V-Belt Pulley Solid Hub

Item no. example mm

2 Z 75

- 75 — Pitch diameter (Dd)
- Z — Profile
- 2 — No of grooves

V-belt pulleys with unborded solid hub are available in profiles SPA and SPB. Pulleys in profile SPZ and SPC are available on request. These pulleys are all made of cast iron material.

For questions of design or help choosing the correct product, contact Jens S.
For calculating and CAD drawings press here.

Profile SPZ	
Suitable belt	**min. disc diameter Dd [mm]**
Wrapped profile Z	50
Banded profile Z	50
Wrapped profile SPZ	67
Banded profile SPZ	50

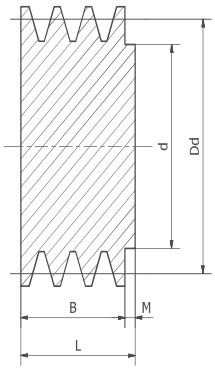
Profile SPA	
Suitable belts	**min. disc diameter Dd [mm]**
Wrapped profile A	75
Banded profile A	50
Wrapped profile SPA	100
Banded profile SPA	71

Profile SPB	
Suitable belts	**min. disc diameter Dd [mm]**
Wrapped profile B	125
Banded profile B	63
Wrapped profile SPB	160
Banded profile SPB	112

No. of grooves	SPZ B [mm]	SPA/A B [mm]	SPB/B B [mm]
1	16	22	29
2	28	37	48
3	40	52	67
4	-	67	86
5	-	82	105
6	-	-	124

SPZ

Dd [mm]	Item no Jens S.	No. Of grooves	Max bore [mm]	Execution	Design	Di [mm]	d [mm]	L [mm]	M [mm]	Weight kg
	1Z50	1	20	1	Solid	-	32	28	12	0,3
50	2Z50	2	20	1	Solid	-	35	35	7	0,4
	3Z50	3	20	6	Solid	-	-	40	-	0,5
	1Z56	1	20	1	Solid	-	32	28	12	0,4
56	2Z56	2	25	1	Solid	-	40	35	7	0,6
	3Z56	3	25	6	Solid	-	-	40	-	0,8
	1Z63	1	25	1	Solid	-	40	28	12	0,4
63	2Z63	2	25	1	Solid	-	40	35	7	0,6
	3Z63	3	25	6	Solid	-	-	40	-	0,9
	1Z71	1	25	2	Disc	-	40	28	12	0,4
71	2Z71	2	25	1	Solid	-	48	35	7	0,9
	3Z71	3	30	6	Solid	-	-	40	-	1,2
	1Z75	1	25	2	Disc	-	40	28	12	0,5
75	2Z75	2	25	1	Solid	-	50	35	7	1
	3Z75	3	30	6	Solid	-	-	40	-	1,2
	1Z80	1	25	2	Disc	-	40	28	12	0,5
80	2Z80	2	30	2	Disc	-	48	35	7	0,9
	3Z80	3	38	6	Solid	-	-	40	-	1,3
	1Z85	1	25	2	Disc	-	40	28	12	0,5
85	2Z85	2	30	2	Disc	-	40	35	7	1,1
	3Z85	3	38	6	Solid	-	-	40	-	1,7
	1Z90	1	25	2	Disc	-	40	28	12	0,7
90	2Z90	2	30	2	Disc	-	48	35	7	1,2
	3Z90	3	38	6	Solid	-	-	40	-	1,7
	1Z95	1	28	2	Disc	-	45	28	12	0,7
95	2Z95	2	30	2	Disc	-	50	35	7	1,2
	3Z95	3	38	6	Solid	-	-	40	-	1,9
	1Z100	1	28	2	Disc	-	45	28	12	0,8
100	2Z100	2	30	2	Disc	-	50	35	7	1,3
	3Z100	3	38	7	Disc	-	60	40	-	1,3
	1Z106	1	28	2	Disc	-	45	28	12	0,8
106	2Z106	2	30	2	Disc	-	48	35	7	1,3
	3Z106	3	38	7	Disc	-	62	40	-	1,3
	1Z112	1	28	2	Disc	-	45	28	12	1
112	2Z112	2	30	2	Disc	-	48	35	7	1,4
	3Z112	3	38	7	Disc	-	62	40	-	1,4
	1Z118	1	28	2	Spoke	97	45	28	12	0,8
118	2Z118	2	30	2	Disc	-	48	35	7	1,6
	3Z118	3	38	7	Disc	-	62	40	-	1,6
	1Z125	1	28	2	Spoke	104	45	28	12	1
125	2Z125	2	30	2	Spoke	104	50	35	7	1,4
	3Z125	3	38	7	Disc	-	62	40	-	1,4
	1Z132	1	28	2	Spoke	110	45	28	12	1
132	2Z132	2	30	2	Spoke	109,5	50	40	12	1,5
	3Z132	3	38	7	Spoke	112	61	40	-	1,5
	1Z140	1	28	2	Spoke	117	45	28	12	1,3
140	2Z140	2	38	2	Spoke	118	61	40	14	1,8
	3Z140	3	38	7	Spoke	117	61	40	-	1,8
	1Z150	1	28	2	Spoke	129	45	28	12	1,5
150	2Z150	2	38	2	Disc	129	61	40	12	1,5
	3Z150	3	38	7	Disc	129	61	40	-	1,5



