ISG | Aandrijftechniek

Voorgeboorde V-Snaarschijven

Technische documentatie
& productspecificaties



Inhoudsopgave — Table of Contents

Technische Informatie		Technical Information	3 .. 4
Overzicht – Types		Overview – Types	5
Dimensies	**SPZ / Z**	Dimensions	6 .. 8
	SPA / A		9 .. 13
	SPB / B		14 .. 19
	SPC / C		20 .. 25

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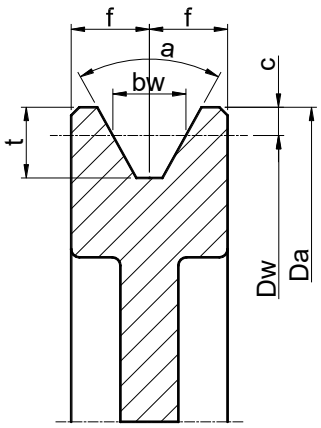
Drukwerk No. 162101.D.NDE.2825

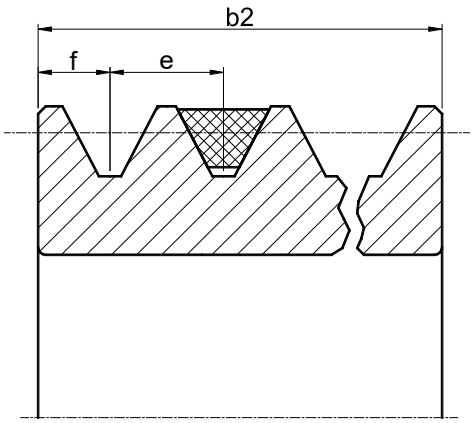
Publication No. 162101.D.NDE.2825

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 Stemin-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 Stemin-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 Stemin-pulleys are statically balanced (x-y plane) according ISO 21940, quality degree G16.
Balancing (dynamic)	Against surcharge it is possible to balance the pulleys 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

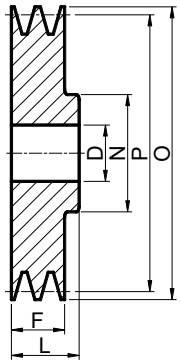
profiel / Profil / profile	SPZ	SPA	SPB	SPC
n = groeven / Rillen / grooves	b_2 = velgbreedte / Kranzbreite / rim width b_2 (mm) = (n - 1) . e + (2 . f)			
1	16,0	20,0	25,0	34,0
2	28,0	35,0	44,0	59,5
3	40,0	50,0	63,0	85,0
4	52,0	65,0	82,0	110,5
5	64,0	80,0	101,0	136,0
6	-	-	120,0	161,5
8	-	-	158,0	212,5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

RIEMPROFIEL — RIEMENPROFIL — DIMENSIONS

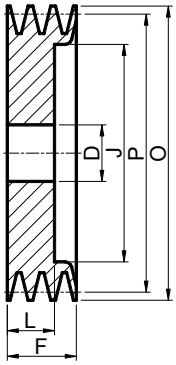
V-riem schijven Keilriemenscheiben V-belt Pulleys	profiel Profil profile	SPZ	SPA	SPB	SPC
Riem profiel volgens - Riemenprofil nach - V-belts according to-	DIN 7753	XPZ/SPZ	XPA/SPA	XPB/SPB	XPC/SPC
	ISO 4183	SPZ	SPA	SPB	SPC
	DIN 2215	10	13	17	22
	ISO 2215	Z	A	B	C

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

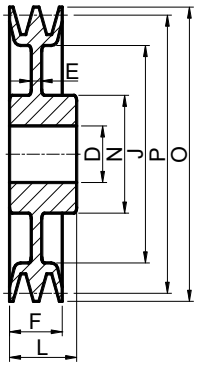
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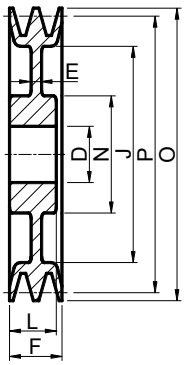
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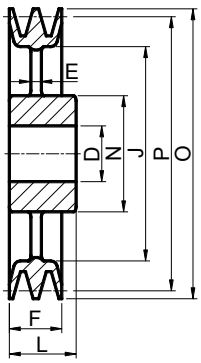
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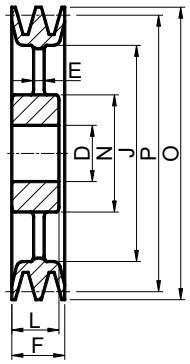
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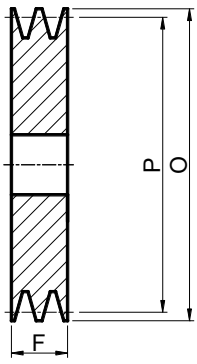
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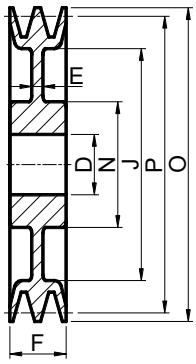
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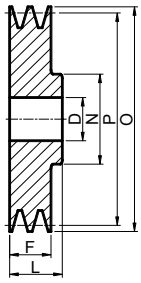


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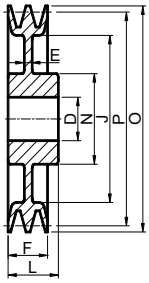


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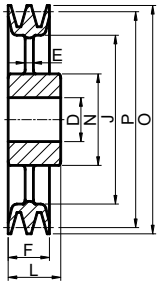
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Type 1



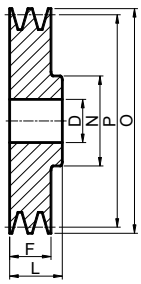
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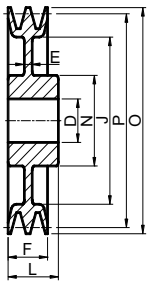
Type 5

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
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162101Z005601	56	60	1	45	10		28			16	0,3
162101Z006001	60	64	1		10		28			16	0,3
162101Z006301	63	67	1	50	10		28			16	0,3
162101Z006701	67	71	1	50	10		28			16	0,3
162101Z007101	71	75	1	50	10		28			16	0,3
162101Z007501	75	79	1	50	10		28			16	0,3
162101Z008001	80	84	1	50	10		28			16	0,3
162101Z008501	85	89	1	50	10		28			16	0,4
162101Z009001	90	94	1	50	10		28			16	0,4
162101Z009501	95	99	1	50	10		28			16	0,5
162101Z010001	100	104	1	50	10		28			16	0,5
162101Z010601	106	110	1	50	10		28			16	0,6
162101Z011201	112	116	1	50	10		28			16	0,7
162101Z011801	118	122	3	50	10		28	93	8	16	0,8
162101Z012501	125	129	3	50	15		28	100	8	16	0,9
162101Z013201	132	136	3	50	15		28	106	8	16	1,0
162101Z014001	140	144	3	50	15		28	114	8	16	1,2
162101Z015001	150	154	3	50	15		28	124	8	16	2,1
162101Z026001	160	164	3	55	15		32	134	8	16	2,4
162101Z017001	170	174	3	55			32				2,8
162101Z018001	180	184	5	55	20		32	154	8	16	3,3
162101Z019001	190	194	5	55			32				
162101Z020001	200	204	5	55	20		32	174	8	16	
162101Z021201	212	216	5	55			32				
162101Z022401	224	228	5	55	20		32	198	8	16	
162101Z025001	250	254	5	55	20		32	224	8	16	
162101Z028001	280	284	5								
162101Z030001	300	304	5								
162101Z031501	315	319	5								
162101Z035501	355	359	5								
162101Z040001	400	404	5								
162101Z045001	450	454	5								

