



V-BELT PULLEYS

V-BELT PULLEYS **FOR TAPER BUSHES**

SPZ	page 5
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SPB	13
SPC	18

V-BELT PULLEYS **PILOT BORE**

SPA	23
SPB	25
SPC	28

V-BELT PULLEYS **FOR LOCKING DEVICES**

SPA	30
SPB	31
SPC	33

ADJUSTABLE V-BELT PULLEY PRB TYPE

V-BELT PULLEYS PPV-J MICRO V	39
V-BELT PULLEYS PPV-L MICRO V	40



CAST- IRON V-BELT PULLEYS





CAST- IRON V-BELT PULLEYS

All V-belt pulleys are compliant with current legislation and are made of cast iron **GG 20** with protective phosphate.

Running in normal standard, the pulleys are statically balanced and this is sufficient for peripheral speeds up to **25 m/s**.

For higher speeds is essential dynamic balancing can be provided on request.

The Chiaravalli Group SpA is able to perform, upon request, balancing pulleys with diameters up to 630, with balancing CNC, accompanying certificate of balancing performed.

Over 35 m / sec, the pulleys in cast iron are not the most suitable and it requires the use of high-strength material.

D = diameter in meters

N = number of revolutions per minute

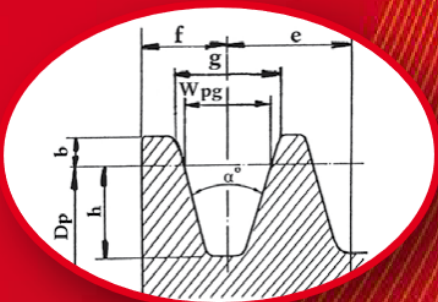
$$V_p = \frac{\pi \cdot D \cdot n}{60} = \frac{D \cdot n}{19,1} \text{ m/sec.}$$

Dimensions shown on the dimensional tables are not binding even if they are respected as far as possible.

We reserve the right to make variations and modifications without prior notice.

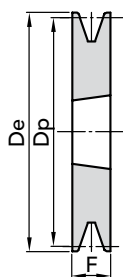
FEATURES OF THE GORGE

PROFILE	Dp mm	α°	W pg	g	h	b mm	f	e
SPZ	< 80	34°	8,5	9,7	9	2	8	12
	> 80	38°						
SPA	< 118	34°	11	12,7	11	2,8	10	15
	> 118	38°						
SPB	< 190	34°	14	16,3	14	3,5	12,5	19
	> 190	38°						
SPC	< 315	34°	19	22,0	19	4,8	17	25,5
	> 315	38°						

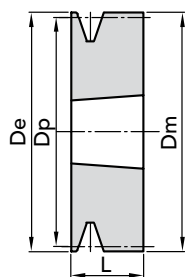


BAND WIDTH

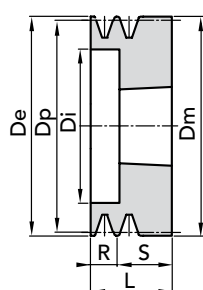
N° GROOVES	SPZ	SPA	SPB	SPC
1	16	20	25	34
2	28	35	44	59,5
3	40	50	63	85
4	52	65	82	111
5	64	80	101	136
6		95	120	162
8			158	213
10			196	264



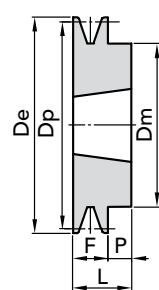
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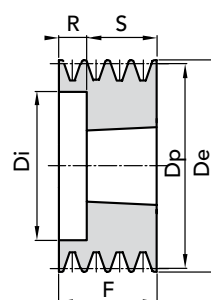
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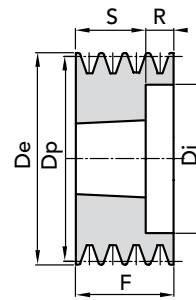
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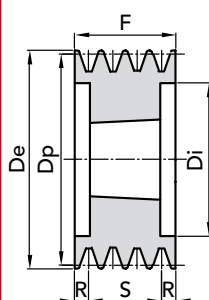
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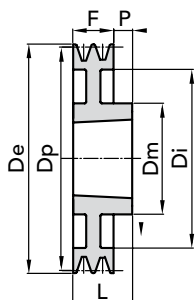
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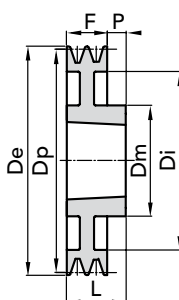
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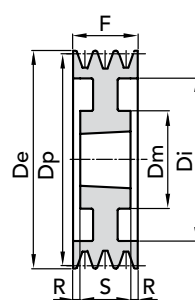
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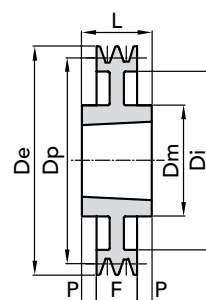
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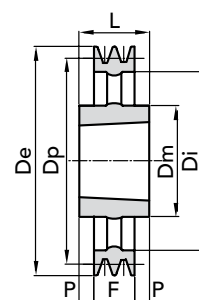
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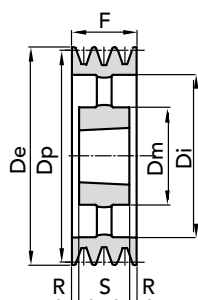
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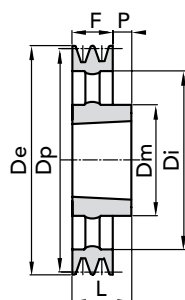
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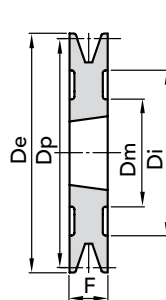
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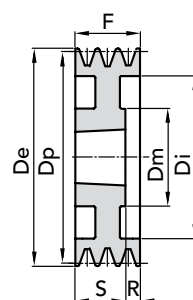
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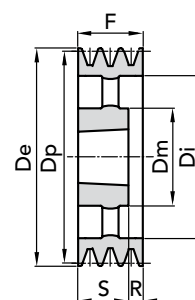
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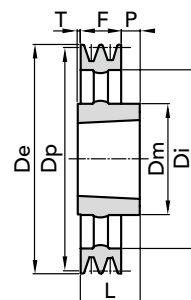
EXEC. 14