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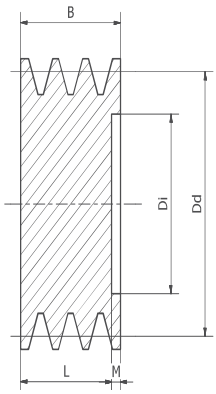

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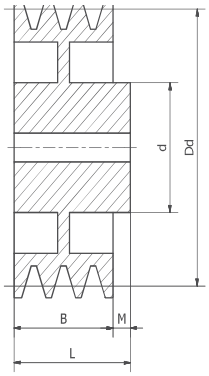

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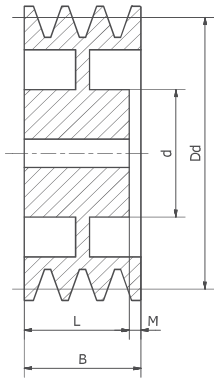

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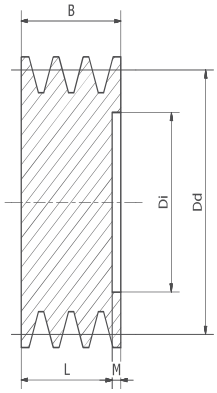
	1Z160	1	32	2	Spoke	139	55	32	16	1,4
160	2Z160	2	38	2	Spoke	139	61	40	12	1,9
	3Z160	3	42	2	Spoke	139	68	45	5	1,9
	1Z180	1	32	2	Spoke	159	55	32	16	1,7
180	2Z180	2	38	2	Spoke	159	61	40	12	2,4
	3Z180	3	42	2	Spoke	159	68	45	5	2,4
	1Z200	1	32	2	Spoke	179	55	32	16	1,6
200	2Z200	2	38	2	Spoke	179	62	40	12	2,2
	3Z200	3	42	2	Spoke	179	68	45	5	2,2
	1Z250	1	32	2	Spoke	229	55	32	16	2
250	2Z250	2	38	2	Spoke	229	61	40	12	2,9
	3Z250	3	42	2	Spoke	229	68	45	5	2,9
	1Z280	1	35	2	Spoke	-	55	34	18	3,9
280	2Z280	2	42	2	Spoke	-	61	38	10	5,2
	3Z280	3	48	2	Spoke	-	68	40	-	7
	1Z315	1	35	2	Spoke	-	55	34	18	4,4
315	2Z315	2	42	2	Spoke	-	61	38	10	6,8
	3Z315	3	48	2	Spoke	-	68	40	-	8,3
	1Z355	1	35	2	Spoke	-	55	34	18	4,6
355	2Z355	2	42	2	Spoke	-	61	38	10	8
	3Z355	3	48	2	Spoke	-	68	40	-	1



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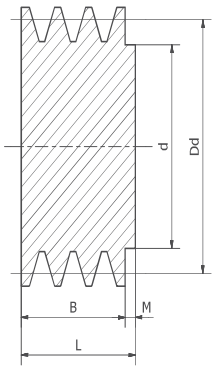
SPA

