ISG | Aandrijftechniek

Taper bush V-Snaarschijven

Technische documentatie
& productspecificaties



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Taper bush v-snaarschijven — Taper bush V-Belt Pulleys

Deze technische documentatie biedt een duidelijk overzicht van Taper bush v-snaarschijven. Specificaties, afmetingen en onderdelen zijn per serie gestructureerd voor snelle en eenvoudige raadpleging.

This technical documentation provides a clear overview of Taper bush V-belt pulleys. Specifications, dimensions, and components are structured per series for quick and easy reference.

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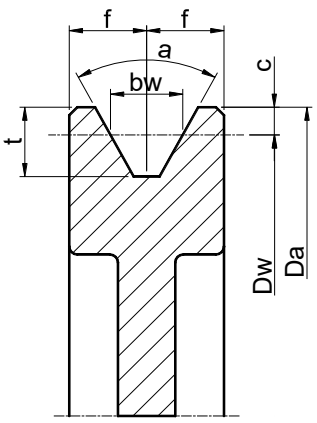
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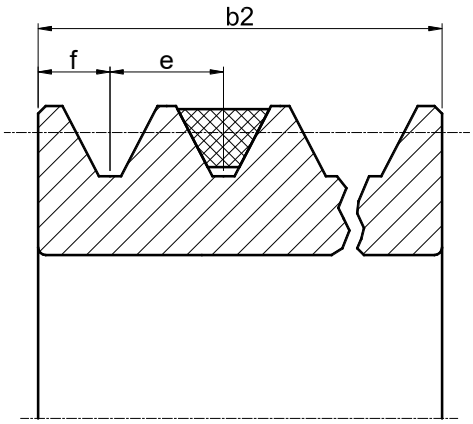
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Materiaal	gietijzer EN-GJL-220-250 (GG22 - GG25)
Oppervlakte behandeling	mangaan-gefosfateerd en gedompeld in olie
Kleur	mat-zwart
Afmetingen	volgens DIN 2211
Balanceren (statisch)	Alle ISG-schijven worden statisch (x-y vlak) gebalanceerd volgens ISO 21940, kwaliteitsklasse G16.
Balanceren (dynamisch)	Tegen meerprijs kunnen de schijven ook dynamisch (x-y-z vlak) gebalanceerd worden volgens ISO 21940, kwaliteitsklasse G6,3. Dynamisch balanceren wordt aanbevolen, indien: • V > 30 m/s • een verhouding [D_w : b_2] < 4 (bij V > 20 m/s) – zie pagina 4.

Material	Grauguß EN-GJL-220-250 (GG22 - GG25)
Oberflächenbehandlung	Mangan-phosphatiert und geölt
Farbe	matt-schwarz
Abmessungen	nach DIN 2211
Auswuchten (statisch)	Alle ISG-Scheiben werden statisch (x-y Ebene) gewuchtet nach ISO 21940, Gütestufe G16.
Auswuchten (dynamisch)	Gegen Mehrpreis werden die Scheiben dynamisch (x-y-z Ebene) ausgewuchtet nach ISO 21940, Gütestufe G6,3. Dynamisch auswuchten wird empfohlen, wenn: • Umfangsgeschwindigkeit > 30 m/s • das Verhältnis [D_w : b_2] < 4 (bei V > 20 m/s) – siehe Seite 4.

Material	cast-iron EN-GJL-220-250 (GG22 - GG25)
Surface treatment	manganese-phosphated and dipped in oil
Color	matt-black
Dimensions	according DIN 2211
Balancing (static)	All ISG-pulleys are statically balanced (x-y plane) according ISO 21940, quality degree G16.
Balancing (dynamic)	Against surcharge it is possible to balance dynamically (x-y-z plane) according ISO 21940, quality degree G6,3. Dynamically balancing is recommended when: • V > 30 m/s • ratio [D_w : b_2] < 4 (at V > 20 m/s) – see page 4.





AFMETINGEN — ABMESSUNGEN — DIMENSIONS

profiel / Profil / profile	α	D_w	b_w	t	c	f	e
		(mm)					
SPZ	34°± 1°	≤ 80	8,5	11,0 +0,6 0	2,0	8,0 +0,6 -0,6	12,0 +0,3 -0,3
	38°± 1°	> 80					
SPA	34°± 1°	≤ 118	11,0	14,0 +0,6 0	2,8	10,0 +0,6 -0,6	15,0 +0,3 -0,3
	38°± 1°	> 118					
SPB	34°± 1°	≤ 190	14,0	18,0 +0,6 0	3,5	12,5 +0,8 -0,8	19,0 +0,4 -0,4
	38°± 1°	> 190					
SPC	34°± 1°	≤ 315	19,0	24,0 +0,6 0	4,8	17,0 +1,0 -1,0	25,5 +0,5 -0,5
	38°± 1°	> 315					

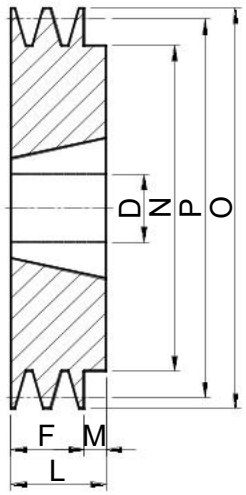
VELGBREEDTE — KRANZBREITE — RIM WIDTH

profiel / Profil / profile	SPZ	SPA	SPB	SPC
n = groeven / Rillen / grooves	b_2 = velgbreedte / Kranzbreite / rim width b_2 (mm) = (n - 1) . e + (2 . f)			
1	16,0	20,0	25,0	34,0
2	28,0	35,0	44,0	59,5
3	40,0	50,0	63,0	85,0
4	52,0	65,0	82,0	110,5
5	64,0	80,0	101,0	136,0
6	-	-	120,0	161,5
8	-	-	158,0	212,5
10	-	-	-	263,5
12	-	-	-	314,5

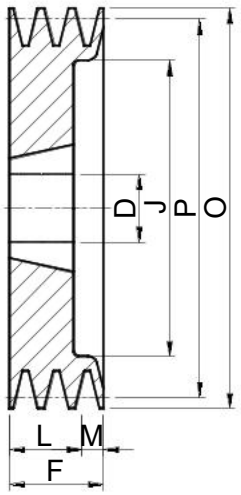
RIEMPROFIEL — RIEMENPROFIL — DIMENSIONS

V-riem schijven / Keilriemenscheiben / V-belt Pulleys		profiel / Profil / profile	SPZ	SPA	SPB	SPC
Riem profiel volgens / Riemenprofil nach / V-belts according	-	DIN 7753	XPZ/SPZ	XPA/SPA	XPB/SPB	XPC/SPC
		ISO 4183	SPZ	SPA	SPB	SPC
		DIN 2215	10	13	17	22
		ISO 2215	Z	A	B	C

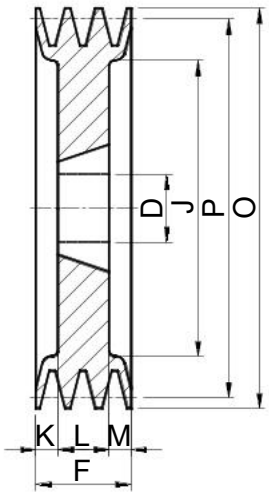
$D_{w\ min}$	voor continu bedrijf / für Dauerbetrieb / for continuous use	-	63	90	140	224



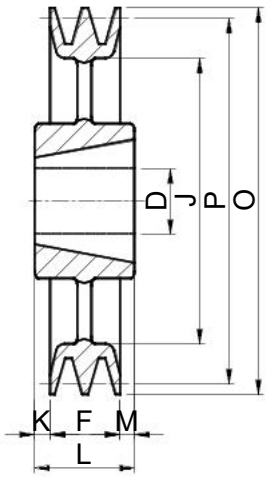
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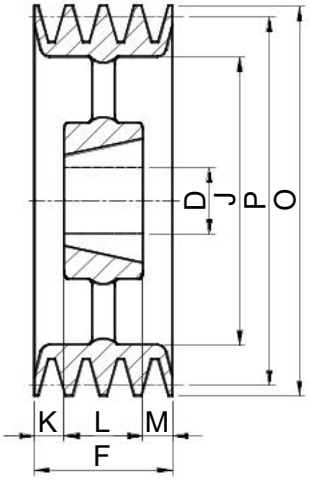
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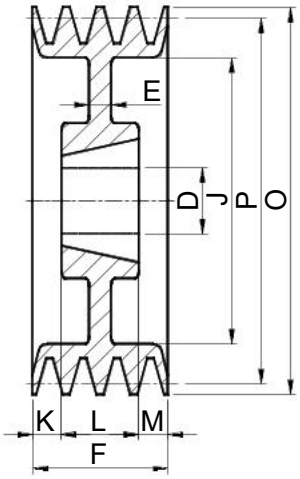
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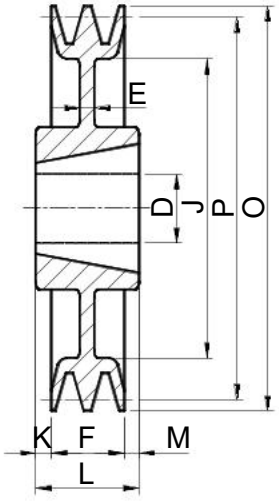
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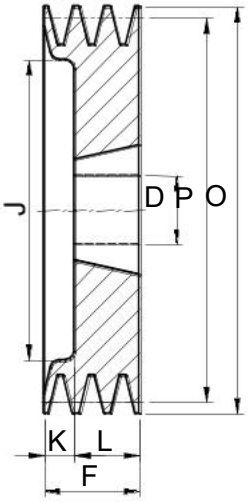
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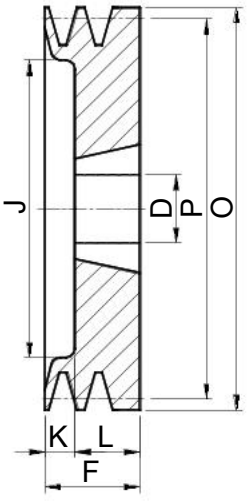
Type 6



Type 7

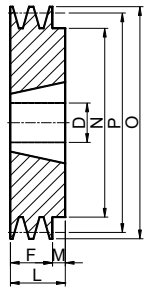


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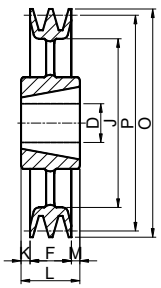


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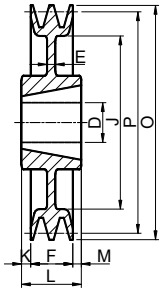
SPZ1/Z1 SPZ1/Z1



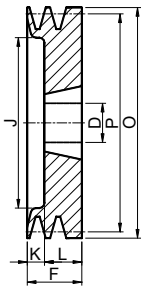
Type 1



Type 4



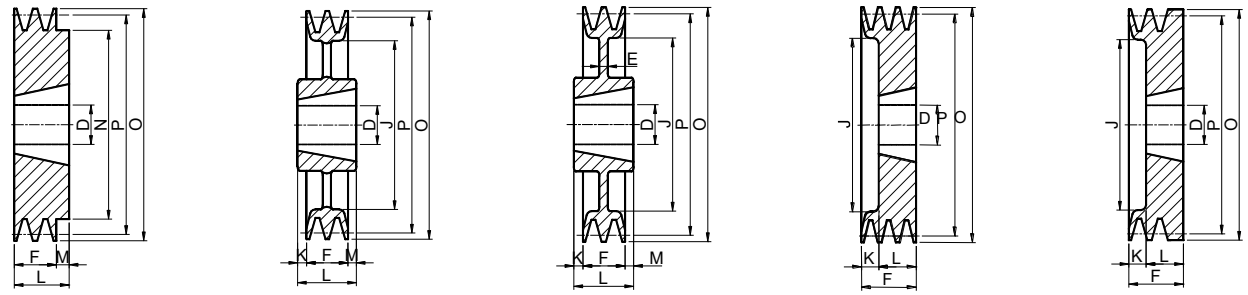
Type 7



Type 9

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161104Z005001	50	54	1008	25	9		37	28	15,0	22			0,33
161104Z005601	56	60	1008	25	9		37	33	15,0	22			0,44
161104Z006001	60	64	1008	25	9		22			22			0,28
161104Z006301	63	67	1108	28	1		16			22	6,0	62	0,28
161104Z006701	67	71	1108	28	1		16			22	6,0	62	0,32
161104Z007101	71	75	1108	28	1		16			22	6,0	62	0,37
161104Z007501	75	79	1108	28	1		16			22	6,0	62	0,42
161104Z008001	80	84	1210	32	1		16			25	9,0	75	0,51
161104Z008501	85	89	1210	32	1		16			25	9,0	75	0,58
161104Z009001	90	94	1210	32	1		16			25	9,0	75	0,66
161104Z009501	95	99	1210	32	1		16			25	9,0	75	0,74
161104Z010001	100	104	1210	32	1		16			25	9,0	75	0,83
161104Z010601	106	110	1610	42	1		16			25	9,0	80	0,84
161104Z011201	112	116	1610	42	1		16			25	9,0	80	0,95
161104Z011801	118	122	1610	42	1		16			25	9,0	80	1,08
161104Z012501	125	129	1610	42	1		16			25	9,0	80	1,23
161104Z013201	132	136	1610	42	1		16			25	9,0	80	1,40
161104Z014001	140	144	1610	42	1		16			25	9,0	80	1,59
161104Z015001	150	154	1610	42	1		16			25	9,0	80	1,86
161104Z016001	160	164	1610	42	1		16			25	9,0	80	2,14
161104Z017001	170	174	1610	42	1		16			25	9,0	80	2,44
161104Z018001	180	184	1610	42	1		16			25	9,0	80	1,98
161104Z019001	190	194	1610	50	7	8	16	162		25	9,0	80	2,17
161104Z020001	200	204	2012	50	7	8	16	172		32	16,0	100	2,74
161104Z022401	224	228	2012	50	7	8	16	196		32	16,0	100	3,26
161104Z025001	250	254	2012	50	4		16	222	8,0	32	8,0	100	3,03
161104Z028001	280	284	2012	50	4		16	252	8,0	32	8,0	100	3,38
161104Z031501	315	319	2012	50	4		16	287	8,0	32	8,0	100	4,26
161104Z035501	355	359	2012	50	4		16	326	8,0	32	8,0	112	4,82
161104Z040001	400	404	2012	50	4		16	371	8,0	32	8,0	112	5,44
161104Z045001	450	454	2517	65	4		16	421	14,5	45	14,5	120	6,97