EXEC. 15



EXEC. 16



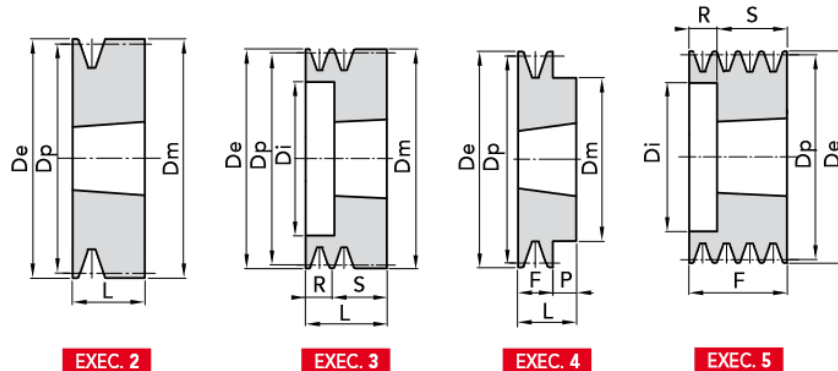
EXEC. 17



TAPER BUSHES

SPZ TYPE

We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
60	91100601	1	2	1108	64,6		64,6		22				0,50
	91100602	2	3	1108	64,6	36	64,6		49		27	22	0,60
63	91100631	1	4	1108	67,6		62	16	22	6			0,40
	91100632	2	5	1108	67,6	40		28			6	22	0,50
	91100633	3	5	1108	67,6	40		40			18	22	0,50
67	91100671	1	4	1108	71,6		62	16	22	6			0,50
	91100672	2	5	1108	71,6	42		28			6	22	0,50
	91100673	3	5	1108	71,6	42		40			18	22	0,70
71	91100711	1	4	1108	75,6		62	16	22	6			0,50
	91100712	2	5	1108	75,6	42		28			6	22	0,50
	91100713	3	5	1108	75,6	42		40			18	22	0,70
75	91100751	1	4	1108	79,6		62	16	22	6			0,60
	91100752	2	5	1210	79,6	51		28			3	25	0,60
	91100753	3	5	1210	79,6	48		40			15	25	0,80
80	91100801	1	4	1210	84,6		75	16	25	9			0,60
	91100802	2	5	1210	84,6	51		28			3	25	0,70
	91100803	3	5	1210	84,6	51		40			15	25	0,80
	91100804	4	5	1210	84,6	51		52			27	25	0,90
85	91100851	1	4	1210	89,6		75	16	25	9			0,80
	91100852	2	5	1610	89,6	60		28			3	25	0,70
	91100853	3	5	1610	89,6	60		40			15	25	0,80
	91100854	4	5	1610	89,6	60		42			27	25	1,00
	91100855	5	5	1610	89,6	60		64			39	25	1,30
90	91100901	1	4	1210	94,6		75	16	25	9			0,80
	91100902	2	5	1610	94,6	61		28			3	25	0,80
	91100903	3	5	1610	94,6	61		40			15	25	0,90
	91100904	4	5	1610	94,6	61		42			27	25	1,10
	91100905	5	5	1610	94,6	61		64			39	25	1,40
95	91100951	1	4	1210	99,6		75	16	25	9			0,90
	91100952	2	5	1610	99,6	66		28			3	25	0,80
	91100953	3	5	1610	99,6	66		40			15	25	1,10
	91100954	4	5	1610	99,6	66		52			27	25	1,30
	91100955	5	5	1610	99,6	66		64			39	25	1,50
100	91101001	1	4	1210	104,6		75	16	25	9			0,90
	91101002	2	5	1610	104,6	71		28			3	25	1,20
	91101003	3	5	1610	104,6	71		40			15	25	1,20
	91101004	4	5	1610	104,6	72		52			27	25	1,40
	91101005	5	5	2012	104,6	72		64			32	32	1,60
106	91101061	1	4	1610	110,6		80	16	25	9			1,00
	91101062	2	5	1610	110,6	76		28			3	25	1,20
	91101063	3	5	1610	110,6	78		40			15	25	1,40
	91101064	4	5	1610	110,6	80		52			27	25	1,60
	91101065	5	5	2012	110,6	78		64			32	32	1,80

MATERIAL CAST-IRON

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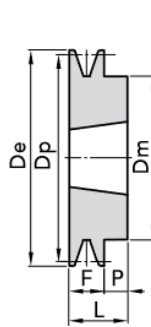
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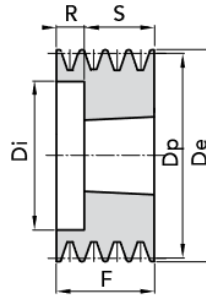
TAPER BUSHES

SPZ TYPE

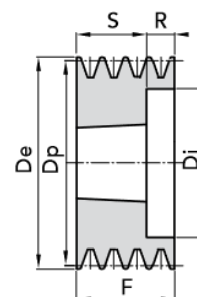
We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



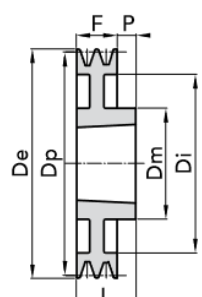
EXEC. 4



EXEC. 5



EXEC. 6



EXEC. 8

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
112	91101121	1	4	1610	116,6		80	16	25	9			1,10
	91101122	2	5	1610	116,6	84		28			3	25	1,30
	91101123	3	5	2012	116,6	84		40			8	32	1,50
	91101124	4	5	2012	116,6	86		52			20	32	1,60
	91101125	5	5	2012	116,6	84		64			32	32	1,90
118	91101181	1	4	1610	122,6		80	16	25	9			1,30
	91101182	2	5	1610	122,6	90		28			3	25	1,40
	91101183	3	5	2012	122,6	92		40			8	32	1,60
	91101184	4	5	2012	122,6	92		52			20	32	1,90
	91101185	5	5	2012	122,6	90		64			32	32	2,40
125	91101251	1	4	1610	129,6		80	16	25	9			1,40
	91101252	2	5	1610	129,6	97		28			3	25	1,70
	91101253	3	6	2012	129,6	97		40			8	32	2,00
	91101254	4	6	2012	129,6	99		52			20	32	2,20
	91101255	5	5	2012	129,6	97		64			32	32	2,80
132	91101321	1	4	1610	136,6		80	16	25	9			1,50
	91101322	2	5	1610	136,6	104		28			3	25	2,00
	91101323	3	6	2012	136,6	104		40			8	32	2,40
	91101324	4	6	2012	136,6	104		52			20	32	2,60
	91101325	5	5	2517	136,6	104		64			19	45	2,80
140	91101401	1	4	1610	144,6		80	16	25	9			1,50
	91101402	2	5	1610	144,6	112		28			3	25	2,20
	91101403	3	6	2012	144,6	112		40			8	32	2,80
	91101404	4	6	2012	144,6	112		52			20	32	3,00
	91101405	5	6	2517	144,6	112		64			19	45	3,20
150	91101501	1	4	1610	154,6		80	16	25	9			1,60
	91101502	2	4	2012	154,6		100	28	32	4			2,30
	91101503	3	6	2012	154,6	122		40			8	32	3,40
	91101504	4	6	2517	154,6	122		52			7	45	3,60
	91101505	5	6	2517	154,6	122		64			19	45	3,90
160	91101601	1	4	1610	164,6		80	16	25	9			1,70
	91101602	2	4	2012	164,6		100	28	32	4			3,10
	91101603	3	6	2012	164,6	132		40			8	32	3,60
	91101604	4	6	2517	164,6	132		52			7	45	4,50
	91101605	5	6	2517	164,6	132		64			19	45	4,70
180	91101801	1	4	1610	184,6		80	16	25	9			2,00
	91101802	2	8	2012	184,6	152	100	28	32	4			2,90
	91101803	3	6	2012	184,6	152		40			8	32	3,70
	91101804	4	6	2517	184,6	152		52			7	45	6,30
	91101805	5	6	2517	184,6	152		64			19	45	6,80

MATERIAL CAST-IRON

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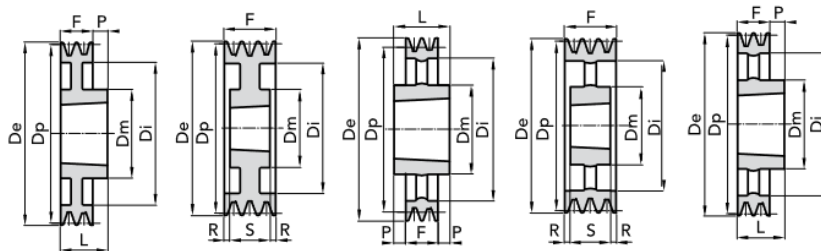
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TAPER BUSHES

