



ID und OD Fasen
ID and OD chamfers

S ₃	C _o	C _i	β
1,0	0.6±0.3	0.30±0.2	30°±5°
1,5	0.7±0.3	0.50±0.2	30°±5°

S ₃	C _o	C _i	β
2,0	1.2±0.4	0.50±0.3	30°±5°
2,5	1.8±0.6	0.80±0.3	45°±5°

Einheit mm
Unit: mm

Welle Shaft (h8) D _s	Gehäuse Housing (H7) D _H	(OD) Toleranz Tolerance D _O	(ID) Montiert After fixed D _{ia}	Lager-spiel Clearance D _D	Wand- stärke Wall- thickness S ₃	Schmier- loch Oil hole d _L	L ⁰ -0.40										
							10	15	20	25	30	35	40	45	50	60	
10 _{-0.022}	12 ^{+0.018}	12 ^{+0.065} _{+0.030}	10.108 10.040	0.130 0.040	0.980 0.955	4	1010	1015	1020								
12 _{-0.027}	14 ^{+0.018}	14 ^{+0.065} _{+0.030}	12.108 12.040	0.135 0.040			1210	1215	1220								
14 _{-0.027}	16 ^{+0.018}	16 ^{+0.065} _{+0.030}	14.108 14.040					1415	1420								
15 _{-0.027}	17 ^{+0.018}	17 ^{+0.065} _{+0.030}	15.108 15.040					1515	1520	1525							
16 _{-0.027}	18 ^{+0.018}	18 ^{+0.065} _{+0.030}	16.108 16.040					1615	1620	1625							
18 _{-0.027}	20 ^{+0.021}	20 ^{+0.075} _{+0.035}	18.111 18.040				0.138 0.040	1815	1820	1825							
20 _{-0.033}	23 ^{+0.021}	23 ^{+0.075} _{+0.035}	20.131 20.050	0.164 0.050	1.475 1.445	6		2015	2020	2025	2030						
22 _{-0.033}	25 ^{+0.021}	25 ^{+0.075} _{+0.035}	22.131 22.050					2215	2220	2225	2230						
25 _{-0.033}	28 ^{+0.021}	28 ^{+0.075} _{+0.035}	25.131 25.050					2515	2520	2525	2530						
28 _{-0.033}	32 ^{+0.025}	32 ^{+0.085} _{+0.045}	28.155 28.060	0.188 0.060				2820	2825	2830							
30 _{-0.033}	34 ^{+0.025}	34 ^{+0.085} _{+0.045}	30.155 30.060					3020	3025	3030	3035	3040					
35 _{-0.039}	39 ^{+0.025}	39 ^{+0.085} _{+0.045}	35.155 35.060	0.194 0.060	1.970 1.935		8			3520	3525	3530	3535	3540			
40 _{-0.039}	44 ^{+0.025}	44 ^{+0.085} _{+0.045}	40.155 40.060						4020	4025	4030	4035	4040	4045	4050		
45 _{-0.039}	50 ^{+0.025}	50 ^{+0.085} _{+0.045}	45.195 45.080	0.234 0.080					4520	4525	4530	4535	4540	4545	4550		
50 _{-0.039}	55 ^{+0.030}	55 ^{+0.100} _{+0.055}	50.200 50.080	0.239 0.080	2.460 2.415	8						5030	5035	5040	5045	5050	5060
55 _{-0.046}	60 ^{+0.030}	60 ^{+0.100} _{+0.055}	55.200 55.080	0.246 0.080								5530	5535	5540	5545	5550	5560
60 _{-0.046}	65 ^{+0.030}	65 ^{+0.100} _{+0.055}	60.200 60.080									6030	6035	6040	6045	6050	6060