Dd [mm]	Item no Jens S.	No. Of grooves	Max bore [mm]	Execution	Design	Di [mm]	d [mm]	L [mm]	M [mm]	N [mm]	Weight kg
	1A50	1	20	2	Disc	-	32	35	13	-	0,4
50	2A50	2	25	1	Solid	-	40	45	8	-	0,6
	3A50	3	25	6	Solid	-	-	52	-	-	0,8
	1A56	1	20	2	Disc	-	335	35	13	-	0,4
56	2A56	2	25	1	Solid	-	40	45	8	-	0,6
	3A56	3	25	6	Solid	-		52	-	-	0,8
	1A63	1	25	2	Disc	-	40	35	13	-	0,5
	2A63	2	25	2	Disc	-	40	45	8	-	0,8
63	3A63	3	25	6	Solid	-	-	52	-	-	1,1
	4A63	4	25	6	Solid	-	-	67	-	-	1,3
	5A63	5	25	6	Solid	-	-	82	-	-	1,8
	1A71	1	25	2	Disc	-	40	35	13	-	0,6
	2A71	2	28	2	Disc	-	50	45	8	-	1
71	3A71	3	32	6	Solid	-	-	52	-	-	1,3
	4A71	4	32	6	Solid	-	-	67	-	-	1,7
	5A71	5	32	6	Solid	-	-	82	-	-	2,1
	1A75	1	25	2	Disc	-	40	35	13	-	0,7
	2A75	2	28	2	Disc	-	50	45	8	-	1,1
75	3A75	3	32	6	Solid	-	-	52	-	-	1,8
	4A75	4	32	6	Solid	-	-	67	-	-	2,2
	5A75	5	32	6	Solid	-	-	82	-	-	2,7
	1A80	1	28	2	Disc	-	45	35	13	-	0,8
	2A80	2	32	2	Disc	-	50	45	8	-	1,2
80	3A80	3	38	6	Solid	-	-	52	-	-	1,8
	4A80	4	38	6	Solid	-	-	67	-	-	2,3
	5A80	5	38	6	Solid	-	-	82	-	-	2,7
	1A85	1	28	2	Disc	-	45	35	13	-	0,8
85	2A85	2	32	2	Disc	-	50	45	8	-	1,4
	3A85	3	38	6	Solid	-	-	52	-	-	1,9
	4A85	4	38	6	Solid	-	-	67	-	-	2,5
	1A90	1	28	2	Disc	-	45	35	13	-	0,9
	2A90	2	32	2	Disc	-	60	45	8	-	1,7
90	3A90	3	38	6	Solid	-	-	52	-	-	2,2
	4A90	4	42	6	Solid	-	-	67	-	-	2,4
	5A90	5	42	6	Solid	-	-	82	-	-	2,7
	1A95	1	28	2	Disc	-	50	35	13	-	1
95	2A95	2	32	2	Disc	-	60	45	8	-	1,8
	3A95	3	38	6	Solid	-	-	52	-	-	2,5
	4A95	4	42	6	Solid	-	-	67	-	-	2,5
	1A100	1	28	2	Disc	-	48	35	13	-	1,1
	2A100	2	32	2	Disc	-	48	45	8	-	1,9
100	3A100	3	38	6	Spoke	-	-	52	-	-	2,7
	4A100	4	42	3	Solid	74	70	50	-	17	2,9
	5A100	5	42	3	Solid	74	70	50	-	32	3,3
	1A112	1	28	2	Disc	-	48	35	13	-	1,2
	2A112	2	38	2	Disc	-	60	45	8	-	2,1
112	3A112	3	38	6	Spoke	-	-	52	-	-	3,4
	4A112	4	42	3	Solid	86	70	50	-	17	3,5
	5A112	5	42	3	Solid	80	70	50	-	32	3,6
	1A118	1	38	2	Disc	-	60	35	13	-	1,4
	2A118	2	38	2	Disc	-	60	45	8	-	2,5
118	3A118	3	42	6	Spoke	-	-	52	-	-	3,8
	4A118	4	42	3	Solid	92	70	50	-	17	3,9
	5A118	5	48	3	Solid	86	70	50	-	32	3,9



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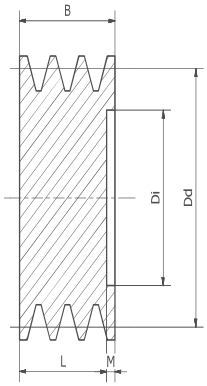

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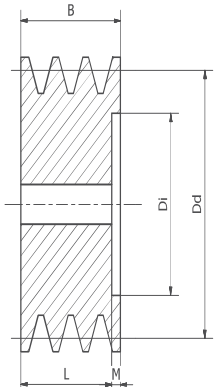

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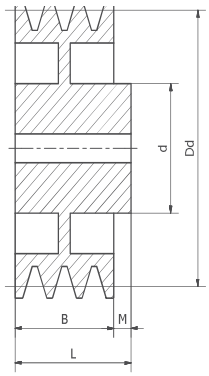