SECTION SPZ

We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



ESEC. 8

ESEC. 9

ESEC. 11

ESEC. 12

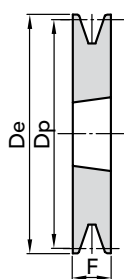
ESEC. 13

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
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	91101903	3	9	2012	194,6	160	105	40			4	32	3,40
	91101904	4	9	2517	194,6	160	120	52			3,5	45	5,30
200	91102001	1	8	2012	204,6	172	100	16	32	16			3,40
	91102002	2	8	2012	204,6	172	100	28	32	4			3,50
	91102003	3	9	2012	204,6	172	100	40			4	32	4,30
	91102004	4	9	2517	204,6	172	120	52			3,5	45	5,40
	91102005	5	9	2517	204,6	172	120	64			9,5	45	8,80
224	91102241	1	8	2012	228,6	196	100	16	32	16			3,60
	91102242	2	8	2012	228,6	196	100	28	32	4			4,50
	91102243	3	9	2012	228,6	196	100	40			4	32	5,40
	91102244	4	9	2517	228,6	196	120	52			3,5	45	7,00
	91102245	5	9	2517	228,6	196	120	64			9,5	45	8,80
250	91102501	1	11	2012	254,6	222	100	16	32	8			4,60
	91102502	2	11	2012	254,6	222	100	28	32	2			5,40
	91102503	3	12	2012	254,6	222	100	40			4	32	6,40
	91102504	4	12	2517	254,6	222	120	52			3,5	45	8,00
	91102505	5	12	2517	254,6	222	120	64			9,5	45	9,00
280	91102801	1	11	2012	284,6	252	100	16	32	8			5,50
	91102802	2	11	2012	284,6	252	100	28	32	2			6,20
	91102803	3	11	2517	284,6	252	120	40	45	2,5			8,30
	91102804	4	12	2517	284,6	252	120	52			3,5	45	9,50
	91102805	5	12	2517	284,6	252	120	64			9,5	45	11,00
315	91103151	1	11	2012	319,6	287	100	16	32	8			6,70
	91103152	2	11	2012	319,6	287	100	28	32	2			7,20
	91103153	3	11	2517	319,6	287	120	40	45	2,5			10,10
	91103154	4	12	2517	319,6	287	120	52			3,5	45	12,10
	91103155	5	12	2517	319,6	287	120	64			9,5	45	13,30
355	91103551	1	11	2012	359,6	326	100	16	32	8			6,80
	91103552	2	11	2012	359,6	326	100	28	32	2			8,60
	91103553	3	11	2517	359,6	326	120	40	45	2,5			11,70
	91103554	4	12	2517	359,6	326	120	52			3,5	45	12,80
	91103555	5	12	2517	359,6	326	120	64			9,5	45	13,00
400	91104001	1	11	2012	404,6	371	112	16	32	8			6,90
	91104002	2	11	2517	404,6	371	125	28	45	8,5			9,90
	91104003	3	11	2517	404,6	371	125	40	45	2,5			13,30
	91104004	4	12	2517	404,6	371	125	52	45		3,5		13,60
	91104005	5	12	3020	404,6	371	158	64	51		6,5		15,60
450	91104501	1	11	2517	454,6	421	125	16	45	14,5			7,20
	91104502	2	11	2517	454,6	421	125	28	45	8,5			11,20
	91104503	3	11	2517	454,6	421	125	40	45	2,5			14,60
	91104504	4	12	3020	454,6	421	158	52	51		0,5		14,50
	91104505	5	12	3020	454,6	421	158	64	51		8,5		19,00
500	91105002	2	11	2517	504,6	471	125	28	45	8,5			10,50
	91105003	3	11	2517	504,6	471	125	40	45	2,5			15,80
	91105004	4	12	3020	504,6	471	158	52	51		0,5		17,34
	91105005	5	12	3030	504,6	471	148	64	76	6			22,60

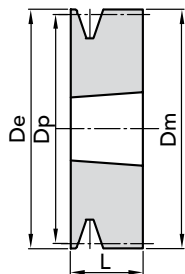
MATERIAL CAST-IRON

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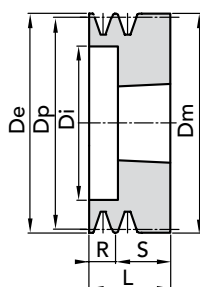
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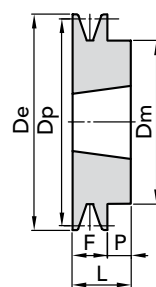
EXEC. 1



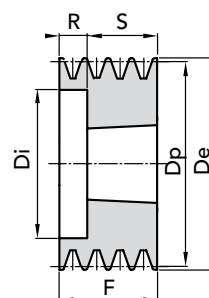
EXEC. 2



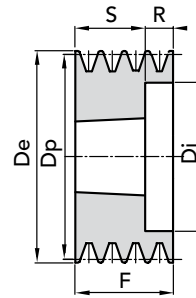
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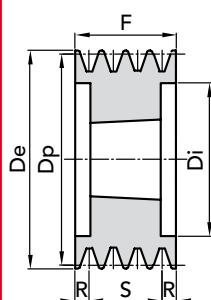
EXEC. 4



