



BY



STANDARD ELEMENTS FOR MOLDS

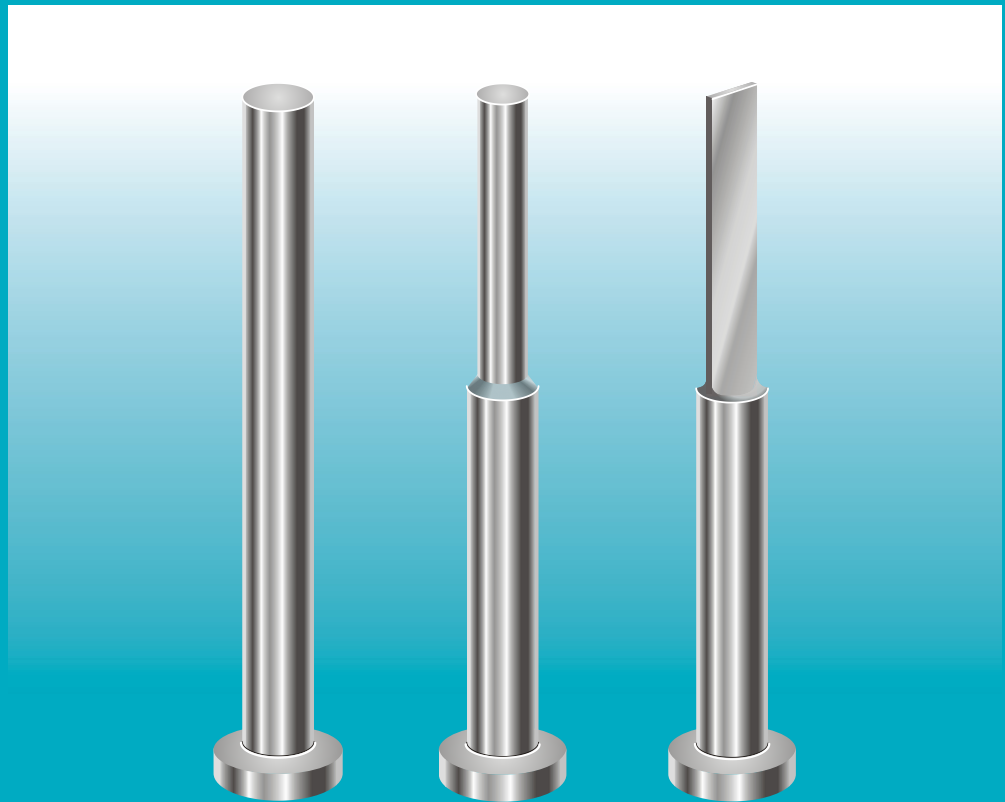


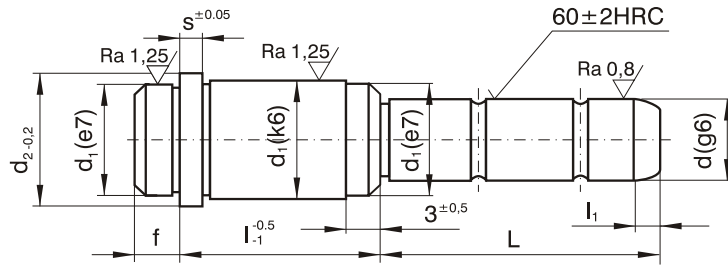
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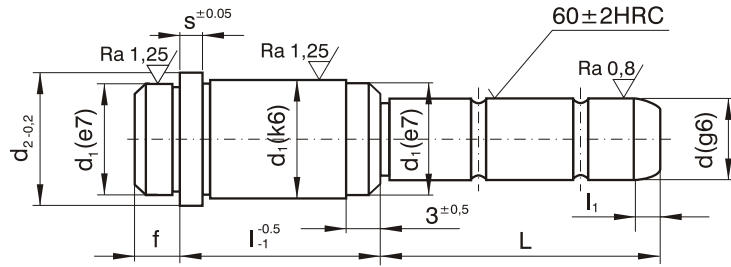
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SLE

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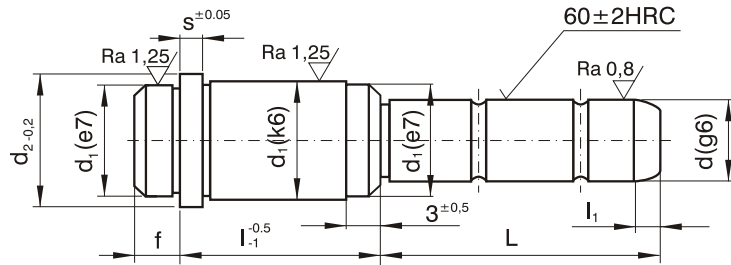
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SLE

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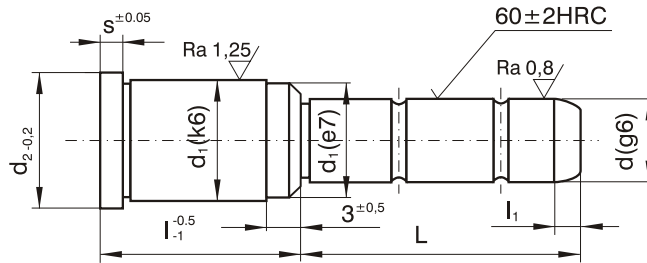


SLE

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	195	SLE-40056195	SLE-42056195												
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SXE

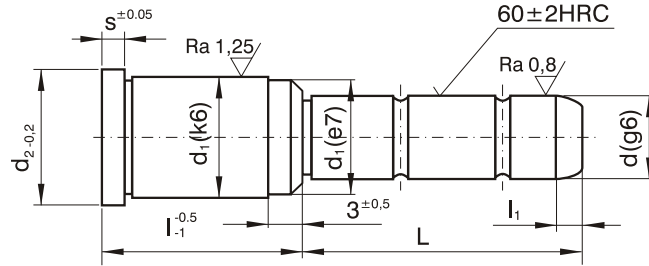


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						45	SXE-09036045	SXE-10036045	
					46	30	SXE-09046030	SXE-10046030	
						45	SXE-09046045	SXE-10046045	
					56	35	SXE-09056035	SXE-10056035	
						60	SXE-09056060	SXE-10056060	
					14/15	20	25	6	7
55	SXE-14017055	SXE-15017055							
75	SXE-14017075	SXE-15017075							
95	SXE-14017095	SXE-15017095							
22	20	SXE-14022020	SXE-15022020						
	35	SXE-14022035	SXE-15022035						
	40	SXE-14022040	SXE-15022040						
	45	SXE-14022045	SXE-15022045						
	50	SXE-14022050	SXE-15022050						
	55	SXE-14022055	SXE-15022055						
	65	SXE-14022065	SXE-15022065						
	70	SXE-14022070	SXE-15022070						
	90	SXE-14022090	SXE-15022090						
	110	SXE-14022110	SXE-15022110						
	27	20	SXE-14027020	SXE-15027020					
		35	SXE-14027035	SXE-15027035					
		40	SXE-14027040	SXE-15027040					
		45	SXE-14027045	SXE-15027045					
55		SXE-14027055	SXE-15027055						
65		SXE-14027065	SXE-15027065						
85		SXE-14027085	SXE-15027085						
105		SXE-14027105	SXE-15027105						
36		20	SXE-14036020	SXE-15036020					
		35	SXE-14036035	SXE-15036035					
	40	SXE-14036040	SXE-15036040						
	45	SXE-14036045	SXE-15036045						
	55	SXE-14036055	SXE-15036055						
	65	SXE-14036065	SXE-15036065						
	75	SXE-14036075	SXE-15036075						
	95	SXE-14036095	SXE-15036095						
46	20	SXE-14046020	SXE-15046020						

d	d ₁	d ₂	s	l ₁	l	L	PART NO.	PART NO.
14/15	20	25	6	7	46	35	SXE-14046035	SXE-15046035
						45	SXE-14046045	SXE-15046045
						65	SXE-14046065	SXE-15046065
						85	SXE-14046085	SXE-15046085
						105	SXE-14046105	SXE-15046105
						56	20	SXE-14056020
					35		SXE-14056035	SXE-15056035
					55		SXE-14056055	SXE-15056055
					75		SXE-14056075	SXE-15056075
					66	55	SXE-14066055	SXE-15066055
						65	SXE-14066065	SXE-15066065
						95	SXE-14066095	SXE-15066095
						76	55	SXE-14076055
					95	55	SXE-14076095	SXE-15076095
86	55	SXE-14086055	SXE-15086055					
95	55	SXE-14086095	SXE-15086095					
	18/20	26	31	6	7	17	35	SXE-18017035
55							SXE-18017055	SXE-20017055
75							SXE-18017075	SXE-20017075
22						95	SXE-18017095	SXE-20017095
						20	SXE-18022020	SXE-20022020
						35	SXE-18022035	SXE-20022035
						40	SXE-18022040	SXE-20022040
						45	SXE-18022045	SXE-20022045
						50	SXE-18022050	SXE-20022050
						55	SXE-18022055	SXE-20022055
	60	SXE-18022060	SXE-20022060					
	65	SXE-18022065	SXE-20022065					
	70	SXE-18022070	SXE-20022070					
	80	SXE-18022080	SXE-20022080					
	85	SXE-18022085	SXE-20022085					
	115	SXE-18022115	SXE-20022115					
	27	20	SXE-18027020	SXE-20027020				
		35	SXE-18027035	SXE-20027035				
		40	SXE-18027040	SXE-20027040				
		45	SXE-18027045	SXE-20027045				
50		SXE-18027050	SXE-20027050					
55		SXE-18027055	SXE-20027055					
60		SXE-18027060	SXE-20027060					
65		SXE-18027065	SXE-20027065					
70		SXE-18027070	SXE-20027070					
80		SXE-18027080	SXE-20027080					
36	85	SXE-18027085	SXE-20027085					
	105	SXE-18027105	SXE-20027105					
	125	SXE-18027125	SXE-20027125					
	20	SXE-18036020	SXE-20036020					
	35	SXE-18036035	SXE-20036035					
	40	SXE-18036040	SXE-20036040					
	45	SXE-18036045	SXE-20036045					

