	Z3070 / Ø 2,5 x 200 / A					250	Z3070 / Ø 4,0 x 250 / A
				250	Z3070 / Ø 2,5 x 250 / A					315	Z3070 / Ø 4,0 x 315 / A
				315	Z3070 / Ø 2,5 x 315 / A					400	Z3070 / Ø 4,0 x 400 / A
0,3	2,0	5,0	2,6	100	Z3070 / Ø 2,6 x 100 / A					500	Z3070 / Ø 4,0 x 500 / A
				125	Z3070 / Ø 2,6 x 125 / A	0,3	3,0	8,0	4,1	100	Z3070 / Ø 4,1 x 100 / A
				160	Z3070 / Ø 2,6 x 160 / A					125	Z3070 / Ø 4,1 x 125 / A
0,3	2,0	5,0	2,7	100	Z3070 / Ø 2,7 x 100 / A					160	Z3070 / Ø 4,1 x 160 / A
				125	Z3070 / Ø 2,7 x 125 / A					200	Z3070 / Ø 4,1 x 200 / A
				160	Z3070 / Ø 2,7 x 160 / A	0,3	3,0	8,0	4,2	100	Z3070 / Ø 4,2 x 100 / A
				200	Z3070 / Ø 2,7 x 200 / A					125	Z3070 / Ø 4,2 x 125 / A
				250	Z3070 / Ø 2,7 x 250 / A					160	Z3070 / Ø 4,2 x 160 / A



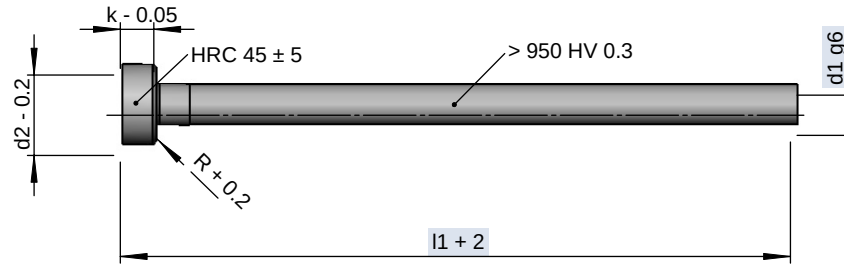
NITRIDED
DIN 1530 (A)
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R	k	d2	d1	l1	Z3070 / d1 x l1 / A	R	k	d2	d1	l1	Z3070 / d1 x l1 / A
0,3	3,0	8,0	4,2	200	Z3070 / Ø 4,2 x 200 / A	0,5	5,0	12,0	6,2	250	Z3070 / Ø 6,2 x 250 / A
				250	Z3070 / Ø 4,2 x 250 / A					315	Z3070 / Ø 6,2 x 315 / A
				315	Z3070 / Ø 4,2 x 315 / A					400	Z3070 / Ø 6,2 x 400 / A
				400	Z3070 / Ø 4,2 x 400 / A					500	Z3070 / Ø 6,2 x 500 / A
0,3	3,0	8,0	4,3	100	Z3070 / Ø 4,3 x 100 / A	0,5	5,0	12,0	6,5	100	Z3070 / Ø 6,5 x 100 / A
				125	Z3070 / Ø 4,3 x 125 / A					125	Z3070 / Ø 6,5 x 125 / A
				160	Z3070 / Ø 4,3 x 160 / A					160	Z3070 / Ø 6,5 x 160 / A
				200	Z3070 / Ø 4,3 x 200 / A					200	Z3070 / Ø 6,5 x 200 / A
0,3	3,0	8,0	4,4	100	Z3070 / Ø 4,4 x 100 / A	0,5	5,0	12,0	6,5	250	Z3070 / Ø 6,5 x 250 / A
				125	Z3070 / Ø 4,4 x 125 / A					315	Z3070 / Ø 6,5 x 315 / A
				160	Z3070 / Ø 4,4 x 160 / A					400	Z3070 / Ø 6,5 x 400 / A
				200	Z3070 / Ø 4,4 x 200 / A					500	Z3070 / Ø 6,5 x 500 / A
0,3	3,0	8,0	4,5	100	Z3070 / Ø 4,5 x 100 / A	0,5	5,0	12,0	7,0	100	Z3070 / Ø 7,0 x 100 / A
				125	Z3070 / Ø 4,5 x 125 / A					125	Z3070 / Ø 7,0 x 125 / A
				160	Z3070 / Ø 4,5 x 160 / A					160	Z3070 / Ø 7,0 x 160 / A
				200	Z3070 / Ø 4,5 x 200 / A					200	Z3070 / Ø 7,0 x 200 / A
0,3	3,0	8,0	4,5	250	Z3070 / Ø 4,5 x 250 / A	0,5	5,0	12,0	7,0	250	Z3070 / Ø 7,0 x 250 / A
				315	Z3070 / Ø 4,5 x 315 / A					315	Z3070 / Ø 7,0 x 315 / A
				400	Z3070 / Ø 4,5 x 400 / A					400	Z3070 / Ø 7,0 x 400 / A
				500	Z3070 / Ø 4,5 x 500 / A					630	Z3070 / Ø 7,0 x 630 / A
0,3	3,0	8,0	4,7	100	Z3070 / Ø 4,7 x 100 / A	0,5	5,0	12,0	7,5	100	Z3070 / Ø 7,5 x 100 / A
				125	Z3070 / Ø 4,7 x 125 / A					125	Z3070 / Ø 7,5 x 125 / A
				160	Z3070 / Ø 4,7 x 160 / A					160	Z3070 / Ø 7,5 x 160 / A
				200	Z3070 / Ø 4,7 x 200 / A					200	Z3070 / Ø 7,5 x 200 / A
0,3	3,0	10,0	5,0	250	Z3070 / Ø 5,0 x 250 / A	0,5	5,0	14,0	8,0	100	Z3070 / Ø 8,0 x 100 / A
				315	Z3070 / Ø 5,0 x 315 / A					125	Z3070 / Ø 8,0 x 125 / A
				400	Z3070 / Ø 5,0 x 400 / A					160	Z3070 / Ø 8,0 x 160 / A
				500	Z3070 / Ø 5,0 x 500 / A					200	Z3070 / Ø 8,0 x 200 / A
0,3	3,0	10,0	5,0	630	Z3070 / Ø 5,0 x 630 / A	0,5	5,0	14,0	8,0	250	Z3070 / Ø 8,0 x 250 / A
				100	Z3070 / Ø 5,2 x 100 / A					315	Z3070 / Ø 8,0 x 315 / A
				125	Z3070 / Ø 5,2 x 125 / A					400	Z3070 / Ø 8,0 x 400 / A
				160	Z3070 / Ø 5,2 x 160 / A					500	Z3070 / Ø 8,0 x 500 / A
0,3	3,0	10,0	5,2	200	Z3070 / Ø 5,2 x 200 / A	0,5	5,0	14,0	8,0	630	Z3070 / Ø 8,0 x 630 / A
				250	Z3070 / Ø 5,2 x 250 / A					800	Z3070 / Ø 8,0 x 800 / A
				315	Z3070 / Ø 5,2 x 315 / A					1000	Z3070 / Ø 8,0 x 1000 / A
				400	Z3070 / Ø 5,2 x 400 / A	0,5	5,0	14,0	8,2	100	Z3070 / Ø 8,2 x 100 / A
0,3	3,0	10,0	5,5	500	Z3070 / Ø 5,2 x 500 / A					125	Z3070 / Ø 8,2 x 125 / A
				100	Z3070 / Ø 5,5 x 100 / A					160	Z3070 / Ø 8,2 x 160 / A
				125	Z3070 / Ø 5,5 x 125 / A					200	Z3070 / Ø 8,2 x 200 / A
				160	Z3070 / Ø 5,5 x 160 / A					250	Z3070 / Ø 8,2 x 250 / A
0,3	3,0	10,0	5,5	200	Z3070 / Ø 5,5 x 200 / A	0,5	5,0	14,0	8,2	315	Z3070 / Ø 8,2 x 315 / A
				250	Z3070 / Ø 5,5 x 250 / A					400	Z3070 / Ø 8,2 x 400 / A
				315	Z3070 / Ø 5,5 x 315 / A					500	Z3070 / Ø 8,2 x 500 / A
				400	Z3070 / Ø 5,5 x 400 / A					630	Z3070 / Ø 8,2 x 630 / A
0,3	3,0	10,0	5,5	500	Z3070 / Ø 5,5 x 500 / A	0,5	5,0	14,0	8,5	100	Z3070 / Ø 8,5 x 100 / A
				100	Z3070 / Ø 6,0 x 100 / A					125	Z3070 / Ø 8,5 x 125 / A
				125	Z3070 / Ø 6,0 x 125 / A					160	Z3070 / Ø 8,5 x 160 / A
				160	Z3070 / Ø 6,0 x 160 / A					200	Z3070 / Ø 8,5 x 200 / A
0,5	5,0	12,0	6,0	200	Z3070 / Ø 6,0 x 200 / A	0,5	5,0	14,0	8,5	250	Z3070 / Ø 8,5 x 250 / A
				250	Z3070 / Ø 6,0 x 250 / A					315	Z3070 / Ø 8,5 x 315 / A
				315	Z3070 / Ø 6,0 x 315 / A					400	Z3070 / Ø 8,5 x 400 / A
				400	Z3070 / Ø 6,0 x 400 / A					500	Z3070 / Ø 8,5 x 500 / A
0,5	5,0	12,0	6,0	500	Z3070 / Ø 6,0 x 500 / A	0,5	5,0	14,0	8,5	630	Z3070 / Ø 8,5 x 630 / A
				630	Z3070 / Ø 6,0 x 630 / A					100	Z3070 / Ø 9,0 x 100 / A
				800	Z3070 / Ø 6,0 x 800 / A					125	Z3070 / Ø 9,0 x 125 / A
				1000	Z3070 / Ø 6,0 x 1000 / A					160	Z3070 / Ø 9,0 x 160 / A
0,5	5,0	12,0	6,2	100	Z3070 / Ø 6,2 x 100 / A	0,5	5,0	14,0	9,0	200	Z3070 / Ø 9,0 x 200 / A
				125	Z3070 / Ø 6,2 x 125 / A					250	Z3070 / Ø 9,0 x 250 / A
				160	Z3070 / Ø 6,2 x 160 / A					315	Z3070 / Ø 9,0 x 315 / A
				200	Z3070 / Ø 6,2 x 200 / A					400	Z3070 / Ø 9,0 x 400 / A