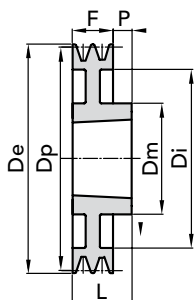
EXEC. 5



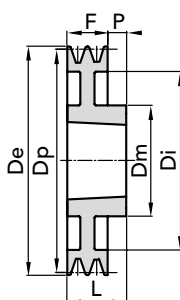
EXEC. 6



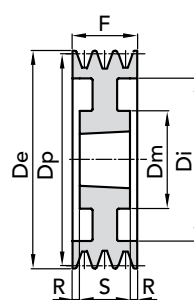
EXEC. 7



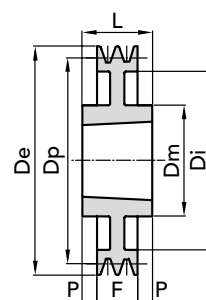
EXEC. 8



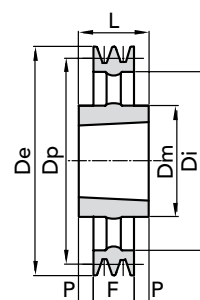
EXEC. 8A



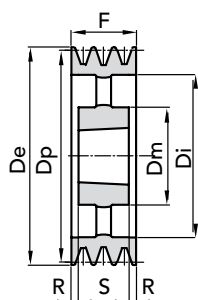
EXEC. 9



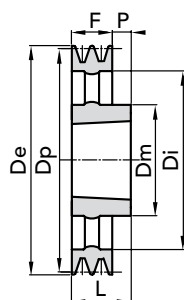
EXEC. 10



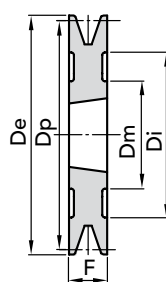
EXEC. 11



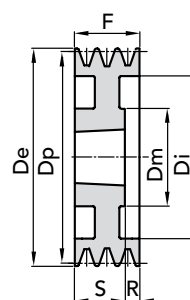
EXEC. 12



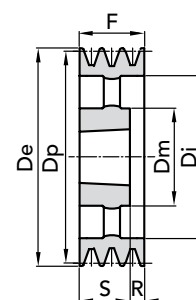
EXEC. 13



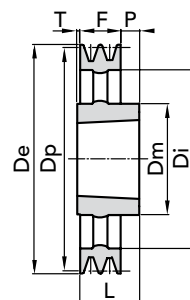
EXEC. 14



EXEC. 15



EXEC. 16



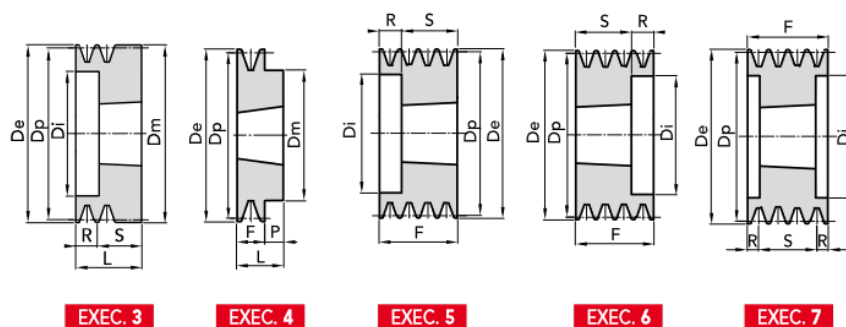
EXEC. 17



TAPER BUSHES

SPA TYPE

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Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
63	91200631	1	3	1008	69,1	37	56	20	40	2	18	22	0,80
71	91200711	1	4	1108	77,1		62	20	22	2			0,50
	91200712	2	5	1108	77,1	40	62	35	22	2	13	22	0,60
	91200713	3	5	1108	77,1	40	62	50			28	22	0,80
75	91200751	1	4	1108	81,1		62	20	22	2			0,60
	91200752	2	5	1108	81,1	44		35			13	22	0,70
	91200753	3	5	1108	81,1	44		50			28	22	0,90
80	91200801	1	4	1210	86,1		75	20	25	5			0,70
	91200802	2	5	1210	86,1	47		35			10	25	0,70
	91200803	3	5	1210	86,1	47		50			25	25	1,10
85	91200851	1	4	1210	91,1		75	20	25	5			0,70
	91200852	2	5	1210	91,1	50		35			10	25	0,80
	91200853	3	5	1210	91,1	50		50			25	25	1,20
90	91200901	1	4	1210	96,1		75	20	25	5			0,80
	91200902	2	5	1610	96,1	60		35			10	25	0,90
	91200903	3	5	1610	96,1	60		50			25	25	1,30
95	91200951	1	4	1210	101,1		75	20	25	5			0,90
	91200952	2	5	1610	101,1	64		35			10	25	1,00
	91200953	3	5	1610	101,1	64		50			25	25	1,50
	91200954	4	7	1615	101,1	64		65			13,5	38	1,40
100	91201001	1	4	1610	106,1		80	20	25	5			1,00
	91201002	2	5	1610	106,1	70		35			10	25	1,10
	91201003	3	6	1610	106,1	70		50			25	25	1,30
	91201004	4	6	1615	106,1	70		65			27	38	1,80
	91201005	5	6	1615	106,1	70		80			42	38	2,10
106	91201061	1	4	1610	112,1		80	20	25	5			1,20
	91201062	2	5	1610	112,1	76		35			10	25	1,20
	91201063	3	6	1610	112,1	76		50			25	25	1,60
	91201064	4	5	2012	112,1	76		65			33	32	2,10
	91201065	5	5	2012	112,1	76		80			48	32	2,30
112	91201121	1	4	1610	118,1		80	20	25	5			1,30
	91201122	2	5	1610	118,1	80		35			10	25	1,40
	91201123	3	5	2012	118,1	80		50			18	32	1,60
	91201124	4	5	2012	118,1	80		65			33	32	2,00
	91201125	5	5	2012	118,1	80		80			48	32	2,50
118	91201181	1	4	1610	124,1		80	20	25	5			1,40
	91201182	2	5	1610	124,1	86		35			10	25	1,70
	91201183	3	6	2012	124,1	86		50			18	32	1,90
	91201184	4	6	2012	124,1	86		65			33	32	2,30
	91201185	5	6	2012	124,1	86		80			48	32	2,80
125	91201251	1	4	1610	131,1		80	20	25	5			1,50
	91201252	2	5	1610	131,1	90		35			10	25	1,90
	91201253	3	6	2012	131,1	92		50			18	32	2,70
	91201254	4	6	2012	131,1	92		65			33	32	3,00
	91201255	5	7	2012	131,1	92		80			24	32	3,00

MATERIAL CAST-IRON

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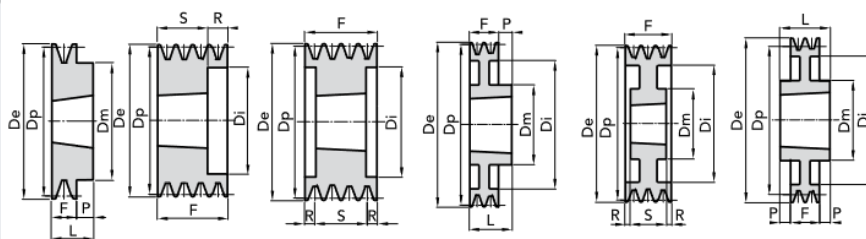
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TAPER BUSHES

SPA TYPE

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EXEC. 4

ESEC. 6

ESEC. 7

ESEC. 8

ESEC. 9

ESEC. 10

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
132	91201321	1	4	1610	138,1		80	20	25	5			1,60
	91201322	2	5	2012	138,1	98		35			3	32	2,10
	91201323	3	6	2012	138,1	98		50			18	32	2,90
	91201324	4	6	2517	138,1	98		65			20	45	3,20
	91201325	5	7	2517	138,1	98		80			17,5	45	3,50
140	91201401	1	4	1610	146,1		80	20	25	5			1,70
	91201402	2	5	2012	146,1	106		35			3	32	2,60
	91201403	3	5	2517	146,1	106		50			5	45	3,20
	91201404	4	6	2517	146,1	106		65			20	45	3,50
	91201405	5	7	2517	146,1	106		80			17,5	45	3,90
150	91201501	1	4	1610	156,1		80	20	25	5			2,00
	91201502	2	5	2012	156,1	116		35			3	32	3,20
	91201503	3	5	2517	156,1	116		50			5	45	3,50
	91201504	4	6	2517	156,1	116		65			20	45	3,90
	91201505	5	7	2517	156,1	116		80			17,5	45	4,40
160	91201601	1	4	1610	166,1		80	20	25	5			2,40
	91201602	2	5	2012	166,1	125		35			3	32	3,60
	91201603	3	5	2517	166,1	126		50			5	45	4,50
	91201604	4	6	2517	166,1	126		65			20	45	5,10
	91201605	5	7	2517	166,1	126		80			17,5	45	5,70
170	91201701	1	4	1610	176,1		80	20	25	5			1,10
	91201702	2	5	2012	176,1	135		35			3	32	4,50
	91201703	3	5	2517	176,1	138		50			5	45	5,00
	91201704	4	6	2517	176,1	138		65			20	45	5,80
	91201705	5	7	3020	176,1	138		80			14,5	51	6,30
180	91201801	1	4	1610	186,1		80	20	25	5			2,50
	91201802	2	9	2012	186,1	148	100	35			1,5	32	5,00
	91201803	3	5	2517	186,1	146		50			5	45	6,20
	91201804	4	6	2517	186,1	146		65			20	45	6,90
	91201805	5	7	3020	186,1	146		80			14,5	51	6,90
190	91201901	1	4	1610	196,1		80	20	25	5			2,80
	91201902	2	9	2012	196,1	158	100	35			1,5	32	4,40
	91201903	3	5	2517	196,1	158		50			5	45	7,00
	91201904	4	6	2517	196,1	158		65			20	45	6,80
	91201905	5	7	3020	196,1	158		80			14,5	51	7,70
200	91202001	1	8	2012	206,1	165	100	20	32	12			2,30
	91202002	2	10	2517	206,1	165	120	35	45	5			4,90
	91202003	3	9	2517	206,1	165	120	50			2,5	45	5,80
	91202004	4	6	3020	206,1	165		65			14	51	8,40
	91202005	5	7	3020	206,1	165		80			14,5	51	9,00
212	91202121	1	8	2012	218,1	177	100	20	32	12			3,50
	91202122	2	10	2517	218,1	177	120	35	45	5			5,80
	91202123	3	9	2517	218,1	177	120	50			2,5	45	6,60
	91202124	4	6	3020	218,1	177		65			14	51	9,90
	91202125	5	7	3020	218,1	177		80			14,5	51	10,70