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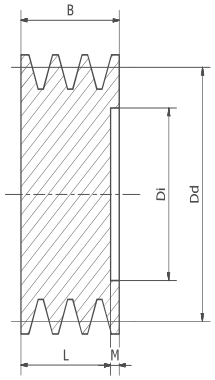
	2A125	2	38	2	Disc	-	60	45	8	-	2,7
125	3A125	3	42	6	Spoke	-	-	52	-	-	4,3
	4A125	4	42	3	Solid	99	70	50	-	17	4,6
	5A125	5	48	3	Solid	99	80	50	-	32	4,4
	1A132	1	36	2	Disc	-	58	35	13	-	1,7
	2A132	2	38	2	Disc	-	60	45	8	-	2,9
132	3A132	3	42	5	Disc	-	68	50	-	-	4,4
	4A132	4	42	3	Solid	106	70	50	-	17	4,8
	5A132	5	48	3	Solid	106	80	50	-	32	5,4
	1A140	1	38	2	Spoke	114	60	35	13	-	1,8
	2A140	2	38	2	Spoke	114	61	45	8	-	2,3
140	3A140	3	42	5	Disc	-	68	50	2	-	4,7
	4A140	4	42	3	Solid	114	70	50	-	17	5,3
	5A140	5	48	3	Solid	114	80	50	-	32	6
	1A150	1	38	2	Spoke	124	60	40	18	-	1,8
	2A150	2	38	2	Spoke	124	61	45	8	-	2,3
150	3A150	3	42	5	Disc	-	70	50	2	-	5,2
	4A150	4	48	3	Solid	124	80	50	-	17	6
	5A150	5	48	3	Solid	124	80	50	-	32	6,6
	1A160	1	38	2	Spoke	134	60	40	18	-	1,9
160	2A160	2	38	2	Spoke	134	61	45	8	-	2,5
	3A160	3	42	5	Spoke	133	70	50	2	-	3,6
	4A160	4	48	3	Solid	134	80	50	-	17	7
	1A170	1	35	2	Spoke	143	65	36	16	-	2
170	2A170	2	35	2	Spoke	143	70	49	14	-	2,9
	3A170	3	35	5	Spoke	143	70	42	8	-	3,2
	4A170	4	38	5	Spoke	143	80	60	7	-	4,2
	1A180	1	40	2	Spoke	154	65	40	18	-	2,1
	2A180	2	42	2	Spoke	154	70	50	13	-	3,5
180	3A180	3	42	5	Spoke	153	70	50	2	-	3,9
	4A180	4	48	5	Spoke	153	80	60	7	-	5,3
	5A180	5	48	5	Spoke	153	80	65	17	-	6
	1A190	1	38	2	Spoke	164	65	36	16	-	2
190	2A190	2	42	2	Spoke	164	68	49	14	-	3,2
	3A190	3	42	5	Spoke	164	77	42	8	-	4
	1A200	1	38	2	Spoke	174	65	40	18	-	2,5
	2A200	2	42	2	Spoke	174	68	50	13	-	3,5
200	3A200	3	48	5	Spoke	173	77	50	2	-	4,8
	4A200	4	55	5	Spoke	173	90	60	7	-	6,4
	5A200	5	55	5	Spoke	173	90	65	17	-	6,8
	1A224	1	38	2	Spoke	199	65	40	18	-	3
	2A224	2	42	2	Spoke	199	70	50	13	-	4,1
224	3A224	3	48	5	Spoke	198	77	50	2	-	5
	4A224	4	55	5	Spoke	198	90	60	7	-	7,1
	5A224	5	55	5	Spoke	198	90	65	17	-	8,1
	1A236	1	38	2	Spoke	210	65	36	16	-	3,3
	2A236	2	48	2	Spoke	210	70	49	12	-	4,1
236	3A236	3	48	5	Spoke	210	77	47	5	-	4,9
	4A236	4	55	5	Spoke	210	90	60	7	-	6,2
	5A236	5	55	5	Spoke	210	90	70	12	-	7,5
	1A250	1	46	2	Spoke	224	75	50	28	-	3,3
	2A250	2	48	2	Spoke	224	77	50	13	-	4,7
250	3A250	3	48	5	Spoke	223	77	50	2	-	5,5
	4A250	4	55	5	Spoke	223	90	60	7	-	6,8
	5A250	5	60	5	Spoke	223	95	65	17	-	8,9



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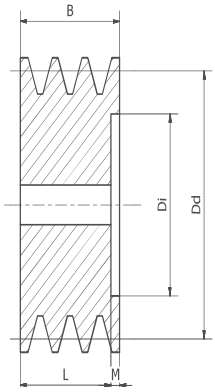

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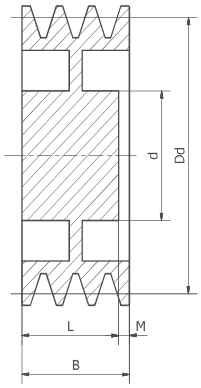

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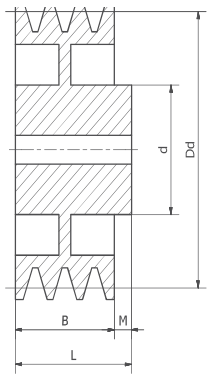
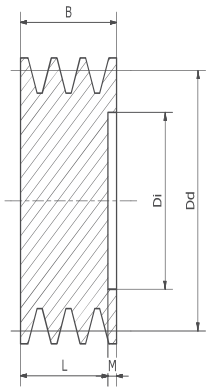