Einheit mm
Unit: mm

Welle Shaft (h8) D _s	Gehäuse Housing (H7) D _H	(OD) Toleranz Tolerance D _O	(ID) Montiert After fixed D _{ia}	Lager-spiel Clearance D _O	Wand- stärke Wall- thickness S ₃	Schmier- loch Oil hole d _L	L ⁰ -0.40								
							40	50	60	80	90	95	100	110	120
65 _{-0.046}	70 _{+0.030}	70 _{+0.100 +0.055}	65.200 65.080	0.246 0.080	2.460 2.415	8	6540	6550	6560						
70 _{-0.046}	75 _{+0.030}	75 _{+0.100 +0.055}	70.200 70.080				7040	7050	7060	7080					
75 _{-0.046}	80 _{+0.030}	80 _{+0.100 +0.055}	75.200 75.080				7540	7550	7560	7580					
80 _{-0.046}	85 _{+0.035}	85 _{+0.120 +0.070}	80.265 80.100	0.313 0.100	2.450 2.385	9.5	8040	8050	8060	8080					
85 _{-0.054}	90 _{+0.035}	90 _{+0.120 +0.070}	85.265 85.100	8540			8550	8560	8580						
90 _{-0.054}	95 _{+0.035}	95 _{+0.120 +0.070}	90.265 90.100	9040			9050	9060	9080	9090					
100 _{-0.054}	105 _{+0.035}	105 _{+0.120 +0.070}	100.265 100.100				10050	10060	10080	10090	10095				
105 _{-0.054}	110 _{+0.035}	110 _{+0.120 +0.070}	105.265 105.100				10550	10560	10580	10590	10595	105100	105110		
110 _{-0.054}	115 _{+0.035}	115 _{+0.120 +0.070}	110.265 110.110				11050	11060	11080	11090	11095	110100	110110		
120 _{-0.054}	125 _{+0.040}	125 _{+0.170 +0.100}	120.270 120.110	0.324 0.100			12050	12060	12080	12090	12095	120100	120110		
125 _{-0.063}	130 _{+0.040}	130 _{+0.170 +0.100}	125.270 125.110				12550	12560	12580	12590	12595	125100	125110		
130 _{-0.063}	135 _{+0.040}	135 _{+0.170 +0.100}	130.270 130.110				13050	13060	13080	13090	13095	130100	130110		
140 _{-0.063}	145 _{+0.040}	145 _{+0.170 +0.100}	140.270 140.110				14050	14060	14080	14090	14095	140100	140110		
150 _{-0.063}	155 _{+0.040}	155 _{+0.170 +0.100}	150.270 150.110				15050	15060	15080	15090	15095	150100	150110		
160 _{-0.063}	165 _{+0.040}	165 _{+0.170 +0.100}	160.270 160.110			9.5	16050	16060	16080	16090	16095	160100	160110		
170 _{-0.063}	175 _{+0.040}	175 _{+0.170 +0.100}	170.270 170.110	17050			17060	17080	17090	17095	170100	170110			
180 _{-0.063}	185 _{+0.046}	185 _{+0.210 +0.130}	180.276 180.110	18050			18060	18080	18090	18095	180100	180110			
190 _{-0.072}	195 _{+0.046}	195 _{+0.210 +0.130}	190.276 190.110	19050			19060	19080	19090	19095	190100	190110	190120		
200 _{-0.072}	205 _{+0.046}	205 _{+0.210 +0.130}	200.276 200.110	20050			20060	20080	20090	20095	200100	200110	200120		
220 _{-0.072}	225 _{+0.046}	225 _{+0.210 +0.130}	220.276 220.110	0.339 0.110		9.5	22050	22060	22080	22090	22095	220100	220110	220120	
240 _{-0.072}	245 _{+0.046}	245 _{+0.210 +0.130}	240.276 240.110				24050	24060	24080	24090	24095	240100	240110	240120	
250 _{-0.072}	255 _{+0.052}	255 _{+0.260 +0.170}	250.282 250.110				25050	25060	25080	25090	25095	250100	250110	250120	
260 _{-0.081}	265 _{+0.052}	265 _{+0.260 +0.170}	260.282 260.110				26050	26060	26080	26090	26095	260100	260110	260120	
280 _{-0.081}	285 _{+0.052}	285 _{+0.260 +0.170}	280.282 280.110				28050	28060	28080	28090	28095	280100	280110	280120	
300 _{-0.081}	305 _{+0.052}	305 _{+0.260 +0.170}	300.282 300.110				30050	30060	30080	30090	30095	300100	300110	300120	

Bestellbeispiel:

Order example:

P20 Material, ID=Ø10 mm, L=20 mm -> PAP-1020-P20

P20 Material, ID=Ø50 mm, L=30 mm -> PAP-5030-P20

Sturm Präzision GmbH

Hochstraße 3 · D-78727 Oberndorf - Hochmössingen

info@sturm-praezision.de - www.sturm-praezision.de

Tel: +49 7423-8693-0