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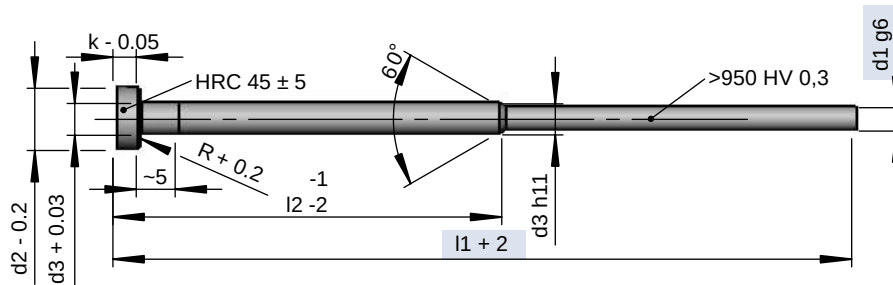
R	k	d2	d1	l1	Z3070 / d1 x l1 / A	R	k	d2	d1	l1	Z3070 / d1 x l1 / A
0,5	5,0	14,0	9,0	500	Z3070 / Ø 9,0 x 500 / A	0,8	7,0	18,0	12,5	125	Z3070 / Ø 12,5 x 125 / A
				630	Z3070 / Ø 9,0 x 630 / A					160	Z3070 / Ø 12,5 x 160 / A
0,5	5,0	16,0	10,0	100	Z3070 / Ø 10,0 x 100 / A					200	Z3070 / Ø 12,5 x 200 / A
				125	Z3070 / Ø 10,0 x 125 / A					250	Z3070 / Ø 12,5 x 250 / A
				160	Z3070 / Ø 10,0 x 160 / A					315	Z3070 / Ø 12,5 x 315 / A
				200	Z3070 / Ø 10,0 x 200 / A					400	Z3070 / Ø 12,5 x 400 / A
				250	Z3070 / Ø 10,0 x 250 / A					500	Z3070 / Ø 12,5 x 500 / A
				315	Z3070 / Ø 10,0 x 315 / A					630	Z3070 / Ø 12,5 x 630 / A
				400	Z3070 / Ø 10,0 x 400 / A					800	Z3070 / Ø 12,5 x 800 / A
				500	Z3070 / Ø 10,0 x 500 / A	0,8	7,0	22,0	14,0	100	Z3070 / Ø 14,0 x 100 / A
				630	Z3070 / Ø 10,0 x 630 / A					125	Z3070 / Ø 14,0 x 125 / A
				800	Z3070 / Ø 10,0 x 800 / A					160	Z3070 / Ø 14,0 x 160 / A
				1000	Z3070 / Ø 10,0 x 1000 / A					200	Z3070 / Ø 14,0 x 200 / A
0,5	5,0	16,0	10,2	100	Z3070 / Ø 10,2 x 100 / A					250	Z3070 / Ø 14,0 x 250 / A
				125	Z3070 / Ø 10,2 x 125 / A					315	Z3070 / Ø 14,0 x 315 / A
				160	Z3070 / Ø 10,2 x 160 / A					400	Z3070 / Ø 14,0 x 400 / A
				200	Z3070 / Ø 10,2 x 200 / A					500	Z3070 / Ø 14,0 x 500 / A
				250	Z3070 / Ø 10,2 x 250 / A					630	Z3070 / Ø 14,0 x 630 / A
				315	Z3070 / Ø 10,2 x 315 / A					800	Z3070 / Ø 14,0 x 800 / A
				400	Z3070 / Ø 10,2 x 400 / A					1000	Z3070 / Ø 14,0 x 1000 / A
				500	Z3070 / Ø 10,2 x 500 / A	0,8	7,0	22,0	16,0	100	Z3070 / Ø 16,0 x 100 / A
				630	Z3070 / Ø 10,2 x 630 / A					125	Z3070 / Ø 16,0 x 125 / A
0,5	5,0	16,0	10,5	100	Z3070 / Ø 10,5 x 100 / A					160	Z3070 / Ø 16,0 x 160 / A
				125	Z3070 / Ø 10,5 x 125 / A					200	Z3070 / Ø 16,0 x 200 / A
				160	Z3070 / Ø 10,5 x 160 / A					250	Z3070 / Ø 16,0 x 250 / A
				200	Z3070 / Ø 10,5 x 200 / A					315	Z3070 / Ø 16,0 x 315 / A
				250	Z3070 / Ø 10,5 x 250 / A					400	Z3070 / Ø 16,0 x 400 / A
				315	Z3070 / Ø 10,5 x 315 / A					500	Z3070 / Ø 16,0 x 500 / A
				400	Z3070 / Ø 10,5 x 400 / A					630	Z3070 / Ø 16,0 x 630 / A
				500	Z3070 / Ø 10,5 x 500 / A					800	Z3070 / Ø 16,0 x 800 / A
				630	Z3070 / Ø 10,5 x 630 / A					1000	Z3070 / Ø 16,0 x 1000 / A
0,5	5,0	16,0	11,0	100	Z3070 / Ø 11,0 x 100 / A	0,8	7,0	24,0	18,0	100	Z3070 / Ø 18,0 x 100 / A
				125	Z3070 / Ø 11,0 x 125 / A					125	Z3070 / Ø 18,0 x 125 / A
				160	Z3070 / Ø 11,0 x 160 / A					160	Z3070 / Ø 18,0 x 160 / A
				200	Z3070 / Ø 11,0 x 200 / A					200	Z3070 / Ø 18,0 x 200 / A
				250	Z3070 / Ø 11,0 x 250 / A					250	Z3070 / Ø 18,0 x 250 / A
				315	Z3070 / Ø 11,0 x 315 / A					315	Z3070 / Ø 18,0 x 315 / A
				400	Z3070 / Ø 11,0 x 400 / A					400	Z3070 / Ø 18,0 x 400 / A
				500	Z3070 / Ø 11,0 x 500 / A					500	Z3070 / Ø 18,0 x 500 / A
				630	Z3070 / Ø 11,0 x 630 / A					630	Z3070 / Ø 18,0 x 630 / A
0,8	7,0	18,0	12,0	100	Z3070 / Ø 12,0 x 100 / A					800	Z3070 / Ø 18,0 x 800 / A
				125	Z3070 / Ø 12,0 x 125 / A					1000	Z3070 / Ø 18,0 x 1000 / A
				160	Z3070 / Ø 12,0 x 160 / A	1,0	8,0	26,0	20,0	125	Z3070 / Ø 20,0 x 125 / A
				200	Z3070 / Ø 12,0 x 200 / A					160	Z3070 / Ø 20,0 x 160 / A
				250	Z3070 / Ø 12,0 x 250 / A					200	Z3070 / Ø 20,0 x 200 / A
				315	Z3070 / Ø 12,0 x 315 / A					250	Z3070 / Ø 20,0 x 250 / A
				400	Z3070 / Ø 12,0 x 400 / A					315	Z3070 / Ø 20,0 x 315 / A
				500	Z3070 / Ø 12,0 x 500 / A					400	Z3070 / Ø 20,0 x 400 / A
				630	Z3070 / Ø 12,0 x 630 / A					500	Z3070 / Ø 20,0 x 500 / A
				800	Z3070 / Ø 12,0 x 800 / A					630	Z3070 / Ø 20,0 x 630 / A
				1000	Z3070 / Ø 12,0 x 1000 / A					800	Z3070 / Ø 20,0 x 800 / A
0,8	7,0	18,0	12,2	100	Z3070 / Ø 12,2 x 100 / A					1000	Z3070 / Ø 20,0 x 1000 / A
				125	Z3070 / Ø 12,2 x 125 / A	1,0	10,0	32,0	25,0	160	Z3070 / Ø 25,0 x 160 / A
				160	Z3070 / Ø 12,2 x 160 / A					200	Z3070 / Ø 25,0 x 200 / A
				200	Z3070 / Ø 12,2 x 200 / A					250	Z3070 / Ø 25,0 x 250 / A
				250	Z3070 / Ø 12,2 x 250 / A					315	Z3070 / Ø 25,0 x 315 / A
				315	Z3070 / Ø 12,2 x 315 / A					400	Z3070 / Ø 25,0 x 400 / A
				400	Z3070 / Ø 12,2 x 400 / A					500	Z3070 / Ø 25,0 x 500 / A
				500	Z3070 / Ø 12,2 x 500 / A					630	Z3070 / Ø 25,0 x 630 / A
				630	Z3070 / Ø 12,2 x 630 / A					800	Z3070 / Ø 25,0 x 800 / A
0,8	7,0	18,0	12,5	100	Z3070 / Ø 12,5 x 100 / A					1000	Z3070 / Ø 25,0 x 1000 / A