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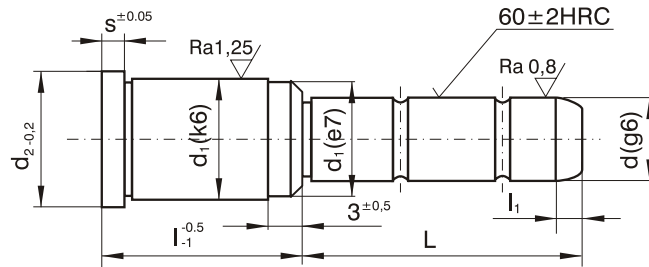
SXE

d	d ₁	d ₂	s	l ₁	l	L	PART NO.	PART NO.														
18/20	26	31	6	7	36	50	SXE-18036050	SXE-20036050														
						55	SXE-18036055	SXE-20036055														
						60	SXE-18036060	SXE-20036060														
						65	SXE-18036065	SXE-20036065														
						70	SXE-18036070	SXE-20036070														
						75	SXE-18036075	SXE-20036075														
						80	SXE-18036080	SXE-20036080														
						95	SXE-18036095	SXE-20036095														
						115	SXE-18036115	SXE-20036115														
						135	SXE-18036135	SXE-20036135														
						46	20	45	65	85	105	135	165	SXE-18046020	SXE-20046020							
														SXE-18046045	SXE-20046045							
														SXE-18046065	SXE-20046065							
														SXE-18046085	SXE-20046085							
					SXE-18046105									SXE-20046105								
					SXE-18046135									SXE-20046135								
					SXE-18046165									SXE-20046165								
					56									35	55	75	95	115	135	165	SXE-18056020	SXE-20056020
																					SXE-18056035	SXE-20056035
																					SXE-18056055	SXE-20056055
																					SXE-18056075	SXE-20056075
																					SXE-18056095	SXE-20056095
					66									75	95	115	135	165	195	225	SXE-18066055	SXE-20066055
																					SXE-18066075	SXE-20066075
						SXE-18066095	SXE-20066095															
					76	95	115	135	165	195	225	255	SXE-18076055	SXE-20076055								
													SXE-18076075	SXE-20076075								
													SXE-18076095	SXE-20076095								
86	115	135	165	195	225	255	285	SXE-18086055	SXE-20086055													
								SXE-18086075	SXE-20086075													
								SXE-18086095	SXE-20086095													
96	135	165	195	225	255	285	315	SXE-18096055	SXE-20096055													
								SXE-18096095	SXE-20096095													
116	115	135	165	195	225	255	285	SXE-18116115	SXE-20116115													
22/24	30	35	6	7	17	35	SXE-22017035	SXE-24017035														
						55	SXE-22017055	SXE-24017055														
						75	SXE-22017075	SXE-24017075														
						22	35	SXE-22022035	SXE-24022035													
							55	SXE-22022055	SXE-24022055													
							75	SXE-22022075	SXE-24022075													
					105	130	160	190	220	250	280	310	SXE-22022105	SXE-24022105								
													SXE-22022130	SXE-24022130								
													27	25	SXE-22027025	SXE-24027025						
														45	SXE-22027045	SXE-24027045						
														50	SXE-22027050	SXE-24027050						
													60	65	70	75	80	85	90	95	SXE-22027060	SXE-24027060
																					SXE-22027065	SXE-24027065
																					SXE-22027070	SXE-24027070
													80	85	90	95	100	105	110	115	SXE-22027080	SXE-24027080
					SXE-22027085	SXE-24027085																

d	d ₁	d ₂	s	l ₁	l	L	PART NO.	PART NO.																		
22/24	30	35	6	7	27	105	125	165	SXE-22027105	SXE-24027105																
									SXE-22027125	SXE-24027125																
									SXE-22027165	SXE-24027165																
									36	25	SXE-22036025	SXE-24036025														
										45	SXE-22036045	SXE-24036045														
										50	SXE-22036050	SXE-24036050														
										55	SXE-22036055	SXE-24036055														
										60	SXE-22036060	SXE-24036060														
										70	SXE-22036070	SXE-24036070														
									75	80	85	90	95	100	105	110	115	SXE-22036080	SXE-24036080							
																		SXE-22036085	SXE-24036085							
																		SXE-22036095	SXE-24036095							
					SXE-22036115	SXE-24036115																				
					SXE-22036135	SXE-24036135																				
					SXE-22036165	SXE-24036165																				
					46	25	45	65										85	105	125	145	165	SXE-22046025	SXE-24046025		
																							SXE-22046045	SXE-24046045		
																							SXE-22046050	SXE-24046050		
																							SXE-22046060	SXE-24046060		
																							SXE-22046065	SXE-24046065		
																							SXE-22046070	SXE-24046070		
									80	85	90	95	100	105	110	115	120						SXE-22046080	SXE-24046080		
																							SXE-22046085	SXE-24046085		
																							SXE-22046105	SXE-24046105		
																							SXE-22046125	SXE-24046125		
																							SXE-22046165	SXE-24046165		
																							56	25	45	65
					SXE-22056045	SXE-24056045																				
					SXE-22056055	SXE-24056055																				
					SXE-22056075	SXE-24056075																				
					SXE-22056095	SXE-24056095																				
					SXE-22056115	SXE-24056115																				
					SXE-22056165	SXE-24056165																				
					66	55	75	95	115	135	155	175	195	SXE-22066055	SXE-24066055											
														SXE-22066075	SXE-24066075											
														SXE-22066095	SXE-24066095											
														76	25	SXE-22076025	SXE-24076025									
															45	SXE-22076045	SXE-24076045									
															55	SXE-22076055	SXE-24076055									
					75	80	85	90	95	100	105	110	115	SXE-22076075	SXE-24076075											
														SXE-22076095	SXE-24076095											
														SXE-22076115	SXE-24076115											
86	55	SXE-22086055	SXE-24086055																							
	75	SXE-22086075	SXE-24086075																							
	95	SXE-22086095	SXE-24086095																							
96	55	75	95	115	135	155	175	195	SXE-22096055	SXE-24096055																
									SXE-22096075	SXE-24096075																
									SXE-22096095	SXE-24096095																
116	75	95	115	135	155	175	195	215	SXE-22116075	SXE-24116075																
									SXE-22116115	SXE-24116115																

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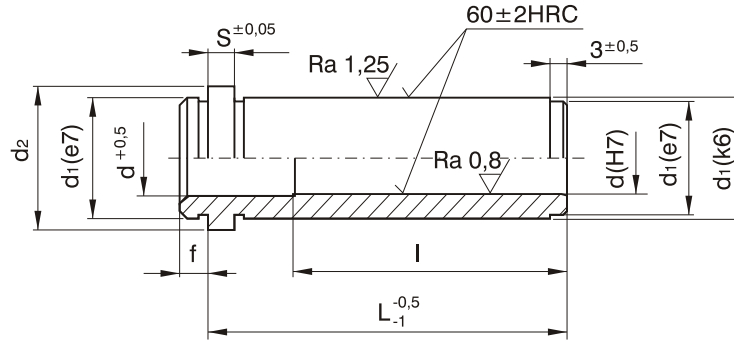