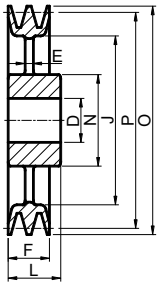
SPZ2/Z2 SPZ2/Z2



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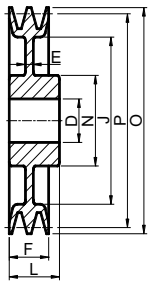
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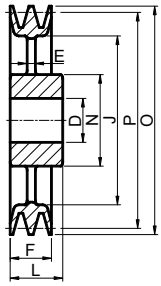
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Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
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162104Z005602	56	60	1	45	10	32	35	-	-	28	0,4
162104Z006302	63	67	1	50	10	35	35	-	-	28	0,6
162104Z007102	71	75	1	55	10	38	35	-	-	28	0,6
162104Z007502	75	79	1	60	10	42	35	-	-	28	0,6
162104Z008002	80	84	1	60	10	42	35	-	-	28	0,6
162104Z008502	85	89	1	60	10	42	35	-	-	28	0,7
162104Z009002	90	94	1	60	10	42	35	-	-	28	0,7
162104Z009502	95	99	1	60	15	42	35	-	-	28	0,8
162104Z010002	100	104	1	60	15	42	35	-	-	28	0,9
162104Z010602	106	110	1	60	15	42	35	-	-	28	0,9
162104Z011202	112	116	1	60	15	42	35	-	-	28	1,0
162104Z011802	118	122	3	60	15	42	35	97	8	28	1,1
162104Z012502	125	129	3	60	15	42	35	99	8	28	1,2
162104Z013202	132	136	3	60	15	42	40	105	8	28	1,3
162104Z014002	140	144	3	60	15	42	40	114	8	28	1,4
162104Z015002	150	154	3	60	15	42	40	124	8	28	1,5
162104Z016002	160	164	3	60	15	42	40	134	8	28	1,6
162104Z018002	180	184	5	60	20	42	40	154	8	28	2,0
162104Z020002	200	204	5	60	20	42	40	174	8	28	2,8
162104Z022402	224	228	5	60	20	42	40	198	8	28	4,0
162104Z025002	250	254	5	60	20	42	40	224	10	28	4,8
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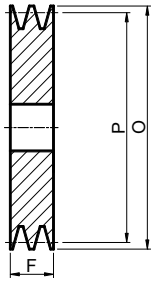
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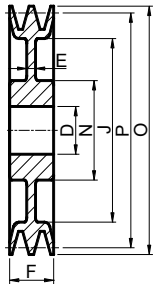
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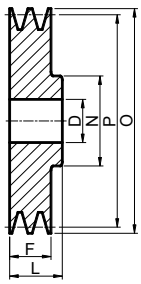
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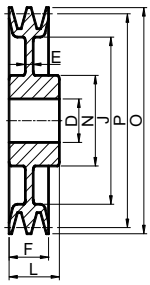
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Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162104Z005003	50	54	7	-	10	22	-	-	-	40	0,5
162104Z005603	56	60	7	-	10	28	-	-	-	40	0,6
162104Z006303	63	67	7	-	10	32	-	-	-	40	0,8
162104Z007103	71	75	7	-	10	38	-	-	-	40	1,0
162104Z007503	75	79	7	-	10	40	-	-	-	40	1,0
162104Z008003	80	84	7	-	10	45	-	-	-	40	1,1
162104Z008503	85	89	7	-	15	48	-	-	-	40	1,1
162104Z009003	90	94	7	-	15	50	-	-	-	40	1,1
162104Z009503	95	99	7	-	15	55	-	-	-	40	1,2
162104Z010003	100	104	7	-	15	58	-	-	-	40	1,2
162104Z010603	106	110	7	-	15	65	-	-	-	40	1,3
162104Z011203	112	116	7	-	15	65	-	-	-	40	1,4
162104Z011803	118	122	7	-	15	70	-	-	-	40	1,4
162104Z012503	125	129	7	-	15	75	-	-	-	40	1,5
162104Z013203	132	136	8	60	15	42	40	106	8	40	1,6
162104Z014003	140	144	8	60	15	42	40	114	8	40	1,6
162104Z015003	150	154	8	60	20	42	40	124	8	40	1,8
162104Z016003	160	164	3	65	20	45	45	134	8	40	2,4
162104Z018003	180	184	5	65	20	45	45	154	8	40	3,5
162104Z020003	200	204	5	65	20	45	45	174	10	40	4,4
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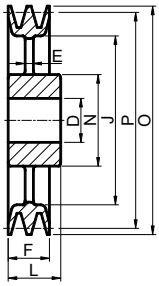
SPA1/A1 SPA1/A1



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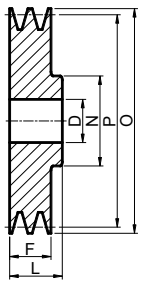
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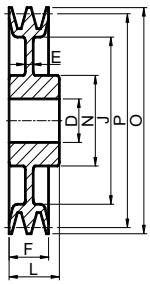
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Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
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162101A006001	60	65,5	1	40	10	28	35	-	-	20	0,4
162101A007101	71	76,5	1	40	10	28	40	-	-	20	0,5
162101A007501	75	80,5	1	40	10	28	40	-	-	20	0,5
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162101A009501	95	100,5	1	45	10	32	40	-	-	20	0,7
162101A010001	100	105,5	1	48	10	35	40	-	-	20	0,8
162101A010601	106	111,5	1	48	10	35	40	-	-	20	0,8
162101A011201	112	117,5	1	48	10	35	40	-	-	20	1,0
162101A011801	118	123,5	1	60	15	42	40	-	-	20	1,1
162101A013201	132	137,5	1	60	15	42	40	-	-	20	1,4
162101A014001	140	145,5	3	60	15	42	40	107	10	20	1,5
162101A015001	150	155,5	3	60	15	42	40	117	10	20	1,6
162101A016001	160	165,5	3	60	15	42	40	127	10	20	1,7
162101A017001	170	175,5	3	60	15	42	40	137	10	20	2,0
162101A018001	180	185,5	3	65	20	45	40	147	10	20	2,0
162101A020001	200	205,5	3	65	20	45	45	167	10	20	2,4
162101A022401	224	229,5	3	65	20	45	45	192	10	20	2,7
162101A025001	250	255,5	3	75	20	52	50	217	12	20	3,4
162101A028001	280	285,5	5	75	20	52	50	247	14	20	3,9
162101A030001	300	305,5	5	75	20	52	50	267	14	20	4,2
162101A031501	315	320,5	5	75	20	52	60	282	14	20	4,7
162101A035501	355	360,5	5	75	20	65	50	322	14	20	5,5
162101A040001	400	405,5	5	90	20	65	50	367	14	20	6,8
162101A045001	450	455,5	5	90	20	65	50	417	14	20	7,5