**NITRIDED
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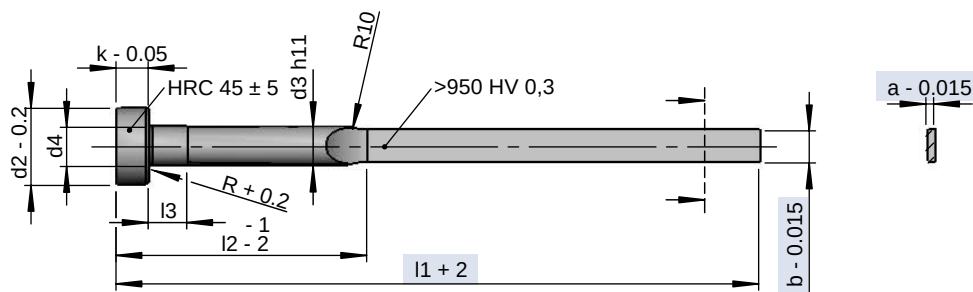
R	k	d2	d1	l1	Z3070 / d1 x l1 / A
1,0	10,0	40,0	32,0	200	Z3070 / Ø 32,0 x 200 / A
				250	Z3070 / Ø 32,0 x 250 / A
				315	Z3070 / Ø 32,0 x 315 / A
				400	Z3070 / Ø 32,0 x 400 / A
				500	Z3070 / Ø 32,0 x 500 / A
				630	Z3070 / Ø 32,0 x 630 / A
				800	Z3070 / Ø 32,0 x 800 / A
				1000	Z3070 / Ø 32,0 x 1000 / A

R	k	d2	d1	l1	Z3070 / d1 x l1 / A



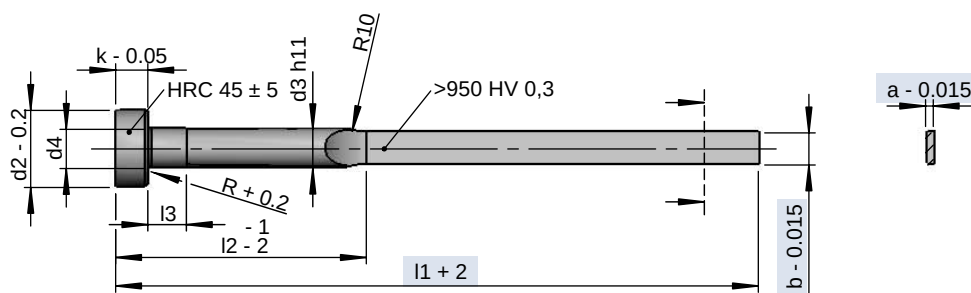
**NITRIDED
DIN 1530 (C)
Mat. 1.2343**

R	k	d2	d3	l2	d1	l1	Z3080 / d1 x l1 / C	R	k	d2	d3	l2	d1	l1	Z3080 / d1 x l1 / C
0,2	2,0	4,0	2,0	032	0,8	080	Z3080 / Ø 0,8 x 080 / C	0,3	3,0	6,0	3,0	063	2,0	160	Z3080 / Ø 2,0 x 160 / C
				050		100	Z3080 / Ø 0,8 x 100 / C					080		200	Z3080 / Ø 2,0 x 200 / C
				050		125	Z3080 / Ø 0,8 x 125 / C	0,3	3,0	6,0	3,0	032	2,1	080	Z3080 / Ø 2,1 x 080 / C
				063		160	Z3080 / Ø 0,8 x 160 / C					050		100	Z3080 / Ø 2,1 x 100 / C
0,2	2,0	4,0	2,0	032	0,9	080	Z3080 / Ø 0,9 x 080 / C					050		125	Z3080 / Ø 2,1 x 125 / C
				050		100	Z3080 / Ø 0,9 x 100 / C					063		160	Z3080 / Ø 2,1 x 160 / C
				050		125	Z3080 / Ø 0,9 x 125 / C					080		200	Z3080 / Ø 2,1 x 200 / C
				063		160	Z3080 / Ø 0,9 x 160 / C	0,3	3,0	6,0	3,0	032	2,2	080	Z3080 / Ø 2,2 x 080 / C
0,2	2,0	4,0	2,0	032	1,0	080	Z3080 / Ø 1,0 x 080 / C					050		100	Z3080 / Ø 2,2 x 100 / C
				050		100	Z3080 / Ø 1,0 x 100 / C					050		125	Z3080 / Ø 2,2 x 125 / C
				050		125	Z3080 / Ø 1,0 x 125 / C					063		160	Z3080 / Ø 2,2 x 160 / C
				063		160	Z3080 / Ø 1,0 x 160 / C					080		200	Z3080 / Ø 2,2 x 200 / C
				080		200	Z3080 / Ø 1,0 x 200 / C	0,3	3,0	6,0	3,0	032	2,3	080	Z3080 / Ø 2,3 x 080 / C
0,2	2,0	4,0	2,0	032	1,1	080	Z3080 / Ø 1,1 x 080 / C					050		100	Z3080 / Ø 2,3 x 100 / C
				050		100	Z3080 / Ø 1,1 x 100 / C					050		125	Z3080 / Ø 2,3 x 125 / C
				050		125	Z3080 / Ø 1,1 x 125 / C					063		160	Z3080 / Ø 2,3 x 160 / C
				063		160	Z3080 / Ø 1,1 x 160 / C					080		200	Z3080 / Ø 2,3 x 200 / C
				080		200	Z3080 / Ø 1,1 x 200 / C	0,3	3,0	6,0	3,0	032	2,4	080	Z3080 / Ø 2,4 x 080 / C
0,2	2,0	4,0	2,0	032	1,2	080	Z3080 / Ø 1,2 x 080 / C					050		100	Z3080 / Ø 2,4 x 100 / C
				050		100	Z3080 / Ø 1,2 x 100 / C					050		125	Z3080 / Ø 2,4 x 125 / C
				050		125	Z3080 / Ø 1,2 x 125 / C					063		160	Z3080 / Ø 2,4 x 160 / C
				063		160	Z3080 / Ø 1,2 x 160 / C					080		200	Z3080 / Ø 2,4 x 200 / C
				080		200	Z3080 / Ø 1,2 x 200 / C	0,3	3,0	6,0	3,0	050	2,5	100	Z3080 / Ø 2,5 x 100 / C
0,2	2,0	4,0	2,0	032	1,3	080	Z3080 / Ø 1,3 x 080 / C					050		125	Z3080 / Ø 2,5 x 125 / C
				050		100	Z3080 / Ø 1,3 x 100 / C					063		160	Z3080 / Ø 2,5 x 160 / C
				050		125	Z3080 / Ø 1,3 x 125 / C					080		200	Z3080 / Ø 2,5 x 200 / C
				063		160	Z3080 / Ø 1,3 x 160 / C								
				080		200	Z3080 / Ø 1,3 x 200 / C								
0,2	2,0	4,0	2,0	032	1,4	080	Z3080 / Ø 1,4 x 080 / C								
				050		100	Z3080 / Ø 1,4 x 100 / C								
				050		125	Z3080 / Ø 1,4 x 125 / C								
				063		160	Z3080 / Ø 1,4 x 160 / C								
				080		200	Z3080 / Ø 1,4 x 200 / C								
0,3	3,0	6,0	3,0	032	1,5	080	Z3080 / Ø 1,5 x 080 / C								
				050		100	Z3080 / Ø 1,5 x 100 / C								
				050		125	Z3080 / Ø 1,5 x 125 / C								
				063		160	Z3080 / Ø 1,5 x 160 / C								
				080		200	Z3080 / Ø 1,5 x 200 / C								
0,3	3,0	6,0	3,0	032	1,6	080	Z3080 / Ø 1,6 x 080 / C								
				050		100	Z3080 / Ø 1,6 x 100 / C								
				050		125	Z3080 / Ø 1,6 x 125 / C								
				063		160	Z3080 / Ø 1,6 x 160 / C								
				080		200	Z3080 / Ø 1,6 x 200 / C								
0,3	3,0	6,0	3,0	032	1,7	080	Z3080 / Ø 1,7 x 080 / C								
				050		100	Z3080 / Ø 1,7 x 100 / C								
				050		125	Z3080 / Ø 1,7 x 125 / C								
				063		160	Z3080 / Ø 1,7 x 160 / C								
				080		200	Z3080 / Ø 1,7 x 200 / C								
0,3	3,0	6,0	3,0	032	1,8	080	Z3080 / Ø 1,8 x 080 / C								
				050		100	Z3080 / Ø 1,8 x 100 / C								
				050		125	Z3080 / Ø 1,8 x 125 / C								
				063		160	Z3080 / Ø 1,8 x 160 / C								
				080		200	Z3080 / Ø 1,8 x 200 / C								
0,3	3,0	6,0	3,0	032	1,9	080	Z3080 / Ø 1,9 x 080 / C								
				050		100	Z3080 / Ø 1,9 x 100 / C								
				050		125	Z3080 / Ø 1,9 x 125 / C								
				063		160	Z3080 / Ø 1,9 x 160 / C								
				080		200	Z3080 / Ø 1,9 x 200 / C								
0,3	3,0	6,0	3,0	032	2,0	080	Z3080 / Ø 2,0 x 080 / C								
				050		100	Z3080 / Ø 2,0 x 100 / C								
				050		125	Z3080 / Ø 2,0 x 125 / C								