SXE

d	d ₁	d ₂	s	l ₁	I	L	PART NO.	PART NO.		
22/24	30	35	6	7	116	155	SXE-22116155	SXE-24116155		
						136	135	SXE-22136135	SXE-24136135	
						156	155	SXE-22156155	SXE-24156155	
30/32	42	47	6	7	22	35	SXE-30022035	SXE-32022035		
						75	SXE-30022075	SXE-32022075		
						130	SXE-30022130	SXE-32022130		
						27	45	SXE-30027045	SXE-32027045	
							65	SXE-30027065	SXE-32027065	
							105	SXE-30027105	SXE-32027105	
						36	165	SXE-30027165	SXE-32027165	
							55	55	SXE-30036055	SXE-32036055
								75	SXE-30036075	SXE-32036075
								95	SXE-30036095	SXE-32036095
								115	SXE-30036115	SXE-32036115
							155	155	SXE-30036155	SXE-32036155
					46			45	SXE-30046045	SXE-32046045
								65	SXE-30046065	SXE-32046065
								85	SXE-30046085	SXE-32046085
							105	SXE-30046105	SXE-32046105	
					125		125	SXE-30046125	SXE-32046125	
							165	SXE-30046165	SXE-32046165	
						56	55	SXE-30056055	SXE-32056055	
							75	SXE-30056075	SXE-32056075	
					95		SXE-30056095	SXE-32056095		
					115		SXE-30056115	SXE-32056115		
					135		SXE-30056135	SXE-32056135		
					175		SXE-30056175	SXE-32056175		
					66	55	SXE-30066055	SXE-32066055		
						75	SXE-30066075	SXE-32066075		
						95	SXE-30066095	SXE-32066095		
						115	SXE-30066115	SXE-32066115		
						135	SXE-30066135	SXE-32066135		
						175	SXE-30066175	SXE-32066175		
					76	55	SXE-30076055	SXE-32076055		
						75	SXE-30076075	SXE-32076075		
						95	SXE-30076095	SXE-32076095		
						115	SXE-30076115	SXE-32076115		
						155	SXE-30076155	SXE-32076155		
						86	55	SXE-30086055	SXE-32086055	
					75		SXE-30086075	SXE-32086075		
					95		SXE-30086095	SXE-32086095		
					115		SXE-30086115	SXE-32086115		
					155		SXE-30086155	SXE-32086155		
					96		55	SXE-30096055	SXE-32096055	
						75	SXE-30096075	SXE-32096075		
						95	SXE-30096095	SXE-32096095		
						115	SXE-30096115	SXE-32096115		
						155	SXE-30096155	SXE-32096155		
						116	75	SXE-30116075	SXE-32116075	
					115		SXE-30116115	SXE-32116115		

d	d ₁	d ₂	s	l ₁	I	L	PART NO.	PART NO.						
30/32	42	47	6	7	116	155	SXE-30116155	SXE-32116155						
						136	95	SXE-30136095	SXE-32136095					
							115	SXE-30136115	SXE-32136115					
							155	SXE-30136155	SXE-32136155					
						156	115	SXE-30156115	SXE-32156115					
							155	SXE-30156155	SXE-32156155					
							176	135	SXE-30176135	SXE-32176135				
						175		SXE-30176175	SXE-32176175					
						196		155	SXE-30196155	SXE-32196155				
							195	SXE-30196195	SXE-32196195					
						40/42	54	60	10	7	36	75	SXE-40036075	SXE-42036075
												135	SXE-40036135	SXE-42036135
46	95	SXE-40046095	SXE-42046095											
	165	SXE-40046165	SXE-42046165											
	56	75	SXE-40056075	SXE-42056075										
115		SXE-40056115	SXE-42056115											
155		SXE-40056155	SXE-42056155											
195	195	SXE-40056195	SXE-42056195											
	66	75	SXE-40066075	SXE-42066075										
		135	SXE-40066135	SXE-42066135										
76		75	SXE-40076075	SXE-42076075										
	115	SXE-40076115	SXE-42076115											
	175	SXE-40076175	SXE-42076175											
86	75	SXE-40086075	SXE-42086075											
	135	SXE-40086135	SXE-42086135											
	96	75	SXE-40096075	SXE-42096075										
115		SXE-40096115	SXE-42096115											
155		SXE-40096155	SXE-42096155											
116	95	SXE-40116095	SXE-42116095											
	135	SXE-40116135	SXE-42116135											
	195	SXE-40116195	SXE-42116195											
136	95	SXE-40136095	SXE-42136095											
	135	SXE-40136135	SXE-42136135											
	215	SXE-40136215	SXE-42136215											
156	115	SXE-40156115	SXE-42156115											
	155	SXE-40156155	SXE-42156155											
	215	SXE-40156215	SXE-42156215											
176	135	SXE-40176135	SXE-42176135											
	155	SXE-40176155	SXE-42176155											
	175	SXE-40176175	SXE-42176175											
196	155	SXE-40196155	SXE-42196155											
	195	SXE-40196195	SXE-42196195											
	235	SXE-40196235	SXE-42196235											

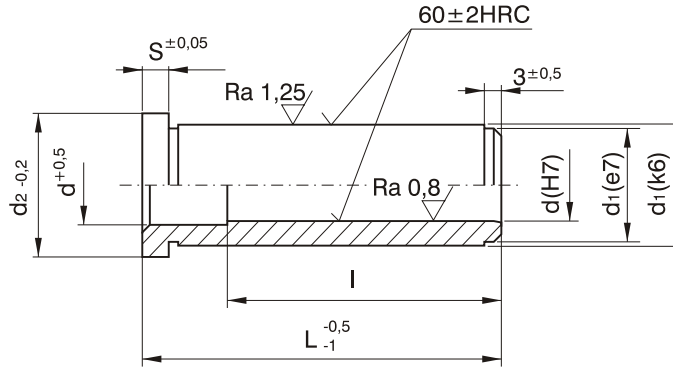
TPE



d	d1	d2	s	f	l	L	PART NO.	PART NO.
9/10	14	16	3	3	12	9	TPE-09009	TPE-10009
					15	12	TPE-09012	TPE-10012
					20	17	TPE-09017	TPE-10017
					25	22	TPE-09022	TPE-10022
					30	27	TPE-09027	TPE-10027
					39	36	TPE-09036	TPE-10036
					46	46	TPE-09046	TPE-10046
					46	56	TPE-09056	TPE-10056
					46	66	TPE-09066	TPE-10066
14/15	20	25	6	9	21	12	TPE-14012	TPE-15012
					26	17	TPE-14017	TPE-15017
					31	22	TPE-14022	TPE-15022
					36	27	TPE-14027	TPE-15027
					45	36	TPE-14036	TPE-15036
					55	46	TPE-14046	TPE-15046
					56	56	TPE-14056	TPE-15056
					56	66	TPE-14066	TPE-15066
					56	76	TPE-14076	TPE-15076
					56	86	TPE-14086	TPE-15086
					56	96	TPE-14096	TPE-15096
					56	116	TPE-14116	TPE-15116
18/20	26	31	6	9	26	17	TPE-18017	TPE-20017
					31	22	TPE-18022	TPE-20022
					36	27	TPE-18027	TPE-20027
					45	36	TPE-18036	TPE-20036
					55	46	TPE-18046	TPE-20046
					65	56	TPE-18056	TPE-20056
					75	66	TPE-18066	TPE-20066
					76	76	TPE-18076	TPE-20076
					76	86	TPE-18086	TPE-20086
					76	96	TPE-18096	TPE-20096
					76	116	TPE-18116	TPE-20116
					76	136	TPE-18136	TPE-20136
22/24	30	35	6	9	26	17	TPE-22017	TPE-24017
					31	22	TPE-22022	TPE-24022
					36	27	TPE-22027	TPE-24027

d	d1	d2	s	f	l	L	PART NO.	PART NO.
22/24	30	35	6	9	45	36	TPE-22036	TPE-24036
					55	46	TPE-22046	TPE-24046
					65	56	TPE-22056	TPE-24056
					75	66	TPE-22066	TPE-24066
					85	76	TPE-22076	TPE-24076
					95	86	TPE-22086	TPE-24086
					96	96	TPE-22096	TPE-24096
					96	116	TPE-22116	TPE-24116
					96	136	TPE-22136	TPE-24136
30/32	42	47	6	9	31	22	TPE-30022	TPE-32022
					36	27	TPE-30027	TPE-32027
					45	36	TPE-30036	TPE-32036
					55	46	TPE-30046	TPE-32046
					65	56	TPE-30056	TPE-32056
					75	66	TPE-30066	TPE-32066
					85	76	TPE-30076	TPE-32076
					95	86	TPE-30086	TPE-32086
					105	96	TPE-30096	TPE-32096
					116	116	TPE-30116	TPE-32116
					116	136	TPE-30136	TPE-32136
					116	156	TPE-30156	TPE-32156
40/42	54	60	10	12	116	176	TPE-30176	TPE-32176
					116	196	TPE-30196	TPE-32196
					48	36	TPE-40036	TPE-42036
					58	46	TPE-40046	TPE-42046
					68	56	TPE-40056	TPE-42056
					78	66	TPE-40066	TPE-42066
					88	76	TPE-40076	TPE-42076
					98	86	TPE-40086	TPE-42086
					108	96	TPE-40096	TPE-42096
					128	116	TPE-40116	TPE-42116
					136	136	TPE-40136	TPE-42136
					136	156	TPE-40156	TPE-42156
136	176	TPE-40176	TPE-42176					
136	196	TPE-40196	TPE-42196					