MATERIAL CAST-IRON

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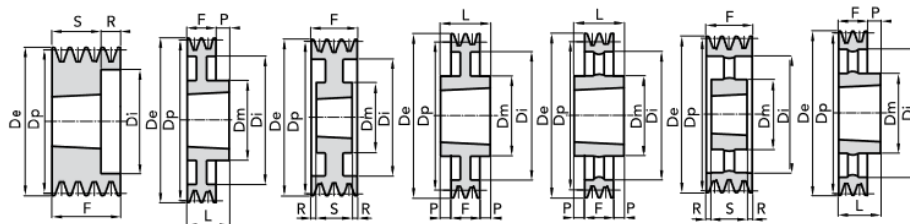
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TAPER BUSHES

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EXEC. 6

EXEC. 8

EXEC. 9

EXEC. 10

EXEC. 11

EXEC. 12

EXEC. 13

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
224	91202241	1	8	2012	230,1	189	100	20	32	12			4,00
	91202242	2	8	2517	230,1	189	120	35	45	10			6,60
	91202243	3	9	2517	230,1	189	120	50			2,5	45	7,50
	91202244	4	6	3020	230,1	189		65			14	51	11,40
	91202245	5	6	3020	230,1	189		80			29	51	12,30
236	91202361	1	8	2012	242,1	202	106	20	32	12			3,60
	91202362	2	8	2517	242,1	202	125	35	45	10			5,40
	91202363	3	9	2517	242,1	202	125	50			2,5	45	6,60
	91202364	4	9	3020	242,1	202	146	65			7	51	9,80
	91202365	5	9	3020	242,1	202	155	80			14,5	51	11,20
250	91202501	1	10	2012	256,1	215	100	20	32	6			4,20
	91202502	2	10	2517	256,1	215	120	35	45	5			6,80
	91202503	3	9	2517	256,1	215	120	50			2,5	45	6,80
	91202504	4	9	3020	256,1	215	150	65			7	51	10,50
	91202505	5	9	3020	256,1	215	150	80			14,5	51	11,70
280	91202801	1	8	2012	286,1	245	100	20	32	12			6,30
	91202802	2	8	2517	286,1	245	120	35	45	10			8,30
	91202803	3	9	2517	286,1	245	120	50			2,5	45	10,00
	91202804	4	9	3020	286,1	245	150	65			7	51	11,50
	91202805	5	10	3535	286,1	245	170	80	89	4,5			17,40
300	91203001	1	8	2012	306,1	264	112	20	32	12			5,20
	91203002	2	8	2517	306,1	264	125	35	45	10			6,80
	91203003	3	10	3020	306,1	264	146	50	51	0,5			9,10
	91203004	4	9	3020	306,1	264	146	65			7	51	12,40
	91203005	5	8	3535	306,1	264	175	80	89	9			16,50
315	91203151	1	13	2012	321,1	280	100	20	32	12			7,20
	91203152	2	13	2517	321,1	280	120	35	45	10			10,20
	91203153	3	10	3020	321,1	280	150	50	51	0,5			12,80
	91203154	4	9	3020	321,1	280	150	65			7	51	13,80
	91203155	5	10	3535	321,1	280	170	80	89	4,5			20,00
335	91203353	3	11	3020	341,1	300	150	50	51	0,5			11,40
	91203354	4	12	3020	341,1	300	150	65			7	51	13,20
	91203355	5	10	3535	341,1	300	170	80	89	4,5			19,00
355	91203551	1	13	2012	361,1	320	100	20	32	12			7,70
	91203552	2	13	2517	361,1	320	120	35	45	10			10,50
	91203553	3	11	3020	361,1	320	150	50	51	0,5			13,40
	91203554	4	12	3020	361,1	320	150	65			7	51	15,80
	91203555	5	11	3535	361,1	320	170	80	89	4,5			22,80
400	91204001	1	13	2012	406,1	365	100	20	32	12			7,90
	91204002	2	13	2517	406,1	365	120	35	45	10			11,30
	91204003	3	11	3020	406,1	365	150	50	51	0,5			15,90
	91204004	4	12	3020	406,1	365	150	65			7	51	17,70
	91204005	5	11	3535	406,1	365	170	80	89	4,5			24,80

MATERIAL CAST-IRON

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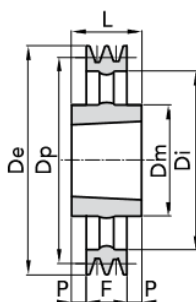
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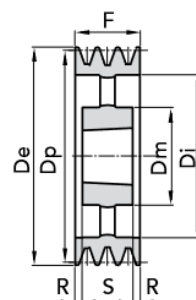
TAPER BUSHES

SPA TYPE

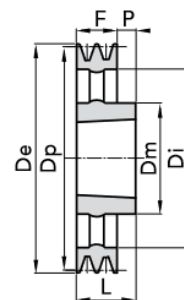
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EXEC. 11



EXEC. 12



EXEC. 13

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
450	91204501	1	13	2012	456,1	415	100	20	32	12			8,30
	91204502	2	13	2517	456,1	415	120	35	45	10			15,00
	91204503	3	11	3020	456,1	415	150	50	51	0,5			19,30
	91204504	4	12	3020	456,1	415	150	65			7	51	23,20
	91204505	5	11	3535	456,1	415	170	80	89	4,5			28,50
500	91205001	1	13	2517	506,1	465	120	20	45	25			9,40
	91205002	2	13	2517	506,1	465	120	35	45	10			18,70
	91205003	3	11	3020	506,1	465	150	50	51	0,5			22,60
	91205004	4	12	3020	506,1	465	150	65			7	51	27,40
	91205005	5	11	3535	506,1	465	170	80	89	4,5			31,70
560	91205603	3	13	3020	566,1	525	150	50	51	0,5			23,50
	91205604	4	11	3535	566,1	525	170	65	89	12			30,50
	91205605	5	11	3535	566,1	525	170	80	89	4,5			35,00
630	91206302	2	13	3020	636,1	595	150	35	51	16			22,00
	91206303	3	11	3020	636,1	595	150	50	51	0,5			27,50
	91206304	4	11	3535	636,1	595	170	65	89	12			34,10
	91206305	5	11	3535	636,1	595	170	80	89	4,5			42,00
	91206306	6	11	4040	636,1	595	200	95	102	3,5			53,50
800	91208003	3	11	3535	806,1	765	170	50	89	19,5			40,80
	91208004	4	11	3535	806,1	765	170	65	89	12			50,80
	91208005	5	11	4040	806,1	765	200	80	102	11			60,00

MATERIAL CAST-IRON

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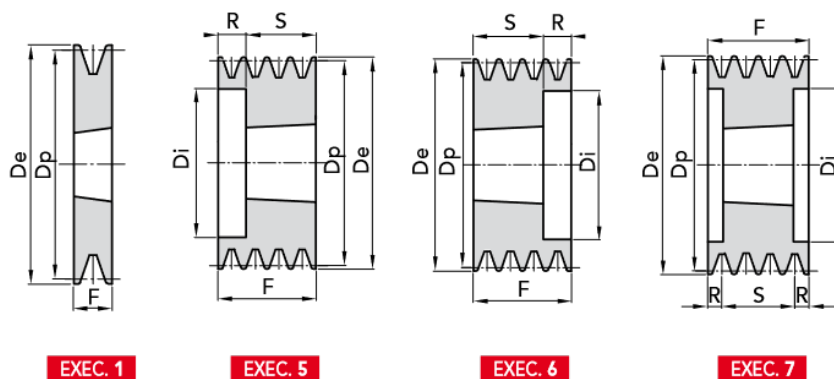
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TAPER BUSHES