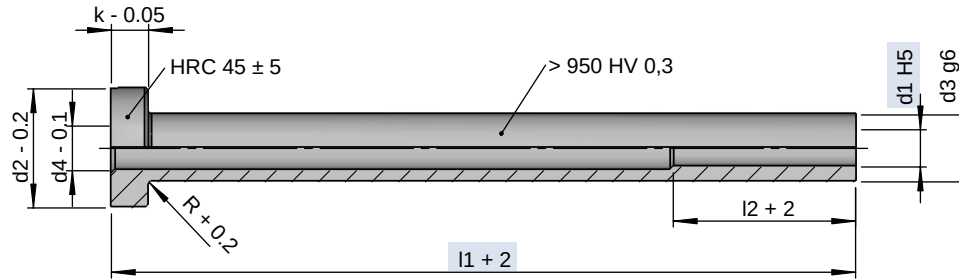
**NITRIDED
DIN 1530 (FA)
Mat. 1.2343**

d3	d2	d4	k	r1	l2	l3	a	b	l1	Z3090 / a x b x l1 / FA
4,2	8	d3 +0,03	3	0,3	32 40 50 63	5	0,8	3,8	63	Z3090 / 0,8 x 3,8 x 063 / FA
									80	Z3090 / 0,8 x 3,8 x 080 / FA
									100	Z3090 / 0,8 x 3,8 x 100 / FA
									125	Z3090 / 0,8 x 3,8 x 125 / FA
4,2	8	d3 +0,03	3	0,3	32 40 50 63	5	1,0	3,5	63	Z3090 / 1,0 x 3,5 x 063 / FA
									80	Z3090 / 1,0 x 3,5 x 080 / FA
									100	Z3090 / 1,0 x 3,5 x 100 / FA
									125	Z3090 / 1,0 x 3,5 x 125 / FA
4,2	8	d3 +0,03	3	0,3	32 40 50 63 80 100	5	1,0	3,8	63	Z3090 / 1,0 x 3,8 x 063 / FA
									80	Z3090 / 1,0 x 3,8 x 080 / FA
									100	Z3090 / 1,0 x 3,8 x 100 / FA
									125	Z3090 / 1,0 x 3,8 x 125 / FA
									160	Z3090 / 1,0 x 3,8 x 160 / FA
									200	Z3090 / 1,0 x 3,8 x 200 / FA
5,0	10	d3 +0,03	3	0,3	40 50 63 80 100	5	1,0	4,5	80	Z3090 / 1,0 x 4,5 x 080 / FA
									100	Z3090 / 1,0 x 4,5 x 100 / FA
									125	Z3090 / 1,0 x 4,5 x 125 / FA
									160	Z3090 / 1,0 x 4,5 x 160 / FA
									200	Z3090 / 1,0 x 4,5 x 200 / FA
6,0	12	d3 +0,03	5	0,5	40 50 63 80 100	6	1,0	5,5	80	Z3090 / 1,0 x 5,5 x 080 / FA
									100	Z3090 / 1,0 x 5,5 x 100 / FA
									125	Z3090 / 1,0 x 5,5 x 125 / FA
									160	Z3090 / 1,0 x 5,5 x 160 / FA
									200	Z3090 / 1,0 x 5,5 x 200 / FA
4,2	8	d3 +0,03	3	0,3	40 50 63 80	5	1,2	3,8	80	Z3090 / 1,2 x 3,8 x 080 / FA
									100	Z3090 / 1,2 x 3,8 x 100 / FA
									125	Z3090 / 1,2 x 3,8 x 125 / FA
									160	Z3090 / 1,2 x 3,8 x 160 / FA
5,0	10	d3 +0,03	3	0,3	40 50 63 80 100	5	1,2	4,5	80	Z3090 / 1,2 x 4,5 x 080 / FA
									100	Z3090 / 1,2 x 4,5 x 100 / FA
									125	Z3090 / 1,2 x 4,5 x 125 / FA
									160	Z3090 / 1,2 x 4,5 x 160 / FA
									200	Z3090 / 1,2 x 4,5 x 200 / FA
6,0	12	d3 +0,03	5	0,5	40 50 63 80 100	6	1,2	5,5	80	Z3090 / 1,2 x 5,5 x 080 / FA
									100	Z3090 / 1,2 x 5,5 x 100 / FA
									125	Z3090 / 1,2 x 5,5 x 125 / FA
									160	Z3090 / 1,2 x 5,5 x 160 / FA
									200	Z3090 / 1,2 x 5,5 x 200 / FA
8,0	14	d3 +0,03	5	0,5	50 63 80 100	8	1,2	7,5	100	Z3090 / 1,2 x 7,5 x 100 / FA
									125	Z3090 / 1,2 x 7,5 x 125 / FA
									160	Z3090 / 1,2 x 7,5 x 160 / FA
									200	Z3090 / 1,2 x 7,5 x 200 / FA
5,0	10	d3 +0,03	3	0,3	40 50 63 80 100	5	1,5	4,5	80	Z3090 / 1,5 x 4,5 x 080 / FA
									100	Z3090 / 1,5 x 4,5 x 100 / FA
									125	Z3090 / 1,5 x 4,5 x 125 / FA
									160	Z3090 / 1,5 x 4,5 x 160 / FA
									200	Z3090 / 1,5 x 4,5 x 200 / FA
6,0	12	d3 +0,03	5	0,5	50 63 80 100	6	1,5	5,5	100	Z3090 / 1,5 x 5,5 x 100 / FA
									125	Z3090 / 1,5 x 5,5 x 125 / FA
									160	Z3090 / 1,5 x 5,5 x 160 / FA
									200	Z3090 / 1,5 x 5,5 x 200 / FA
8,0	14	d3 +0,03	5	0,5	63 80 100 125	8	1,5	7,5	125	Z3090 / 1,5 x 7,5 x 125 / FA
									160	Z3090 / 1,5 x 7,5 x 160 / FA
									200	Z3090 / 1,5 x 7,5 x 200 / FA
									250	Z3090 / 1,5 x 7,5 x 250 / FA
10,0	16	d3 +0,04	5	0,5	80 100 125 160	10	1,5	9,5	160	Z3090 / 1,5 x 9,5 x 160 / FA
									200	Z3090 / 1,5 x 9,5 x 200 / FA
									250	Z3090 / 1,5 x 9,5 x 250 / FA
									315	Z3090 / 1,5 x 9,5 x 315 / FA
6,0	12	d3 +0,03	5	0,5	50 63	6	2,0	5,5	100	Z3090 / 2,0 x 5,5 x 100 / FA
									125	Z3090 / 2,0 x 5,5 x 125 / FA