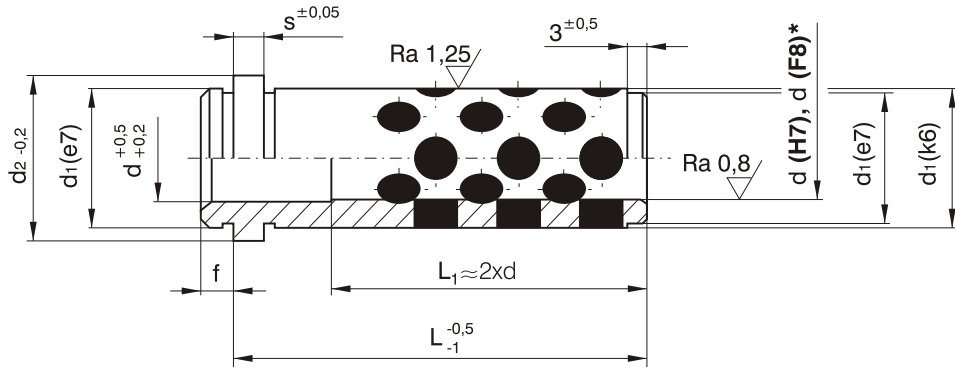
TXE



d	d ₁	d ₂	s	l	L	PART NO.	PART NO.
9/10	14	16	3	9	9	TXE-09009	TXE-10009
				12	12	TXE-09012	TXE-10012
				17	17	TXE-09017	TXE-10017
				22	22	TXE-09022	TXE-10022
				27	27	TXE-09027	TXE-10027
				36	36	TXE-09036	TXE-10036
				46	46	TXE-09046	TXE-10046
				46	56	TXE-09056	TXE-10056
				46	66	TXE-09066	TXE-10066
				14/15	20	25	6
17	17	TXE-14017	TXE-15017				
22	22	TXE-14022	TXE-15022				
27	27	TXE-14027	TXE-15027				
36	36	TXE-14036	TXE-15036				
46	46	TXE-14046	TXE-15046				
56	56	TXE-14056	TXE-15056				
56	66	TXE-14066	TXE-15066				
56	76	TXE-14076	TXE-15076				
56	86	TXE-14086	TXE-15086				
18/20	26	31	6	17	17	TXE-18017	TXE-20017
				22	22	TXE-18022	TXE-20022
				27	27	TXE-18027	TXE-20027
				36	36	TXE-18036	TXE-20036
				46	46	TXE-18046	TXE-20046
				56	56	TXE-18056	TXE-20056
				66	66	TXE-18066	TXE-20066
				76	76	TXE-18076	TXE-20076
				76	86	TXE-18086	TXE-20086
				76	96	TXE-18096	TXE-20096
22/24	30	35	6	17	17	TXE-22017	TXE-24017
				22	22	TXE-22022	TXE-24022
				27	27	TXE-22027	TXE-24027
				36	36	TXE-22036	TXE-24036

d	d ₁	d ₂	s	l	L	PART NO.	PART NO.
22/24	30	35	6	46	46	TXE-22046	TXE-24046
				56	56	TXE-22056	TXE-24056
				66	66	TXE-22066	TXE-24066
				76	76	TXE-22076	TXE-24076
				86	86	TXE-22086	TXE-24086
				96	96	TXE-22096	TXE-24096
				96	116	TXE-22116	TXE-24116
				96	136	TXE-22136	TXE-24136
				96	156	TXE-22156	TXE-24156
				30/32	42	47	6
27	27	TXE-30027	TXE-32027				
36	36	TXE-30036	TXE-32036				
46	46	TXE-30046	TXE-32046				
56	56	TXE-30056	TXE-32056				
66	66	TXE-30066	TXE-32066				
76	76	TXE-30076	TXE-32076				
86	86	TXE-30086	TXE-32086				
96	96	TXE-30096	TXE-32096				
116	116	TXE-30116	TXE-32116				
40/42	54	60	10	116	136	TXE-30136	TXE-32136
				116	156	TXE-30156	TXE-32156
				116	176	TXE-30176	TXE-32176
				36	36	TXE-40036	TXE-42036
				46	46	TXE-40046	TXE-42046
				56	56	TXE-40056	TXE-42056
				66	66	TXE-40066	TXE-42066
				76	76	TXE-40076	TXE-42076
				86	86	TXE-40086	TXE-42086
				96	96	TXE-40096	TXE-42096
				116	116	TXE-40116	TXE-42116
				136	136	TXE-40136	TXE-42136
				136	156	TXE-40156	TXE-42156
				136	176	TXE-40176	TXE-42176
				136	196	TXE-40196	TXE-42196

TPG



Mat: Aluminium Bronze
Graphite

d	d ₁	d ₂	s	f	L	PART NO.	PART NO.
9/10	14	16	3	5	12	TPG-09012	TPG-10012
					17	TPG-09017	TPG-10017
					22	TPG-09022	TPG-10022
					27	TPG-09027	TPG-10027
					36	TPG-09036	TPG-10036
					46	TPG-09046	TPG-10046
					56	TPG-09056	TPG-10056
14/15	20	25	6	6	17	TPG-14017	TPG-15017
					22	TPG-14022	TPG-15022
					27	TPG-14027	TPG-15027
					36	TPG-14036	TPG-15036
					46	TPG-14046	TPG-15046
					56	TPG-14056	TPG-15056
					66	TPG-14066	TPG-15066
18/20	26	31	6	8	17	TPG-18017	TPG-20017
					22	TPG-18022	TPG-20022
					27	TPG-18027	TPG-20027
					36	TPG-18036	TPG-20036
					46	TPG-18046	TPG-20046
					56	TPG-18056	TPG-20056
					66	TPG-18066	TPG-20066
22/24	30	35	6	8	22	TPG-22022	TPG-24022
					27	TPG-22027	TPG-24027
					36	TPG-22036	TPG-24036

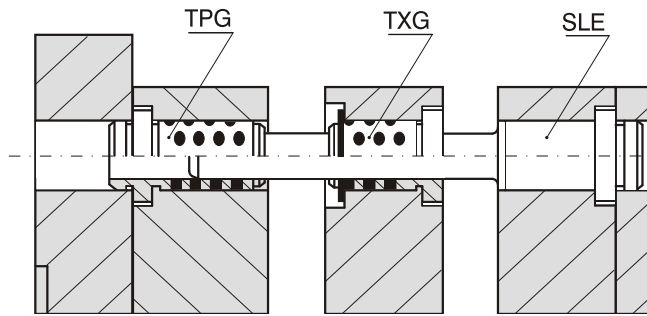
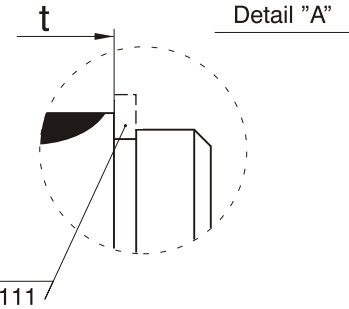
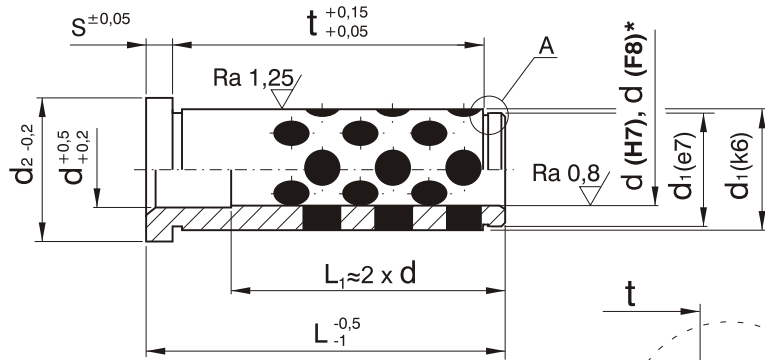
d	d ₁	d ₂	s	f	L	PART NO.	PART NO.
22/24	30	35	6	8	46	TPG-22046	TPG-24046
					56	TPG-22056	TPG-24056
					66	TPG-22066	TPG-24066
					76	TPG-22076	TPG-24076
					86	TPG-22086	TPG-24086
					96	TPG-22096	TPG-24096
					116	TPG-22116	TPG-24116
30/32	42	47	6	8	136	TPG-22136	TPG-24136
					27	TPG-30027	TPG-32027
					36	TPG-30036	TPG-32036
					46	TPG-30046	TPG-32046
					56	TPG-30056	TPG-32056
					66	TPG-30066	TPG-32066
					76	TPG-30076	TPG-32076
40/42	54	60	10	10	86	TPG-30086	TPG-32086
					96	TPG-30096	TPG-32096
					116	TPG-30116	TPG-32116
					136	TPG-30136	TPG-32136
					46	TPG-40046	TPG-42046
					56	TPG-40056	TPG-42056
					66	TPG-40066	TPG-42066
40/42	54	60	10	10	76	TPG-40076	TPG-42076
					86	TPG-40086	TPG-42086
					96	TPG-40096	TPG-42096
					116	TPG-40116	TPG-42116
					136	TPG-40136	TPG-42136
					156	TPG-40156	TPG-42156
					196	TPG-40196	TPG-42196

* Note:

Bushing with hole tolerance **F8** are also available
Example ordering in tolerance F8