SPB TYPE

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Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													Kg.
100	91301001	1	1	1610	107,6			25					0,90
	91301002	2	6	1610	107,6	57		44			19	25	1,40
106	91301061	1	1	1610	113,6			25					1,00
	91301062	2	6	1610	113,6	67		44			19	25	1,60
	91301063	3	6	1610	113,6	67		63			38	25	2,20
112	91301121	1	1	1610	119,6			25					1,20
	91301122	2	6	1610	119,6	72		44			19	25	1,70
	91301123	3	6	1610	119,6	72		63			38	25	2,40
118	91301181	1	1	1610	125,6			25					1,30
	91301182	2	6	1610	125,6	78		44			19	25	1,80
	91301183	3	6	1610	125,6	78		63			38	25	2,60
125	91301251	1	1	1610	132,6			25					1,50
	91301252	2	6	2012	132,6	82		44			12	32	1,90
	91301253	3	6	2012	132,6	82		63			31	32	2,50
	91301254	4	7	2012	132,6	82		82			25	32	3,00
	91301255	5	5/6	2012	132,6	82		101			69	32	3,60
132	91301321	1	1	1610	139,6			25					1,70
	91301322	2	6	2012	139,6	89		44			12	32	2,50
	91301323	3	6	2012	139,6	89		63			31	32	3,20
	91301324	4	7	2012	139,6	89		82			25	32	3,70
	91301325	5	5	2517	139,6	89		101			56	45	3,80
140	91301401	1	1	1610	147,6			25					1,80
	91301402	2	6	2012	147,6	97		44			12	32	2,70
	91301403	3	6	2012	147,6	97		63			31	32	3,60
	91301404	4	7	2517	147,6	97		82			18,5	45	4,30
	91301405	5	7	2517	147,6	97		101			28	45	4,40
	91301406	6	7	2517	147,6	97		120			37,5	45	4,70
	91301408	8	7	2517	147,6	97		158			56,5	45	7,00
150	91301501	1	1	1610	157,6			25					2,10
	91301502	2	6	2012	157,6	107		44			12	32	3,20
	91301503	3	6	2517	157,6	107		63			18	45	4,00
	91301504	4	7	2517	157,6	107		82			18,5	45	4,60
	91301505	5	7	2517	157,6	107		101			28	45	5,40
	91301506	6	7	2517	157,6	107		120			37,5	45	6,80
160	91301601	1	1	1610	167,6			25					2,50
	91301602	2	6	2012	167,6	117		44			12	32	3,80
	91301603	3	6	2517	167,6	117		63			18	45	4,50
	91301604	4	7	2517	167,6	117		82			18,5	45	5,80
	91301605	5	7	2517	167,6	117		101			28	45	6,70
	91301606	6	7	3020	167,6	117		120			34,5	51	7,20
	91301608	8	7	3020	167,6	117		158			53,5	51	8,30

MATERIAL **CAST-IRON**

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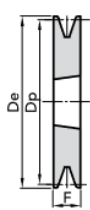
Quantity, availability and prices
on B2B Chiaravalli



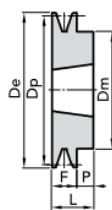
TAPER BUSHES

SPB TYPE

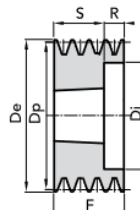
We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



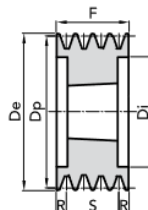
EXEC. 1



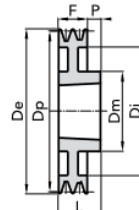
EXEC. 4



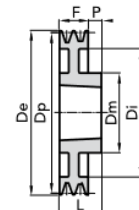
EXEC. 6



EXEC. 7



EXEC. 8



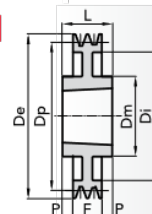
EXEC. 8A

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													
170	91301701	1	1	1610	177,6			25					2,90
	91301702	2	6	2012	177,6	127		44			12	32	4,80
	91301703	3	6	2517	177,6	127		63			18	45	5,30
	91301704	4	7	2517	177,6	127		82			18,5	45	6,70
	91301705	5	7	3020	177,6	127		101			25	51	7,10
	91301706	6	7	3020	177,6	127		120			34,5	51	7,60
180	91301801	1	14	1610	187,6	137	80	25					3,80
	91301802	2	4	2517	187,6		120	44	45	1			5,50
	91301803	3	6	2517	187,6	137		63			18	45	6,70
	91301804	4	7	2517	187,6	137		82			18,5	45	7,70
	91301805	5	7	3020	187,6	137		101			25	51	8,20
	91301806	6	7	3020	187,6	137		120			34,5	51	10,20
	91301808	8	7	3030	187,6	137		158			41	76	10,80
190	91301901	1	10	2012	197,6	147	100	25	32	3,5			4,40
	91301902	2	4	2517	197,6		120	44	45	1			6,50
	91301903	3	6	2517	197,6	147		63			18	45	7,60
	91301904	4	7	2517	197,6	147		82			18,5	45	8,60
	91301905	5	7	3020	197,6	147		101			25	51	9,10
	91301906	6	7	3020	197,6	147		120			34,5	51	10,20
	91301908	8	7	3030	197,6	147		158			41	76	12,30
200	91302001	1	10	2012	207,6	157	100	25	32	3,5			4,20
	91302002	2	4	2517	207,6	157	120	44	45	1			7,50
	91302003	3	6	2517	207,6	157		63			18	45	8,90
	91302004	4	6/7	3020	207,6	157		82			18,5	45	9,10
	91302005	5	7	3020	207,6	157		101			25	51	10,30
	91302006	6	7	3020	207,6	157		120			34,5	51	11,70
	91302008	8	7	3535	207,6	161		158			34,5	89	13,70
212	91302121	1	10	2012	219,6	169	100	25	32	3,5			5,20
	91302122	2	8	2517	219,6	169	120	44	45	1			7,00
	91302123	3	15	2517	219,6	169	120	63			18	45	8,20
	91302124	4	7	3020	219,6	169		82			15,5	51	10,90
	91302125	5	7	3020	219,6	169		101			25	51	12,20
	91302126	6	7	3535	219,6	169		120			15,5	89	13,20
	91302128	8	7	3535	219,6	173		158			34,5	89	15,80
224	91302241	1	10	2012	231,6	181	100	25	32	3,5			5,20
	91302242	2	8a	2517	231,6	181	120	44	45	1			7,70
	91302243	3	15	2517	231,6	181	120	63			18	45	9,10
	91302244	4	6/7	3020	231,6	181		82			15,5	51	12,40
	91302245	5	7	3020	231,6	181		101			25	51	13,70
	91302246	6	7	3535	231,6	181		120			15,5	89	15,20
	91302248	8	7	3535	231,6	181		158			34,5	89	17,20
	91302210	10	7	3535	231,6	181		196			53,5	89	20,50

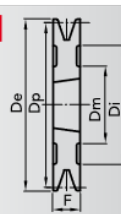
MATERIAL CAST-IRON

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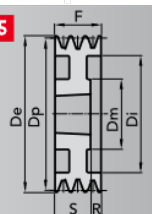
EXEC. 10



EXEC. 14



EXEC. 15



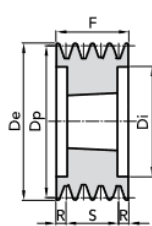
Quantity, availability and prices on B2B Chiaravalli



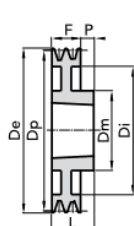
TAPER BUSHES

SPB TYPE

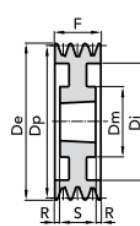
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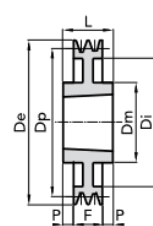
EXEC. 7