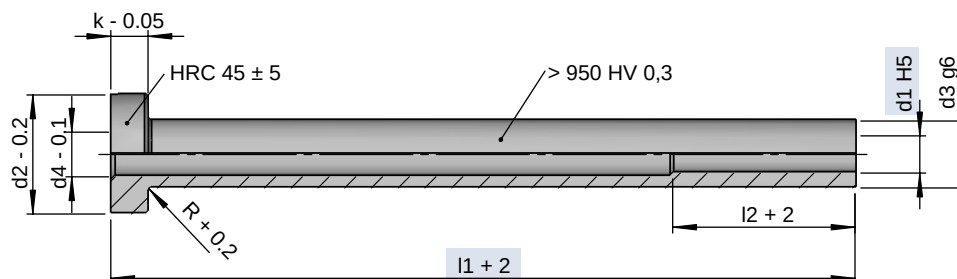
**NITRIDED
DIN 1530 (FA)
Mat. 1.2343**

d3	d2	d4	k	r1	l2	l3	a	b	l1	Z3090 / a x b x l1 / FA
6,0	12	d3 +0,03	5	0,5	80 100	6	2,0	5,5	160	Z3090 / 2,0 x 5,5 x 160 / FA
									200	Z3090 / 2,0 x 5,5 x 200 / FA
8,0	14	d3 +0,03	5	0,5	80 100 125 160	8	2,0	7,5	160	Z3090 / 2,0 x 7,5 x 160 / FA
									200	Z3090 / 2,0 x 7,5 x 200 / FA
									250	Z3090 / 2,0 x 7,5 x 250 / FA
									315	Z3090 / 2,0 x 7,5 x 315 / FA
10,0	16	d3 +0,04	5	0,5	100 125 160 200	10	2,0	9,5	200	Z3090 / 2,0 x 9,5 x 200 / FA
									250	Z3090 / 2,0 x 9,5 x 250 / FA
									315	Z3090 / 2,0 x 9,5 x 315 / FA
									400	Z3090 / 2,0 x 9,5 x 400 / FA
12,0	18	d3 +0,04	7	0,8	100 125 160 200	12	2,0	11,5	200	Z3090 / 2,0 x 11,5 x 200 / FA
									250	Z3090 / 2,0 x 11,5 x 250 / FA
									315	Z3090 / 2,0 x 11,5 x 315 / FA
									400	Z3090 / 2,0 x 11,5 x 400 / FA
16,0	22	d3 +0,04	7	0,8	100 125 160 200	16	2,0	15,5	200	Z3090 / 2,0 x 15,5 x 200 / FA
									250	Z3090 / 2,0 x 15,5 x 250 / FA
									315	Z3090 / 2,0 x 15,5 x 315 / FA
									400	Z3090 / 2,0 x 15,5 x 400 / FA
12,0	18	d3 +0,04	7	0,8	100 125 160 200	12	2,5	11,5	200	Z3090 / 2,5 x 11,5 x 200 / FA
									250	Z3090 / 2,5 x 11,5 x 250 / FA
									315	Z3090 / 2,5 x 11,5 x 315 / FA
									400	Z3090 / 2,5 x 11,5 x 400 / FA
16,0	22	d3 +0,04	7	0,8	125 160 200	16	2,5	15,5	250	Z3090 / 2,5 x 15,5 x 250 / FA
									315	Z3090 / 2,5 x 15,5 x 315 / FA
									400	Z3090 / 2,5 x 15,5 x 400 / FA



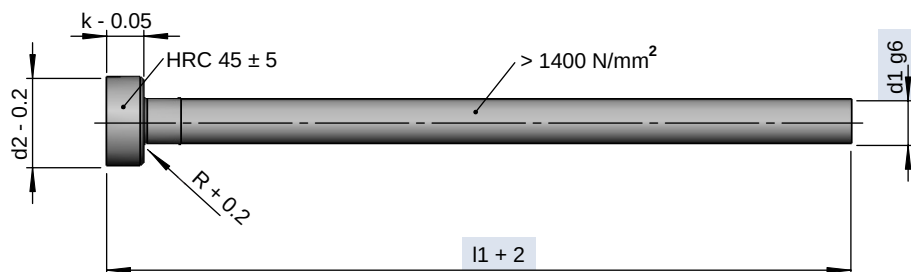
NITRIDED
DIN 16756
Mat. 1.2343

R	k	d2	d3	d4	l2	d1	l1	Z3100 / d1 / d3 x l1	R	k	d2	d3	d4	l2	d1	l1	Z3100 / d1 / d3 x l1
0,3	3	61,93,0			35	1,5	75	Z3100 / Ø 1,5 / 3,0 x 75	0,5	5	12	6,0	4,0	45	3,7	75	Z3100 / Ø 3,7 / 6,0 x 75
							100	Z3100 / Ø 1,5 / 3,0 x 100								100	Z3100 / Ø 3,7 / 6,0 x 100
							125	Z3100 / Ø 1,5 / 3,0 x 125								125	Z3100 / Ø 3,7 / 6,0 x 125
							150	Z3100 / Ø 1,5 / 3,0 x 150								150	Z3100 / Ø 3,7 / 6,0 x 150
0,3	3	61,93,0			35	1,6	75	Z3100 / Ø 1,6 / 3,0 x 75								175	Z3100 / Ø 3,7 / 6,0 x 175
							100	Z3100 / Ø 1,6 / 3,0 x 100								200	Z3100 / Ø 3,7 / 6,0 x 200
							125	Z3100 / Ø 1,6 / 3,0 x 125								225	Z3100 / Ø 3,7 / 6,0 x 225
							150	Z3100 / Ø 1,6 / 3,0 x 150								250	Z3100 / Ø 3,7 / 6,0 x 250
							175	Z3100 / Ø 1,6 / 3,0 x 175	0,5	5	12	6,0	4,3	45	4,0	75	Z3100 / Ø 4,0 / 6,0 x 75
0,3	3	82,44,0			35	2,0	75	Z3100 / Ø 2,0 / 4,0 x 75								100	Z3100 / Ø 4,0 / 6,0 x 100
							100	Z3100 / Ø 2,0 / 4,0 x 100								125	Z3100 / Ø 4,0 / 6,0 x 125
							125	Z3100 / Ø 2,0 / 4,0 x 125								150	Z3100 / Ø 4,0 / 6,0 x 150
							150	Z3100 / Ø 2,0 / 4,0 x 150								175	Z3100 / Ø 4,0 / 6,0 x 175
							175	Z3100 / Ø 2,0 / 4,0 x 175								200	Z3100 / Ø 4,0 / 6,0 x 200
							200	Z3100 / Ø 2,0 / 4,0 x 200								225	Z3100 / Ø 4,0 / 6,0 x 225
							225	Z3100 / Ø 2,0 / 4,0 x 225								250	Z3100 / Ø 4,0 / 6,0 x 250
0,3	3	82,44,0			35	2,2	75	Z3100 / Ø 2,2 / 4,0 x 75	0,5	5	14	8,0	4,5	45	4,2	75	Z3100 / Ø 4,2 / 8,0 x 75
							100	Z3100 / Ø 2,2 / 4,0 x 100								100	Z3100 / Ø 4,2 / 8,0 x 100
							125	Z3100 / Ø 2,2 / 4,0 x 125								125	Z3100 / Ø 4,2 / 8,0 x 125
							150	Z3100 / Ø 2,2 / 4,0 x 150								150	Z3100 / Ø 4,2 / 8,0 x 150
							175	Z3100 / Ø 2,2 / 4,0 x 175								175	Z3100 / Ø 4,2 / 8,0 x 175
							200	Z3100 / Ø 2,2 / 4,0 x 200								200	Z3100 / Ø 4,2 / 8,0 x 200
							225	Z3100 / Ø 2,2 / 4,0 x 225								225	Z3100 / Ø 4,2 / 8,0 x 225
0,3	3	10,95,0			35	2,5	75	Z3100 / Ø 2,5 / 5,0 x 75								250	Z3100 / Ø 4,2 / 8,0 x 250
							100	Z3100 / Ø 2,5 / 5,0 x 100	0,5	5	14	8,0	4,8	45	4,5	75	Z3100 / Ø 4,5 / 8,0 x 75
							125	Z3100 / Ø 2,5 / 5,0 x 125								100	Z3100 / Ø 4,5 / 8,0 x 100
							150	Z3100 / Ø 2,5 / 5,0 x 150								125	Z3100 / Ø 4,5 / 8,0 x 125
							175	Z3100 / Ø 2,5 / 5,0 x 175								150	Z3100 / Ø 4,5 / 8,0 x 150
							200	Z3100 / Ø 2,5 / 5,0 x 200								175	Z3100 / Ø 4,5 / 8,0 x 175
							225	Z3100 / Ø 2,5 / 5,0 x 225								200	Z3100 / Ø 4,5 / 8,0 x 200
0,3	3	10,05,0			35	2,7	75	Z3100 / Ø 2,7 / 5,0 x 75								225	Z3100 / Ø 4,5 / 8,0 x 225
							100	Z3100 / Ø 2,7 / 5,0 x 100								250	Z3100 / Ø 4,5 / 8,0 x 250
							125	Z3100 / Ø 2,7 / 5,0 x 125	0,5	5	14	8,0	5,3	45	5,0	75	Z3100 / Ø 5,0 / 8,0 x 75
							150	Z3100 / Ø 2,7 / 5,0 x 150								100	Z3100 / Ø 5,0 / 8,0 x 100
							175	Z3100 / Ø 2,7 / 5,0 x 175								125	Z3100 / Ø 5,0 / 8,0 x 125
							200	Z3100 / Ø 2,7 / 5,0 x 200								150	Z3100 / Ø 5,0 / 8,0 x 150
							225	Z3100 / Ø 2,7 / 5,0 x 225								175	Z3100 / Ø 5,0 / 8,0 x 175
0,3	3	10,35,0			45	3,0	75	Z3100 / Ø 3,0 / 5,0 x 75								200	Z3100 / Ø 5,0 / 8,0 x 200
							100	Z3100 / Ø 3,0 / 5,0 x 100								225	Z3100 / Ø 5,0 / 8,0 x 225
							125	Z3100 / Ø 3,0 / 5,0 x 125								250	Z3100 / Ø 5,0 / 8,0 x 250
							150	Z3100 / Ø 3,0 / 5,0 x 150	0,5	5	14	8,0	5,5	45	5,2	75	Z3100 / Ø 5,2 / 8,0 x 75
							175	Z3100 / Ø 3,0 / 5,0 x 175								100	Z3100 / Ø 5,2 / 8,0 x 100
							200	Z3100 / Ø 3,0 / 5,0 x 200								125	Z3100 / Ø 5,2 / 8,0 x 125
							225	Z3100 / Ø 3,0 / 5,0 x 225								150	Z3100 / Ø 5,2 / 8,0 x 150
							250	Z3100 / Ø 3,0 / 5,0 x 250								175	Z3100 / Ø 5,2 / 8,0 x 175
0,3	3	10,55,0			45	3,2	75	Z3100 / Ø 3,2 / 5,0 x 75								200	Z3100 / Ø 5,2 / 8,0 x 200
							100	Z3100 / Ø 3,2 / 5,0 x 100								225	Z3100 / Ø 5,2 / 8,0 x 225
							125	Z3100 / Ø 3,2 / 5,0 x 125								250	Z3100 / Ø 5,2 / 8,0 x 250
							150	Z3100 / Ø 3,2 / 5,0 x 150	0,5	5	14	8,0	5,8	45	5,5	75	Z3100 / Ø 5,5 / 8,0 x 75
							175	Z3100 / Ø 3,2 / 5,0 x 175								100	Z3100 / Ø 5,5 / 8,0 x 100
							200	Z3100 / Ø 3,2 / 5,0 x 200								125	Z3100 / Ø 5,5 / 8,0 x 125
							225	Z3100 / Ø 3,2 / 5,0 x 225								150	Z3100 / Ø 5,5 / 8,0 x 150
							250	Z3100 / Ø 3,2 / 5,0 x 250								175	Z3100 / Ø 5,5 / 8,0 x 175
0,5	5	12,96,0			45	3,5	75	Z3100 / Ø 3,5 / 6,0 x 75								200	Z3100 / Ø 5,5 / 8,0 x 200
							100	Z3100 / Ø 3,5 / 6,0 x 100								225	Z3100 / Ø 5,5 / 8,0 x 225
							125	Z3100 / Ø 3,5 / 6,0 x 125								250	Z3100 / Ø 5,5 / 8,0 x 250
							150	Z3100 / Ø 3,5 / 6,0 x 150									
							175	Z3100 / Ø 3,5 / 6,0 x 175									
							200	Z3100 / Ø 3,5 / 6,0 x 200									
							225	Z3100 / Ø 3,5 / 6,0 x 225									
							250	Z3100 / Ø 3,5 / 6,0 x 250									