TPG-09012F

TXG



PN-81/M-85111

Mat: Aluminium Bronze
Graphite

d	d ₁	d ₂	s	Z	t	L	PART NO.	PART NO.
9/10	14	16	3	Z14 / 14x1	5,5	12	TXG-09012	TXG-10012
					10,5	17	TXG-09017	TXG-10017
					15,5	22	TXG-09022	TXG-10022
					20,5	27	TXG-09027	TXG-10027
					29,5	36	TXG-09036	TXG-10036
					39,5	46	TXG-09046	TXG-10046
12	18	23	6	Z18 / 18x1,2	7	17	TXG-12017	-----
					12	22	TXG-12022	-----
					17	27	TXG-12027	-----
					26	36	TXG-12036	-----
					36	46	TXG-12046	-----
					46	56	TXG-12056	-----
14/15	20	25	6	Z20 / 20x1,2	7	17	TXG-14017	TXG-15017
					12	22	TXG-14022	TXG-15022
					17	27	TXG-14027	TXG-15027
					26	36	TXG-14036	TXG-15036
					36	46	TXG-14046	TXG-15046
					46	56	TXG-14056	TXG-15056
16	22	27	6	Z22 / 22x1,2	12	22	TXG-16022	-----
					17	27	TXG-16027	-----
					26	36	TXG-16036	-----
					36	46	TXG-16046	-----
18/20	26	31	6	Z26 / 26x1,2	7	17	TXG-18017	TXG-20017
					12	22	TXG-18022	TXG-20022
					17	27	TXG-18027	TXG-20027
					26	36	TXG-18036	TXG-20036
					36	46	TXG-18046	TXG-20046

d	d ₁	d ₂	s	Z	t	L	PART NO.	PART NO.
18/20	26	31	6	Z26	46	56	TXG-18056	TXG-20056
					56	66	TXG-18066	TXG-20066
					66	76	TXG-18076	TXG-20076
22/24	30	35	6	Z30 / 30x1,5	11	22	TXG-22022	TXG-24022
					16	27	TXG-22027	TXG-24027
					25	36	TXG-22036	TXG-24036
					35	46	TXG-22046	TXG-24046
					45	56	TXG-22056	TXG-24056
					55	66	TXG-22066	TXG-24066
					65	76	TXG-22076	TXG-24076
					75	86	TXG-22086	TXG-24086
30/32	42	47	6	Z42 / 42x1,75	14	27	TXG-30027	TXG-32027
					23	36	TXG-30036	TXG-32036
					33	46	TXG-30046	TXG-32046
					43	56	TXG-30056	TXG-32056
					53	66	TXG-30066	TXG-32066
					63	76	TXG-30076	TXG-32076
					73	86	TXG-30086	TXG-32086
					83	96	TXG-30096	TXG-32096
40/42	54	60	10	Z55 / 55x2,0	103	116	TXG-30116	TXG-32116
					28	46	TXG-40046	TXG-42046
					38	56	TXG-40056	TXG-42056
					48	66	TXG-40066	TXG-42066
					58	76	TXG-40076	TXG-42076
					68	86	TXG-40086	TXG-42086
					78	96	TXG-40096	TXG-42096
					98	116	TXG-40116	TXG-42116
					118	136	TXG-40136	TXG-42136

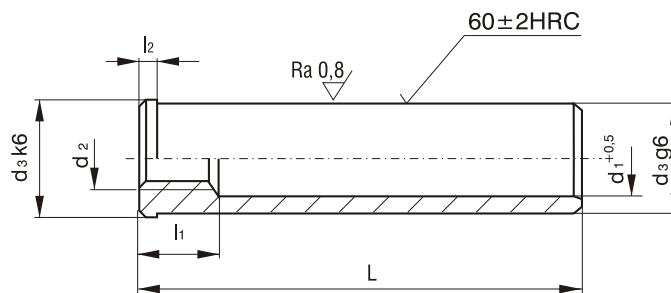
* Note:

Bushing with hole tolerance **F8** are also available

Example ordering in tolerance F8

TXG-09012F

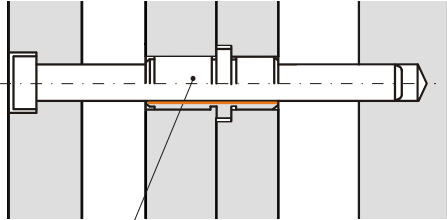
TUE



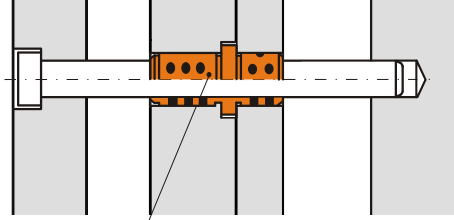
l_1	l_2	d_1	d_2	d_3	L	PART NO.
8	2	11	M6	14	20	TUE -14020
					30	TUE -14030
					40	TUE -14040
					50	TUE -14050
					60	TUE -14060
					70	TUE -14070
					80	TUE -14080
					100	TUE -14100
13	2	16	M8	20	30	TUE -20030
					40	TUE -20040
					60	TUE -20060
					80	TUE -20080
					100	TUE -20100
					120	TUE -20120
					140	TUE -20140
13	2,5	21	M10	26	30	TUE -26030
					40	TUE -26040
					60	TUE -26060
					80	TUE -26080
					100	TUE -26100
					120	TUE -26120
					140	TUE -26140
					160	TUE -26160
13	2,5	25	M12	30	40	TUE -30040
					60	TUE -30060

l_1	l_2	d_1	d_2	d_3	L	PART NO.
13	2,5	25	M12	30	80	TUE-30080
					100	TUE-30100
					120	TUE-30120
					140	TUE-30140
					160	TUE-30160
					180	TUE-30180
					200	TUE-30200
					240	TUE-30240
13	4,5	33	M16	42	40	TUE-42040
					60	TUE-42060
					80	TUE-42080
					100	TUE-42100
					120	TUE-42120
					140	TUE-42140
					160	TUE-42160
					180	TUE-42180
13	4,5	43	M20	54	60	TUE-54060
					80	TUE-54080
					120	TUE-54120
					160	TUE-54160
					200	TUE-54200
					240	TUE-54240
					280	TUE-54280

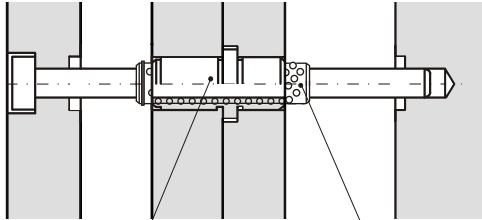
TYPES OF EJECTION SYSTEMS



TBW

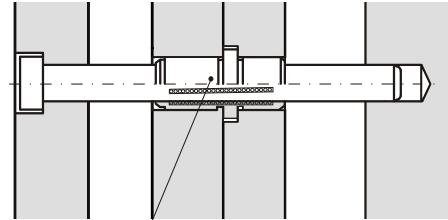


TGW



TKW

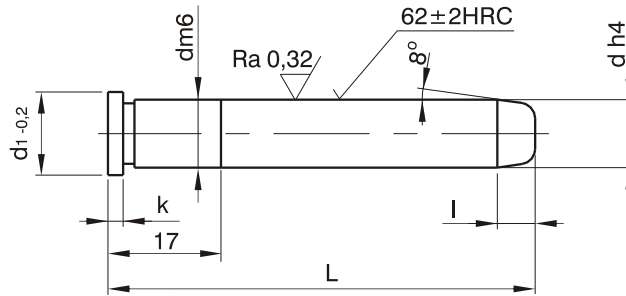
KKW



DKA

LEADER PINS

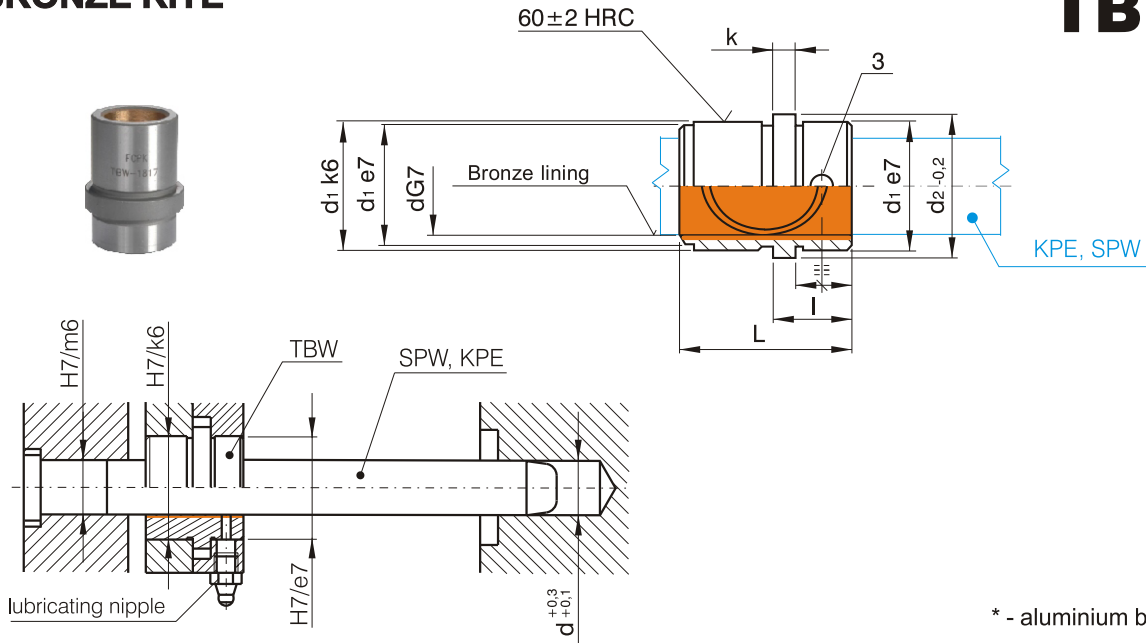
SPW



d	d ₁	l	k	PART NO.							
				L=80	L=100	L=120	L=140	L=160	L=200	L=240	
12	16	4	4	SPW-12080	SPW-12100	SPW-12120					
18	22	7	6			SPW-18120	SPW-18140	SPW-18160			
24	27	7	6				SPW-24140	SPW-24160	SPW-24200		
30	36	7	6					SPW-30160	SPW-30200	SPW-30240	