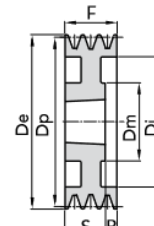
EXEC. 8A



EXEC. 9



EXEC. 10



EXEC. 15

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT Kg.
GROOVES													
236	91302361	1	10	2012	243,6	193	100	25	32	3,5			5,40
	91302362	2	8a	2517	243,6	193	120	44	45	1			8,30
	91302363	3	15	2517	243,6	193	120	63			18	45	9,80
	91302364	4	7	3020	243,6	193		82			15,5	51	14,10
	91302365	5	7	3535	243,6	193		101			6	89	16,20
	91302366	6	7	3535	243,6	193		120			15,5	89	17,60
	91302368	8	7	3535	243,6	193		158			34,5	89	20,00
250	91302501	1	10	2012	257,6	207	100	25	32	3,5			6,200
	91302502	2	8a	2517	257,6	207	120	44	45	1			8,600
	91302503	3	15	3020	257,6	207	150	63			12	51	11,20
	91302504	4	9	3020	257,6	207	150	82			15,5	51	12,70
	91302505	5	7	3535	257,6	207		101			6	89	18,60
	91302506	6	7	3535	257,6	207		120			15,5	89	20,20
	91302508	8	7	3535	257,6	207		158			34,5	89	23,20
280	91302801	1	10	2012	287,6	237	100	25	32	3,5			6,50
	91302802	2	8a	2517	287,6	237	120	44	45	1			10,10
	91302803	3	9	3020	287,6	237	150	63			6	51	12,00
	91302804	4	9	3020	287,6	237	150	82			15,5	51	14,10
	91302805	5	9	3535	287,6	237	170	101			6	89	21,40
	91302806	6	9	3535	287,6	237	170	120			15,5	89	23,50
	91302808	8	9	3535	287,6	237	175	158			34,5	89	26,60
300	91303001	1	10	2012	307,6	257	100	25	32	3,5			7,00
	91303002	2	8a	2517	307,6	257	120	44	45	1			11,00
	91303003	3	9	3020	307,6	257	150	63			6	51	13,50
	91303004	4	9	3020	307,6	257	150	82			15,5	51	20,50
	91303005	5	9	3535	307,6	257	170	101			6	89	22,50
	91303006	6	9	3535	307,6	257	170	120			15,5	89	24,00
	91303008	8	9	3535	307,6	257	175	158			34,5	89	27,30
315	91303151	1	10	2012	322,6	272	100	25	32	3,5			7,50
	91303152	2	8a	2517	322,6	272	120	44	45	1			12,20
	91303153	3	9	3020	322,6	272	150	63			6	51	14,20
	91303154	4	10	3535	322,6	272	170	82	89	3,5			20,60
	91303155	5	9	3535	322,6	272	170	101			6	89	22,30
	91303156	6	9	3535	322,6	272	170	120			15,5	89	24,20
	91303158	8	9	3535	322,6	272	175	158			34,5	89	28,00
335	91303352	2	8a	2517	342,6	292	120	44	45	1			14,00
	91303353	3	9	3020	342,6	292	150	63			6	51	16,00
	91303354	4	10	3535	342,6	292	170	82	89	3,5			22,00
	91303355	5	9	3535	342,6	292	170	101			6	89	24,00
	91303356	6	9	3535	342,6	292	170	120			15,5	89	26,30
	91303358	8	9	3535	342,6	292	175	158			34,5	89	30,50

MATERIAL CAST-IRON

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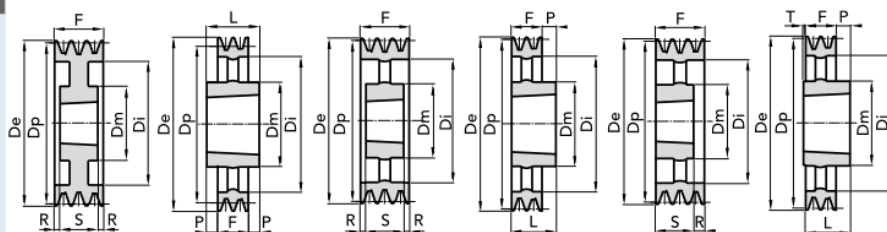
Quantity, availability and prices
on B2B Chiaravalli



TAPER BUSHES

SPB TYPE

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EXEC. 9

EXEC. 11

EXEC. 12

EXEC. 13

EXEC. 16

EXEC. 17

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT
GROOVES														Kg.
355	91303552	2	11	3020	362,6	312	150	44	51	3,5				15,90
	91303553	3	12	3020	362,6	312	150	63			6	51		17,70
	91303554	4	10	3535	362,6	312	170	82	89	3,5				23,20
	91303555	5	12	3535	362,6	312	170	101			6	89		25,50
	91303556	6	9	3535	362,6	312	170	120			15,5	89		28,40
	91303558	8	9	3535	362,6	312	170	158			35,5	89		31,50
	91303510	10	9	4030	362,6	312	210	196			60	76		33,50
375	91303754	4	10	3535	382,6	332	170	82	89	3,5				27,00
400	91304002	2	11	3020	407,6	357	150	44	51	3,5				18,30
	91304003	3	11	3535	407,6	357	170	63	89	13				25,00
	91304004	4	11	3535	407,6	357	170	82	89	3,5				26,50
	91304005	5	12	3535	407,6	357	170	101			6	89		30,20
	91304006	6	12	3535	407,6	357	170	120			15,5	89		31,80
	91304008	8	9	4040	407,6	357	200	158			28	102		43,00
450	91304502	2	11	3020	457,6	407	150	44	51	3,5				19,00
	91304503	3	13	3535	457,6	407	170	63	89	26				26,30
	91304504	4	13	3535	457,6	407	170	82	89	7				27,20
	91304505	5	16	3535	457,6	407	170	101			12	89		32,80
	91304506	6	16	4040	457,6	407	200	120			18	102		35,30
	91304508	8	12	4040	457,6	407	200	158			28	102		46,00
500	91305002	2	11	3020	507,6	457	150	44	51	3,5				21,00
	91305003	3	13	3535	507,6	457	170	63	89	26				29,90
	91305004	4	13	3535	507,6	457	170	82	89	7				34,70
	91305005	5	16	3535	507,6	457	170	101			12	89		36,70
	91305006	6	16	4040	507,6	457	200	120			18	102		40,70
	91305008	8	12	4040	507,6	457	200	158			28	102		52,00
560	91305602	2	17	3030	567,6	517	150	44	76	28			4	24,00
	91305603	3	13	3535	567,6	517	170	63	89	26				37,20
	91305604	4	13	3535	567,6	517	170	82	89	7				39,00
	91305605	5	13	4040	567,6	517	200	101	102	1				45,60
	91305606	6	16	4040	567,6	517	200	120			18	102		49,20
	91305608	8	12	4545	567,6	517	225	158			22	114		54,50
630	91306303	3	13	3535	637,6	587	170	63	89	26				41,00
	91306304	4	13	3535	637,6	587	170	82	89	7				44,50
	91306305	5	13	4040	637,6	587	200	101	102	1				50,00
	91306306	6	16	4040	637,6	587	200	120			18	102		53,50
	91306308	8	12	4545	637,6	587	225	158			22	114		67,00
710	91307103	3	17	3535	717,6	664	170	63	89	22			4	48,00
	91307104	4	11	3535	717,6	664	170	82	89	3,5				50,50
	91307105	5	11	4040	717,6	664	200	101	102	0,5				63,50
	91307106	6	12	4545	717,6	664	225	120			3	114		69,00
	91307108	8	12	4545	717,6	664	225	158			22	114		75,50
	91307010	10	12	4545	717,6	664	225	196			41	114		82,00