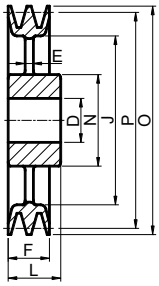
SPA2/A2 SPA2/A2



Type 1



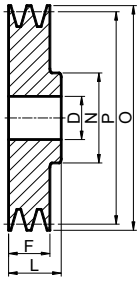
Type 3



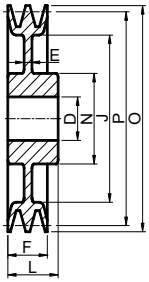
Type 5

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162101A005002	50	55,5	1	40	10	28	45	-	-	35	0,4
162101A006002	60	65,5	1	40	10	28	45	-	-	35	0,6
162101A007102	71	76,5	1	50	10	35	45	-	-	35	0,8
162101A007502	75	80,5	1	50	10	35	45	-	-	35	1,0
162101A008002	80	85,5	1	50	10	35	45	-	-	35	1,0
162101A008502	85	90,5	1	50	10	35	45	-	-	35	1,2
162101A009002	90	95,5	1	60	15	42	45	-	-	35	1,4
162101A009502	95	100,5	1	60	15	42	45	-	-	35	1,5
162101A010002	100	105,5	1	60	15	42	45	-	-	35	1,3
162101A010602	106	111,5	1	60	15	42	45	-	-	35	1,6
162101A011202	112	117,5	1	60	15	42	45	-	-	35	1,7
162101A011802	118	123,5	1	60	15	42	45	-	-	35	1,8
162101A013202	132	137,5	1	60	15	42	45	-	-	35	2,2
162101A014002	140	145,5	3	60	15	42	45	107	10	35	2,3
162101A015002	150	155,5	3	60	15	42	45	117	10	35	2,5
162101A016002	160	165,5	3	60	15	42	45	127	10	35	2,4
162101A017002	170	175,5	3	60	15	42	45	137	10	35	2,9
162101A018002	180	185,5	3	70	20	50	50	147	12	35	3,1
162101A020002	200	205,5	3	70	20	50	50	167	12	35	2,8
162101A022402	224	229,5	3	70	20	50	50	192	12	35	3,8
162101A025002	250	255,5	3	75	20	52	50	217	12	35	4,3
162101A028002	280	285,5	5	80	20	55	50	247	14	35	5,3
162101A030002	300	305,5	5	80	20	55	50	267	14	35	5,9
162101A031502	315	320,5	5	80	20	55	50	282	14	35	6,6
162101A035502	355	360,5	5	80	20	55	50	322	14	35	7,7
162101A040002	400	405,5	5	90	20	65	50	367	14	35	8,8
162101A045002	450	455,5	5	100	25	70	50	417	14	35	9,4
162101A050002	500	500,5	5	100	25	70	50	467	16	35	10,7
162101A056002	560	565,5	5	100	25	70	50	527	18	35	13,1
162101A060002	600	605,5	5	110	25	80	50	567	18	35	16,1
162101A063002	630	635,5	5	110	25	95	50	597	18	35	19,2

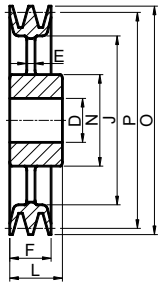
SPA3/A3 SPA3/A3



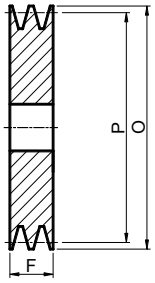
Type 1



Type 3



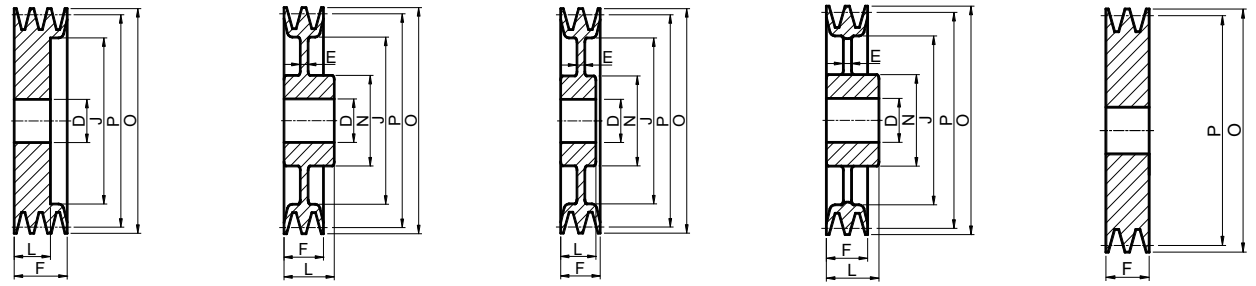
Type 5



Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162101A006003	60	65,5	7	-	10	28	-	-	-	50	0,8
162101A007103	71	76,5	1	52	10	35	52	-	-	50	0,9
162101A007503	75	80,5	7	-	10	38	-	-	-	50	1,0
162101A008003	80	85,5	7	-	15	40	-	-	-	50	1,1
162101A008503	85	90,5	7	-	15	45	-	-	-	50	1,4
162101A009003	90	95,5	7	-	15	48	-	-	-	50	1,6
162101A009503	95	100,5	7	-	15	50	-	-	-	50	1,8
162101A010003	100	105,5	7	-	15	55	-	-	-	50	1,9
162101A011203	112	117,5	7	-	15	65	-	-	-	50	2,3
162101A011803	118	123,5	7	-	15	70	-	-	-	50	2,4
162101A013203	132	137,5	7	-	15	80	-	-	-	50	2,5
162101A014003	140	145,5	3	65	15	45	52	107	12	50	2,6
162101A015003	150	155,5	3	65	20	45	52	117	12	50	2,9
162101A016003	160	165,5	3	70	20	50	52	127	12	50	2,8
162101A017003	170	175,5	3	70	20	50	52	137	12	50	3,2
162101A018003	180	185,5	3	70	20	50	52	147	12	50	3,6
162101A020003	200	205,5	3	70	20	50	52	167	12	50	4,2
162101A022403	224	229,5	3	80	20	58	52	192	12	50	4,6
162101A025003	250	255,5	3	80	20	58	60	217	12	50	5,3
162101A028003	280	285,5	5	80	20	58	60	247	14	50	6,5
162101A030003	300	305,5	5	80	20	58	60	267	14	50	7,5
162101A031503	315	320,5	5	90	20	65	60	282	14	50	8,7
162101A035503	355	360,5	5	90	20	65	60	322	14	50	9,5
162101A040003	400	405,5	5	100	25	70	60	367	16	50	10,5
162101A045003	450	455,5	5	100	25	70	60	417	16	50	12,1
162101A050003	500	505,5	5	105	25	75	60	467	20	50	13,4
162101A056003	560	565,5	5	120	25	85	65	527	20	50	15,6
162101A060003	600	605,5	5	120	25	85	65	567	20	50	20,3
162101A063003	630	635,5	5	120	25	85	65	597	20	50	25,0