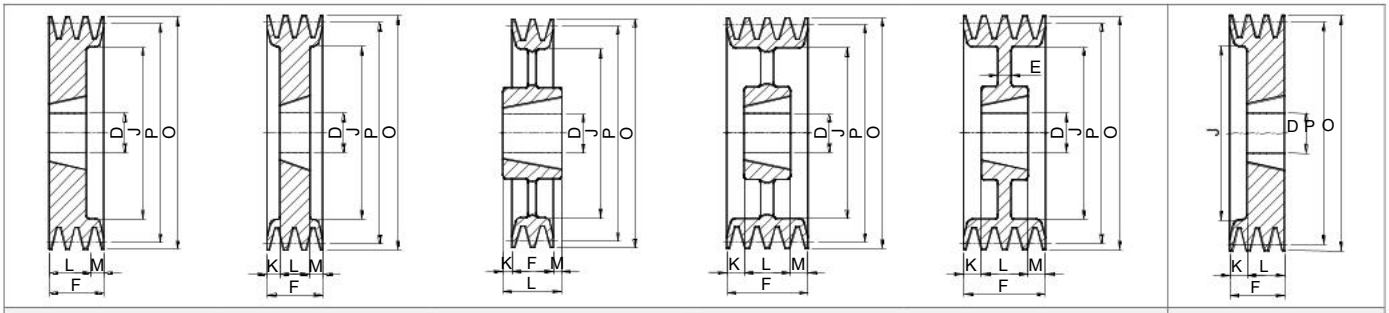
SPZ2/Z2 SPZ2/Z2



Type 1 **Type 4** **Type 7** **Type 8** **Type 9**

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161104Z005002	50	54	1008	25	9		49	28	27,0	22			0,41
161104Z005602	56	60	1108	28	9		49	35	27,0	22			0,49
161104Z006002	60	64	1108	28	9		49	36	27,0	22			0,61
161104Z006302	63	67	1108	28	8		28	40	6,0	22			0,30
161104Z006702	67	71	1108	28	8		28	42	6,0	22			0,38
161104Z007102	71	75	1108	28	8		28	42	6,0	22			0,45
161104Z007502	75	79	1210	32	8		28	51	3,0	25			0,42
161104Z008002	80	84	1210	32	8		28	51	3,0	25			0,54
161104Z008502	85	89	1610	42	8		28	60	3,0	25			0,51
161104Z009002	90	94	1610	42	8		28	61	3,0	25			0,63
161104Z009502	95	99	1610	42	8		28	66	3,0	25			0,77
161104Z010002	100	104	1610	42	8		28	71	3,0	25			0,91
161104Z010602	106	110	1610	42	8		28	76	3,0	25			1,08
161104Z011202	112	116	1610	42	8		28	84	3,0	25			1,27
161104Z011802	118	122	1610	42	8		28	90	3,0	25			1,47
161104Z012502	125	129	1610	42	8		28	97	3,0	25			1,71
161104Z013202	132	136	1610	42	8		28	104	3,0	25			1,97
161104Z014002	140	146	1610	42	8		28	112	3,0	25			2,28
161104Z015002	150	154	2012	50	1		28			32	4,0	100	2,79
161104Z016002	160	164	2012	50	1		28			32	4,0	100	3,28
161104Z017002	170	174	2012	50	1		28			32	4,0	100	3,80
161104Z018002	180	184	2012	50	7		28	152		32	4,0	100	2,98
161104Z019002	190	194	2012	50	7	10	28	162		32	4,0	100	3,23
161104Z020002	200	204	2012	50	7	10	28	172		32	4,0	100	3,50
161104Z022402	224	228	2012	50	7	10	28	196		32	4,0	100	4,20
161104Z025002	250	254	2012	50	4	10	28	222	2,0	32	2,0	100	4,04
161104Z028002	280	284	2012	50	4		28	252	2,0	32	2,0	100	4,55
161104Z031502	315	319	2012	50	4		28	286	2,0	32	2,0	100	5,78
161104Z035502	355	359	2012	50	4		28	327	2,0	32	2,0	100	6,59
161104Z040002	400	404	2517	65	4		28	372	8,5	45	8,5	120	8,27
161104Z045002	450	454	2517	65	4		28	422	8,5	45	8,5	120	9,28
161104Z050002	500	504	2517	65	4		28	472	8,5	45	8,5	120	11,48
161104Z063002	630	634	2517	65	4		28	522	8,5	45	8,5	120	14,50

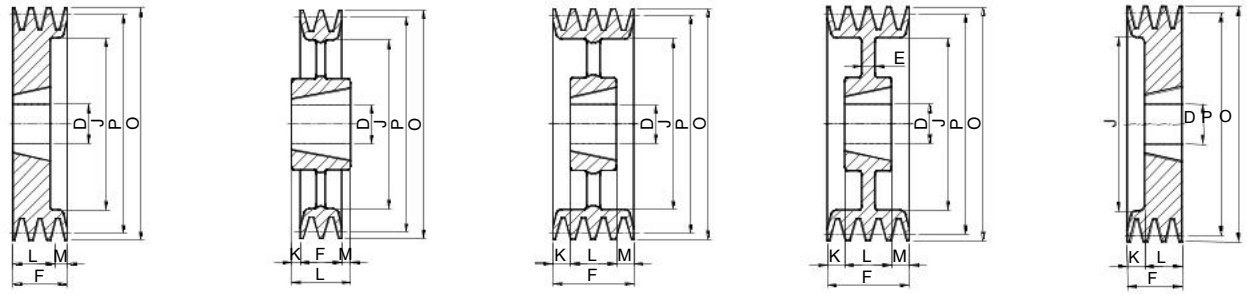
SPZ3/Z3 SPZ3/Z3



Type 2 | Type 3 | Type 4 | Type 5 | Type 6 | Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161104Z006303	63	67	1108	28	8		40	40	18,0	22			0,41
161104Z006703	67	71	1108	28	8		40	42	18,0	22			0,51
161104Z007103	71	75	1108	28	8		40	42	18,0	22			0,61
161104Z007503	75	79	1210	32	8		40	48	15,0	25			0,56
161104Z008003	80	84	1210	32	8		40	51	15,0	25			0,70
161104Z008503	85	89	1610	42	8		40	60	15,0	25			0,68
161104Z009003	90	94	1610	42	8		40	61	15,0	25			0,83
161104Z009503	95	99	1610	42	8		40	66	15,0	25			1,00
161104Z010003	100	104	1610	42	8		40	71	15,0	25			1,15
161104Z010603	106	110	1610	42	8		40	78	15,0	25			1,35
161104Z011203	112	116	2012	80	8		40	84	8,0	32			1,44
161104Z011803	118	122	2012	50	8		40	92	8,0	32			1,69
161104Z012503	125	129	2012	50	2		40	97		32	8,0		2,01
161104Z013203	132	136	2012	50	2		40	104		32	8,0		2,35
161104Z014003	140	144	2012	50	2		40	112		32	8,0		2,75
161104Z015003	150	154	2012	50	2		40	122		32	8,0		3,30
161104Z016003	160	164	2012	50	2		40	132		32	8,0		3,88
161104Z017003	170	174	2012	50	3		40	142	4,0	32	4,0		4,49
161104Z018003	180	184	2012	50	6	8	40	152		32	8,0	100	3,30
161104Z019003	190	194	2012	50	6	10	40	162	4,0	32	4,0	100	3,74
161104Z020003	200	204	2012	50	6	10	40	172	4,0	32	4,0	100	4,04
161104Z022403	224	228	2012	50	6	10	40	196	4,0	32	4,0	100	4,81
161104Z025003	250	254	2012	50	5		40	222	4,0	32	4,0	100	4,73
161104Z028003	280	284	2517	65	4		40	252	2,5	45	2,5	120	6,15
161104Z031503	315	319	2517	65	4		40	287	2,5	45	2,5	120	7,42
161104Z035503	355	359	2517	65	4		40	326	2,5	45	2,5	120	8,35
161104Z040003	400	404	2517	65	4		40	371	2,5	45	2,5	120	9,39
161104Z045003	450	454	2517	65	4		40	421	2,5	45	2,5	120	10,55
161104Z050003	500	504	2517	65	4		40	471	2,5	45	2,5	120	12,90
161104Z063003	630	634	3020	75	4		40	601	2,5	45	2,5	120	17,72
161104Z080003	800	804	3020	75	4		40	771	5,5	51	5,5	150	28,78

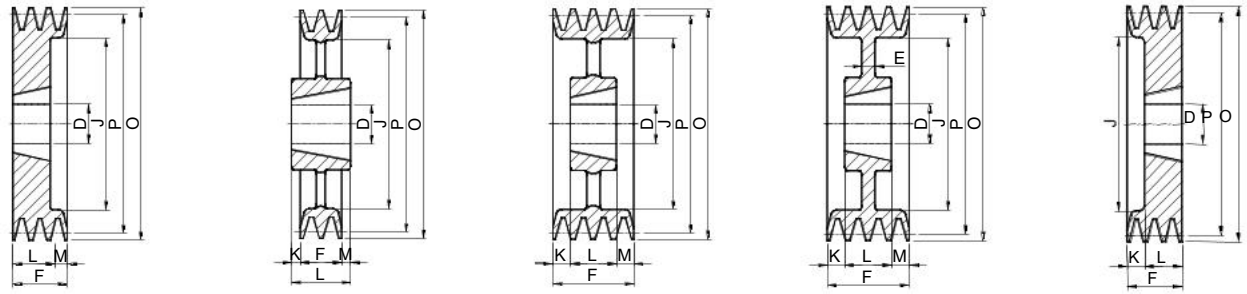
SPZ4/Z4 SPZ4/Z4



Type 2 | Type 4 | Type 5 | Type 6 | Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161104Z008004	80	84	1210	32	8		52	51	27,0	25			0,87
161104Z008504	85	89	1610	42	8		52	60	27,0	25			0,86
161104Z009004	90	94	1610	42	8		52	61	27,0	25			1,03
161104Z009504	95	99	1610	42	8		52	66	27,0	25			1,23
161104Z010004	100	104	2012	42	8		52	72	27,0	25			1,40
161104Z010604	106	110	2012	42	8		52	80	27,0	25			1,61
161104Z011204	112	116	2012	50	8		52	86	20,0	32			1,72
161104Z011804	118	122	2012	50	8		52	92	20,0	32			1,99
161104Z012504	125	129	2012	50	2		52	96		32	20,0		2,33
161104Z013204	132	136	2012	50	2		52	103		32	20,0		2,69
161104Z014004	140	144	2012	50	2		52	111		32	20,0		3,12
161104Z015004	150	154	2517	65	2		52	121		45	7,0		3,86
161104Z016004	160	164	2517	65	2		52	131		45	7,0		4,66
161104Z017004	170	174	2517	65	2		52	141		45	7,0		5,52
161104Z018004	180	184	2517	65	2		52	151		45	7,0		6,42
161104Z019004	190	194	2517	65	6	10	52	161	3,5	45	3,5	120	4,95
161104Z020004	200	204	2517	65	6	10	52	172	3,5	45	3,5	120	5,28
161104Z022404	224	228	2517	65	6	10	52	196	3,5	45	3,5	120	6,12
161104Z025004	250	254	2517	65	5		52	222	3,5	45	3,5	120	6,96
161104Z028004	280	284	2517	65	5		52	252	3,5	45	3,5	120	7,84
161104Z031504	315	319	2517	65	5		52	287	3,5	45	3,5	120	8,87
161104Z035504	355	359	2517	65	5		52	326	3,5	45	3,5	120	10,05
161104Z040004	400	404	2517	65	5		52	371	3,5	45	3,5	120	11,37
161104Z045004	450	454	3020	75	5		52	421	0,5	51	0,5	150	13,89
161104Z050004	500	504	3020	75	5		52	471	0,5	51	0,5	150	17,57
161104Z063004	630	634	3030	75	4		52	601	12,0	76	12,0	150	25,97
161104Z080004	800	804	3030	75	4		52	771	12,0	76	12,0	150	32,85

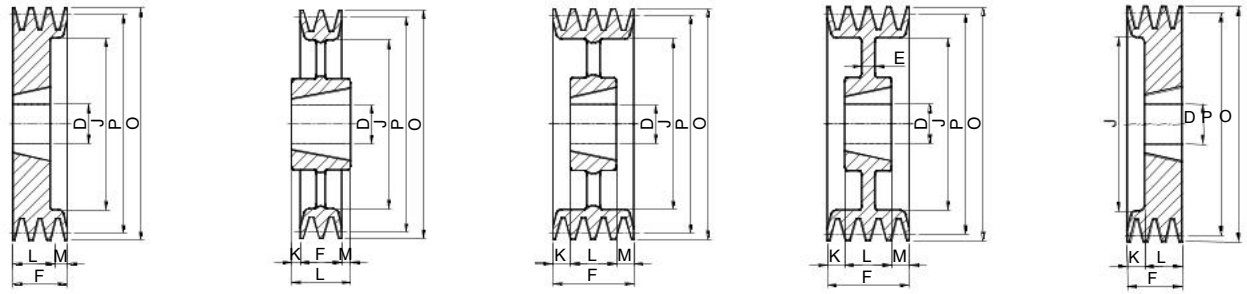
SPZ5/Z5 SPZ5/Z5



Type 2 | Type 4 | Type 5 | Type 6 | Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161104Z008505	85	89	1610	42	8		64	60	39,0	25			1,04
161104Z009005	90	94	1610	42	8		64	61	39,0	25			1,23
161104Z009505	95	99	1610	42	8		64	67	39,0	25			1,46
161104Z010005	100	104	2012	50	8		64	72	32,0	32			1,45
161104Z010605	106	110	2012	50	8		64	79	32,0	32			1,69
161104Z011205	112	116	2012	50	8		64	84	32,0	32			2,00
161104Z011805	118	122	2012	50	8		64	90	32,0	32			2,29
161104Z012505	125	129	2012	50	8		64	97	32,0	32			2,65
161104Z013205	132	136	2517	65	8		64	104	19,0	45			2,89
161104Z014005	140	144	2517	65	2		64	112		45	19,0		3,47
161104Z015005	150	154	2517	65	2		64	122		45	19,0		4,25
161104Z016005	160	164	2517	65	2		64	132		45	19,0		5,08
161104Z017005	170	174	2517	65	2		64	142		45	19,0		5,97
161104Z018005	180	184	2517	65	2		64	152		45	19,0		6,90
161104Z019005	190	194	2517	65	6	12	64	162	9,5	45	9,5	120	5,60
161104Z020005	200	204	2517	65	6	12	64	172	9,5	45	9,5	120	6,00
161104Z022405	224	228	2517	65	6	12	64	196	9,5	45	9,5	120	7,01
161104Z025005	250	254	2517	65	5		64	222	9,5	45	9,5	120	7,64
161104Z028005	280	284	2517	65	5		64	252	9,5	45	9,5	120	8,61
161104Z031505	315	319	2517	65	5		64	287	9,5	45	9,5	120	10,23
161104Z035505	355	359	2517	65	5		64	327	9,5	45	9,5	120	11,64
161104Z040005	400	404	3020	75	5		64	372	6,5	51	6,5	150	14,20
161104Z045005	450	454	3020	75	5		64	422	6,5	51	6,5	150	15,96
161104Z050005	500	504	3030	75	4		64	472	6,0	76	6,0	150	22,14
161104Z063005	630	634	3030	75	4		64	602	6,0	76	6,0	150	29,90
161104Z080005	800	804	3535	90	4		64	772	12,5	89	12,5	170	39,51