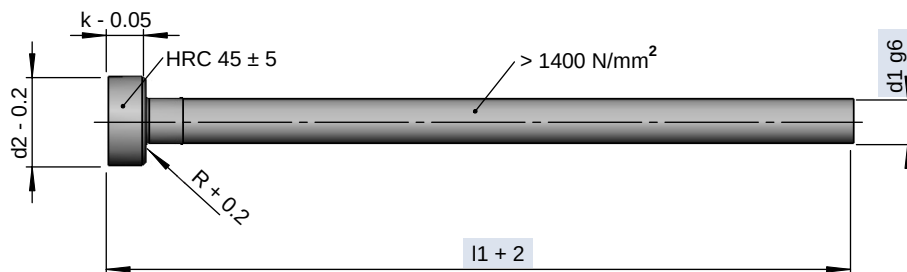
NITRIDED
DIN 16756
Mat. 1.2343

R	k	d2	d3	d4	l2	d1	l1	Z3100 / d1 / d3 x l1	R	k	d2	d3	d4	l2	d1	l1	Z3100 / d1 / d3 x l1
0,5	5	14	8,0	5,8	45	5,5	275	Z3100 / Ø 5,5 / 8,0 x 275									
0,5	5	16	10,0	6,3	45	6,0	75	Z3100 / Ø 6,0 / 10,0 x 75									
							100	Z3100 / Ø 6,0 / 10,0 x 100									
							125	Z3100 / Ø 6,0 / 10,0 x 125									
							150	Z3100 / Ø 6,0 / 10,0 x 150									
							175	Z3100 / Ø 6,0 / 10,0 x 175									
							200	Z3100 / Ø 6,0 / 10,0 x 200									
							225	Z3100 / Ø 6,0 / 10,0 x 225									
							250	Z3100 / Ø 6,0 / 10,0 x 250									
							275	Z3100 / Ø 6,0 / 10,0 x 275									
0,5	5	16	10,0	6,5	45	6,2	75	Z3100 / Ø 6,2 / 10,0 x 75									
							100	Z3100 / Ø 6,2 / 10,0 x 100									
							125	Z3100 / Ø 6,2 / 10,0 x 125									
							150	Z3100 / Ø 6,2 / 10,0 x 150									
							175	Z3100 / Ø 6,2 / 10,0 x 175									
							200	Z3100 / Ø 6,2 / 10,0 x 200									
							225	Z3100 / Ø 6,2 / 10,0 x 225									
							250	Z3100 / Ø 6,2 / 10,0 x 250									
							275	Z3100 / Ø 6,2 / 10,0 x 275									
0,8	7	20	12,0	8,3	45	8,0	75	Z3100 / Ø 8,0 / 12,0 x 75									
							100	Z3100 / Ø 8,0 / 12,0 x 100									
							125	Z3100 / Ø 8,0 / 12,0 x 125									
							150	Z3100 / Ø 8,0 / 12,0 x 150									
							175	Z3100 / Ø 8,0 / 12,0 x 175									
							200	Z3100 / Ø 8,0 / 12,0 x 200									
							225	Z3100 / Ø 8,0 / 12,0 x 225									
							250	Z3100 / Ø 8,0 / 12,0 x 250									
							275	Z3100 / Ø 8,0 / 12,0 x 275									
0,8	7	20	12,0	8,5	45	8,2	75	Z3100 / Ø 8,2 / 12,0 x 75									
							100	Z3100 / Ø 8,2 / 12,0 x 100									
							125	Z3100 / Ø 8,2 / 12,0 x 125									
							150	Z3100 / Ø 8,2 / 12,0 x 150									
							175	Z3100 / Ø 8,2 / 12,0 x 175									
							200	Z3100 / Ø 8,2 / 12,0 x 200									
							225	Z3100 / Ø 8,2 / 12,0 x 225									
							250	Z3100 / Ø 8,2 / 12,0 x 250									
							275	Z3100 / Ø 8,2 / 12,0 x 275									
0,8	7	22	14,0	10,5	45	10,0	100	Z3100 / Ø 10,0 / 14,0 x 100									
							125	Z3100 / Ø 10,0 / 14,0 x 125									
							150	Z3100 / Ø 10,0 / 14,0 x 150									
							175	Z3100 / Ø 10,0 / 14,0 x 175									
							200	Z3100 / Ø 10,0 / 14,0 x 200									
							225	Z3100 / Ø 10,0 / 14,0 x 225									
							250	Z3100 / Ø 10,0 / 14,0 x 250									
							275	Z3100 / Ø 10,0 / 14,0 x 275									
0,8	7	22	16,0	12,5	45	12,0	100	Z3100 / Ø 12,0 / 16,0 x 100									
							125	Z3100 / Ø 12,0 / 16,0 x 125									
							150	Z3100 / Ø 12,0 / 16,0 x 150									
							175	Z3100 / Ø 12,0 / 16,0 x 175									
							200	Z3100 / Ø 12,0 / 16,0 x 200									
							225	Z3100 / Ø 12,0 / 16,0 x 225									
							250	Z3100 / Ø 12,0 / 16,0 x 250									
							275	Z3100 / Ø 12,0 / 16,0 x 275									