6

SPA

Dd [mm]	Item no Jens S.	No. Of grooves	Max bore [mm]	Execution	Design	Di [mm]	d [mm]	L [mm]	M [mm]	N [mm]	Weight kg
	1A280	1	42	2	Spoke	254	70	50	28	-	3,7
	2A280	2	48	2	Spoke	254	77	50	13	-	4,9
280	3A280	3	48	5	Spoke	253	77	50	2	-	6,4
	4A280	4	55	5	Spoke	253	90	60	7	-	8,4
	5A280	5	60	5	Spoke	253	96	65	17	-	9,7
	1A300	1	46	2	Spoke	274	75	50	30	-	4,1
	2A300	2	55	2	Spoke	274	77	50	13	-	5,4
300	3A300	3	55	5	Spoke	274	90	60	8	-	8
	4A300	4	55	5	Spoke	274	88	60	7	-	9,6
	5A300	5	60	5	Spoke	274	96	70	12	-	10,3
	1A315	1	46	2	Spoke	289	75	50	28	-	4,3
	2A315	2	48	2	Spoke	289	77	50	13	-	5,6
315	3A315	3	55	2	Spoke	288	90	60	8	-	7,8
	4A315	4	55	5	Spoke	288	90	60	7	-	10,2
	5A315	5	60	5	Spoke	288	96	70	12	-	11,5
	1A355	1	42	2	Spoke	329	75	50	28	-	4,9
	2A355	2	55	2	Spoke	329	75	60	23	-	7,1
355	3A355	3	55	2	Spoke	328	90	60	8	-	8,5
	4A355	4	55	5	Spoke	328	90	60	7	-	10,1
	5A355	5	60	5	Spoke	328	96	70	12	-	12,5
	1A400	1	50	2	Spoke	374	80	50	28	-	5,5
	2A400	2	55	2	Spoke	374	80	60	23	-	8,2
400	3A400	3	60	2	Spoke	373	96	65	13	-	7,8
	4A400	4	60	5	Spoke	373	96	65	2	-	12
	5A400	5	60	5	Spoke	373	96	70	12	-	14,2
	1A450	1	52	2	Spoke	424	88	60	28	-	7,4
	2A450	2	55	2	Spoke	424	88	60	23	-	11,2
450	3A450	3	60	2	Spoke	423	96	65	13	-	11,2
	4A450	4	65	2	Spoke	423	105	70	3	-	12,8
	5A450	5	65	5	Spoke	423	105	70	12	-	15,8
	2A500	2	60	2	Spoke	474	90	60	23	-	12,2
500	3A500	3	60	2	Spoke	473	96	65	13	-	13,2
	4A500	4	65	2	Spoke	473	105	70	3	-	16,6
	5A500	5	65	5	Spoke	473	105	70	12	-	18,9
	2A560	2	60	2	Spoke	534	90	60	23	-	13,3
560	3A560	3	60	2	Spoke	533	96	65	13	-	16,8
	4A560	4	65	2	Spoke	533	105	70	3	-	21,6
	5A560	5	65	5	Spoke	533	105	70	12	-	24,2



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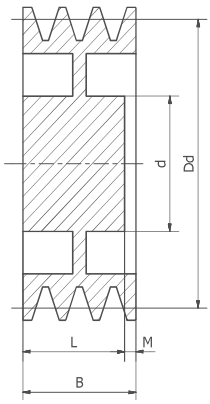
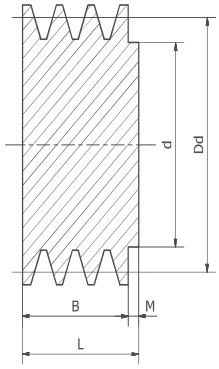