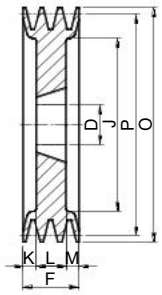
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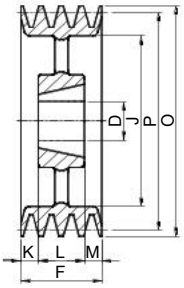
Type 2 | Type 4 | Type 5 | Type 6 | Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]								[kg]
161104Z009006	90	94	1610	42	8		76	64	51,0	25			1,43
161104Z009506	95	99	1610	42	8		76	67	51,0	25			1,69
161104Z010006	100	104	2012	50	8		76	72	44,0	32			1,70
161104Z010606	106	110	2012	50	8		76	79	44,0	32			1,94
161104Z011206	112	116	2012	50	8		76	84	44,0	32			2,28
161104Z011806	118	122	2517	65	8		76	90	31,0	45			2,24
161104Z012506	125	129	2517	65	8		76	97	31,0	45			2,72
161104Z013206	132	136	2517	65	8		76	104	31,0	45			3,23
161104Z014006	140	144	2517	65	2		76	112		45	31,0		3,84
161104Z015006	150	154	2517	65	2		76	122		45	31,0		4,64
161104Z016006	160	164	2517	65	2		76	132		45	31,0		5,5
161104Z017006	170	174	2517	65	2		76	142		45	31,0		6,42
161104Z018006	180	184	2517	65	3		76	152		45	31,0		7,38
161104Z019006	190	194	2517	65	6	10	76	162	15,5	45	15,5	120	6,25
161104Z020006	200	204	2517	65	6	10	76	172	15,5	45	15,5	120	6,72
161104Z022406	224	228	2517	65	6	10	76	196	15,5	45	15,5	120	7,90
161104Z025006	250	254	2517	65	5		76	222	15,5	45	15,5	120	8,63
161104Z028006	280	284	2517	65	5		76	252	15,5	45	15,5	120	9,78
161104Z031506	315	319	2517	65	5		76	287	15,5	45	15,5	120	11,76
161104Z035506	355	359	2517	65	5		76	327	15,5	45	15,5	120	13,44
161104Z040006	400	404	3030	75	5		76	372		76		150	17,98
161104Z045006	450	454	3030	75	5		76	422		76		150	20,08
161104Z050006	500	504	3030	75	5		76	472		76		150	25,08
161104Z063006	630	634	3535	90	4		76	602	6,5	89	6,5	170	35,00
161104Z080006	800	804	3535	90	4		76	772	6,5	89	6,5	170	46,00

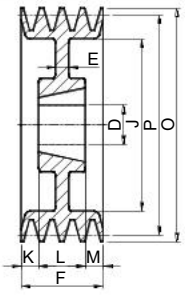
SPZ8/Z8 SPZ8/Z8



Type 3



Type 5

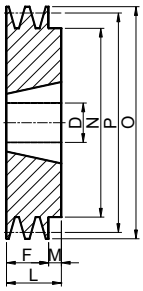


Type 6

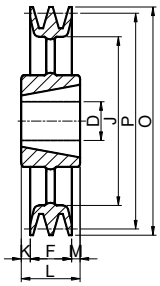
Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161104Z014008	140	144	2517	65	3		100	112	27,5	45	27,5		4,56
161104Z015008	150	154	2517	65	3		100	122	27,5	45	27,5		5,43
161104Z016008	160	164	2517	65	3		100	132	27,5	45	27,5		6,35
161104Z017008	170	174	2517	65	3		100		27,5	45	27,5		6,75
161104Z018008	180	184	2517	65	3		100	152	27,5	45	27,5		8,35
161104Z018008	190	194	3020	75	3		100						9,60
161104Z020008	200	204	3020	75	3		100	172	24,5	51	24,5		10,09
161104Z022408	224	228	3020	75	3		100	196	24,5	51	24,5		13,33
161104Z025008	250	254	3020	75	6		100	222	24,5	51	24,5		12,35
161104Z028008	280	284	3020	75	6		100	252	24,5	51	24,5	150	14,77
161104Z031508	315	319	3020	75	6		100					150	16,70
161104Z035508	355	359	3020	75	5		100	327	12,0	76	12,0	150	18,83
161104Z040008	400	404	3020	75	5		100	372	12,0	76	12,0	150	21,17
161104Z045008	450	454	3535	90	5		100	422	5,5	89	5,5	170	25,31

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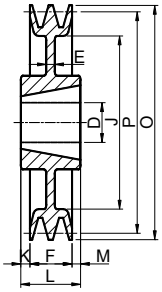
SPA1/A1 SPA1/A1



Type 1



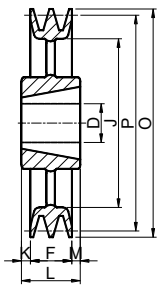
Type 4



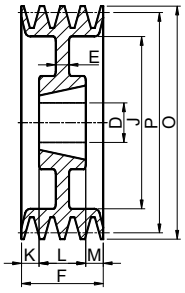
Type 7

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161101A006301	63	68,5	1008	28	1		20			22	2,0	56	0,27
161101A006701	67	72,5	1108	28	1		20			22	2,0	62	0,31
161101A007101	71	76,5	1108	28	1		20			22	2,0	62	0,37
161101A007501	75	80,5	1108	28	1		20			22	2,0	62	0,43
161101A008001	80	85,5	1210	32	1		20			25	5,0	75	0,49
161101A008501	85	90,5	1210	32	1		20			25	5,0	75	0,58
161101A009001	90	95,5	1210	32	1		20			25	5,0	75	0,67
161101A009501	95	100,5	1210	32	1		20			25	5,0	75	0,77
161101A010001	100	105,5	1610	42	1		20			25	5,0	75	0,76
161101A010601	106	111,5	1610	42	1		20			25	5,0	80	0,89
161101A011201	112	117,5	1610	42	1		20			25	5,0	80	1,04
161101A011801	118	123,5	1610	42	1		20			25	5,0	80	1,20
161101A012501	125	130,5	1610	42	1		20			25	5,0	80	1,39
161101A013201	132	137,5	1610	42	1		20			25	5,0	80	1,60
161101A014001	140	145,5	1610	42	1		20			25	5,0	80	1,84
161101A015001	150	155,5	1610	42	1		20			25	5,0	80	2,17
161101A016001	160	165,5	1610	42	1		20			25	5,0	80	3,27
161101A017001	170	175,5	1610	42	1		20			25	5,0	80	3,64
161101A018001	180	185,5	1610	42	7	6	20	146		25	5,0	80	2,06
161101A019001	190	195,5	1610	42	7	6	20	156		25	5,0	80	2,24
161101A019001	190	195,5	2012	50	7	6	20	156		32	12,0	80	2,10
161101A020001	200	205,5	2012	50	7	6	20	166		32	12,0	100	2,82
161101A021201	212	217.5	2012	50	7	8	20	178		32	12,0	100	3,30
161101A022401	224	229,5	2012	50	7	8	20	190		32	12,0	100	3,59
161101A023601	236	241.5	2012	50	7	8	20	202		32	12,0	100	3,89
161101A025001	250	255,5	2012	50	7	10	20	216	6,0	32	6,0	100	4,26
161101A028001	280	285,5	2012	50	7	10	20	246		32	12,0	100	5,11
161101A030001	300	305.5	2012	50	4		20	265		32	12,0	100	7,14
161101A031501	315	320,5	2012	50	4		20	281		32	12,0	100	4,85
161101A035501	355	360,5	2012	50	4		20	321		32	12,0	100	5,49
161101A040001	400	405,5	2012	50	4		20	366		32	12,0	100	6,22
161101A045001	450	455,5	2012	50	4		20	416		32	12,0	100	7,02
161101A050001	500	505,5	2517	65	4		20	466		45	25,0	120	8,65
161101A056001	560	565.5	2517	65	4		20	526		45	25,0	120	9,62
161101A063001	630	635,5	2517	65	4		20	596		45	25,0	120	12,39

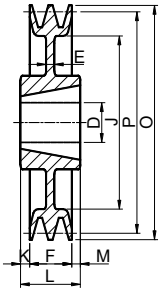
SPA2/A2 SPA2/A2



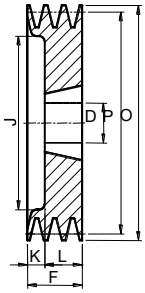
Type 4



Type 6



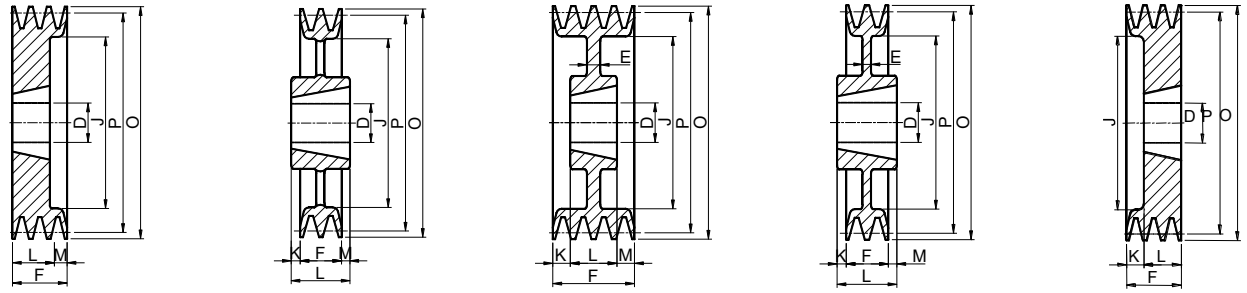
Type 7



Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161101A006302	63	68,5	1108	28	9		35	36	13,0	22			0,39
161101A006702	67	72,5	1108	28	8		35	37	13,0	22			0,45
161101A007102	71	76,5	1108	28	8		35	40	13,0	22			0,54
161101A007502	75	80,5	1108	32	8		35	44	13,0	22			0,62
161101A008002	80	85,5	1210	32	8		35	50	10,0	25			0,62
161101A008502	85	90,5	1210	32	8		35	55	10,0	25			0,74
161101A009002	90	95,5	1610	42	8		35	60	10,0	25			0,72
161101A009502	95	100,5	1610	42	8		35	64	10,0	25			0,87
161101A010002	100	105,5	1610	42	8		35	70	10,0	25			1,01
161101A010602	106	111,5	1610	42	8		35	76	10,0	25			1,19
161101A011202	112	117,5	1610	42	8		35	80	10,0	25			1,40
161101A011802	118	123,5	1610	42	8		35	86	10,0	25			1,63
161101A012502	125	130,5	1610	42	2		35	90		25			1,90
161101A013202	132	137,5	2012	50	8		35	98	3,0	32			2,16
161101A014002	140	145,5	2012	50	8		35	106	3,0	32			2,56
161101A015002	150	155,5	2012	50	8		35	116	3,0	32			3,08
161101A016002	160	165,5	2012	50	8		35	126	3,0	32			3,65
161101A017002	170	175,5	2012	50	8		35	136	3,0	32			4,25
161101A018002	180	185,5	2012	50	6		35	146	1,5	32	1,5	100	3,43
161101A019002	190	195,5	2012	50	6		35	156	1,5	32	1,5	100	3,71
161101A019002	190	195,5	2517	65	6		35	156	5,0	45	5,0	120	3,50
161101A020002	200	205,5	2517	65	7		35	166	5,0	45	5,0	120	4,71
161101A021202	212	217.5	2517	65	7		35	178		45	10,0	120	5,09
161101A022402	224	229,5	2517	65	7		35	190		45	10,0	120	5,48
161101A023602	236	241.5	2517	65	7		35	202		45	10,0	120	5,88
161101A025002	250	255,5	2517	65	4		35	216	5,0	45	5,0	120	6,38
161101A028002	280	285,5	2517	65	7		35	246		45	10,0	120	7,52
161101A030002	300	305.5	2517	65	4		35						9,00
161101A031502	315	320,5	2517	65	4		35	281		45	10,0	120	7,51
161101A035502	355	360,5	2517	65	4		35	321		45	10,0	120	8,46
161101A040002	400	405,5	2517	65	4		35	366		45	10,0	120	9,54
161101A045002	450	455,5	2517	65	4		35	416		45	10,0	120	10,73
161101A050002	500	505,5	2517	65	4		35	466		45	10,0	120	13,09
161101A056002	560	565,5	3020	75	4		35	526		51	16,0	150	15,77
161101A063002	630	635,5	3020	75	4		35	596		51	16,0	150	18,96