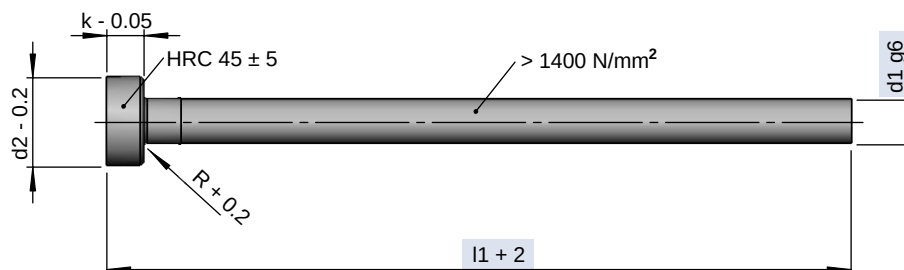
**UNNITRIDED
DIN 1530 (A)
Mat. 1.2343**

R	k	d2	d1	l1	Z3110 / d1 x l1 / A	R	k	d2	d1	l1	Z3110 / d1 x l1 / A
0,2	1,5	3,0	1,5	100	Z3110 / Ø 1,5 x 100 / A	0,3	3,0	8,0	4,2	125	Z3110 / Ø 4,2 x 125 / A
				125	Z3110 / Ø 1,5 x 125 / A					160	Z3110 / Ø 4,2 x 160 / A
				160	Z3110 / Ø 1,5 x 160 / A					315	Z3110 / Ø 4,2 x 315 / A
				200	Z3110 / Ø 1,5 x 200 / A					400	Z3110 / Ø 4,2 x 400 / A
0,2	2,0	4,0	2,0	100	Z3110 / Ø 2,0 x 100 / A	0,3	3,0	8,0	4,5	100	Z3110 / Ø 4,5 x 100 / A
				125	Z3110 / Ø 2,0 x 125 / A					125	Z3110 / Ø 4,5 x 125 / A
				160	Z3110 / Ø 2,0 x 160 / A					160	Z3110 / Ø 4,5 x 160 / A
				200	Z3110 / Ø 2,0 x 200 / A					200	Z3110 / Ø 4,5 x 200 / A
0,2	2,0	4,0	2,2	250	Z3110 / Ø 2,0 x 250 / A					250	Z3110 / Ø 4,5 x 250 / A
				100	Z3110 / Ø 2,2 x 100 / A					315	Z3110 / Ø 4,5 x 315 / A
				125	Z3110 / Ø 2,2 x 125 / A					400	Z3110 / Ø 4,5 x 400 / A
				160	Z3110 / Ø 2,2 x 160 / A	0,3	3,0	10,0	5,0	100	Z3110 / Ø 5,0 x 100 / A
0,3	2,0	5,0	2,5	200	Z3110 / Ø 2,2 x 200 / A					125	Z3110 / Ø 5,0 x 125 / A
				100	Z3110 / Ø 2,5 x 100 / A					160	Z3110 / Ø 5,0 x 160 / A
				125	Z3110 / Ø 2,5 x 125 / A					200	Z3110 / Ø 5,0 x 200 / A
				160	Z3110 / Ø 2,5 x 160 / A					250	Z3110 / Ø 5,0 x 250 / A
0,3	2,0	5,0	2,5	200	Z3110 / Ø 2,5 x 200 / A					315	Z3110 / Ø 5,0 x 315 / A
				250	Z3110 / Ø 2,5 x 250 / A					400	Z3110 / Ø 5,0 x 400 / A
				315	Z3110 / Ø 2,5 x 315 / A					500	Z3110 / Ø 5,0 x 500 / A
				100	Z3110 / Ø 2,7 x 100 / A	0,3	3,0	10,0	5,2	630	Z3110 / Ø 5,0 x 630 / A
0,3	2,0	5,0	2,7	125	Z3110 / Ø 2,7 x 125 / A					100	Z3110 / Ø 5,2 x 100 / A
				160	Z3110 / Ø 2,7 x 160 / A					125	Z3110 / Ø 5,2 x 125 / A
				200	Z3110 / Ø 2,7 x 200 / A					160	Z3110 / Ø 5,2 x 160 / A
				250	Z3110 / Ø 2,7 x 250 / A					200	Z3110 / Ø 5,2 x 200 / A
0,3	3,0	6,0	3,0	315	Z3110 / Ø 2,7 x 315 / A					250	Z3110 / Ø 5,2 x 250 / A
				100	Z3110 / Ø 3,0 x 100 / A					315	Z3110 / Ø 5,2 x 315 / A
				125	Z3110 / Ø 3,0 x 125 / A					400	Z3110 / Ø 5,2 x 400 / A
				160	Z3110 / Ø 3,0 x 160 / A					500	Z3110 / Ø 5,2 x 500 / A
0,3	3,0	6,0	3,0	200	Z3110 / Ø 3,0 x 200 / A	0,3	3,0	10,0	5,5	100	Z3110 / Ø 5,5 x 100 / A
				250	Z3110 / Ø 3,0 x 250 / A					125	Z3110 / Ø 5,5 x 125 / A
				315	Z3110 / Ø 3,0 x 315 / A					160	Z3110 / Ø 5,5 x 160 / A
				400	Z3110 / Ø 3,0 x 400 / A					200	Z3110 / Ø 5,5 x 200 / A
0,3	3,0	6,0	3,2	500	Z3110 / Ø 3,0 x 500 / A					250	Z3110 / Ø 5,5 x 250 / A
				100	Z3110 / Ø 3,2 x 100 / A					315	Z3110 / Ø 5,5 x 315 / A
				125	Z3110 / Ø 3,2 x 125 / A					400	Z3110 / Ø 5,5 x 400 / A
				160	Z3110 / Ø 3,2 x 160 / A					500	Z3110 / Ø 5,5 x 500 / A
0,3	3,0	6,0	3,2	250	Z3110 / Ø 3,2 x 250 / A	0,5	5,0	12,0	6,0	100	Z3110 / Ø 6,0 x 100 / A
				315	Z3110 / Ø 3,2 x 315 / A					125	Z3110 / Ø 6,0 x 125 / A
				400	Z3110 / Ø 3,2 x 400 / A					160	Z3110 / Ø 6,0 x 160 / A
				100	Z3110 / Ø 3,5 x 100 / A					200	Z3110 / Ø 6,0 x 200 / A
0,3	3,0	7,0	3,5	125	Z3110 / Ø 3,5 x 125 / A					250	Z3110 / Ø 6,0 x 250 / A
				160	Z3110 / Ø 3,5 x 160 / A					315	Z3110 / Ø 6,0 x 315 / A
				250	Z3110 / Ø 3,5 x 250 / A					400	Z3110 / Ø 6,0 x 400 / A
				315	Z3110 / Ø 3,5 x 315 / A					500	Z3110 / Ø 6,0 x 500 / A
0,3	3,0	7,0	3,5	400	Z3110 / Ø 3,5 x 400 / A					630	Z3110 / Ø 6,0 x 630 / A
				100	Z3110 / Ø 3,7 x 100 / A	0,5	5,0	12,0	6,2	100	Z3110 / Ø 6,2 x 100 / A
				125	Z3110 / Ø 3,7 x 125 / A					125	Z3110 / Ø 6,2 x 125 / A
				160	Z3110 / Ø 3,7 x 160 / A					160	Z3110 / Ø 6,2 x 160 / A
0,3	3,0	7,0	3,7	200	Z3110 / Ø 3,7 x 200 / A					200	Z3110 / Ø 6,2 x 200 / A
				250	Z3110 / Ø 3,7 x 250 / A					250	Z3110 / Ø 6,2 x 250 / A
				315	Z3110 / Ø 3,7 x 315 / A					315	Z3110 / Ø 6,2 x 315 / A
				400	Z3110 / Ø 3,7 x 400 / A					500	Z3110 / Ø 6,2 x 500 / A
0,3	3,0	8,0	4,0	100	Z3110 / Ø 4,0 x 100 / A	0,5	5,0	12,0	6,5	100	Z3110 / Ø 6,5 x 100 / A
				125	Z3110 / Ø 4,0 x 125 / A					125	Z3110 / Ø 6,5 x 125 / A
				160	Z3110 / Ø 4,0 x 160 / A					160	Z3110 / Ø 6,5 x 160 / A
				200	Z3110 / Ø 4,0 x 200 / A					200	Z3110 / Ø 6,5 x 200 / A
0,3	3,0	8,0	4,0	250	Z3110 / Ø 4,0 x 250 / A					315	Z3110 / Ø 6,5 x 315 / A
				315	Z3110 / Ø 4,0 x 315 / A					400	Z3110 / Ø 6,5 x 400 / A
				400	Z3110 / Ø 4,0 x 400 / A					500	Z3110 / Ø 6,5 x 500 / A
				500	Z3110 / Ø 4,0 x 500 / A	0,5	5,0	12,0	7,0	100	Z3110 / Ø 7,0 x 100 / A
0,3	3,0	8,0	4,2	100	Z3110 / Ø 4,2 x 100 / A					125	Z3110 / Ø 7,0 x 125 / A