**GUIDE BUSHINGS
BRONZE RITE™**

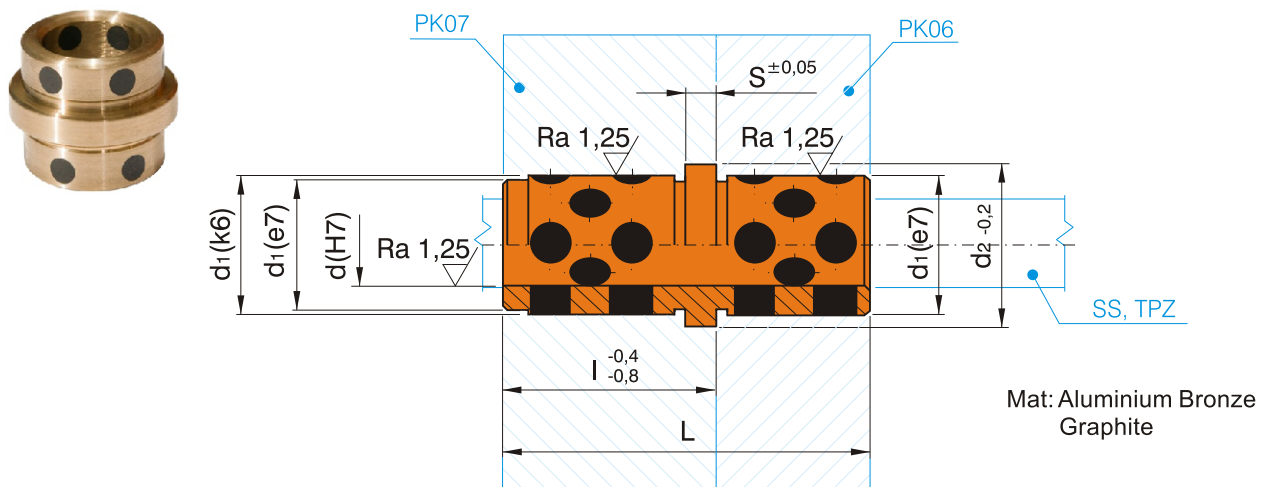
TBW



d	d1	d2	K	PART NO.				
				I=9	I=12	I=17	I=22	I=27
				L=21	L=29	L=39	L=49	L=63
12	16	19	3	TBW-1209*	TBW-1212*			
18	26	30	6		TBW-1812	TBW-1817	TBW-1822	
30	42	46	6			TBW-3017	TBW-3022	TBW-3027

SELF-LUBRICATING GUIDE BUSHING

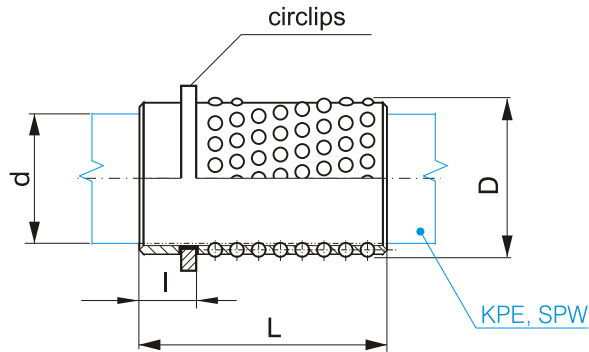
TGW



d	d1	d2	s	l	L	PART NO.	PART NO.
14/15	20	25	6	17	26	TGW-14017	TGW-15017
18/20	26	31		22	39	TGW-18022	TGW-20022
22/24	30	35		27	49	TGW-22027	TGW-24027
30/32	42	47		36	63	TGW-30036	TGW-32036

BALL BEARINGS CAGES

KKW

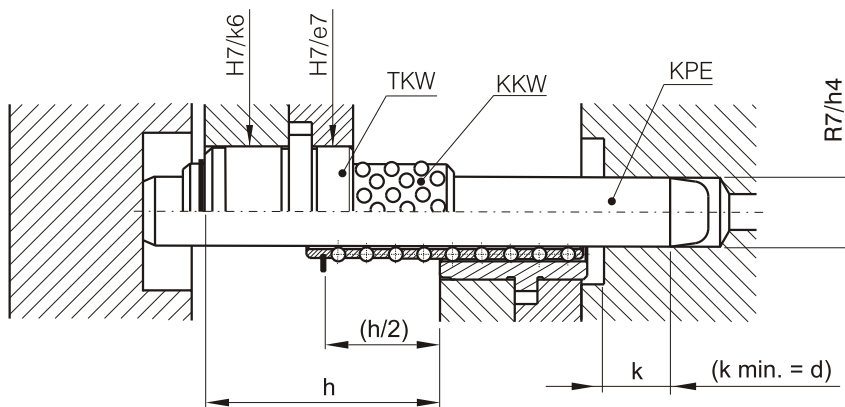
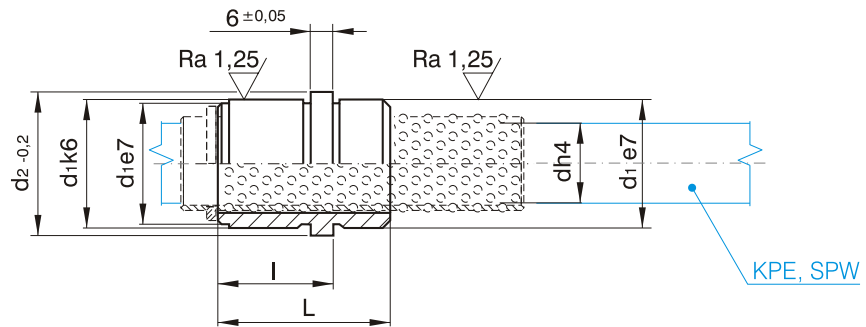


Mat: Cage - aluminium
Balls - hardened steel

d	D	I	PART NO.					
			L=40	L=45	L=56	L=71	L=75	L=95
12	17	2,1	KKW-1240		KKW-1256			
18	24	3,0		KKW-1845	KKW-1856	KKW-1871		
30	38	4,8			KKW-3056		KKW-3075	KKW-3095

GUIDE BUSHINGS

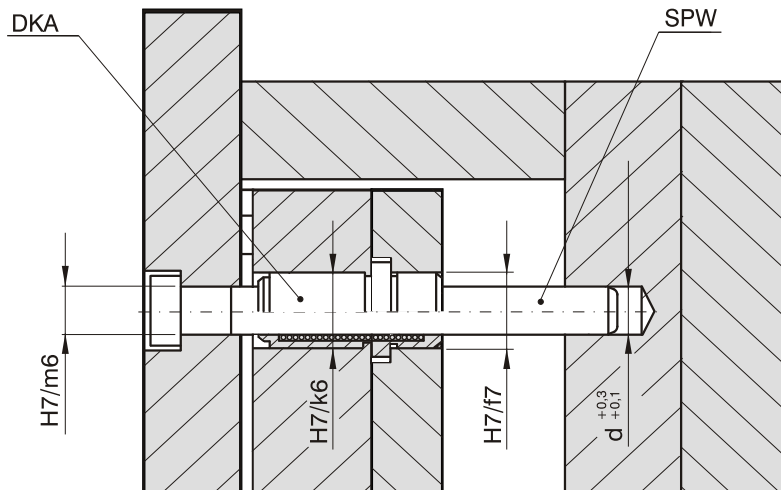
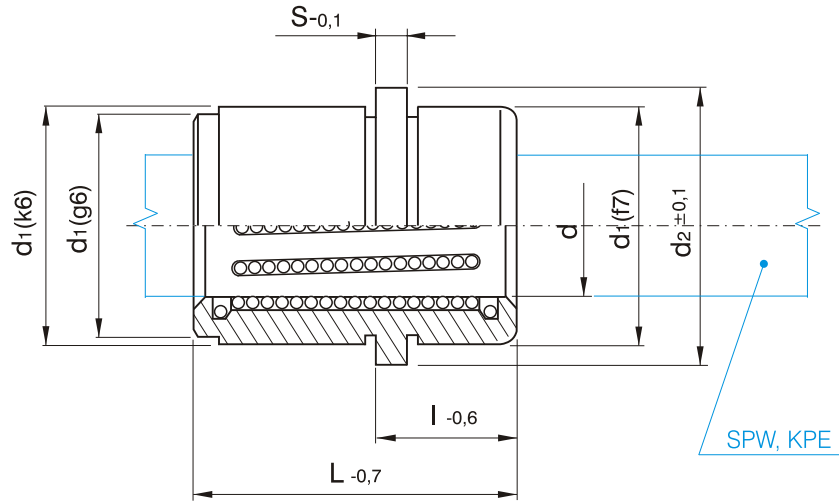
TKW