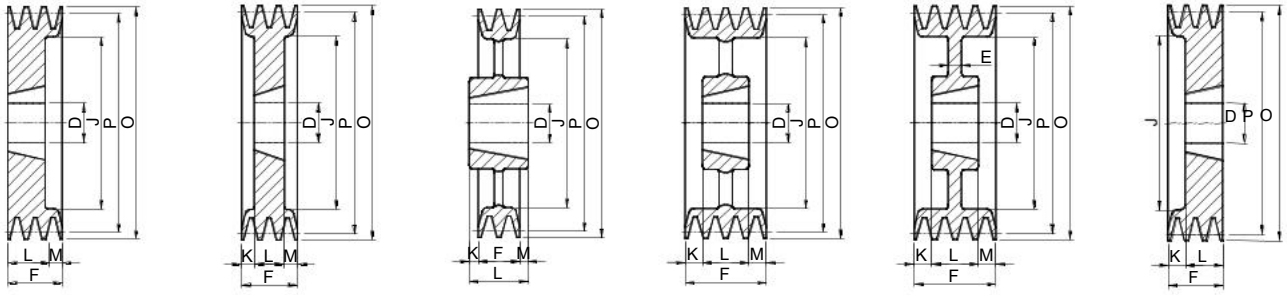
SPA3/A3 SPA3/A3



Type 2 Type 4 Type 6 Type 7 Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161101A007103	71	76,5	1108	28	8		50	40	28,0	22			0,73
161101A007503	75	80,5	1108	32	8		50	44	28,0	22			0,83
161101A008003	80	85,5	1210	32	8		50	50	25,0	25			0,84
161101A008503	85	90,5	1210	32	8		50	55	25,0	25			0,98
161101A009003	90	95,5	1610	42	8		50	60	25,0	25			0,98
161101A009503	95	100,5	1610	42	8		50	64	25,0	25			1,15
161101A010003	100	105,5	1610	42	2		50	70		25	25,0		1,30
161101A010603	106	111,5	1610	42	2		50	76		25	25,0		1,50
161101A011203	112	117,5	2012	50	8		50	83	18,0	32			1,57
161101A011803	118	123,5	2012	50	2		50	86		32	18,0		1,92
161101A012503	125	130,5	2012	50	2		50	92		32	18,0		2,28
161101A013203	132	137,5	2012	50	2		50	98		32	18,0		2,65
161101A014003	140	145,5	2517	65	8		50	106	5,0	45			2,97
161101A015003	150	155,5	2517	65	8		50	116	5,0	45			3,71
161101A016003	160	165,5	2517	65	8		50	126	5,0	45			4,50
161101A017003	170	175,5	2517	65	8		50	136	5,0	45			5,34
161101A018003	180	185,5	2517	65	8		50	146	5,0	45			6,24
161101A019003	190	195,5	2517	65	8		50	156	5,0	45			7,19
161101A020003	200	205,5	2517	65	6	12	50	166	2,5	45	2,5	120	5,65
161101A212003	212	217.5	2517	65	6	12	50	178	2,5	45	2,5	120	6,12
161101A022403	224	229,5	2517	65	6	12	50	190	2,5	45	2,5	120	6,61
161101A236003	236	241.5	2517	65	6	12	50	202	2,5	45	2,5	120	7,13
161101A025003	250	255,5	2517	65	6	12	50	216	2,5	45	2,5	120	7,75
161101A028003	280	285,5	2517	65	6	12	50	246	2,5	45	2,5	120	9,19
161101A300003	300	305.5	3020	75	7	12	50						9,49
161101A031503	315	320,5	3020	75	7	12	50	281	0,5	51	0,5	150	10,39
161101A035503	355	360,5	3020	75	4		50	321	0,5	51	0,5	150	11,64
161101A040003	400	405,5	3020	75	4		50	366	0,5	51	0,5	150	13,06
161101A045003	450	455,5	3020	75	4		50	416	0,5	51	0,5	150	14,64
161101A050003	500	505,5	3020	75	4		50	466	0,5	51	0,5	150	17,13
161101A056003	560	565,5	3020	75	4		50	526	0,5	51	0,5	150	19,19
161101A063003	630	635,5	3020	75	4		50	596	0,5	51	0,5	150	23,35
161101A080003	800	805,5	3535	90	4		50	766	19,5	89	19,5	170	34,11
161101A900003	900	905.5	3535	90	4		50						46,40
161101A100003	1000	1005,5	3535	90	4		50	966	19,5	89	19,5	170	49,31

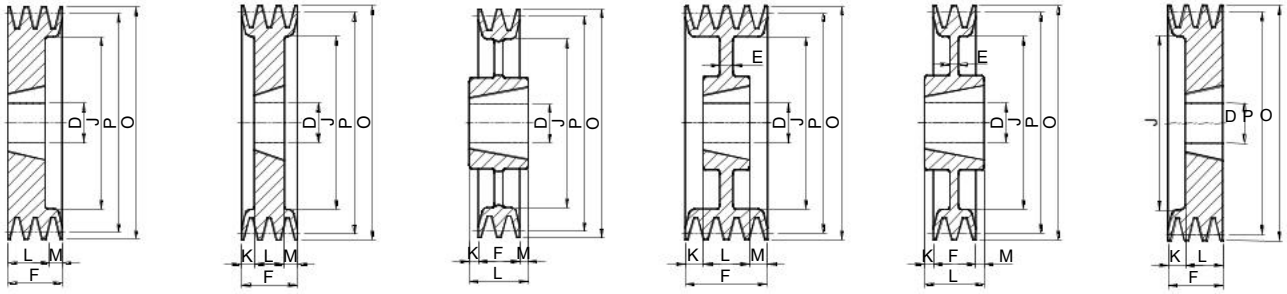
SPA4/A4 SPA4/A4



Type 2 | Type 3 | Type 4 | Type 5 | Type 6 | Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161101A008004	80	85.5	1215	32	8		65	49	27,0	38			1,00
161101A008504	85	90.5	1215	32	8		65	49	27,0	38			1,20
161101A009004	90	95,5	1615	42	8		65	64	27,0	38			1,29
161101A009504	95	100,5	1615	42	8		65	64	27,0	38			1,53
161101A010004	100	105,5	1615	42	2		65	70		38	27,0		1,74
161101A010604	106	111,5	2012	50	8		65	76	33,0	32			1,64
161101A011204	112	117,5	2012	50	8		65	80	33,0	32			1,98
161101A011804	118	123,5	2012	50	2		65	86		32	33,0		2,32
161101A012504	125	130,5	2012	50	2		65	92		32	33,0		2,71
161101A013204	132	137,5	2517	65	2		65	98		45	20,0		2,90
161101A014004	140	145,5	2517	65	2		65	106		45	20,0		3,49
161101A015004	150	155,5	2517	65	2		65	116		45	20,0		4,27
161101A016004	160	165,5	2517	65	2		65	126		45	20,0		5,11
161101A017004	170	175,5	2517	65	2		65	138		45	20,0		5,99
161101A018004	180	185,5	2517	65	2		65	146		45	20,0		6,93
161101A019004	190	195,5	2517	65	2		65	156		45	20,0		7,93
161101A020004	200	205,5	3020	75	2		65	166		51	14,0		8,43
161101A021204	212	217.5	3020	75	2		65	178		51	14,0		9,90
161101A022404	224	229,5	3020	75	2		65	190		51	14,0		11,46
161101A023604	236	241.5	3020	75	6	14	65	202		51	14,0	150	9,13
161101A025004	250	255,5	3020	75	6	14	65	216	7,0	51	7,0	150	9,88
161101A028004	280	285,5	3020	75	6	14	65	246	7,0	51	7,0	150	11,61
161101A030004	300	305.5	3020	75	6	14	65	265	7,0	51	7,0	150	12,84
161101A031504	315	320,5	3020	75	6	14	65	281	7,0	51	7,0	150	13,81
161101A035504	355	360,5	3020	75	5		65	321	7,0	51	7,0	150	13,61
161101A040004	400	405,5	3020	75	5		65	366	7,0	51	7,0	150	15,35
161101A045004	450	455,5	3020	75	5		65	416	7,0	51	7,0	150	17,28
161101A045004	450	455,5	3535	90	5		65	416	12,0	89	12,0	170	17,00
161101A050004	500	505,5	3020	75	5		65	466	7,0	51	7,0	150	21,80
161101A056004	560	565,5	3535	90	4		65	526	12,0	89	12,0	170	27,91
161101A063004	630	635,5	3535	90	4		65	596	12,0	89	12,0	170	33,21
161101A080004	800	805,5	3535	90	4		65	766	12,0	89	12,0	170	42,98
161101A900004	900	905.5	4040	100	4		65						46,40
161101A100004	1000	1.005,5	3535	90	4		65	965	18,5	102	18,5	200	64,66

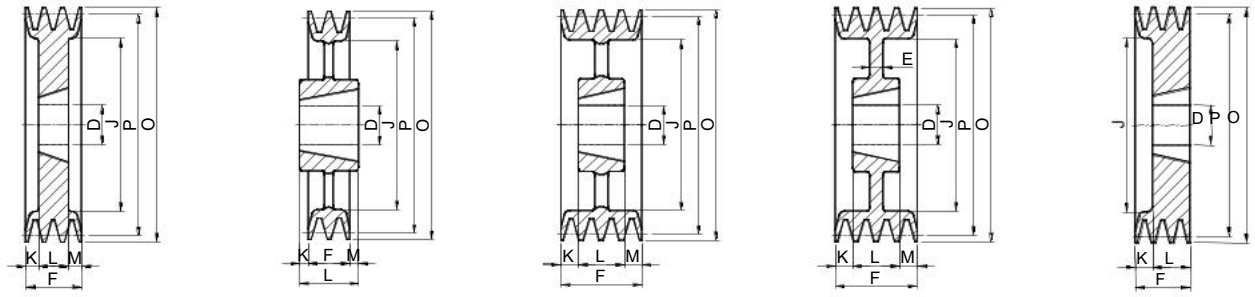
SPA5/A5 SPA5/A5



Type 2 | Type 3 | Type 4 | Type 6 | Type 7 | Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161101A009005	90	95,5	1615	42	3		80	60		38	21,0		1,04
161101A009505	95	100,5	1615	42	3		80	64		38	21,0		1,06
161101A010005	100	105,5	1615	42	2		80	70		38	42,0		2,03
161101A010605	106	111,5	2012	50	8		80	76	48,0	32			1,95
161101A011205	112	117,5	2012	50	8		80	80	48,0	32			2,34
161101A011805	118	123,5	2012	50	2		80	86		32	48,0		2,71
161101A012505	125	130,5	2012	50	2		80	92		32	48,0		3,15
161101A013205	132	137,5	2517	65	3		80	98	17,5	45	17,5		3,39
161101A014005	140	145,5	2517	65	2		80	106		45	35,0		4,01
161101A015005	150	155,5	2517	65	3		80	116	17,5	45	17,5		4,83
161101A016005	160	165,5	2517	65	2		80	126		45	35,0		5,71
161101A017005	170	175,5	3020	75	3		80	136	14.5	51	14,5		5,78
161101A018005	180	185,5	3020	75	2		80	146		51	29,0		6,87
161101A019005	190	195,5	3020	75	3		80	156	14,5	51	14,5		8,01
161101A020005	200	205,5	3020	75	3		80	166	14,5	51	14,5		9,21
161101A021205	212	217,5	3020	75	2		80	178		51	29,0		10,73
161101A022405	224	229,5	3020	75	2		80	190		51	29,0		12,34
161101A023605	236	241,5	3020	75	2		80	202		51	29,0		14,03
161101A025005	250	255,5	3020	75	6	14	80	216	14,5	51	14,5	150	10,88
161101A028005	280	285,5	3535	90	7	14	80	246	4,5	89	4,5	170	15,95
161101A030005	300	305,5	3535	90	7		80	265	4.5	89	4.5	170	17,27
161101A031505	315	320,5	3020	75	7	14	80	281	4,5	89	4,5	170	18,30
161101A031505	315	320,5	3535	90	7	12	80	281		89	9,0	170	18,00
161101A035505	355	360,5	3535	90	4		80	321	4,5	89	4,5	170	19,11
161101A040005	400	405,5	3535	90	4		80	366	4,5	89	4,5	170	21,22
161101A045005	450	455,5	3535	90	4		80	416	4,5	89	4,5	170	23,56
161101A050005	500	505,5	3535	90	4		80	466	4,5	89	4,5	170	28,60
161101A056005	560	565,5	3535	90	4		80	526	4,5	89	4,5	170	31,94
161101A063005	630	635,5	3535	90	4		80	596	4,5	89	4,5	170	37,49
161101A080005	800	805,5	4040	100	4		80	766	11,0	102	11,0	200	52,55
161101A100005	1.000	1.005,5	4545	110	4		80	966	17,0	114	17,0	225	77,52

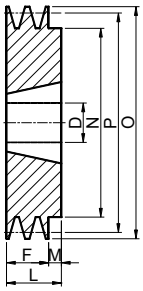
SPA6/A6 SPA6/A6



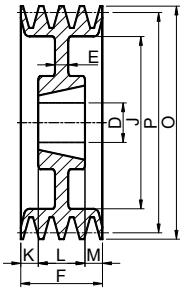
Type 3 | Type 4 | Type 5 | Type 6 | Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161101A010006	100	105,5	1615	42	3		95	70	28,5	38	28,5		2,32
161101A010606	106	111,5	2012	50	8		95	76	63,0	32			2,27
161101A011206	112	117,5	2012	50	8		95	80	63,0	32			2,70
161101A011806	118	123,5	2012	50	8		95	86	63,0	32			3,11
161101A012506	125	130,5	2012	50	3		95	92	31,5	32	31,5		3,59
161101A013206	132	137,5	2517	65	3		95	98	25,0	45	25,0		3,87
161101A014006	140	145,5	2517	65	3		95	106	25,0	45	25,0		4,53
161101A015006	150	155,5	2517	65	3		95	116	25,0	45	25,0		5,40
161101A016006	160	165,5	2517	65	3		95	126	25,0	45	25,0		6,32
161101A017006	170	175,5	3020	75	3		95	136	22,0	51	22,0		6,43
161101A018006	180	185,5	3020	75	2		95	146	22,0	51	44,0		7,56
161101A019006	190	195,5	3020	75	3		95	156	22,0	51	22,0		8,75
161101A020006	200	205,5	3020	75	3		95	166	22,0	51	22,0		9,99
161101A021206	212	217,5	3020	75	3		95	178	22,0	51	22,0		11,56
161101A022406	224	229,5	3020	75	2/3		95	190	22,0	51	44/22		13,22
161101A023606	236	241,5	3020	75	3		95	202	22,0	51	22,0		14,40
161101A025006	250	255,5	3020	75	6	18	95	216	22,0	51	22,0	150	12,44
161101A028006	280	285,5	3535	90	6	18	95	246	3,0	89	3,0	170	17,82
161101A030006	300	305,5	3535	90	6		95	265	3,0	89	3,0	175	19,46
161101A031506	315	320,5	3535	90	6	18	95	281	3,0	89	3,0	170	20,75
161101A035506	355	360,5	3535	90	5		95	321	3,0	89	3,0	170	21,21
161101A040006	400	405,5	3535	90	5		95	366	3,0	89	3,0	170	23,71
161101A045001	450	455,5	3535	90	5		95	416	3,0	89	3,0	170	26,48
161101A050006	500	505,5	3535	90	5		95	466	3,0	89	3,0	170	34,39
161101A056006	560	565,5	3535	90	5		95	526	3,0	89	3,0	170	37,52
161101A063006	630	635,5	4040	100	4		95	596	3.5	102	3.5	200	48,30
161101A080006	800	805,5	4040	100	4		95	766	3,5	102	3,5	200	62,27
161101A100006	1000	1005,5	4545	115	4		95	966	9,5	114	9,5	225	88,87