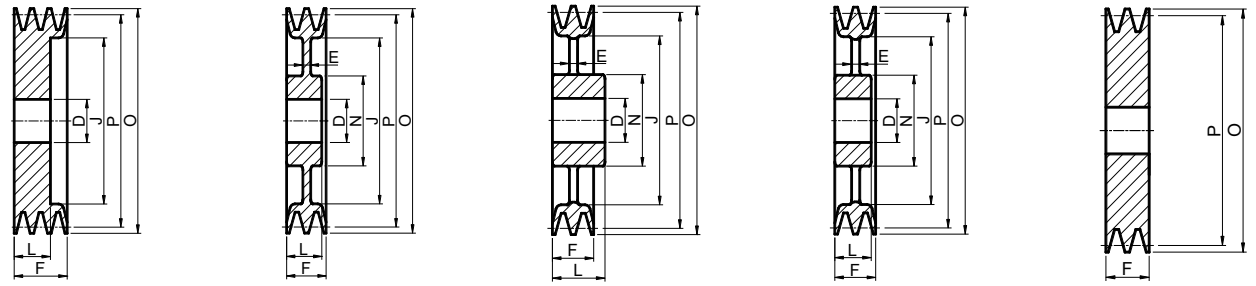
SPA4/A4 SPA4/A4



Type 2 Type 3 Type 4 Type 5 Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162101A007504	75	80,5	7	-	10	38	-	-	-	65	1,7
162101A008004	80	85,5	7	-	15	40	-	-	-	65	1,8
162101A008504	85	90,5	7	-	15	45	-	-	-	65	1,9
162101A009004	90	95,5	7	-	15	48	-	-	-	65	2,2
162101A009504	95	100,5	7	-	15	50	-	-	-	65	2,4
162101A010004	100	105,5	2	-	15	55	52	67	-	65	2,7
162101A011204	112	117,5	2	-	15	65	52	79	-	65	3,3
162101A011804	118	123,5	2	-	15	70	52	87	-	65	3,4
162101A013204	132	137,5	2	-	15	80	52	97	-	65	3,5
162101A014004	140	145,5	2	-	20	85	52	107	-	65	3,6
162101A015004	150	155,5	2	-	20	90	52	117	-	65	4,0
162101A016004	160	165,5	4	70	20	50	52	127	12	65	3,6
162101A017004	170	175,5	4	80	20	58	52	137	12	65	4,2
162101A018004	180	185,5	4	80	20	58	60	147	12	65	4,6
162101A020004	200	205,5	4	80	20	58	60	167	12	65	4,9
162101A022404	224	229,5	4	90	20	65	60	192	12	65	6,5
162101A025004	250	255,5	3	90	20	65	65	217	12	65	7,0
162101A028004	280	285,5	5	90	20	65	65	247	14	65	8,5
162101A030004	300	305,5	5	90	20	65	65	267	14	65	9,8
162101A031504	315	320,5	5	90	20	65	65	282	14	65	11,1
162101A035504	355	360,5	5	90	25	65	65	322	16	65	11,8
162101A040004	400	405,5	5	100	25	70	65	367	20	65	12,4
162101A045004	450	455,5	5	105	25	75	65	417	20	65	14,2
162101A050004	500	505,5	5	105	25	75	65	467	20	65	16,2
162101A056004	560	565,5	5	120	25	85	65	527	22	65	19,4
162101A060004	600	605,5	5	120	25	85	65	567	22	65	22,2
162101A063004	630	635,5	5	120	25	85	65	597	22	65	25,0

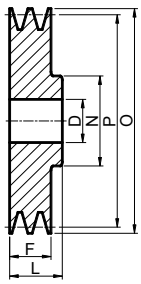
SPA5/A5 SPA5/A5



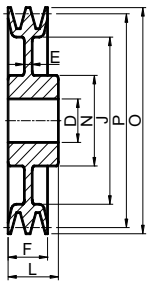
Type 2 | Type 4 | Type 5 | Type 6 | Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162101A007505	75	80,5	7	-	10	38	-	-	-	80	1,9
162101A008005	80	85,5	7	-	15	40	-	-	-	80	2,0
162101A008505	85	90,5	7	-	15	45	-	-	-	80	2,2
162101A009005	90	95,5	7	-	15	48	-	-	-	80	2,5
162101A009505	95	100,5	7	-	15	50	-	-	-	80	2,7
162101A010005	100	105,5	2	-	15	55	52	67	-	80	3,1
162101A011205	112	117,5	2	-	15	65	52	79	-	80	3,9
162101A011805	118	123,5	2	-	15	70	52	87	-	80	4,1
162101A013205	132	137,5	2	-	15	80	52	97	-	80	4,7
162101A014005	140	145,5	2	-	20	85	52	107	-	80	4,9
162101A015005	150	155,5	2	-	20	90	52	117	-	80	5,1
162101A016005	160	165,5	4	80	20	58	52	127	12	80	5,4
162101A017005	170	175,5	4	80	20	58	52	137	12	80	5,8
162101A018005	180	185,5	4	80	20	58	65	147	12	80	6,1
162101A020005	200	205,5	4	80	20	58	65	167	12	80	6,4
162101A022405	224	229,5	4	90	20	65	65	192	12	80	7,2
162101A025005	250	255,5	4	90	20	65	65	217	12	80	7,8
162101A028005	280	285,5	6	100	25	70	65	247	14	80	9,9
162101A030005	300	305,5	6	100	25	70	65	267	14	80	11,3
162101A031505	315	320,5	6	100	25	70	65	282	16	80	12,5
162101A035505	355	360,5	6	100	25	70	65	322	18	80	13,8
162101A040005	400	405,5	6	100	25	70	65	367	22	80	15,9
162101A045005	450	455,5	6	105	25	75	65	417	22	80	18,3
162101A050005	500	505,5	6	110	25	80	65	467	22	80	22,8
162101A056005	560	565,5	5	120	25	85	80	527	24	80	24,5
162101A060005	600	605,5	5	120	25	85	80	567	24	80	26,3
162101A063005	630	635,5	5	120	25	85	80	597	24	80	28,0