5

SPB

Dd [mm]	Item no Jens S.	No. Of grooves	Max bore [mm]	Execution	Design	Di [mm]	d [mm]	L [mm]	M [mm]	N [mm]	Weight kg
60	1B60	1	25	1	Solid	-	40	35	6	-	0,7
	2B60	2	25	6	Solid	-	-	48	-	-	1
	1B71	1	28	1	Solid	-	45	35	6	-	0,9
71	2B71	2	28	6	Solid	-	-	48	-	-	1,3
	3B71	3	28	6	Solid	-	-	67	-	-	1,5
	1B75	1	28	1	Solid	-	45	35	6	-	0,9
75	2B75	2	28	6	Solid	-	-	48	-	-	1,4
	3B75	3	28	6	Solid	-	-	67	-	-	1,9
	1B80	1	30	2	Disc	-	50	35	6	-	1,1
80	2B80	2	30	6	Solid	-	-	48	-	-	1,7
	3B80	3	30	6	Solid	-	-	67	-	-	2,2
	4B80	4	32	6	Solid	-	-	86	-	-	2,9
	1B85	1	30	2	Disc	-	50	35	6	-	1,1
85	2B85	2	30	2	Disc	-	50	55	7	-	1,8
	3B85	3	32	6	Solid	-		67	-	-	2,5
	1B90	1	30	2	Disc	-	48	35	6	-	1,1
	2B90	2	32	2	Disc	-	50	55	7	-	1,9
90	3B90	3	35	6	Solid	-	-	67	-	-	2,8
	4B90	4	38	3	Solid	60	65	50	-	36	2,7
	5B90	5	38	3	Solid	60	65	50	-	55	3,2
	1B95	1	30	2	Disc	-	52	35	6	-	1,4
95	2B95	2	32	2	Disc	-	55	55	7	-	2,1
	3B95	3	35	6	Solid	-	-	67	-	-	3
	4B95	4	38	3	Solid	65	-	50	-	36	2,9
	1B100	1	30	2	Disc	-	52	35	6	-	1,4
	2B100	2	32	2	Disc	-	55	55	7	-	2,3
100	3B100	3	35	6	Solid	-	-	67	-	-	2,8
	4B100	4	38	3	Solid	70	65	50	-	36	3,2
	5B100	5	38	3	Solid	70	65	50	-	-	3,7
	1B106	1	30	2	Disc	-	48	35	6	-	1,4
106	2B106	2	32	2	Disc	-	55	55	7	-	2,7
	3B106	3	38	3	Solid	76	65	50	-	17	3
	4B106	4	38	3	Solid	76	65	50	-	36	3,6
	1B112	1	32	2	Disc	-	55	35	6	-	1,5
	2B112	2	38	2	Disc	-	61	55	7	-	2,9
112	3B112	3	38	3	Solid	82	65	50	-	17	3,3
	4B112	4	42	3	Solid	82	75	50	-	36	4
	5B112	5	42	3	Solid	82	75	50	-	-	4,5
	1B118	1	32	2	Disc	-	55	35	6	-	1,6
	2B118	2	38	2	Disc	-	60	55	7	-	3
118	3B118	3	42	3	Solid	88	75	50	-	17	3,9
	4B118	4	42	3	Solid	88	75	50	-	36	4,3
	5B118	5	42	3	Solid	88	75	50	-	55	4,3
	1B125	1	32	2	Disc	-	58	35	6	-	2
	2B125	2	38	2	Disc	-	61	55	7	-	3,4
	3B125	3	42	3	Solid	96	75	55	-	17	4,3
125	4B125	4	42	3	Solid	96	75	50	-	36	4,9
	5B125	5	42	3	Solid	96	75	50	-	55	5,4
	6B125	6	48	3	Solid	96	80	50	-	64	6,4
	1B132	1	32	2	Disc	-	60	35	6	-	1,9
	2B132	2	38	2	Disc	-	61	55	7	-	3,6
132	3B132	3	42	3	Solid	103	75	55	-	12	4,7
	4B132	4	42	3	Solid	103	80	50	-	36	5,2
	5B132	5	48	3	Solid	103	80	60	-	45	6,5



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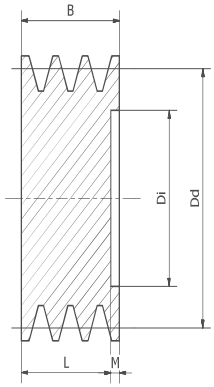

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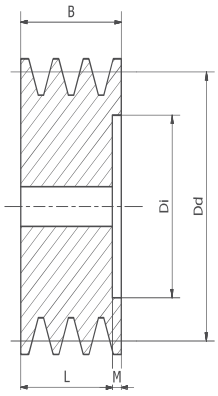

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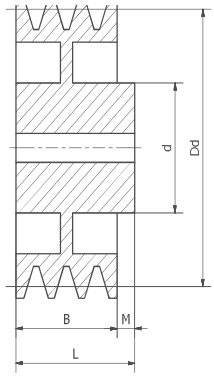
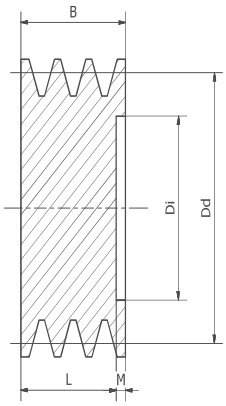