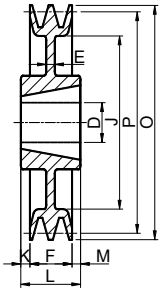
SPB1/B1 SPB1/B1



Type 1



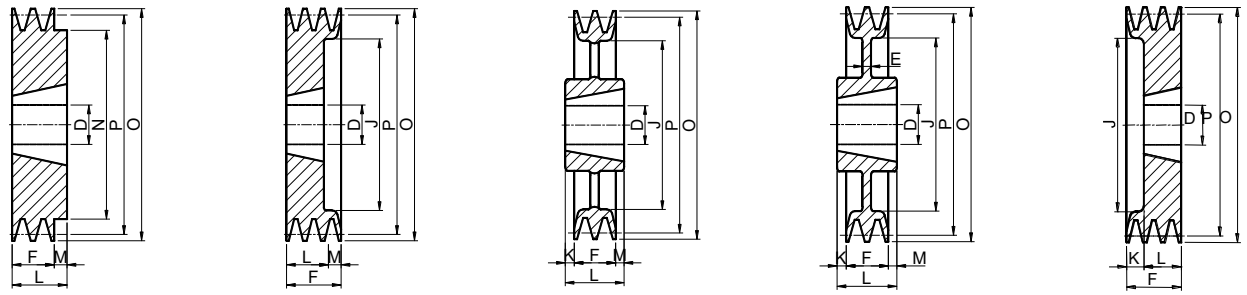
Type 6



Type 7

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B010001	100	107	1610	42	1		25			25			0,79
161102B010601	106	113	1610	42	1		25			25			0,80
161102B011201	112	119	1610	42	1		25			25			1,17
161102B011801	118	125	1610	42	1		25			25			1,36
161102B012501	125	132	1610	42	1		25			25			1,59
161102B013201	132	139	1610	42	1		25			25			1,85
161102B014001	140	147	1610	42	1		25			25			2,15
161102B015001	150	157	1610	42	1		25			25			2,56
161102B016001	160	167	1610	42	1		25			25			3,00
161102B017001	170	177	1610	42	1		25			25			3,46
161102B018001	180	187	1610	42	6	10	25	137		25		80	2,8
161102B019001	190	197	2012	50	7	10	25	147	3,5	32	3,5	100	3,42
161102B020001	200	207	2012	50	7	10	25	157	3,5	32	3,5	100	3,7
161102B021201	212	219	2012	50	7	10	25	169	3,5	32	3,5	100	4,06
161102B022401	224	231	2012	50	7	10	25	181	3,5	32	3,5	100	4,43
161102B023601	236	243	2012	50	7	10	25	193	3,5	32	3,5	100	4,81
161102B025001	250	257	2012	50	7	10	25	207	3,5	32	3,5	100	5,29
161102B028001	280	287	2012	50	7	10	25	237	3,5	32	3,5	100	6,38
161102B030001	300	307	2012	50	7	10	25	257	3,5	32	3,5	100	7,17
161102B031501	315	322	2012	50	7	10	25	272	3,5	32	3,5	100	7,79
161102B040001	400	407	2517	65	4		25	357	10,0	45	10	120	

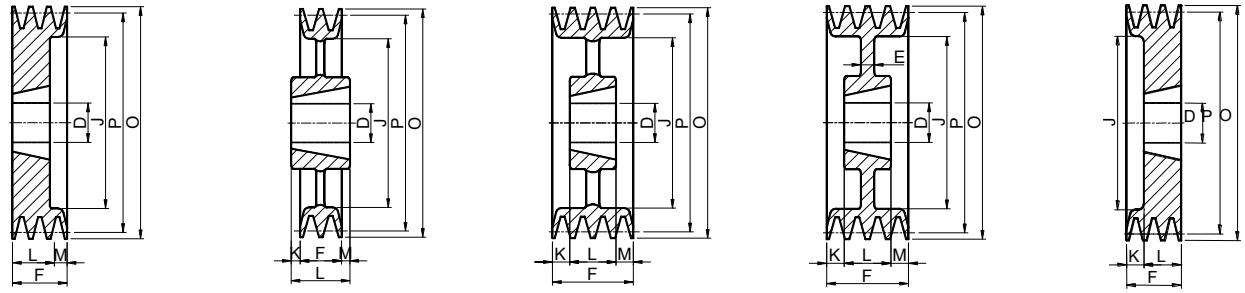
SPB2/B2 SPB2/B2



Type 1 **Type 2** **Type 4** **Type 7** **Type 8**

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B010002	100	107	1610	42	2		44	62		25	19,0		1,23
161102B010602	106	113	1610	42	2		44	67		25	19,0		1,60
161102B011202	112	119	2012	50	8		44	72	12,0	32			1,68
161102B011802	118	125	2012	50	2		44	78		25	19,0		1,90
161102B012502	125	132	2012	50	2		44	82		32	12,0		2,11
161102B013202	132	139	2012	50	2		44	89		32	12,0		2,45
161102B014002	140	147	2012	50	2		44	97		32	12,0		2,86
161102B015002	150	157	2012	50	2		44	107		32	12,0		3,42
161102B016002	160	167	2012	50	2		44	117		32	12,0		4,01
161102B017002	170	177	2012	50	2		44	127		32	12,0		4,63
161102B018002	180	187	2517	65	1		44			45	1,0	120	5,74
161102B019002	190	197	2517	65	1		44			45	1,0	120	6,69
161102B020002	200	207	2517	65	1		44			45	1,0	120	7,65
161102B021202	212	219	2517	65	7	10	44	169		45	1,0	120	6,05
161102B022402	224	231	2517	65	7	10	44	181	1,0	45		120	6,50
161102B023602	236	243	2517	65	7	10	44	193	1,0	45		120	6,97
161102B025002	250	257	2517	65	7	10	44	207	1,0	45		120	7,54
161102B028002	280	287	2517	65	7	12	44	237	1,0	45		120	9,33
161102B030002	300	307	2517	65	7	12	44	257	1,0	45		120	10,37
161102B031502	315	322	2517	65	7	12	44	272	1,0	45		120	11,19
161102B033502	335	342	2517	65	7	12	44	292	1,0	45		120	12,33
161102B035502	355	362	3020	75	4		44	312	3,5	51	3,5	150	12,10
161102B040002	400	407	3020	75	4		44	357	3,5	51	3,5	150	13,61
161102B045002	450	457	3020	75	4		44	407	3,5	51	3,5	150	15,28
161102B050002	500	507	3020	75	4		44	457	3,5	51	3,5	150	17,86
161102B056002	560	567	3030	75	4		44	517	4,0	76	28	150	21,81
161102B063002	630	637	3030	75	4		44	587	4,0	76	28	150	26,07

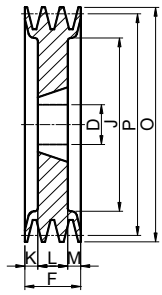
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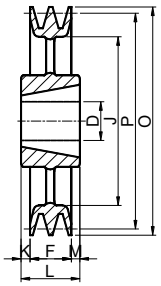
Type 2 **Type 4** **Type 5** **Type 6** **Type 8**

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B010003	100	107	1610	42	8		63	62	38	25			1,67
161102B010603	106	113	1610	42	8	0	63	67	38	25			1,80
161102B011203	112	119	1610	42	8		63	72	38	25			2,22
161102B011803	118	125	1610	42	2		63	78		25	38		2,48
161102B012503	125	132	2012	50	2		63	82		32	31		2,78
161102B013203	132	139	2012	50	2		63	89		32	31		3,17
161102B014003	140	147	2012	50	2		63	97		32	31		3,64
161102B015003	150	157	2517	65	2		63	107		45	18		4,17
161102B016003	160	167	2517	65	2		63	117		45	18		5,00
161102B017003	170	177	2517	65	2		63	127		45	18		5,88
161102B018003	180	187	2517	65	2		63	137		45	18		6,81
161102B019003	190	197	2517	65	2		63	147		45	18		7,87
161102B020003	200	207	2517	65	2		63	157		45	18		8,92
161102B021203	212	219	2517	65	6	12	63	169		45	18	120	7,50
161102B022403	224	231	2517	65	6	12	63	181		45	18	120	8,09
161102B023603	236	243	2517	65	6	12	63	193		45	18	120	8,69
161102B025003	250	257	3020	75	6	12	63	207		51	12	150	10,28
161102B028003	280	287	3020	75	6	12	63	237	6	51	6	150	11,94
161102B030003	300	307	3020	75	6	12	63	257	6	51	6	150	13,12
161102B031503	315	322	3020	75	6	12	63	272	6	51	6	150	14,04
161102B033503	335	342	3020	75	6	12	63	292	6	51	6	150	15,31
161102B035503	355	362	3020	75	5		63	312	6	51	6	150	14,86
161102B040003	400	407	3535	90	4		63	357	13	89	13	170	20,25
161102B045003	450	457	3535	90	4		63	407		89	26	170	22,41
161102B050003	500	507	3535	90	4		63	457		89	26	170	26,95
161102B056003	560	567	3535	90	4		63	517		89	26	170	30,03
161102B063003	630	637	3535	90	4		63	587		89	26	170	35,61
161102B071003	710	717	3535	90	4		63	667	4	89	22	170	40,09
161102B080003	800	807	3535	90	4		63	757	4	89	22	170	46,15
161102B090003	900	907	3535	90	4		63	857	4	89	22	170	58,30
161102B100003	1000	1007	4040	100	4		63	957	6	102	33	200	68,66
161102B125003	1250	1257	4040	100	4		63	1207	6	102	33	200	103,08

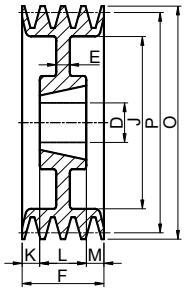
SPB4/B4 SPB4/B4



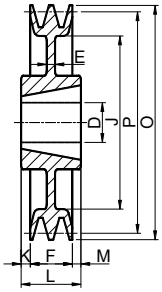
Type 3



Type 4



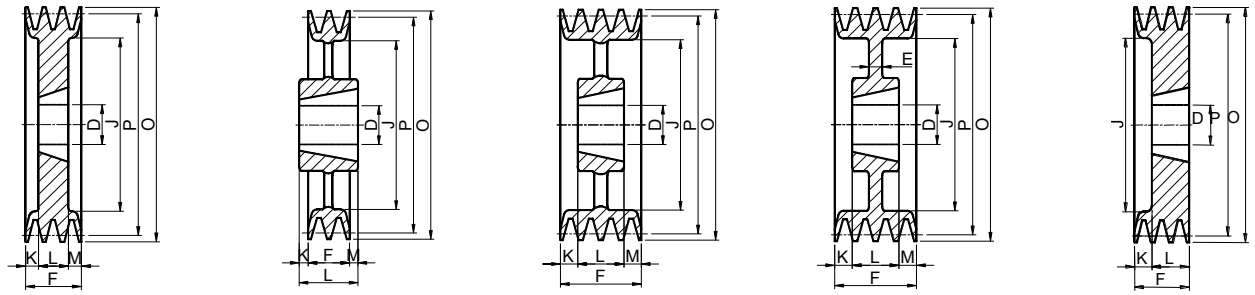
Type 6



Type 7

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B010004	100	107	1215	32	3		82	62	22	38	22	100	2,20
161102B010604	106	113	1610	42	3		82	67	28,5	25	28,5	106	1,10
161102B011204	112	119	1610	42	3		82	72	28,5	25	28,5	112	2,80
161102B011804	118	125	1610	42	3		82	78	28	25	28	118	3,00
161102B012504	125	132	2012	50	3		82	82	25	32	25	125	3,45
161102B013204	132	139	2012	50	3		82	89	25	32	25	132	3,89
161102B014004	140	147	2517	65	3		82	97	18,5	45	18,5	140	5,13
161102B015004	150	157	2517	65	3		82	107	18,5	45	18,5	150	5,01
161102B016004	160	167	2517	65	3		82	117	18,5	45	18,5	160	5,9
161102B017004	170	177	2517	65	3		82	127	18,5	45	18,5	170	6,85
161102B018004	180	187	2517	65	3		82	137	18,5	45	18,5	180	7,85
161102B019004	190	197	2517	65	3		82	147	18,5	45	18,5	190	9,01
161102B020004	200	207	3020	75	3		82	157	15,5	51	15,5	200	9,48
161102B021204	212	219	3020	75	3		82	169	15,5	51	15,5	212	11,03
161102B022404	224	231	3020	75	3		82	181	15,5	51	15,5	224	12,66
161102B023604	236	243	3020	75	3		82	193	15,5	51	15,5	236	14,37
161102B025004	250	257	3020	75	6	14	82	207	15,5	51	15,5	250	12,06
161102B028004	280	287	3020	75	6	16	82	237	15,5	51	15,5	280	14,49
161102B030004	300	307	3535	75	6	16	82	257	15,5	51	15,5	300	16,03
161102B031504	315	322	3535	90	7	16	82	272	3,5	89	3,5	315	20,39
161102B033504	335	342	3535	90	7	16	82	292	3,5	89	3,5	335	22,07
161102B035504	355	362	3535	90	7	16	82	312	3,5	89	3,5	355	23,82
161102B040004	400	407	3535	90	4		82	257	3,5	89	3,5	400	23,58
161102B045004	450	457	3535	90	4		82	407		89	7	450	26,28
161102B050004	500	507	3535	90	4		82	457		89	7	500	31,6
161102B056004	560	567	3535	90	4		82	517		89	7	560	35,37
161102B063004	630	637	3535	90	4		82	587		89	7	630	41,39
161102B071004	710	717	3535	90	4		82	667	3,5	89	3,5	710	46,73
161102B080004	800	807	4040	100	4		82	757	4	102	16	800	57,66
161102B090004	900	907	4040	100	4		82	857	4	102	16	900	71,84
161102B100004	1000	1007	4040	100	4		82	957	4	102	16	1000	79,78
161102B125004	1250	1257	4545	115	4		82	1207	6	114	26	1250	115,53