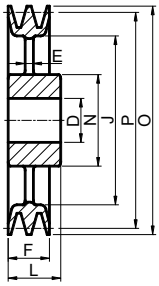
SPB1/B1 SPB1/B1



Type 1



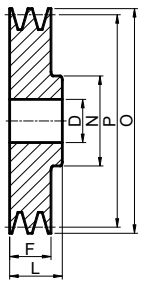
Type 3



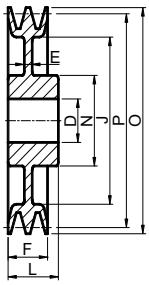
Type 5

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162102B007001	70	77	1	45	10	30	45	-	-	25	0,7
162102B008001	80	87	1	50	10	35	45	-	-	25	1,0
162102B009001	90	97	1	50	10	45	45	-	-	25	1,1
162102B010001	100	107	1	52	10	52	45	-	-	25	1,3
162102B011201	112	119	1	55	15	58	45	-	-	25	1,5
162102B012001	120	127	1	55	15	65	45	-	-	25	1,5
162102B012501	125	132	1	58	15	68	45	-	-	25	1,6
162102B013201	132	139	1	60	15	75	45	-	-	25	1,8
162102B014001	140	147	1	65	20	80	45	-	-	25	2,1
162102B015001	150	157	1	65	20	85	45	-	-	25	2,4
162102B016001	160	167	3	65	20	45	45	118	12	25	2,5
162102B017001	170	177	3	65	20	45	45	128	12	25	2,8
162102B018001	180	187	3	65	20	45	45	138	12	25	3,1
162102B020001	200	207	3	70	20	50	45	158	14	25	3,4
162102B021201	212	219	3	70	20	50	45	170	14	25	3,7
162102B022501	225	232	3	70	20	50	45	183	14	25	4,0
162102B025001	250	257	3	70	20	50	50	208	14	25	4,2
162102B028001	280	287	3	76	20	55	50	238	14	25	5,7
162102B030001	300	307	5	76	20	55	50	258	15	25	5,9
162102B031501	315	322	5	76	20	55	50	273	15	25	6,4
162102B035501	355	362	5	80	20	58	50	313	15	25	7,0
162102B040001	400	407	5	85	20	60	55	358	18	25	8,4
162102B045001	450	457	5	90	20	65	60	408	18	25	9,8
162102B050001	500	507	5	100	25	70	60	458	18	25	10,7
162102B056001	560	567	5	100	25	70	60	518	18	25	12,3
162102B060001	600	607	5	100	25	70	60	558	18	25	16,2
162102B063001	630	637	5	100	25	70	60	588	18	25	19,0

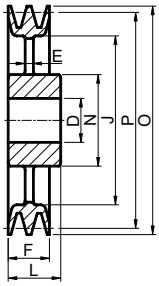
SPB2/B2 SPB2/B2



Type 1



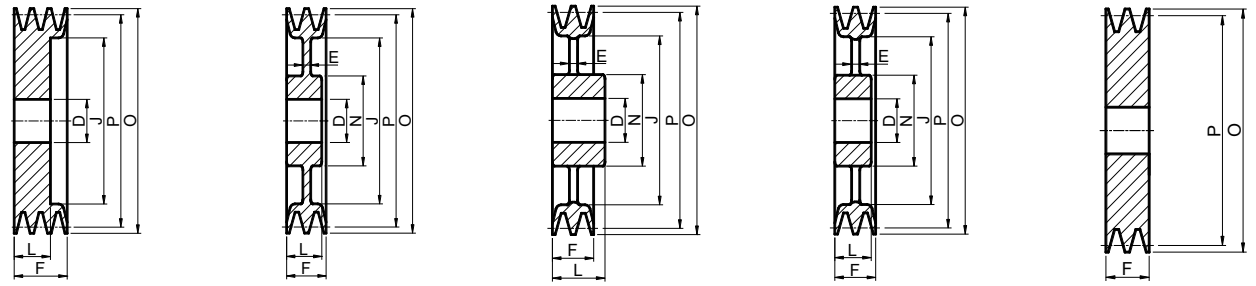
Type 3



Type 5

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162101B007002	70	77	1	45	10	30	55	-	-	44	1,3
162101B008002	80	87	1	50	10	35	55	-	-	44	1,6
162101B009002	90	97	1	50	10	45	55	-	-	44	1,8
162101B010002	100	107	1	55	15	52	55	-	-	44	2,1
162101B011202	112	119	1	60	15	58	55	-	-	44	2,3
162101B012002	120	127	1	60	15	65	55	-	-	44	2,4
162101B012502	125	132	1	60	15	68	55	-	-	44	2,5
162101B013202	132	139	1	60	15	75	55	-	-	44	2,6
162101B014002	140	147	1	65	20	80	55	-	-	44	2,9
162101B015002	150	157	1	65	20	85	55	-	-	44	3,2
162101B016002	160	167	3	70	20	50	55	118	12	44	3,3
162101B017002	170	177	3	70	20	50	55	128	12	44	3,4
162101B018002	180	187	3	70	20	50	55	138	12	44	3,9
162101B020002	200	207	3	70	20	50	55	158	12	44	4,4
162101B021202	212	219	3	77	20	55	55	170	14	44	4,6
162101B022502	225	232	3	77	20	55	55	183	14	44	5,4
162101B025002	250	257	3	77	20	55	55	208	14	44	6,1
162101B028002	280	287	3	80	20	58	55	238	14	44	7,0
162101B030002	300	307	5	80	20	58	55	258	15	44	7,5
162101B031502	315	322	5	88	20	65	60	273	15	44	8,2
162101B035502	355	362	5	88	20	65	60	313	15	44	9,7
162101B040002	400	407	5	88	20	65	60	358	18	44	10,0
162101B045002	450	457	5	90	20	65	60	408	18	44	10,8
162101B050002	500	507	5	100	25	70	65	458	20	44	13,7
162101B056002	560	567	5	100	25	70	65	518	20	44	15,0
162101B060002	600	607	5	100	25	70	65	558	20	44	17,6
162101B063002	630	637	5	100	25	70	65	588	20	44	20,2