63 ± 2 HRC

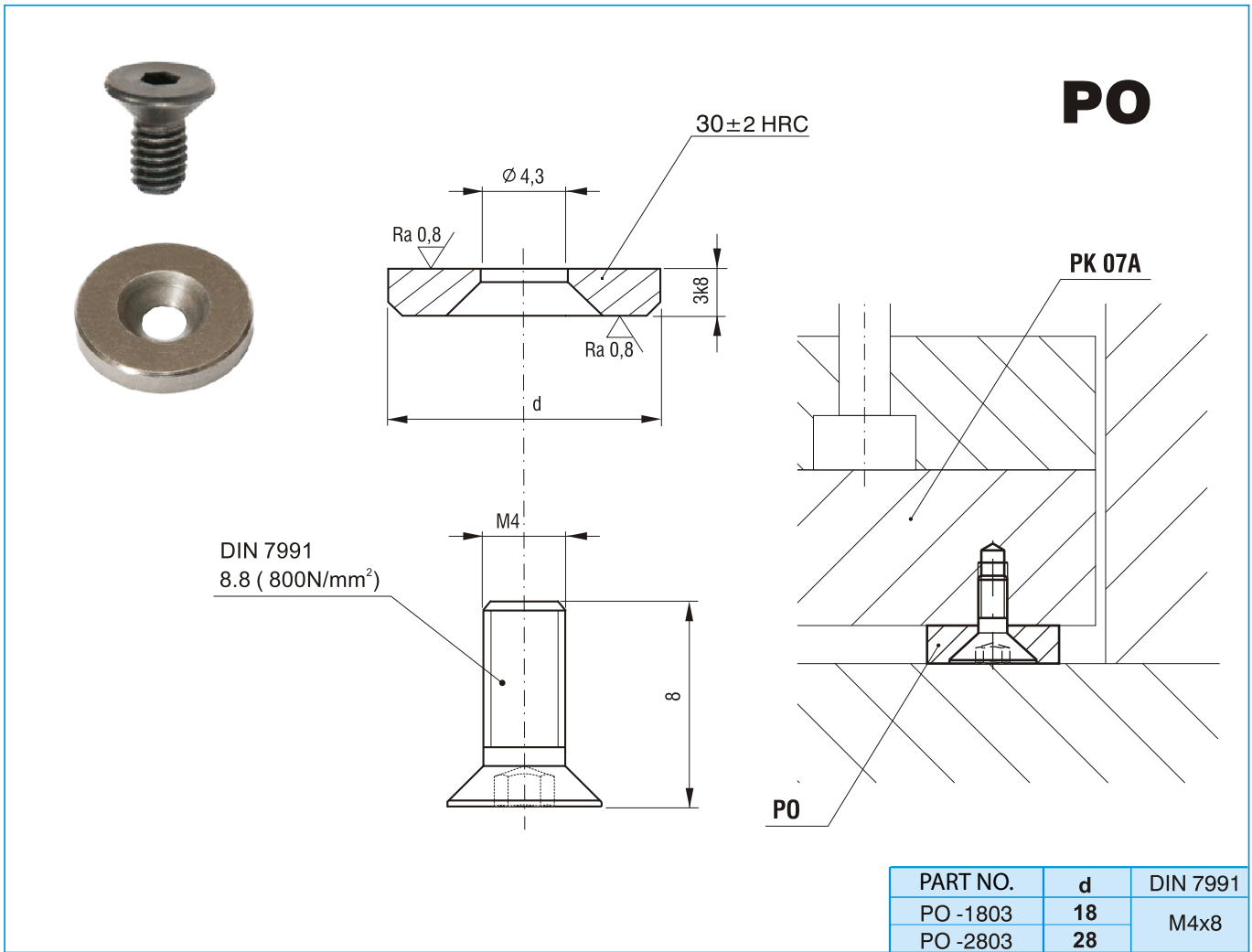
d Nom	d1	d2	L	PART NO.		
				I=18	I=23	I=33
12	22	26	24	TKW-1218		
18	30	35	34		TKW-1823	
30	46	52	54			TKW-3033

DKA

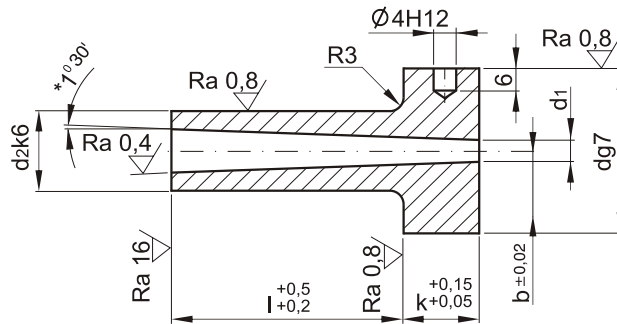


d	d ₁	d ₂	s	l	L	PART NO.
12	22	26	6	12	26	DKA-1226
18	30	35	6	17	35	DKA-1835
24	38	43	6	22	45	DKA-2445
30	46	52	6	27	55	DKA-3055

Mat: Bush - steel 64±2HRC
Cage - brass
Balls - hardened steel



TWA



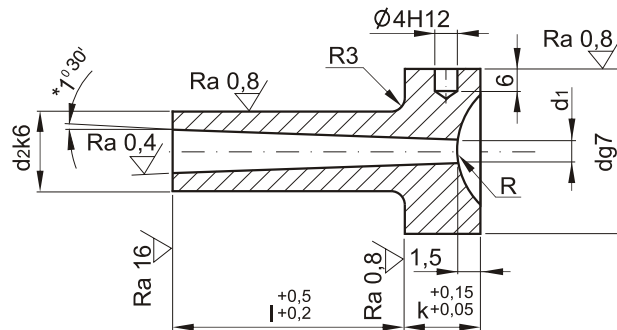
* Hole inclination 0,5° on request

55±2 HRC

d ₂	d	k	b	d ₁	I	PART NO.
18	38	18	15	3,5	27	TWA-183527
					36	TWA-183536
					46	TWA-183546
					56	TWA-183556
				4,5	27	TWA-184527
					36	TWA-184536
					46	TWA-184546
					56	TWA-184556

d ₂	d	k	b	d ₁	I	PART NO.					
18	38	18	15	4,5	56	TWA-184556					
					76	TWA-184576					
					24	48	23	20	4,5	46	TWA-244546
										56	TWA-244556
24	48	23	20	6,5	56	TWA-246556					
					76	TWA-246576					

TWB



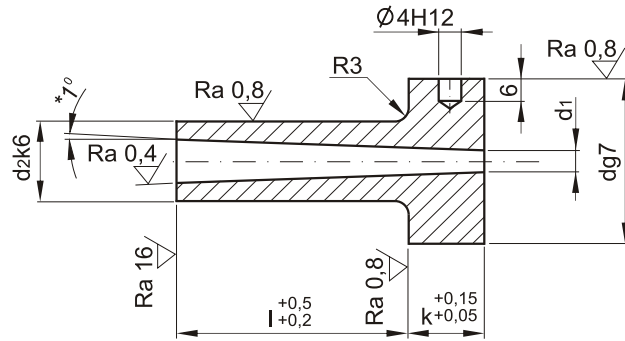
* Hole inclination 0,5° on request

55±2 HRC

R=15,5										
d ₂	d	k	b	d ₁	I	PART NO.				
18	38	18	15	3,5	27	TWB-183527-15,5				
					36	TWB-183536-15,5				
					46	TWB-183546-15,5				
					56	TWB-183556-15,5				
				4,5	27	TWB-184527-15,5				
					36	TWB-184536-15,5				
					46	TWB-184546-15,5				
					56	TWB-184556-15,5				
				24	48	23	20	4,5	46	TWB-244546-15,5
									56	TWB-244556-15,5
									76	TWB-244576-15,5
									56	TWB-246556-15,5
24	48	23	20	6,5	56	TWB-246556-15,5				
					76	TWB-246576-15,5				

R=40										
d ₂	d	k	b	d ₁	I	PART NO.				
18	38	18	15	3,5	27	TWB-183527-40				
					36	TWB-183536-40				
					46	TWB-183546-40				
					56	TWB-183556-40				
				24	48	23	20	4,5	27	TWB-184527-40
									36	TWB-184536-40
									46	TWB-184546-40
									56	TWB-184556-40
24	48	23	20	6,5	56	TWB-246556-40				
					76	TWB-246576-40				

TWC

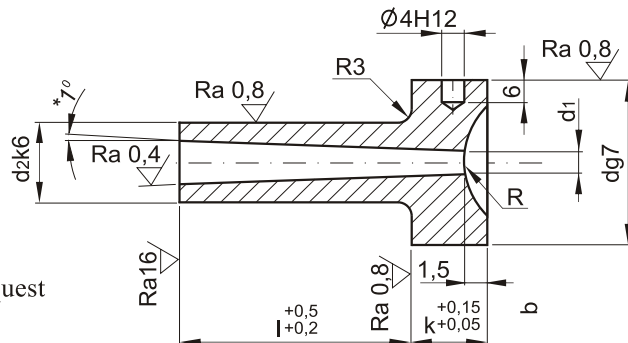


55 ± 2 HRC

d2	d	k	b	d1	l	PART NO.
12	28	13	11	2,5	22	TWC-122522
					27	TWC-122527
					36	TWC-122536
					46	TWC-122546
					56	TWC-122556
				3,5	22	TWC-123522
					27	TWC-123527
					36	TWC-123536
					46	TWC-123546
					56	TWC-123556
18	38	18	15	3	27	TWC-183027
					36	TWC-183036
					46	TWC-183046
					56	TWC-183056

d2	d	k	b	d1	l	PART NO.
18	38	18	15	3	56	TWC-183056
					76	TWC-183076
					96	TWC-183096
					116	TWC-1830116
					116	TWC-1830116
				4	27	TWC-184027
					36	TWC-184036
					46	TWC-184046
					56	TWC-184056
					76	TWC-184076
18	38	18	15	3	96	TWC-184096
					116	TWC-1840116
					116	TWC-1840116