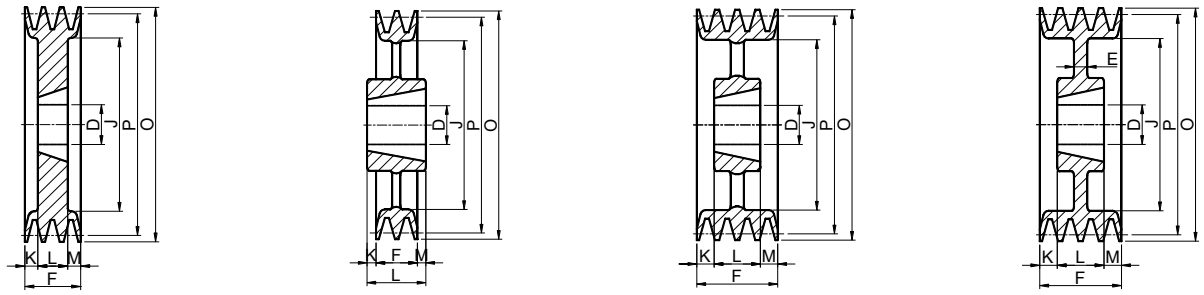
SPB5/B5 SPB5/B5



Type 3 Type 4 Type 5 Type 6 Type 8

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B011805	118	125	2012	50	9		101	78	69,0	32			3,20
161102B012505	125	132	2012	50	8		101	82	69,0	32			4,13
161102B013205	132	139	2517	65	8		101	89	56,0	45			5,22
161102B014005	140	147	2517	65	3		101	97	28,0	45	28,0		5,91
161102B015005	150	157	2517	65	3		101	107	28,0	45	28,0		5,85
161102B016005	160	167	2517	65	3		101	117	28,0	45	28,0		6,81
161102B017005	170	177	3020	75	3		101	127	25,0	51	25,0		6,89
161102B018005	180	187	3020	75	3		101	137	25,0	51	25,0		8,05
161102B019005	190	197	3020	75	3		101	147	25,0	51	25,0		9,40
161102B020005	200	207	3020	75	3		101	157	25,0	51	25,0		10,69
161102B021205	212	219	3020	75	3		101	169	25,0	51	25,0		12,32
161102B022405	224	231	3020	75	3		101	181	25,0	51	25,0		14,03
161102B023605	236	243	3535	90	3		101	193	6,0	89	6,0		19,51
161102B025005	250	257	3535	90	3		101	207	6,0	89	6,0		22,97
161102B028005	280	287	3535	90	6	16	101	237	6,0	89	6,0	170	19,38
161102B030005	300	307	3535	90	6	16	101	257	6,0	89	6,0	170	21,07
161102B031505	315	322	3535	90	6	16	101	272	6,0	89	6,0	170	22,38
161102B033505	335	342	3535	90	6	16	101	292	6,0	89	6,0	170	24,2
161102B035505	355	362	3535	90	5		101	312	6,0	89	6,0	170	24,04
161102B040005	400	407	3535	90	5		101	357	6,0	89	6,0	170	26,98
161102B045005	450	457	3535	90	5		101	407		89	12,0	170	30,23
161102B050005	500	507	3535	90	5		101	457		89	12,0	170	37,49
161102B056005	560	567	4040	100	4		101	517		102	1,0	200	45,87
161102B063005	630	637	4040	100	4		101	587		102	1,0	200	53,63
161102B071005	710	717	4040	100	4		101	667	0,5	102	0,5	200	60,39
161102B080005	800	807	4040	100	4		101	757	0,5	102	0,5	200	69,25
161102B090005	900	907	4545	110	4		101	857	6,5	114	6,5	225	88,13
161102B100005	1000	1007	4545	110	4		101	957	6,5	114	6,5	225	97,70
161102B125005	1250	1257	5050	125	4		101	1207	6,5	114	6,5	225	132,7

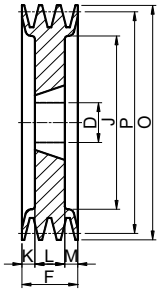
SPB6/B6 SPB6/B6



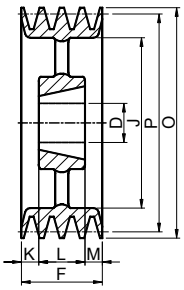
Type 3 **Type 4** **Type 5** **Type 6**

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B012506	125	132	2012	50	3		120	82	44,0	32	44,0		4,60
161102B013206	132	139	2517	65	9		120	89	75,5	45			4,80
161102B014006	140	147	2517	65	3		120	97	37,5	45	37,5		6,68
161102B015006	150	157	2517	65	3		120	107	37,5	45	37,5		6,69
161102B016006	160	167	3020	75	3		120	118	34,5	51	34,5		6,70
161102B017006	170	177	3020	75	3		120	127	34,5	51	34,5		7,87
161102B018006	180	187	3020	75	3		120	137	34,5	51	34,5		9,09
161102B019006	190	197	3020	75	3		120	147	34,5	51	34,5		10,54
161102B020006	200	207	3020	75	3		120	157	34,5	51	34,5		11,90
161102B021206	212	219	3535	90	3		120	169	15,5	89	15,5		15,36
161102B022406	224	231	3535	90	3		120	181	15,5	89	15,5		18,09
161102B023606	236	243	3535	90	3		120	193	15,5	89	15,5		20,97
161102B025006	250	257	3535	90	3		120	207	15,5	89	15,5		24,52
161102B028006	280	287	3535	90	6	18	120	237	15,5	89	15,5	170	21,46
161102B030006	300	307	3535	90	6	18	120	257	15,5	89	15,5	170	23,40
161102B031506	315	322	3535	90	6	18	120	272	15,5	89	15,5	170	24,91
161102B033506	335	342	3535	90	6	18	120	292	15,5	89	15,5	170	27,00
161102B035506	355	362	3535	90	6	18	120	312	15,5	89	15,5	170	29,17
161102B040006	400	407	3535	90	5		120	357	15,5	89	15,5	170	30,48
161102B045006	450	457	4040	100	5		120	407		102	18,0	200	38,20
161102B050006	500	507	4040	100	5		120	457		102	18,0	200	45,92
161102B056006	560	567	4040	100	5		120	517		102	18,0	200	51,40
161102B063006	630	637	4040	100	5		120	587		102	18,0	200	61,43
161102B071006	710	717	4545	100	5		120	667	3,0	114	3,0	220	69,48
161102B080006	800	807	4545	110	5		120	757	3,0	114	3,0	225	83,89
161102B090006	900	907	4545	110	5		120	857	3,0	114	3,0	225	99,65
161102B100006	1000	1.007	4545	110	5		120	957	3,0	114	3,0	225	110,76
161102B125006	1250	1.257	5050	125	4		120	1207	3,5	127	3,5	245	152,16

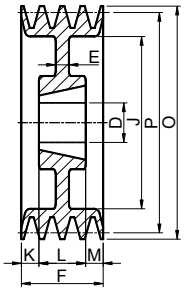
SPB8/B8 SPB8/B8



Type 3



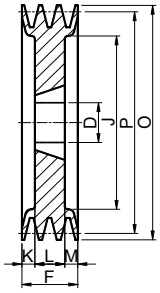
Type 5



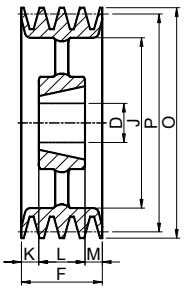
Type 6

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B014008	140	147	2525	65	3		158	97	56,5	45	56,5		7,50
161102B015008	150	157	2525	65	3		158	97	47,0	64	47,0		8,60
161102B016008	160	167	3030	75	3		158	118	41,0	76	41,0		8,52
161102B017008	170	177	3030	75	3		158	127	41,0	76	41,0		10,66
161102B018008	180	187	3030	75	3		158	137	41,0	76	41,0		12,41
161102B019008	190	197	3030	75	3		158	147	41,0	76	41,0		14,46
161102B020008	200	207	3535	90	3		158	157	34,5	89	34,5		15,19
161102B021208	212	219	3535	90	3		158	169	34,5	89	34,5		17,94
161102B022408	224	231	3535	90	3		158	181	34,5	89	34,5		20,83
161102B023608	236	243	3535	90	3		158	193	34,5	89	34,5		23,88
161102B025008	250	257	3535	90	3		158	207	34,5	89	34,5		27,62
161102B028008	280	287	3535	90	6		158	237	34,5	89	34,5	170	25,30
161102B030008	300	307	3535	90	6	20	158	257	34,5	89	34,5	170	27,63
161102B031508	315	322	3535	90	6	20	158	272	34,5	89	34,5	170	29,44
161102B033508	335	342	3535	90	6	20	158	292	34,5	89	34,5	170	31,93
161102B035508	355	362	3535	90	6	20	158	312	34,5	89	34,5	170	34,52
161102B040008	400	407	4040	100	5		158	357	28,0	102	28,0	200	39,53
161102B045008	450	457	4040	100	5		158	407	28,0	102	28,0	200	44,05
161102B050008	500	507	4040	100	5		158	457	28,0	102	28,0	200	52,47
161102B056008	560	567	4545	110	5		158	517	22,0	114	22,0	225	62,90
161102B063008	630	637	4545	110	5		158	587	22,0	114	22,0	225	73,68
161102B071008	710	717	4545	110	5		158	667	22,0	114	22,0	225	82,83
161102B080008	800	807	4545	110	5		158	757	22,0	114	22,0	225	94,57
161102B090008	900	907	4545	110	5		158	857	22,0	114	22,0	225	116,37
161102B100008	1000	1007	5050	125	5		158	957	15,5	127	15,5	245	133,31
161102B125008	1250	1257	5050	125	5		158	1207	15,5	127	15,5	245	182,03

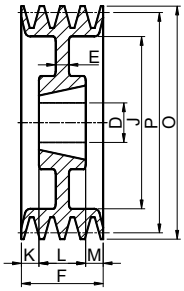
SPB10/B10 SPB10/B10



Type 3



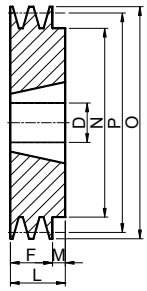
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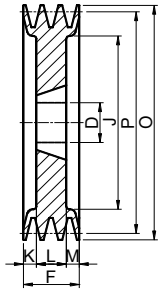
Type 6

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161102B018010	180	187	3030	75	3		196	137	60,0	76	60,0		14,80
161102B019010	190	197	3030	75	3		196	147	60,0	76	60,0		16,00
161102B020010	200	207	3535	90	3		196	157	53.5	89	53.5		17,00
161102B022410	224	231	3535	90	3		196	181	53,5	89	53,5		23,58
161102B023610	236	243	3535	90	3		196	193	53,5	89	53,5		26,79
161102B025010	250	257	3535	90	3		196	207	53,5	89	53,5		30,72
161102B028010	280	287	3535	90	6	30	196	237	53,5	89	53,5	170	28,81
161102B030010	300	307	3535	90	6	30	196	237	53,5	89	53,5	170	31,60
161102B031510	315	322	3535	90	6	30	196	272	53,5	89	53,5	170	33,43
161102B033510	335	342	4040	100	6	30	196	292	47,0	102	47,0	200	39,58
161102B035510	355	362	4040	100	6	30	196	312	47,0	102	47,0	200	42,44
161102B040010	400	407	4040	100	6	30	196	357	47,0	102	47,0	200	45,34
161102B045010	450	457	4545	110	5		196	407	41,0	114	41,0	225	55,11
161102B050010	500	507	4545	110	5		196	457	41,0	114	41,0	225	65,36
161102B056010	560	567	4545	110	5		196	517	41,0	114	41,0	225	73,05
161102B063010	630	637	4545	110	5		196	587	41,0	114	41,0	225	85,11
161102B071010	710	717	4545	110	5		196	667	41,0	114	41,0	225	96,02
161102B080010	800	807	4545	110	5		196	757	41,0	114	41,0	225	109,89
161102B090010	900	907	5050	125	5		196	857	34,5	127	34,5	245	140,30
161102B100010	1000	1007	5050	125	5		196	957	34,5	127	34,5	245	156,20
161102B125010	1250	1257	5050	125	5		196	1207	34,5	127	34,5	245	198,00

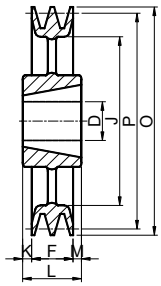
SPC3/C3 SPC3/C3



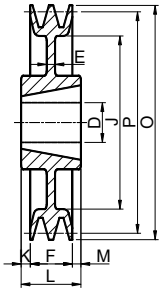
Type 1



Type 3



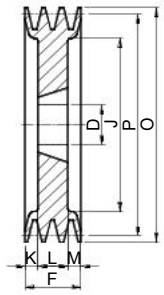
Type 4



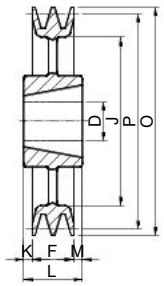
Type 7

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161103C020003	200	209,6	2517	65	3		85	144	20,0	45	20,0		10,68
161103C021203	212	221,6	3020	75	3		85	156	17,0	51	17,0		11,45
161103C022403	224	233,6	3020	75	3		85	168	17,0	51	17,0		13,12
161103C023603	236	245,6	3020	75	3		85	180	17,0	51	17,0		14,87
161103C025003	250	259,6	3020	75	3		85	194	17,0	51	17,0		17,02
161103C026503	265	274,6	3535	90	1		85			89	4,0	170	24,06
161103C028003	280	289,6	3535	90	1		85			89	4,0	170	27,91
161103C030003	300	309,6	3535	90	7	18	85	244	2,0	89	2,0	170	21,74
161103C031503	315	324,6	3535	90	7	18	85	259	2,0	89	2,0	170	23,42
161103C033503	335	344,6	3535	90	7	18	85	279	2,0	89	2,0	170	25,43
161103C035503	355	365,6	3535	90	7	18	85	299	2,0	89	2,0	170	27,51
161103C037503	375	384,6	3535	90	7	18	85	319	2,0	89	2,0	170	29,69
161103C040003	400	409,6	3535	90	4		85	344	2,0	89	2,0	170	27,67
161103C042503	425	434,6	3535	90	4		85	369	2,0	89	2,0	170	29,34
161103C045003	450	459,6	3535	90	4		85	394	2,0	89	2,0	170	31,00
161103C047503	475	484,6	3535	90	4		85	419	2,0	89	2,0	170	34,93
161103C050003	500	509,6	3535	90	4		85	444	2,0	89	2,0	170	36,82
161103C053003	530	539,6	3535	90	4		85	474	2,0	89	2,0	170	39,09
161103C056003	560	569,6	3535	90	4		85	504	2,0	89	2,0	170	41,36
161103C063003	630	639,6	4040	100	4		85	574	8,5	102	8,5	200	52,00
161103C071003	710	719,6	4545	115	4		85	652	4.2	114	4.2	225	58,35
161103C080003	800	809,6	5050	125	4		85	737	21,0	127	21,0	245	74,53
161103C100003	1000	1009,6	5050	125	4		85	937	8,0	127	34,0	245	103,90
161103C125003	1250	1259,6	5050	125	4		85	1187	8,0	127	34,0	245	139,56