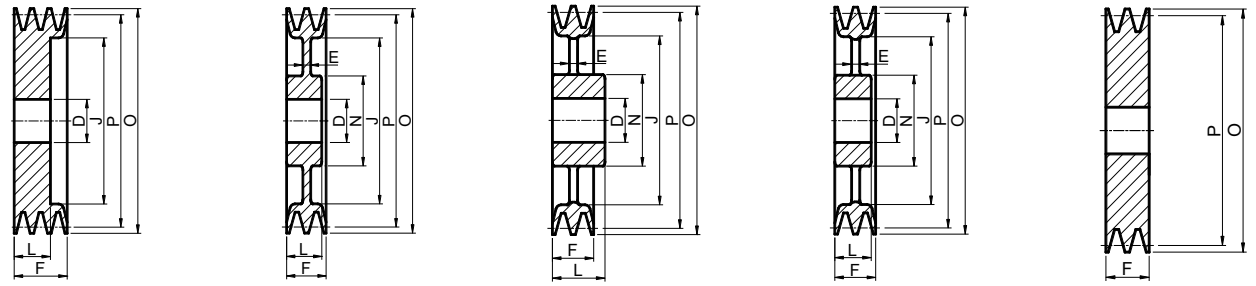
SPB3/B3 SPB3/B3



Type 2 | Type 4 | Type 5 | Type 6 | Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162102B008003	80	87	7	-	15	38	-	-	-	63	2,0
162102B009003	90	97	7	-	15	45	-	-	-	63	2,0
162102B010003	100	107	7	-	15	50	-	-	-	63	2,8
162102B011203	112	119	7	-	15	58	-	-	-	63	3,1
162102B012003	120	127	7	-	15	65	-	-	-	63	3,2
162102B012503	125	132	2	-	15	70	60	83	-	63	3,2
162102B013203	132	139	2	-	15	75	60	88	-	63	3,4
162102B014003	140	147	2	-	20	80	60	98	-	63	3,9
162102B015003	150	157	2	-	20	85	60	108	-	63	4,2
162102B016003	160	167	2	-	20	95	60	118	-	63	4,6
162102B017003	170	177	4	70	20	50	60	128	18	63	4,8
162102B018003	180	187	4	80	20	58	60	138	18	63	5,2
162102B020003	200	207	4	80	20	58	60	158	18	63	5,8
162102B021203	212	219	4	80	20	58	60	170	18	63	6,1
162102B022503	225	232	4	80	20	58	60	183	18	63	6,9
162102B025003	250	257	4	80	20	58	60	208	18	63	8,6
162102B028003	280	287	4	90	20	65	60	238	18	63	9,6
162102B030003	300	307	6	90	20	65	60	258	18	63	10,5
162102B031503	315	322	6	90	20	65	60	273	18	63	12,9
162102B035503	355	362	6	92	25	65	60	313	18	63	13,4
162102B040003	400	407	5	96	25	70	65	358	22	63	14,3
162102B045003	450	457	5	96	25	70	65	408	22	63	15,0
162102B050003	500	507	5	104	25	75	75	458	24	63	15,2
162102B056003	560	567	5	104	25	75	75	518	24	63	24,2
162102B060003	600	607	5	104	25	75	75	558	24	63	25,4
162102B063003	630	637	5	105	25	75	75	588	26	63	27,0

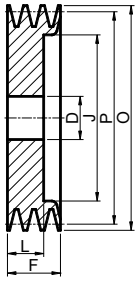
SPB4/B4 SPB4/B4



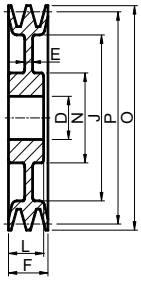
Type 2 | Type 4 | Type 5 | Type 6 | Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162102B008004	80	87	7	-	15	38	-	-	-	82	2,4
162102B009004	90	97	7	-	15	45	-	-	-	82	3,0
162102B010004	100	107	7	-	15	50	-	-	-	82	3,8
162102B011204	112	119	7	-	20	58	-	-	-	82	4,7
162102B012004	120	127	7	-	20	65	-	-	-	82	4,7
162102B012504	125	132	2	-	20	70	60	83	-	82	4,7
162102B013204	132	139	2	-	20	75	60	88	-	82	6,3
162102B014004	140	147	2	-	20	80	60	98	-	82	6,9
162102B015004	150	157	2	-	20	85	60	108	-	82	6,7
162102B016004	160	167	2	-	20	95	60	118	-	82	7,0
162102B017004	170	177	4	70	20	50	60	128	20	82	7,2
162102B018004	180	187	4	80	20	58	60	138	20	82	7,4
162102B020004	200	207	4	88	20	65	60	158	25	82	7,9
162102B021204	212	219	4	88	20	65	60	170	25	82	7,7
162102B022504	225	232	4	88	20	65	60	183	25	82	8,6
162102B025004	250	257	4	96	25	70	65	208	25	82	9,8
162102B028004	280	287	4	96	25	70	65	238	25	82	11,5
162102B030004	300	307	6	96	25	70	65	258	20	82	12,4
162102B031504	315	322	6	96	25	70	65	273	20	82	13,0
162102B035504	355	362	6	96	25	70	65	313	20	82	18,2
162102B040004	400	407	6	104	25	75	75	358	24	82	18,5
162102B045004	450	457	6	104	25	75	75	408	24	82	20,5
162102B050004	500	507	5	112	25	80	85	458	28	82	21,3
162102B056004	560	567	5	112	25	80	85	518	28	82	26,0
162102B060004	600	607	5	115	25	80	85	558	28	82	28,4
162102B063004	630	637	5	120	25	85	85	588	28	82	30,8

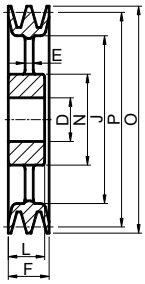
SPB5/B5 SPB5/B5



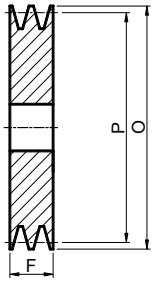
Type 2



Type 4



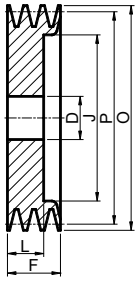
Type 6



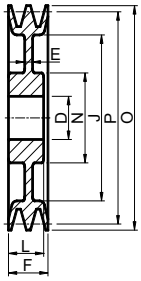
Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162102B008005	80	87	7	-	15	38	-	-	-	101	2,7
162102B009005	90	97	7	-	15	45	-	-	-	101	3,3
162102B010005	100	107	7	-	15	50	-	-	-	101	4,4
162102B011205	112	119	7	-	20	58	-	-	-	101	5,6
162102B018005	120	127	7	-	20	65	-	-	-	101	7,5
162102B012505	125	132	2	-	20	70	60	83	-	101	8,6
162102B013205	132	139	2	-	20	75	60	88	-	101	9,4
162102B014005	140	147	2	-	20	80	60	98	-	101	7,5
162102B015005	150	157	2	-	20	85	60	108	-	101	8,4
162102B016005	160	167	2	-	20	95	60	118	-	101	9,3
162102B017005	170	177	4	70	20	50	60	128	22	101	8,9
162102B018005	180	187	4	80	20	58	70	138	22	101	9,0
162102B020005	200	207	4	96	25	70	70	158	25	101	9,5
162102B021205	212	219	4	96	25	70	70	170	25	101	10,3
162102B022505	225	232	4	96	25	70	70	183	25	101	11,7
162102B025005	250	257	4	104	25	75	75	208	25	101	13,2
162102B028005	280	287	4	104	25	75	75	238	25	101	15,5
162102B030005	300	307	6	104	25	75	75	258	22	101	16,5
162102B031505	315	322	6	104	25	75	75	273	22	101	17,6
162102B035505	355	362	6	104	25	75	75	313	22	101	18,7
162102B040005	400	407	6	112	25	80	85	358	24	101	22,5
162102B045005	450	457	6	112	25	80	85	408	26	101	26,0
162102B050005	500	507	6	120	25	85	90	458	30	101	30,0
162102B056005	560	567	6	120	25	85	90	518	30	101	34,4
162102B060005	600	607	6	120	25	85	90	558	30	101	35,8
162102B063005	630	637	6	128	25	90	90	588	30	101	37,2