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R	k	d2	d1	l1	Z3110 / d1 x l1 / A	R	k	d2	d1	l1	Z3110 / d1 x l1 / A
0,5	5,0	12,0	7,0	160	Z3110 / Ø 7,0 x 160 / A	0,5	5,0	16,0	10,5	160	Z3110 / Ø 10,5 x 160 / A
				200	Z3110 / Ø 7,0 x 200 / A					200	Z3110 / Ø 10,5 x 200 / A
				250	Z3110 / Ø 7,0 x 250 / A					250	Z3110 / Ø 10,5 x 250 / A
				315	Z3110 / Ø 7,0 x 315 / A					315	Z3110 / Ø 10,5 x 315 / A
				400	Z3110 / Ø 7,0 x 400 / A					400	Z3110 / Ø 10,5 x 400 / A
				500	Z3110 / Ø 7,0 x 500 / A					500	Z3110 / Ø 10,5 x 500 / A
				630	Z3110 / Ø 7,0 x 630 / A					630	Z3110 / Ø 10,5 x 630 / A
0,5	5,0	14,0	8,0	100	Z3110 / Ø 8,0 x 100 / A	0,5	5,0	16,0	11,0	100	Z3110 / Ø 11,0 x 100 / A
				125	Z3110 / Ø 8,0 x 125 / A					125	Z3110 / Ø 11,0 x 125 / A
				160	Z3110 / Ø 8,0 x 160 / A					160	Z3110 / Ø 11,0 x 160 / A
				200	Z3110 / Ø 8,0 x 200 / A					200	Z3110 / Ø 11,0 x 200 / A
				250	Z3110 / Ø 8,0 x 250 / A					250	Z3110 / Ø 11,0 x 250 / A
				315	Z3110 / Ø 8,0 x 315 / A					315	Z3110 / Ø 11,0 x 315 / A
				400	Z3110 / Ø 8,0 x 400 / A					400	Z3110 / Ø 11,0 x 400 / A
0,5	5,0	14,0	8,2	500	Z3110 / Ø 8,0 x 500 / A					500	Z3110 / Ø 11,0 x 500 / A
				630	Z3110 / Ø 8,0 x 630 / A					630	Z3110 / Ø 11,0 x 630 / A
				100	Z3110 / Ø 8,2 x 100 / A	0,8	7,0	18,0	12,0	100	Z3110 / Ø 12,0 x 100 / A
				125	Z3110 / Ø 8,2 x 125 / A					125	Z3110 / Ø 12,0 x 125 / A
				160	Z3110 / Ø 8,2 x 160 / A					160	Z3110 / Ø 12,0 x 160 / A
				200	Z3110 / Ø 8,2 x 200 / A					200	Z3110 / Ø 12,0 x 200 / A
				250	Z3110 / Ø 8,2 x 250 / A					250	Z3110 / Ø 12,0 x 250 / A
				315	Z3110 / Ø 8,2 x 315 / A					315	Z3110 / Ø 12,0 x 315 / A
				400	Z3110 / Ø 8,2 x 400 / A					400	Z3110 / Ø 12,0 x 400 / A
0,5	5,0	14,0	8,5	500	Z3110 / Ø 8,2 x 500 / A					500	Z3110 / Ø 12,0 x 500 / A
				630	Z3110 / Ø 8,2 x 630 / A					630	Z3110 / Ø 12,0 x 630 / A
				100	Z3110 / Ø 8,5 x 100 / A	0,8	7,0	18,0	12,2	250	Z3110 / Ø 12,2 x 250 / A
				125	Z3110 / Ø 8,5 x 125 / A					100	Z3110 / Ø 12,5 x 100 / A
				160	Z3110 / Ø 8,5 x 160 / A					160	Z3110 / Ø 12,5 x 160 / A
				200	Z3110 / Ø 8,5 x 200 / A					200	Z3110 / Ø 12,5 x 200 / A
				250	Z3110 / Ø 8,5 x 250 / A					250	Z3110 / Ø 12,5 x 250 / A
				315	Z3110 / Ø 8,5 x 315 / A					315	Z3110 / Ø 12,5 x 315 / A
				400	Z3110 / Ø 8,5 x 400 / A					400	Z3110 / Ø 12,5 x 400 / A
0,5	5,0	14,0	9,0	500	Z3110 / Ø 8,5 x 500 / A					500	Z3110 / Ø 12,5 x 500 / A
				630	Z3110 / Ø 8,5 x 630 / A					630	Z3110 / Ø 12,5 x 630 / A
				100	Z3110 / Ø 9,0 x 100 / A	0,8	7,0	22,0	14,0	100	Z3110 / Ø 14,0 x 100 / A
				125	Z3110 / Ø 9,0 x 125 / A					125	Z3110 / Ø 14,0 x 125 / A
				160	Z3110 / Ø 9,0 x 160 / A					160	Z3110 / Ø 14,0 x 160 / A
				200	Z3110 / Ø 9,0 x 200 / A					200	Z3110 / Ø 14,0 x 200 / A
				250	Z3110 / Ø 9,0 x 250 / A					250	Z3110 / Ø 14,0 x 250 / A
				315	Z3110 / Ø 9,0 x 315 / A					315	Z3110 / Ø 14,0 x 315 / A
				400	Z3110 / Ø 9,0 x 400 / A					400	Z3110 / Ø 14,0 x 400 / A
0,5	5,0	14,0	9,0	500	Z3110 / Ø 9,0 x 500 / A					500	Z3110 / Ø 14,0 x 500 / A
				630	Z3110 / Ø 9,0 x 630 / A					630	Z3110 / Ø 14,0 x 630 / A
				100	Z3110 / Ø 10,0 x 100 / A	0,8	7,0	22,0	16,0	100	Z3110 / Ø 16,0 x 100 / A
				125	Z3110 / Ø 10,0 x 125 / A					125	Z3110 / Ø 16,0 x 125 / A
				160	Z3110 / Ø 10,0 x 160 / A					160	Z3110 / Ø 16,0 x 160 / A
				200	Z3110 / Ø 10,0 x 200 / A					200	Z3110 / Ø 16,0 x 200 / A
				250	Z3110 / Ø 10,0 x 250 / A					250	Z3110 / Ø 16,0 x 250 / A
				400	Z3110 / Ø 10,0 x 400 / A					400	Z3110 / Ø 16,0 x 400 / A
				500	Z3110 / Ø 10,0 x 500 / A					500	Z3110 / Ø 16,0 x 500 / A
0,5	5,0	16,0	10,0	630	Z3110 / Ø 10,0 x 630 / A					630	Z3110 / Ø 16,0 x 630 / A
				100	Z3110 / Ø 10,2 x 100 / A	0,8	7,0	24,0	18,0	100	Z3110 / Ø 18,0 x 100 / A
				160	Z3110 / Ø 10,2 x 160 / A					125	Z3110 / Ø 18,0 x 125 / A
				200	Z3110 / Ø 10,2 x 200 / A					160	Z3110 / Ø 18,0 x 160 / A
				250	Z3110 / Ø 10,2 x 250 / A					200	Z3110 / Ø 18,0 x 200 / A
				315	Z3110 / Ø 10,2 x 315 / A					250	Z3110 / Ø 18,0 x 250 / A
				400	Z3110 / Ø 10,2 x 400 / A					315	Z3110 / Ø 18,0 x 315 / A
				500	Z3110 / Ø 10,2 x 500 / A					500	Z3110 / Ø 18,0 x 500 / A
0,5	5,0	16,0	10,2	630	Z3110 / Ø 10,2 x 630 / A	1,0	8,0	26,0	20,0	125	Z3110 / Ø 20,0 x 125 / A
				100	Z3110 / Ø 10,5 x 100 / A					160	Z3110 / Ø 20,0 x 160 / A
				125	Z3110 / Ø 10,5 x 125 / A					200	Z3110 / Ø 20,0 x 200 / A



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R	k	d2	d1	l1	Z3110 / d1 x l1 / A
1,0	8,0	26,0	20,0	250	Z3110 / Ø 20,0 x 250 / A
				315	Z3110 / Ø 20,0 x 315 / A
				400	Z3110 / Ø 20,0 x 400 / A
				500	Z3110 / Ø 20,0 x 500 / A
				630	Z3110 / Ø 20,0 x 630 / A
1,0	10,0	32,0	25,0	160	Z3110 / Ø 25,0 x 160 / A
				200	Z3110 / Ø 25,0 x 200 / A
				250	Z3110 / Ø 25,0 x 250 / A
				315	Z3110 / Ø 25,0 x 315 / A
				400	Z3110 / Ø 25,0 x 400 / A
				500	Z3110 / Ø 25,0 x 500 / A
1,0	10,0	40,0	32,0	630	Z3110 / Ø 25,0 x 630 / A
				200	Z3110 / Ø 32,0 x 200 / A
				250	Z3110 / Ø 32,0 x 250 / A
				315	Z3110 / Ø 32,0 x 315 / A
1,0	10,0	40,0	400	400	Z3110 / Ø 32,0 x 400 / A

R	k	d2	d1	l1	Z3110 / d1 x l1 / A