6

SPB

Dd [mm]	Item no Jens S.	No. Of grooves	Max bore [mm]	Execution	Design	Di [mm]	d [mm]	L [mm]	M [mm]	N [mm]	Weight kg
	1B140	1	32	2	Disc	-	65	35	6	-	2,1
	2B140	2	38	2	Disc	-	65	55	7	-	4,1
140	3B140	3	42	3	Solid	111	75	50	-	17	5,1
	4B140	4	42	3	Solid	111	80	50	-	36	5,9
	5B140	5	48	3	Solid	111	80	60	-	45	7,2
	6B140	6	48	3	Solid	111	80	60	-	64	7,8
	1B150	1	32	2	Spoke	122	60	40	11	-	2,2
	2B150	2	38	2	Spoke	122	61	55	7	-	3,2
150	3B150	3	42	3	Solid	121	75	50	-	17	6
	4B150	4	42	3	Solid	121	80	50	-	36	6,6
	5B150	5	48	3	Solid	121	80	60	-	45	7,9
	6B150	6	48	3	Solid	121	90	60	-	64	8,7
	1B160	1	38	2	Spoke	131	65	40	11	-	2,5
	2B160	2	42	2	Spoke	131	68	55	7	-	3,5
160	3B160	3	48	5	Spoke	131	80	50	17	-	5,1
	4B160	4	48	3	Solid	131	90	60	-	26	8,4
	5B160	5	48	3	Solid	131	90	60	-	45	9
	6B160	6	55	3	Solid	121	90	65	-	59	9,9
	1B170	1	38	2	Spoke	141	65	40	11	-	2,6
	2B170	2	42	2	Spoke	141	67	50	2	-	3,7
170	3B170	3	48	5	Spoke	141	80	50	17	-	5,1
	4B170	4	48	3	Solid	141	90	60	-	26	9,4
	5B170	5	48	3	Solid	141	90	60	-	45	10,2
	6B170	6	60	3	Solid	131	100	65	-	59	11,6
	1B180	1	38	2	Spoke	151	65	40	11	-	2,7
	2B180	2	42	2	Spoke	151	68	50	2	-	3,7
180	3B180	3	48	5	Spoke	151	80	50	17	-	5,2
	4B180	4	48	3	Solid	151	90	60	26	-	7,4
	5B180	5	55	3	Solid	151	90	70	-	35	12,6
	6B180	6	60	3	Solid	151	100	70	-	54	13,7
	1B190	1	38	2	Spoke	161	65	40	11	-	2,8
	2B190	2	42	2	Spoke	161	68	50	2	-	3,9
190	3B190	3	48	5	Spoke	161	80	50	17	-	5,5
	4B190	4	48	5	Spoke	161	90	60	26	-	7,1
	5B190	5	55	5	Spoke	161	90	70	35	-	10,2
	1B200	1	38	2	Spoke	171	70	40	11	-	3,1
	2B200	2	42	2	Spoke	171	70	50	2	-	4,5
200	3B200	3	48	5	Spoke	171	80	50	17	-	5,7
	4B200	4	50	5	Spoke	171	96	60	26	-	8,5
	5B200	5	55	5	Spoke	171	90	70	35	-	10,2
	6B200	6	60	5	Spoke	171	96	80	44	-	11,9
	1B212	1	38	2	Spoke	183	70	40	11	-	3,4
212	2B212	2	42	2	Spoke	183	70	50	2	-	4,4
	3B212	3	48	5	Spoke	183	80	50	17	-	6
	4B212	4	50	5	Spoke	183	90	60	26	-	7,9
	1B224	1	42	2	Spoke	196	70	45	16	-	3,8
	2B224	2	48	2	Spoke	196	77	50	2	-	4,7
224	3B224	3	50	5	Spoke	197	80	50	17	-	6,1
	4B224	4	55	5	Spoke	197	88	60	26	-	9,8
	5B224	5	60	5	Spoke	197	96	70	35	-	14,1
	6B224	6	65	5	Spoke	197	104	80	44	-	14,1



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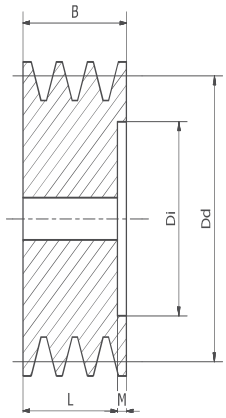

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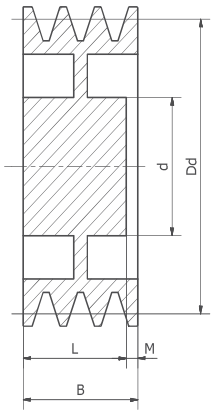