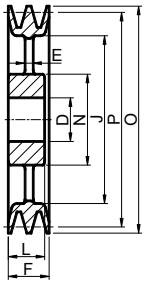
SPB6/B6 SPB6/B6



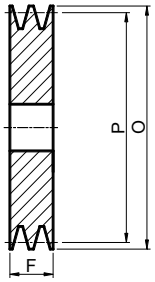
Type 2



Type 4



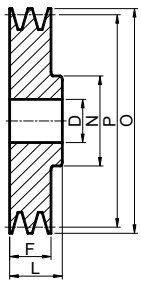
Type 6



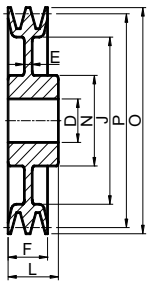
Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162102B012006	120	127	7	-	20	65	-	-	-	120	6,4
162102B012506	125	132	2	-	20	70	60	83	-	120	8,0
162102B013206	132	139	2	-	20	75	60	88	-	120	8,5
162102B014006	140	147	2	-	20	80	60	98	-	120	11,4
162102B015006	150	157	2	-	20	85	60	108	-	120	12,1
162102B016006	160	167	2	-	20	95	65	118	-	120	12,8
162102B017006	170	177	4	70	20	50	65	128	22	120	13,1
162102B018006	180	187	4	80	20	58	70	138	22	120	10,8
162102B020006	200	207	4	96	25	70	70	158	25	120	12,2
162102B021206	212	219	4	104	25	75	80	170	25	120	13,5
162102B022506	225	232	4	104	25	75	80	183	25	120	14,7
162102B025006	250	257	4	104	25	75	80	208	25	120	17,0
162102B028006	280	287	4	104	25	75	80	238	25	120	18,0
162102B030006	300	307	6	104	25	75	80	258	25	120	18,2
162102B031506	315	322	6	120	25	85	90	273	25	120	20,6
162102B035506	355	362	6	120	25	85	90	313	25	120	19,7
162102B040006	400	407	6	120	25	85	100	358	28	120	28,0
162102B045006	450	457	6	120	25	85	100	408	28	120	28,9
162102B050006	500	507	6	129	25	90	105	458	33	120	33,8
162102B056006	560	567	6	129	25	90	105	518	33	120	39,0
162102B060006	600	607	6	129	25	90	105	558	33	120	41,5
162102B063006	630	637	6	140	25	100	105	588	33	120	44,0

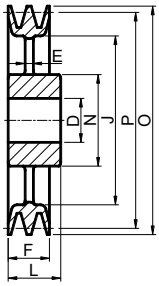
SPC1/C1 SPC1/C1



Type 1



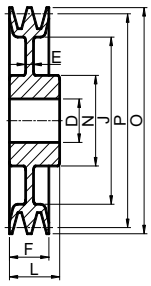
Type 3



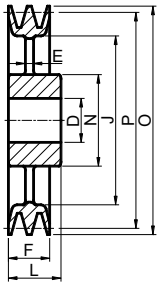
Type 5

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162103C010001	100	109,6	1	60	15	42	50	-	-	34	1,8
162103C012001	120	129,6	1	65	15	45	50	-	-	34	2,3
162103C014001	140	149,6	1	70	20	50	50	-	-	34	2,9
162103C015001	150	159,6	1	70	20	50	50	-	-	34	3,1
162103C016001	160	169,6	1	72	20	52	50	-	-	34	3,7
162103C018001	180	189,6	3	76	20	55	50	123	16	34	4,2
162103C020001	200	209,6	3	76	20	55	50	143	16	34	4,8
162103C022501	225	234,6	3	86	20	60	50	168	16	34	5,5
162103C025001	250	259,6	3	86	20	60	50	193	16	34	7,3
162103C028001	280	289,6	3	86	20	60	50	223	16	34	8,7
162103C030001	300	309,6	3	86	20	60	50	243	16	34	8,9
162103C031501	315	324,6	5	92	20	65	50	258	16	34	9,1
162103C034001	340	349,6	5	100	20	70	50	283	16	34	14,9
162103C035501	355	364,6	5	110	20	80	50	298	16	34	16,8
162103C040001	400	409,6	5	110	25	80	60	343	18	34	18,6
162103C045001	450	459,6	5	110	25	80	60	393	18	34	26,2
162103C050001	500	509,6	5	114	25	80	60	443	18	34	28,3
162103C056001	560	569,6	5	114	25	80	60	503	20	34	31,0
162103C060001	600	609,6	5	114	25	80	60	543	20	34	34,0
162103C063001	630	639,6	5	114	25	80	60	573	20	34	38,0

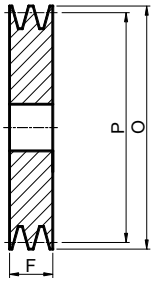
SPC2/C2 SPC2/C2



Type 3



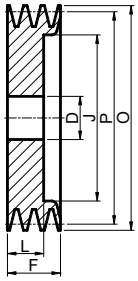
Type 5



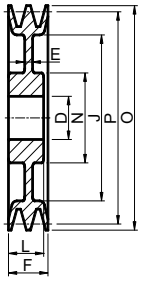
Type 7

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162103C012002	120	129,6	7	-	15	58	-	-	-	59,5	4,5
162103C014002	140	149,6	7	-	20	75	-	-	-	59,5	5,0
162103C015002	150	159,6	7	-	20	80	-	-	-	59,5	5,3
162103C016002	160	169,6	7	-	20	85	-	-	-	59,5	5,4
162103C018002	180	189,6	3	80	20	58	60	123	16	59,5	7,2
162103C020002	200	209,6	3	80	20	58	60	143	16	59,5	7,8
162103C022502	225	234,6	3	88	20	65	60	168	18	59,5	7,8
162103C025002	250	259,6	3	92	20	65	60	193	18	59,5	8,8
162103C028002	280	289,6	3	92	20	65	60	223	18	59,5	10,9
162103C030002	300	309,6	3	92	20	65	60	243	18	59,5	14,6
162103C031502	315	324,6	5	92	20	65	60	258	18	59,5	13,0
162103C034002	340	349,6	5	100	20	70	60	283	18	59,5	19,0
162103C035502	355	364,6	5	110	25	80	60	298	18	59,5	15,2
162103C040002	400	409,6	5	110	25	80	70	343	20	59,5	16,4
162103C045002	450	459,6	5	110	25	80	70	393	20	59,5	21,1
162103C050002	500	509,6	5	114	25	80	70	443	20	59,5	23,0
162103C056002	560	569,6	5	114	25	80	70	503	24	59,5	26,0
162103C060002	600	609,6	5	114	25	80	70	543	24	59,5	30,0
162103C063002	630	639,6	5	114	25	80	70	573	24	59,5	35,0