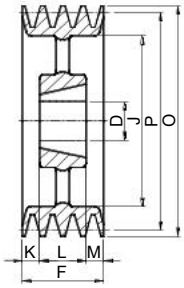
SPC4/C4 SPC4/C4



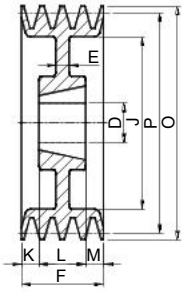
Type 3



Type 4



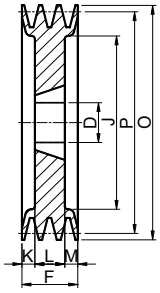
Type 5



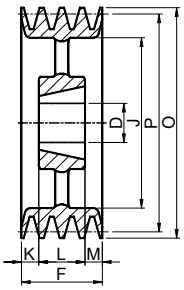
Type 6

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161103C020004	200	209,6	3020	75	3		111	144	30,0	51	30,0		11,95
161103C021204	212	221,6	3020	75	3		111	156	30,0	51	30,0		13,68
161103C022404	224	233,6	3535	90	3		111	168	11,0	89	11,0		17,02
161103C023604	236	245,6	3535	90	3		111	180	11,0	89	11,0		19,84
161103C025004	250	259,6	3535	90	3		111	194	11,0	89	11,0		23,32
161103C026504	265	274,6	3535	90	3	20	111	209	11,0	89	11,0	170	21,46
161103C028004	280	289,6	3535	90	6	20	111	224	11,0	89	11,0	170	22,97
161103C030004	300	309,6	3535	90	6	20	111	244	11,0	89	11,0	170	25,06
161103C031504	315	324,6	3535	90	6	20	111	259	11,0	89	11,0	170	27,01
161103C033504	335	344,6	3535	90	6	20	111	279	11,0	89	11,0	170	29,27
161103C035504	355	365,6	3535	90	6	20	111	299	11,0	89	11,0	170	31,61
161103C037504	375	384,6	3535	90	6	20	111	319	11,0	89	11,0	170	34,04
161103C040004	400	409,6	3535	90	5		111	344	11,0	89	11,0	170	33,08
161103C042504	425	434,6	3535	90	5		111	369	11,0	89	11,0	170	35,18
161103C045004	450	459,6	3535	90	5		111	394	11,0	89	11,0	170	37,27
161103C047504	475	484,6	3535	90	5		111	419	11,0	89	11,0	170	42,82
161103C050004	500	509,6	3535	90	5		111	444	11,0	89	11,0	170	45,25
161103C053004	530	539,6	4040	100	5		111	474	4.5	102	4.5	200	48,18
161103C056004	560	569,6	4040	100	5		111	504	4,5	102	4,5	200	54,74
161103C063004	630	639,6	4545	115	4		111	574	1,5	114	1,5	225	67,85
161103C071004	710	719,6	5050	125	4		111	654	8,0	127	8,0	245	76,10
161103C080004	800	809,6	5050	125	4		111	737	4,0	127	12,0	245	95,39
161103C100004	1000	1009,6	5050	125	4		111	937	4,0	127	12,0	245	124,34
161103C125004	1250	1259,6	5050	125	4		111	1187	4,0	127	12,0	245	165,29

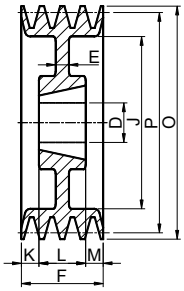
SPC5/C5 SPC5/C5



Type 3



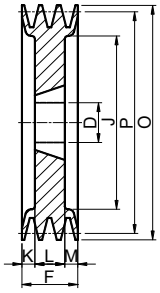
Type 5



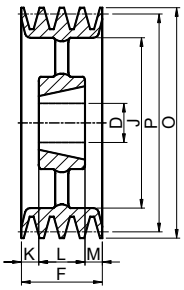
Type 6

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161103C020005	200	209,6	3535	90	3		136	144	23,5	89	23,5		13,77
161103C021205	212	221,6	3535	90	3		136	156	23,5	89	23,5		16,43
161103C022405	224	233,6	3535	90	3		136	168	23,5	89	23,5		19,24
161103C023605	236	245,6	3535	90	3		136	180	23,5	89	23,5		22,19
161103C025005	250	259,6	3535	90	3		136	194	23,5	89	23,5		25,84
161103C026505	265	274,6	3535	90	3		136	209	23,5	89	23,5		29,97
161103C028005	280	289,6	3535	90	3		136	224	23,5	89	23,5		34,33
161103C030005	300	309,6	3535	90	6	18	136	244	23,5	89	23,5	170	28,16
161103C031505	315	324,6	3535	90	6	18	136	259	23,5	89	23,5	170	30,37
161103C033505	335	344,6	3535	90	6	18	136	279	23,5	89	23,5	170	32,87
161103C035505	355	365,6	3535	90	6	18	136	299	23,5	89	23,5	170	35,45
161103C037505	375	384,6	3535	90	6	18	136	319	23,5	89	23,5	170	38,12
161103C040005	400	409,6	3535	90	5		136	344	23,5	89	23,5	170	38,31
161103C042505	425	434,6	4040	100	5		136	369	17,0	102	17,0	200	44,70
161103C045005	450	459,6	4040	100	5		136	394	17,0	102	17,0	200	47,21
161103C047505	475	484,6	4040	115	5		136	419	17,0	102	17,0	200	53,02
161103C050005	500	509,6	4040	100	5		136	444	17,0	102	17,0	200	55,90
161103C053005	530	539,6	4545	115	5		136	474	11,0	114	11,0	225	59,35
161103C056005	560	569,6	4545	115	5		136	504	11,0	114	11,0	225	66,92
161103C063005	630	639,6	5050	125	5		136	574	4,5	127	4,5	245	82,23
161103C071005	710	719,6	5050	125	5		136	654	4,5	127	4,5	245	92,17
161103C080005	800	809,6	5050	125	5		136	737	4,5	127	4,5	245	110,41
161103C100005	1000	1009,6	5050	125	5		136	937	4,5	127	4,5	245	143,29
161103C125005	1250	1259,6	5050	125	5		136	1187	4,5	127	4,5	245	188,54

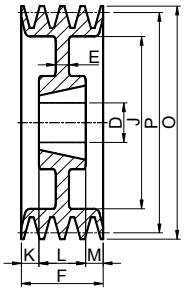
SPC6/C6 SPC6/C6



Type 3



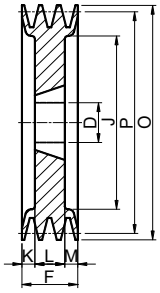
Type 5



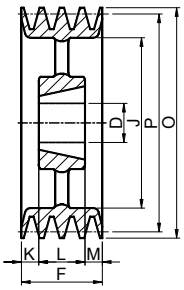
Type 6

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161103C020006	200	209,6	3535	90	3		162	144	36,5	89	36,5		15,84
161103C021206	212	221,6	3535	90	3		162	156	36,5	89	36,5		18,65
161103C022406	224	233,6	3535	90	3		162	168	36,5	89	36,5		21,61
161103C023606	236	245,6	3535	90	3		162	180	36,5	89	36,5		24,72
161103C025006	250	259,6	3535	90	3		162	194	36,5	89	36,5		28,53
161103C026506	265	274,6	3535	90	3		162	209	36,5	89	36,5		32,85
161103C028006	280	289,6	3535	90	6	20	162	224	36,5	89	36,5	170	28,91
161103C030006	300	309,6	3535	90	6	20	162	244	36,5	89	36,5	170	31,48
161103C031506	315	324,6	3535	90	6	20	162	259	36,5	89	36,5	170	33,96
161103C033506	335	344,6	3535	90	6	20	162	279	36,5	89	36,5	170	36,71
161103C035506	355	365,6	3535	90	6	20	162	299	36,5	89	36,5	170	39,55
161103C037506	375	384,6	4040	100	6	30	162	319	30,0	102	30,0	200	48,46
161103C040006	400	409,6	4040	100	6	30	162	344	30,0	102	30,0	200	52,90
161103C042506	425	434,6	4545	115	6	30	162	369	24,0	114	24,0	225	61,09
161103C045006	450	459,6	4545	115	6	30	162	394	24,0	114	24,0	225	65,90
161103C047506	475	484,6	4545	115	6	30	162	419	24,0	114	24,0	225	70,90
161103C050006	500	509,6	4545	115	5		162	444	24,0	114	24,0	225	65,97
161103C053006	530	539,6	5050	125	5		162	474	24,0	114	24,0	225	69,80
161103C056006	560	569,6	5050	125	5		162	504	17,5	127	17,5	245	77,78
161103C063006	630	639,6	5050	125	5		162	574	17,5	127	17,5	245	89,84
161103C071006	710	719,6	5050	125	5		162	654	17,5	127	17,5	245	100,79
161103C080006	800	809,6	5050	125	5		162	737	17,5	127	17,5	245	121,31
161103C100006	1000	1.009,6	5050	125	5		162	937	17,5	127	17,5	245	162,15
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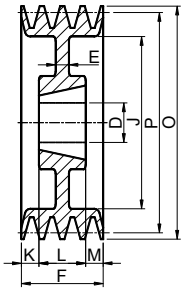
SPC8/C8 SPC8/C8



Type 3



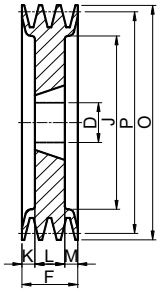
Type 5



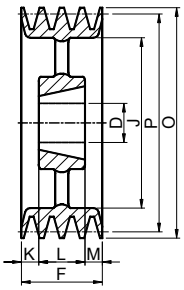
Type 6

Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161103C020008	200	209,6	3535	90	3		213	148	62,0	89	62,0		19,85
161103C021208	212	221,6	3535	90	3		213	160	62,0	89	62,0		22,95
161103C022408	224	233,6	3535	90	3		213	170	62,0	89	62,0		26,20
161103C023608	236	245,6	3535	90	3		213	184	62,0	89	62,0		29,60
161103C025008	250	259,6	3535	90	3		213	198	62,0	89	62,0		33,75
161103C026508	265	274,6	3535	90	3		213	213	62,0	89	62,0		38,43
161103C028008	280	289,6	3535	90	3		213	228	62,0	89	62,0		43,34
161103C030008	300	309,6	4040	100	3		213	247	55,5	102	55,5		50,55
161103C031508	315	324,6	4040	100	3		213	258	55,5	102	55,5		49,50
161103C033508	335	344,6	4040	100	6	50	213	280	55,5	102	55,5	200	47,66
161103C035508	355	365,6	4040	100	6	40	213	304	55,5	102	55,5	200	52,97
161103C037508	375	384,6	4545	115	6	30	213	324	49,5	114	49,5	225	60,45
161103C040008	400	409,6	4545	115	6	30	213	348	49,5	114	49,5	225	65,51
161103C042508	425	434,6	5050	125	6	30	213	369	43,0	127	43,0	245	76,50
161103C045008	450	459,6	5050	125	6	30	213	394	43,0	127	43,0	245	82,48
161103C047508	475	484,6	5050	125	6	30	213	419	43,0	127	43,0	245	88,69
161103C050008	500	509,6	5050	125	6	30	213	444	43,0	127	43.0	245	95,11
161103C053008	530	539,6	5050	125	6	30	213	474	43,0	127	43.0	245	103,12
161103C056008	560	569,6	5050	125	5		213	504	43,0	127	43.0	245	93,24
161103C063008	630	639,6	5050	125	5		213	574	43,0	127	43.0	245	107,38
161103C071008	710	719,6	5050	125	5		213	656	43,0	127	43.0	245	120,97
161103C080008	800	809,6	5050	125	5		213	737	43,0	127	43.0	245	146,78
161103C100008	1000	1.009,6	5050	125	5		213	937	43,0	127	43.0	245	198,02
161103C125008	1250	1.259,6	5050	125	5		213	1187	43,0	127	43.0	245	252,17

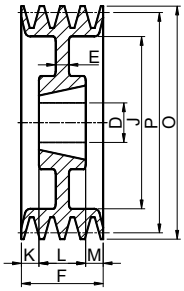
SPC10/C10 SPC10/C10



Type 3



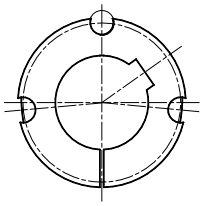
Type 5



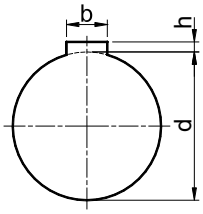
Type 6

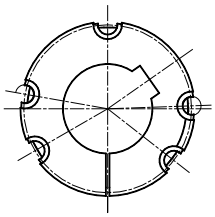
Artikel Nr. Part Nr.	P	O	Bush	D_{max}	Type	E	F	J	K	L	M	N	Massa Mass
	[mm]			[mm]	[-]	[mm]							[kg]
161103C022410	224	233,6	4040	100	3		264	172	81,0	102	81,0		24,80
161103C023610	236	245,6	4040	100	3		264	184	81,0	102	81,0		29,00
161103C025010	250	259,6	4040	100	3		264	196	81,0	102	81,0		37,61
161103C026510	265	274,6	4040	100	3		264	209	81,0	102	81,0		39,60
161103C028010	280	289,6	4040	100	3		264	226	81,0	102	81,0		48,87
161103C030010	300	309,6	4545	115	3		264	245	75,0	114	75,0		56,30
161103C031510	315	324,6	4545	115	3		264	258	75,0	114	75,0		64,05
161103C033510	335	344,6	4545	115	3		264	282	75,0	114	75,0		73,80
161103C035510	355	365,6	4545	115	3		264	299	75,0	114	75,0		84,08
161103C037510	375	384,6	5050	115	6		264	319	68,5	127	68,5		94,91
161103C040010	400	409,6	5050	125	6	70	264	344	68,5	127	68,5	245	78,11
161103C042510	425	434,6	5050	125	6	30	264	369	68,5	127	68,5		82,00
161103C045010	450	459,6	5050	125	6	40	264	394	68,5	127	68,5	245	98,26
161103C047510	475	484,6	5050	125	6	25	264	419	68,5	127	68,5		106,20
161103C050010	500	509,6	5050	125	6	40	264	444	68,5	127	68,5	245	114,57
161103C053010	530	539,6	5050	125	6	25	264	474	68,5	127	68,5		122,80
161103C056010	560	569,6	5050	125	5		264	504	68,5	127	68,5	245	106,24
161103C063010	630	639,6	5050	125	5		264	574	68,5	127	68,5	245	122,10
161103C071010	710	719,6	5050	125	5		264	656	68,5	127	68,5	245	137,68
161103C080010	800	809,6	5050	125	5		264	737	68,5	127	68,5	245	167,91
161103C100010	1000	1009,6	5050	125	5		264	937	68,5	127	68,5	245	224,69
161103C125010	1250	1259,6	5050	125	5		264	1187	68,5	127	68,5	245	285,76