TWD



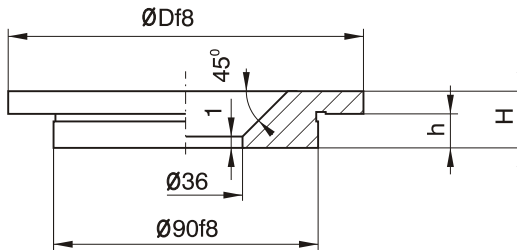
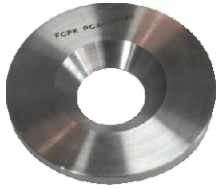
* Hole inclination 0,5° on request

55 ± 2 HRC

R=15,5						
d2	d	k	b	d1	l	PART NO.
12	28	13	11	2,5	22	TWD-122522-15,5
					27	TWD-122527-15,5
					36	TWD-122536-15,5
					46	TWD-122546-15,5
					56	TWD-122556-15,5
				3,5	22	TWD-123522-15,5
					27	TWD-123527-15,5
					36	TWD-123536-15,5
					46	TWD-123546-15,5
					56	TWD-123556-15,5
18	38	18	15	3	27	TWD-183027-15,5
					36	TWD-183036-15,5
					46	TWD-183046-15,5
					56	TWD-183056-15,5
					76	TWD-183076-15,5
					96	TWD-183096-15,5
					116	TWD-1830116-15,5
				4	27	TWD-184027-15,5
					36	TWD-184036-15,5
					46	TWD-184046-15,5
					56	TWD-184056-15,5
					76	TWD-184076-15,5
					96	TWD-184096-15,5
					116	TWD-1840116-15,5

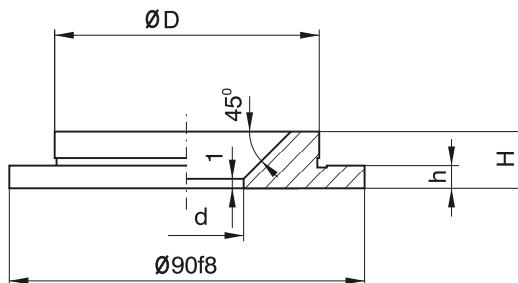
R=40						
d2	d	k	b	d1	l	PART NO.
12	28	13	11	2,5	22	TWD-122522-40
					27	TWD-122527-40
					36	TWD-122536-40
					46	TWD-122546-40
					56	TWD-122556-40
				3,5	22	TWD-123522-40
					27	TWD-123527-40
					36	TWD-123536-40
					46	TWD-123546-40
					56	TWD-123556-40
18	38	18	15	3	27	TWD-183027-40
					36	TWD-183036-40
					46	TWD-183046-40
					56	TWD-183056-40
					76	TWD-183076-40
					96	TWD-183096-40
					116	TWD-1830116-40
				4	27	TWD-184027-40
					36	TWD-184036-40
					46	TWD-184046-40
					56	TWD-184056-40
					76	TWD-184076-40
					96	TWD-184096-40
					116	TWD-1840116-40

PCA



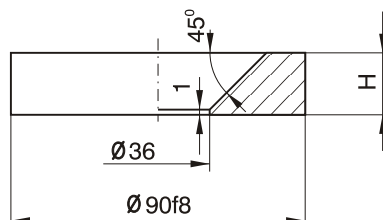
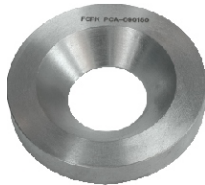
h	D	H	PART NO.	h	D	H	PART NO.	h	D	H	PART NO.	h	D	H	PART NO.
4	100	8	PCA-100080	4	120	8	PCA-120080	12.5	125	16.5	PCA-125165	7	175	11	PCA-175110
7		11	PCA-100110	7		11	PCA-120110	4	130	12	PCA-130120	4		12	PCA-175120
9		13	PCA-100130	4		12	PCA-120120		140		PCA-140120	9		13	PCA-175130
11		15	PCA-100150	9		13	PCA-120130		150		PCA-150120	11		15	PCA-175150
12.5		16.5	PCA-100165	11		15	PCA-120150		160	8	PCA-160080	12.5		16.5	PCA-175165
4	110	8	PCA-110080	12.5		16.5	PCA-120165	7		11	PCA-160110	4	180	12	PCA-180120
7		11	PCA-110110	4	125	8	PCA-125080	4		12	PCA-160120		200		PCA-200120
4		12	PCA-110120	7		11	PCA-125110	9		13	PCA-160130		250		PCA-250120
9		13	PCA-110130	4		12	PCA-125120	11		15	PCA-160150				
11		15	PCA-110150	9		13	PCA-125130	12.5		16.5	PCA-160165				
12.5		16.5	PCA-110165	11		15	PCA-125150	4	175	8	PCA-175080				

PCA



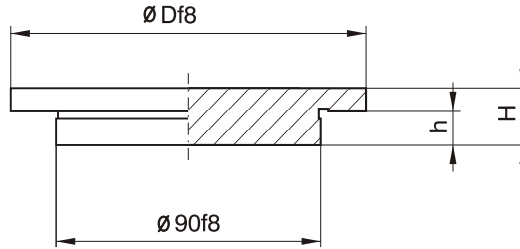
d	h	D	H	PART NO.	d	h	D	H	PART NO.
36	4	60	8	PCA-060080	36	4	80	8	PCA-080080
26	7		11	PCA-060110	26	7		11	PCA-080110
	9		13	PCA-060130		9		13	PCA-080130

PCA



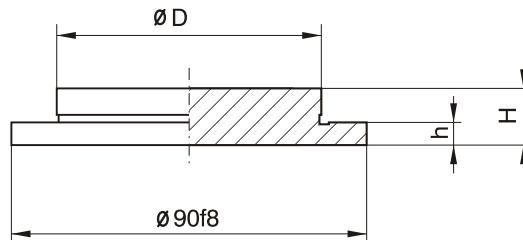
H	PART NO.	H	PART NO.
8	PCA-090080	15	PCA-090150
11	PCA-090110	16.5	PCA-090165
13	PCA-090130		

PCB



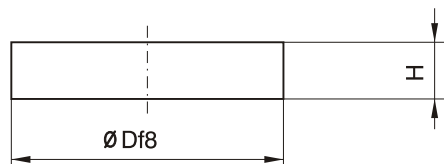
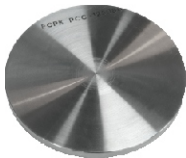
h	D	H	PART NO.	h	D	H	PART NO.	h	D	H	PART NO.	h	D	H	PART NO.			
4	100	8	PCB-100080	12.5	110	16.5	PCB-110165	9	125	13	PCB-125130	12.5	160	16.5	PCB-160165			
7		11	PCB-100110	4		120	8	PCB-120080		11	15	PCB-125150		4	175	8	PCB-175080	
9		13	PCB-100130	7			11	PCB-120110		12.5	16.5	PCB-125165		7		11	PCB-175110	
11		15	PCB-100150	4			12	PCB-120120		4	140	8		PCB-140080		4	12	PCB-175120
12.5		16.5	PCB-100165	9			13	PCB-120130		9		150		PCB-150080		9	13	PCB-175130
4	110	8	PCB-110080	11	15		PCB-120150	12.5	160	PCB-160080		11	15	PCB-175150				
7		11	PCB-110110	12.5	16.5	PCB-120165	7	11	PCB-160110	12.5		16.5	PCB-175165					
4		12	PCB-110120	4	125	8	PCB-125080	4	12	PCB-160120		4	200	12	PCB-200120			
9		13	PCB-110130	7		11	PCB-125110	9	13	PCB-160130	250	PCB-250120						
11		15	PCB-110150	4		12	PCB-125120	11	15	PCB-160150								

PCB



h	D	H	PART NO.	h	D	H	PART NO.
4	60	8	PCB-060080	4	80	8	PCB-080080
7		11	PCB-060110	7		11	PCB-080110
9		13	PCB-060130	9		13	PCB-080130

PCC



D	H	PART NO.	D	H	PART NO.	D	H	PART NO.	D	H	PART NO.
40	6	PCC-040060	90	8	PCC-090080	120	8	PCC-120080	160	8	PCC-160080
	9	PCC-040090		11	PCC-090110		12	PCC-120120		12	PCC-160120
60	8	PCC-060080		13	PCC-090130	125	8	PCC-125080	175	8	PCC-175080
	11	PCC-060110		15	PCC-090150		12	PCC-125120		12	PCC-175120
13	PCC-060130	16.5		PCC-090165	130	12	PCC-130120	200	8	PCC-200080	
80	8	PCC-080080	100	8		PCC-100080	140		PCC-140120	12	PCC-200120
	11	PCC-080110	110	8		PCC-110080	150	8	PCC-150080	250	PC
	13	PCC-080130	12	PCC-110120	12	PCC-150120					

NOTES



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