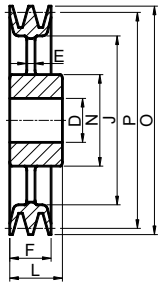
SPC3/C3 SPC3/C3



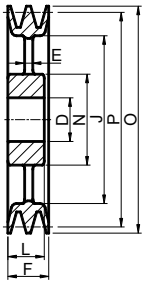
Type 2



Type 4



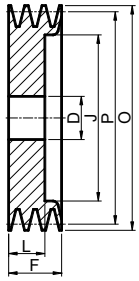
Type 5



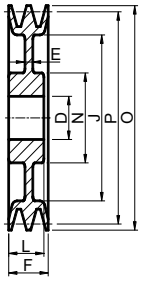
Type 6

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162101C014003	140	149,6	2	-	20	75	65	83	-	85	6,6
162101C015003	150	159,6	2	-	20	80	65	93	-	85	7,5
162101C016003	160	169,6	2	-	20	85	65	103	-	85	9,0
162101C018003	180	189,6	4	82	20	58	65	123	18	85	10,4
162101C020003	200	209,6	4	86	20	60	65	143	18	85	8,8
162101C022503	225	234,6	4	90	20	65	70	168	21	85	10,6
162101C025003	250	259,6	4	92	20	65	70	193	21	85	11,0
162101C028003	280	289,6	4	92	20	65	70	223	21	85	15,6
162101C030003	300	309,6	4	92	20	65	70	243	21	85	16,4
162101C031503	315	324,6	6	92	25	65	70	258	22	85	17,1
162101C034003	340	349,6	6	100	25	70	70	283	22	85	18,1
162101C035503	355	364,6	6	110	25	80	70	298	22	85	19,2
162101C040003	400	409,6	5	114	25	80	90	343	24	85	20,6
162101C045003	450	459,6	5	114	25	80	90	393	24	85	26,3
162101C050003	500	509,6	5	114	25	80	90	443	24	85	28,4
162101C056003	560	569,6	5	114	25	80	90	503	28	85	31,1
162101C060003	600	609,6	5	114	25	80	90	543	28	85	34,8
162101C063003	630	639,6	5	114	25	80	90	573	28	85	38,5

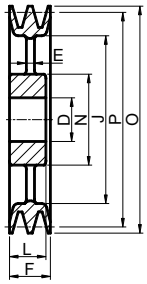
SPC4/C4 SPC4/C4



Type 2



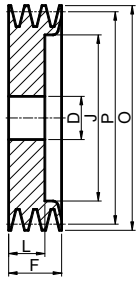
Type 4



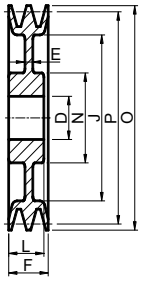
Type 6

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162103C014004	140	149,6	2	-	20	75	80	83	-	110,5	9,0
162103C015004	150	159,6	2	-	20	80	80	93	-	110,5	10,4
162103C016004	160	169,6	2	-	20	85	80	103	-	110,5	11,6
162103C018004	180	189,6	4	82	20	58	80	123	20	110,5	10,5
162103C020004	200	209,6	4	90	20	65	90	143	25	110,5	11,2
162103C022504	225	234,6	4	90	25	65	90	168	25	110,5	13,1
162103C025004	250	259,6	4	100	25	70	90	193	25	110,5	15,3
162103C028004	280	289,6	4	100	25	70	90	223	25	110,5	17,5
162103C030004	300	309,6	4	100	25	70	90	243	25	110,5	18,7
162103C031504	315	324,6	4	110	25	80	90	258	25	110,5	20,0
162103C034004	340	349,6	6	114	25	80	90	283	25	110,5	23,0
162103C035504	355	364,6	6	114	25	80	90	298	25	110,5	25,8
162103C040004	400	409,6	6	114	25	80	90	343	26	110,5	28,0
162103C045004	450	459,6	6	120	25	85	90	393	28	110,5	31,1
162103C050004	500	509,6	6	126	25	90	90	443	28	110,5	34,1
162103C056004	560	569,6	6	130	25	90	90	503	30	110,5	39,0
162103C060004	600	609,6	6	130	25	90	90	543	30	110,5	43,5
162103C063004	630	639,6	6	130	25	90	90	573	30	110,5	48,1

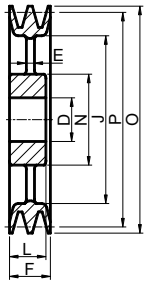
SPC5/C5 SPC5/C5



Type 2



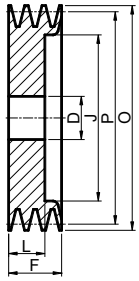
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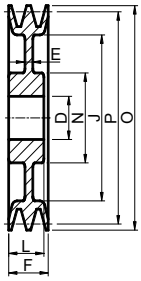
Type 6

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162103C015005	150	159,6	2	-	20	80	96	93	-	136	11,0
162103C016005	160	169,6	2	-	20	85	96	103	-	136	12,0
162103C018005	180	189,6	4	82	20	58	96	123	-	136	18,0
162103C020005	200	209,6	4	90	25	65	100	143	20	136	15,4
162103C022505	225	234,6	4	90	25	65	100	168	25	136	16,7
162103C025005	250	259,6	4	102	25	75	100	193	25	136	19,0
162103C028005	280	289,6	4	102	25	75	100	223	25	136	20,5
162103C030005	300	309,6	4	104	25	75	100	243	25	136	22,6
162103C031505	315	324,6	4	112	25	80	100	258	25	136	24,7
162103C034005	340	349,6	6	114	25	80	100	283	28	136	28,3
162103C035505	355	364,6	6	114	25	80	100	298	28	136	32,0
162103C040005	400	409,6	6	120	25	85	100	343	28	136	32,0
162103C045005	450	459,6	6	120	25	85	100	393	30	136	42,2
162103C050005	500	509,6	6	126	25	90	100	443	30	136	48,2
162103C056005	560	569,6	6	130	25	90	100	503	32	136	54,1
162103C060005	600	609,6	6	130	25	90	100	543	32	136	58,1
162103C063005	630	639,6	6	130	25	90	100	573	32	136	62,2

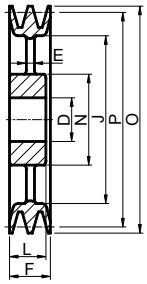
SPC6/C6 SPC6/C6



Type 2



Type 4



Type 6

Artikel Nr. Part Nr.	P	O	Type	N	D_{min}	D_{max}	L	J	E	F	Massa Mass
	[mm]		[-]	[mm]							[kg]
162103C016006	160	169,6	2	-	20	85	96	103	-	161,5	20,3
162103C018006	180	189,6	4	82	20	58	96	123	25	161,5	23,6
162103C020006	200	209,6	4	90	25	65	100	143	25	161,5	27,0
162103C022506	225	234,6	4	90	25	65	100	168	25	161,5	35,0
162103C025006	250	259,6	4	102	25	75	100	193	25	161,5	23,7
162103C028006	280	289,6	4	102	25	75	100	223	25	161,5	27,0
162103C030006	300	309,6	4	104	25	75	100	243	25	161,5	29,1
162103C031506	315	324,6	4	112	25	80	100	258	28	161,5	31,2
162103C034006	340	349,6	6	114	25	80	100	283	30	161,5	33,0
162103C035506	355	364,6	6	114	25	80	100	298	30	161,5	36,2
162103C040006	400	409,6	6	120	25	85	100	343	30	161,5	45,2
162103C045006	450	459,6	6	120	25	85	100	393	32	161,5	48,5
162103C050006	500	509,6	6	126	25	90	100	443	32	161,5	52,5
162103C056006	560	569,6	6	130	25	90	100	503	35	161,5	61,5
162103C060006	600	609,6	6	130	25	90	100	543	35	161,5	67,3
162103C063006	630	639,6	6	130	25	90	100	573	35	161,5	73,2

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