Metrisch — Metric



Type A





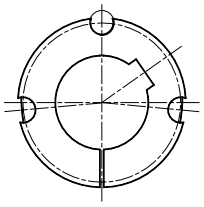
Type B

Asgat – Bohrung – Bore d (1)	b	h	h (2)	1008	1108	1210 1215	1310	1610 1615	2012	2517 2525	3020 3030	3525 3535	4040	4545	5050
	(mm)														
9	3	1,4	-	•	•										
10	3	1,4	-	•	•										
11	4	1,8	-	•	•	•									
12	4	1,8	-	•	•	•									
14	5	2,3	-	•	•	•	•	•	•						
15	5	2,3	-	•	•	•	•	•	•						
16	5	2,3	-	•	•	•	•	•	•						
18	6	2,8	-	•	•	•	•	•	•						
19	6	2,8	-	•	•	•	•	•	•	•					
20	6	2,8	-	•	•	•	•	•	•	•					
22	6	2,8	-	•	•	•	•	•	•	•					
24	8	3,3	1,3	• (2)	•	•	•	•	•	•					
25	8	3,3	1,3	• (2)	•	•	•	•	•	•	•				
28	8	3,3	1,3		• (2)	•	•	•	•	•	•				
30	8	3,3	-			•	•	•	•	•	•				
32	10	3,3	1,3			• (2)	•	•	•	•	•				
35	10	3,3	1,3				• (2)	•	•	•	•	•			
38	10	3,3	-					•	•	•	•	•			
40	12	3,3	-					•	•	•	•	•			
42	12	3,3	2,2					• (2)	•	•	•	•			
45	14	3,8	-						•	•	•	•			
48	14	3,8	-						•	•	•	•	•		
50	14	3,8	-						•	•	•	•	•		
55	16	4,3	-							•	•	•	•	•	
60	18	4,4	-							•	•	•	•	•	•
65	18	4,4	3,3							• (2)	•	•	•	•	•
70	20	4,9	-								•	•	•	•	•
75	20	4,9	-								•	•	•	•	•
80	22	5,4	-									•	•	•	•
85	22	5,4	-									•	•	•	•
90	25	5,4	-									•	•	•	•
95	25	5,4	-										•	•	•
100	28	6,4	-										•	•	•
105	28	6,4	-											•	•
110	28	6,4	-											•	•
115	32	7,4	-												•
120	32	7,4	-												•
125	32	7,4	-												•

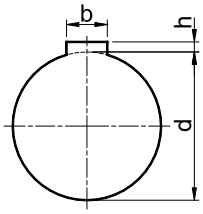
Type	1008 A	1108 A	1210 A	1215 A	1310 A	1610 A	1615 A	2012 A	2517 A	2525 A	3020 A	3030 A	3525 B	3535 B	4040 B	4545 B	5050 B
Aanhaalmoment Anzugsmoment (Nm) Tightening Torque	5,5	5,5	20	20	20	20	20	30	50	50	90	90	115	115	170	195	275
Bout B.S.W. Schraube B.S.W. Screw B.S.W.	1/4" x 1/2"	1/4" x 1/2"	3/8" x 5/8"	3/8" x 5/8"	3/8" x 5/8"	3/8" x 5/8"	3/8" x 5/8"	7/16" x 7/8"	1/2" x 1"	1/2" x 1"	5/8" x 1 1/4"	5/8" x 1 1/4"	1/2" x 1 1/2"	1/2" x 1 1/2"	5/8" x 1 3/4"	3/4" x 2"	7/8" x 2 5/16"
Bus – lengte Buchse – Länge (mm) Bushing - Length	22,3	22,3	25,4	38,1	25,4	25,4	38,1	31,8	44,5	63,5	50,8	76,2	63,5	88,9	101,6	114,3	127,0
Bus Buchse – Ø max (mm) Bushing	35,0	38,0	47,5	47,5	50,5	57,0	57,0	70,0	85,5	85,5	108,0	108,0	127,0	127,0	146,0	162,0	177,5
Gewicht Gewicht (kg ca.) Weight	0,12	0,16	0,28	0,39	0,40	0,42	0,61	0,75	1,10	2,25	2,61	3,80	3,90	5,25	7.80	13,00	15,00

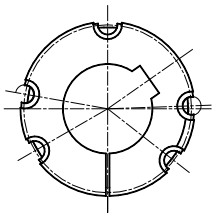
(1)	asgat met spiebaan volgens DIN 6885/1	Bohrung mit Nut nach DIN 6885/1	with keyway according to DIN 6885/1
(2)	voorzien van verlaagde spiebaan	mit Flachnut	with shallow keyway

Inch Inch



Type A





Type B

Asgat – Bohrung – Bore										
d(1)	b	h	h (2)	1108	1210	1610	2012	2517	3020	3535
Inch (mm)		(mm)								
1/2 (0,500)	1/8 (3,175)	0,060		●	●	●				
5/8 (0,625)	3/16 (4,763)	0,080		●	●	●				
3/4 (0,750)	3/16 (4,763)	0,080		●	●	●	●	●		
7/8 (0,875)	1/4 (6,350)	0,115		●	●	●	●	●		
1 0/0 (1,000)	1/4 (6,350)	0,115		●	●	●	●	●		
1 1/8 (1,125)	5/16 (7,938)	0,112	0,080	●(2)	●	●	●	●		
1 1/4 (1,250)	5/16 (7,938)	0,112			●	●	●	●		
1 3/8 (1,375)	3/8 (9,525)	0,108				●	●	●		
1 1/2 (1,500)	3/8 (9,525)	0,108				●	●	●	●	●
1 5/8 (1,625)	7/16 (11,113)	0,135				●	●	●	●	●
1 3/4 (1,750)	7/16 (11,113)	0,135					●	●	●	●
1 7/8 (1,875)	1/2 (12,700)	0,131					●	●	●	●
2 0/0 (2,000)	1/2 (12,700)	0,131					●	●	●	●
2 1/8 (2,125)	5/8 (15,875)	0,185						●	●	●
2 1/4 (2,250)	5/8 (15,875)	0,185						●	●	●
2 3/8 (2,375)	5/8 (15,875)	0,185						●	●	●
2 1/2 (2,500)	5/8 (15,875)	0,185						●	●	●
2 5/8 (2,625)	3/4 (19,050)	0,209							●	●
2 3/4 (2,750)	3/4 (19,050)	0,209							●	●
2 7/8 (2,875)	3/4 (19,050)	0,209							●	●
3 0/0 (3,000)	3/4 (19,050)	0,209							●	●
3 1/8 (3,125)	7/8 (22,225)	0,264								●
3 1/4 (3,250)	7/8 (22,225)	0,264								●
3 3/8 (3,375)	7/8 (22,225)	0,264								●
3 1/2 (3,500)	7/8 (22,225)	0,264								●

type	**1108** A	**1210** A	**1610** A	**2012** A	**2517** A	**3020** A	**3535** B
Aanhaalmoment Anzugsmoment (Nm) Tightening torque	5,5	20	20	30	50	90	115
Bout B.S.W. Schraube B.S.W. Screw B.S.W.	1/4" x 1/2"	3/8" x 5/8"	3/8" x 5/8"	7/16" x 7/8"	1/2" x 1"	5/8" x 1 1/4"	1/2" x 1 1/2"
Bus – lengte Buchse – Länge (mm) Bushing – Length	22,3	25,4	38,1	31,8	44,5	50,8	88,9
Bus Buchse – Ømax (mm) Bushing	38,0	47,5	57,0	70,0	85,5	108,0	127,0
Gewicht Gewicht (kg ca.) Weight	0,12	0,22	0,31	0,57	1,15	2,10	4,90

(1)	asgat met rechthoekige spiebaan volgens BS 46/1	Bohrung mit rechteckige Nut nach BS 46/1	with rectangular keyway according to BS 46/1
(2)	voorzien van verlaagde spiebaan	mit Flachnut	with shallow keyway

Technische Eckdaten | Technische Informatie | Technical Information

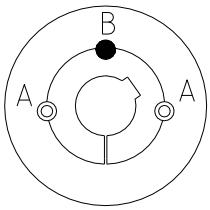
Klembus Buchse Bushing	Boring Bohrung Bore	Moment zonder Spie Drehmoment ohne Paßfeder Torque excl. Key	Moment met Spie Drehmoment mit Paßfeder Torque incl. Key	axiale Klemkracht Axialer Klemmkraft axial Clamping Force
	(mm)	(Nm)		(N)
1008	11 12 19 24 25	27 29 51 66 69	136	3.600 3.990 4.940 5.490 5.650
1108	11 19 24 28	28 49 64 79	147	3.700 4.630 5.220 5.720
1210 **1215**	11 16 19 24 32	56 82 105 142 210	407	6.100 8.840 9.800 10.900 12.300
1310	14 25 35	59 120 210	435	7.800 10.900 12.500
1610 **1615**	14 19 24 38 42	72 98 135 240 265	486	6.250 8.500 9.670 11.900 12.700
2012	14 24 38 50	96 165 310 420	808	6.700 11.500 14.400 16.700
2517 **2525**	18 38 48 60 65	180 380 510 670 730	1.311	8.050 17.000 19.200 22.300 24.200
3020 **3030**	25 38 48 60 75	340 520 730 970 1.300	2.712	15.650 23.900 26.100 31.500 34.500
3525 **3535**	35 42 60 90	830 1000 1.580 2.600	5.062	34.050 41.000 49.800 59.000
4030 **4040**	48 75 100	1.700 3.900 4.400	8.734	68.000 77.200 89.400
4545	55 75 100	2.500 3.900 5.500	12.428	79.600 93.000 107.700
5050	60 75 100 125	3.160 3.950 5.650 7.370	14.236	73.450 91.800 106.600 119.500

- Die angegebenen Werte sind gemittelte Werte und haben Bandbreite von ± 10%
- Zwischenwerte können interpoliert werden
- Bei Verwendung einer Paßfeder sind die Anzugsmomente um 20% zu reduzieren

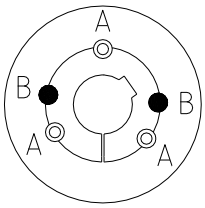
- De hierboven genoemde waarden zijn gemiddelde waarden en hebben een nauwkeurigheid van ± 10%
- Tussenwaarden kunnen geïnterpoleerd worden
- Bij gebruikmaking van een spie kunnen de aanhaalmomenten met 20% worden gereduceerd

- The above mentioned values are average values and have an accuracy of ± 10%
- Not mentioned values can be interpolated
- When using a key the tightening torque can be reduced by 20%

Montage	Montage	Installation
1. Vor der Montage der Buchse sind die Bohrungen und die konischen Teile sorgfältig zu reinigen.	1. Alvorens de bus te monteren, dienen boring en conische vlakken grondig te worden gereinigd.	1. Before fitting the bushing, carefully clean the bore and conical parts.
2. Die Buchse in das Produkt einsetzen und alle Bohrungen zur Deckung bringen.	2. Plaats de bus in de naaf en draai deze zo, dat de halve gaten in bus en naaf hele gaten worden.	2. Place bushing in the hub and match half holes to make complete holes.
3. Gewindestift bezw. Zylinderschrauben leicht einölen und einschrauben, Schrauben noch nicht festziehen.	3. De schroeven licht in oliën, en inschroeven. Nog niet vastdraaien.	3. Oil thread and point of set screws, or under head of cap screws. Place screws loosely in holes threaded in hub, as shown in diagrams.
4. Bei Verwendung einer Paßfeder ist diese zuerst in der Nut der Welle einzulegen. Zwischen der Paßfeder und der Bohrungsnut muss ein Rückenspiel vorhanden sein.	4. Indien een spie toegepast word, moet deze eerst in de spiebaan van de as gemonteerd worden. Er moet ruimte overblijven tussen de top van de spie, en de top van de spiebaan.	4. When using a key it should first be fitted into the keyway of the shaft. There should be a top clearance between the key and the keyway in the bore.
5. Welle saubern und entfetten, Produkt mit Buchse bis zur gewünschten Position auf die Welle schieben.	5. Monteer de bus en naaf op een schone as op de gewenste positie met de klembus losjes in de naaf.	5. Mount assembly on clean shaft and locate in desired position with bush slightly free in hub.
6. Gewindestiften bezw. Zylinderschrauben gleichmässig mit den in der Tabelle angegebenen Anzugs-momenten anziehen.	6. Draai de schroeven gelijkmatig aan op de in de tabel gedefinieerde aanhaalmomenten.	6. Tighten screws gradually and alternately in accordance with the torques listed in table.
7. Um das eindringen von Fremdkörpern zu verhinderen, leere Bohrungen mit Fett füllen.	7. Vet lege gaten in om vervuiling te voorkomen.	7. Grease empty holes to exclude dirt.
8. Nach kurzer Betriebszeit (1 Stunde) Anzugsmoment der Schrauben überprüfen und gegebenenfalls korrigieren.	8. Na één uur bedrijf dienen de schroeven te worden gecontroleerd op aanhaalmoment.	8. After drive has run under load for one hour, stop and check torque setting of screws.



A – Montage / Montage / Installation



B – Ausbau / Demontage / Removal

Ausbau	Demontage	Removal
1. Alle Schrauben lösen. Je nach Buchsengröße ein oder zwei Schrauben ganz heraus-schrauben, einölen und in die Abdrück-bohrungen einschrauben.	1. Schroeven losdraaien. Afhankelijk van de grootte van de bus verwijder één of twee schroeven, olie deze in en schroef deze in de afdrukgaten.	1. All screws should be slackened removing the same number as there are jacking holes (marked 'B'). Jacking off screws are then oiled on thread and point of grub screws or under surface of head of cap screws.
2. Die Schraube(n) gleichmäßig anziehen, bis sich die Buchse aus der Nabe löst und das Produkt sich frei auf der Welle bewegen lässt.	2. Draai de afdrukschroeven uniform aan tot dat de bus los in de naaf zit, en vrij op de as kan bewegen.	2. Insert screws in jacking off holes and tighten them alternately until bush is loosened in hub and from shaft.
3. Produkt mit Buchse von der Welle abnehmen.	3. Verwijder bus en naaf van de as.	3. Assembly can now be removed.

Größe **Afmeting** **Size**	Schraube / Anzahl Bout / Aantal Screw / Quantity	Gewinde Schroefdraad Thread	Schraube - Länge Bout - Lengte Screw - Length	Büchsenlänge Lengte Klembus Length Bushing	Schlüssel Sleutel Key	Anzugsmoment Aanhaalmoment Tightening Torque
	(-)	(")	(mm)	(mm)	(-)	(Nm)
1008	2	1 / 4 BSW	13	22,3	3	5,5
1108	2	1 / 4 BSW	13	22,3	3	5,5
1210	2	3 / 8 BSW	16	25,4	5	20
1215	2	3 / 8 BSW	16	38,1	5	20
1310	2	3 / 8 BSW	16	25,4	5	20
1610	2	3 / 8 BSW	16	25,4	5	20
1615	2	3 / 8 BSW	16	38,1	5	20
2012	2	7 / 16 BSW	22	31,8	6	30
2517	2	1 / 2 BSW	25	44,5	6	50
2525	2	1 / 2 BSW	25	63,5	6	50
3020	2	5 / 8 BSW	32	50,8	8	90
3030	2	5 / 8 BSW	32	76,2	8	90
3525	3	1 / 2 BSW	38	63,5	10	115
3535	3	1 / 2 BSW	38	88,9	10	115
4030	3	5 / 8 BSW	44	176,2	14	170
4040	3	5 / 8 BSW	44	101,6	14	170
4545	3	3 / 4 BSW	51	114,3	14	195
5050	3	7 / 8 BSW	57	127,0	17	275