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	1B250	1	42	2	Spoke	222	70	45	16	-	3,8
	2B250	2	48	2	Spoke	222	77	50	2	-	5,4
250	3B250	3	55	5	Spoke	222	88	60	7	-	7,8
	4B250	4	60	5	Spoke	222	96	65	21	-	11,5
	5B250	5	65	5	Spoke	222	104	75	30	-	12,3
	6B250	6	65	5	Spoke	222	104	80	44	-	13,6
	1B280	1	48	2	Spoke	252	76	45	16	-	4,4
	2B280	2	48	2	Spoke	252	77	50	2	-	6,2
280	3B280	3	55	5	Spoke	252	90	60	7	-	8,8
	4B280	4	60	5	Spoke	252	96	65	21	-	11,5
	5B280	5	65	5	Spoke	252	104	75	30	-	14,2
	6B280	6	75	5	Spoke	252	104	80	44	-	15,6
	1B300	1	48	2	Spoke	222	70	45	16	-	5,4
	2B300	2	48	2	Spoke	272	80	50	2	-	6,5
300	3B300	3	55	5	Spoke	272	88	60	7	-	6,5
	4B300	4	60	5	Spoke	272	96	60	21	-	9,7
	5B300	5	65	5	Spoke	272	104	75	30	-	12
	6B300	6	70	5	Spoke	272	104	90	34	-	18,2
	1B315	1	48	2	Spoke	287	75	50	21	-	5,1
	2B315	2	55	2	Spoke	287	88	60	12	-	7,8
315	3B315	3	55	5	Spoke	287	90	60	7	-	9,6
	4B315	4	60	5	Spoke	287	96	65	21	-	12
	5B315	5	65	5	Spoke	287	104	75	30	-	15
	6B315	6	75	5	Spoke	287	120	90	34	-	19,8
	1B355	1	50	2	Spoke	328	80	50	21	-	6,5
355	3B355	3	55	5	Spoke	328	92	60	7	-	10,7
	4B355	4	60	5	Spoke	328	96	65	21	-	13,7
	5B355	5	65	5	Spoke	328	104	75	30	-	17,5
	2B400	2	55	2	Spoke	328	88	60	12	-	9,3
	3B400	3	60	5	Spoke	373	96	65	2	-	13,2
400	4B400	4	65	5	Spoke	373	104	75	11	-	18,4
	5B400	5	70	5	Spoke	373	112	85	20	-	19,1
	6B400	6	65	5	Spoke	373	120	100	24	-	23,8
	2B450	2	55	2	Spoke	424	88	60	12	-	11,1
	3B450	3	60	5	Spoke	424	96	65	2	-	15,8
450	4B450	4	65	5	Spoke	424	104	75	11	-	19,5
	5B450	5	70	5	Spoke	424	112	85	20	-	22,3
	6B450	6	75	5	Spoke	424	120	100	24	-	28
	2B500	2	60	2	Spoke	474	96	65	17	-	13,4
	3B500	3	65	2	Spoke	474	104	75	8	-	18,1
500	4B500	4	70	5	Spoke	474	112	85	1	-	18,9
	5B500	5	75	5	Spoke	474	120	90	15	-	18
	6B500	6	80	5	Spoke	474	128	105	19	-	33
	2B560	2	60	2	Spoke	535	96	65	17	-	15,9
560	3B560	3	65	2	Spoke	535	104	75	8	-	20,6
	4B560	4	75	5	Spoke	535	112	85	1	-	25
	5B560	5	75	5	Spoke	535	120	90	15	-	29
	2B630	2	60	2	Spoke	598	96	65	17	-	17,1
	3B630	3	65	2	Spoke	597	104	75	8	-	23,3
630	4B630	4	75	2	Spoke	594	120	90	4	-	30,4
	5B630	5	80	7	Spoke	594	128	105	-	-	38
	6B630	6	90	5	Spoke	594	145	115	9	-	39,3
	2B710	2	60	2	Spoke	686	96	65	17	-	20,6
710	3B710	3	70	2	Spoke	686	112	85	18	-	30
	4B710	4	75	2	Spoke	686	120	90	4	-	37,3
	5B710	5	80	7	Spoke	686	128	105	-	-	43,3
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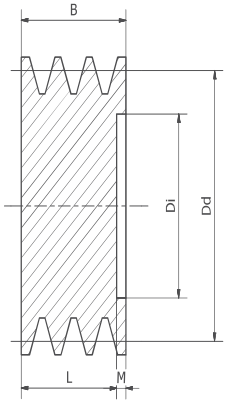

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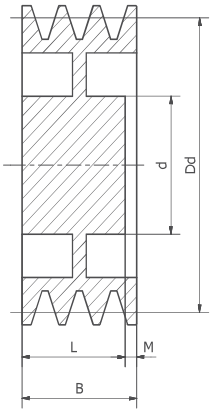

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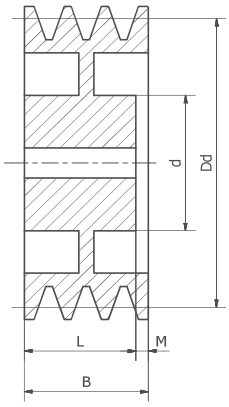

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