MATERIAL CAST-IRON

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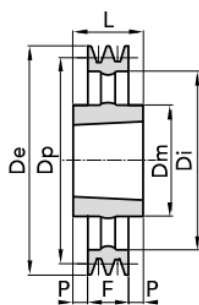
Quantity, availability and prices
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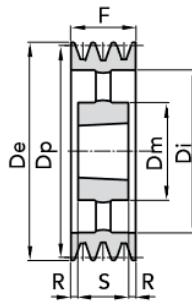
TAPER BUSHES

SPB TYPE

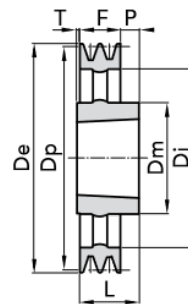
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EXEC. 11



EXEC. 12



EXEC. 17

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT
GROOVES														Kg.
800	91308003	3	17	3535	807,6	754	170	63	89	22			4	55,00
	91308004	4	17	4040	807,6	754	200	82	102	16			4	60,50
	91308005	5	11	4040	807,6	754	200	101	102	5				67,00
	91308006	6	12	4545	807,6	754	225	120			3	114		84,50
	91308008	8	12	4545	807,6	754	225	158			22	114		94,50
	91308010	10	12	4545	807,6	754	225	196			41	114		96,00
900	91309003	3	17	3535	907,6	854	170	63	89	22			4	64,10
	91309004	4	17	4040	907,6	854	200	82	102	16			4	70,00
1000	91310003	3	17	4040	1007,6	954	200	63	102	33			6	72,00
	91310004	4	17	4040	1007,6	954	200	82	102	16			4	77,50
	91310005	5	11	4545	1007,6	954	225	101	114	6,5				110,0
	91310006	6	12	4545	1007,6	954	225	120			2	114		114,0
	91310008	8	12	5050	1007,6	954	245	158			15,5	127		121,5
	91310010	10	12	5050	1007,6	954	245	196			34,5	127		141,0
1250	91312503	3	17	4040	1257,6	1204	200	63	102	33			6	140,0
	91312504	4	17	4545	1257,6	1204	225	82	114	26			6	162,0
	91312505	5	11	4545	1257,6	1204	225	101	114	6,5				180,0
	91312506	6	11	5050	1257,6	1204	245	120	127	3,5				210,0
	91312508	8	12	5050	1257,6	1204	245	158			15,5	127		242,0
	91312510	10	12	5050	1257,6	1204	245	196			34,5	127		265,0

MATERIAL **CAST-IRON**

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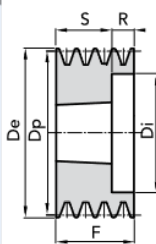
Quantity, availability and prices
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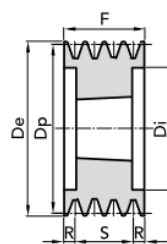
TAPER BUSHES

SPC TYPE

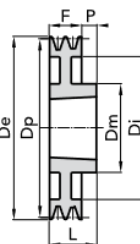
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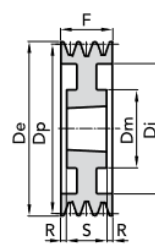
EXEC. 6



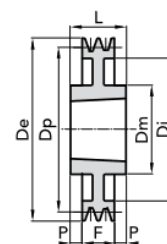
EXEC. 7



EXEC. 8



EXEC. 9



EXEC. 10

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	WEIGHT
GROOVES													Kg.
180	91401803	3	7	2517	190,2	128		85			20	45	9,20
	91401804	4	7	2517	190,2	124		110,5			32,75	45	11,50
	91401805	5	7	3020	190,2	124		136			42,5	51	13,70
	91401806	6	7	3020	190,2	124		161,5			55,25	51	16,50
200	91402002	2	6	2517	210,2	144		59,5			14,5	45	10,00
	91402003	3	7	2517	210,2	144		85			17	51	10,20
	91402004	4	7	3020	210,2	144		110,5			10,75	89	11,30
	91402005	5	7	3535	210,2	144		136			23,5	89	12,20
	91402006	6	7	3535	210,2	144		161,5			36,25	89	14,10
	91402008	8	7	3535	210,2	144		212,5			61,75	89	20,00
224	91402242	2	6	3020	234,2	173		59,5			8,5	51	11,00
	91402243	3	7	3020	234,2	173		85			17	51	12,70
	91402244	4	7	3535	234,2	173		110,5			10,75	89	14,50
	91402245	5	7	3535	234,2	173		136			23,5	89	16,60
	91402246	6	7	3535	234,2	173		161,5			36,25	89	18,00
	91402248	8	7	3535	234,2	170		212,5			61,75	89	22,90
	91402210	10	7	4040	234,2	170		263,5			80,75	102	28,00
	91402368	6	7	3535	246,2	180		161,5			36,25	89	21,30
250	91402502	2	6	3020	260,2	198		59,5			8,5	51	15,00
	91402503	3	7	3020	260,2	198		85			17	51	16,50
	91402504	4	7	3535	260,2	198		110,5			10,75	89	19,30
	91402505	5	7	3535	260,2	198		136			23,5	89	21,50
	91402506	6	7	3535	260,2	198		161,5			36,25	89	20,90
	91402508	8	7	3535	260,2	198		212,5			61,75	89	29,00
	91402510	10	7	4040	260,2	198		263,5			80,75	102	35,00
	91402802	2	8	3535	290,2	228	170	59,5	89	29,5			18,00
280	91402803	3	8	3535	290,2	228	170	85	89	4			22,70
	91402804	4	7	3535	290,2	228		110,5			10,75	89	25,40
	91402805	5	7	3535	290,2	228		136			23,5	89	28,40
	91402806	6	7	3535	290,2	228		161,5			36,25	89	31,50
	91402808	8	7	3535	290,2	228		212,5			61,75	89	36,10
	91402810	10	7	4040	290,2	222		263,5			80,75	102	42,10
	91403002	2	8	3535	310,2	247	170	59,5	89	29,5			21,00
	91403003	3	10	3535	310,2	247	170	85	89	2			22,60
300	91403004	4	9	3535	310,2	247	170	110,5			10,75	89	25,00
	91403005	5	9	3535	310,2	247	170	136			23,5	89	28,50
	91403006	6	9	3535	310,2	247	170	161,5			36,25	89	31,50
	91403008	8	7	4040	310,2	247	170	212,5			55,25	102	37,10
	91403010	10	7	4545	310,2	242	170	263,5			74,75	114	44,10
	91403152	2	8	3535	325,2	264	170	59,5	89	29,5			21,00
	91403153	3	10	3535	325,2	264	170	85	89	2			22,00
	91403154	4	9	3535	325,2	264	170	110,5			10,75	89	25,30
315	91403155	5	9	3535	325,2	264	170	136			23,5	89	28,10
	91403156	6	9	3535	325,2	264	170	161,5			36,25	89	33,20
	91403157	8	7	4040	325,2	258	170	212,5			55,25	102	40,00
	91403158	10	7	4545	325,2	258	170	263,5			74,75	114	47,00

MATERIAL CAST-IRON

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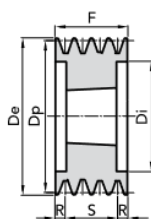
Quantity, availability and prices
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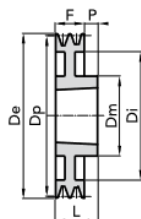
TAPER BUSHES

SPC TYPE

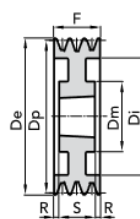
We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



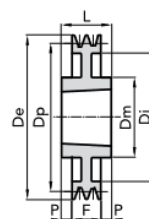
EXEC. 7



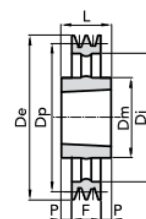
EXEC. 8



EXEC. 9



EXEC. 10



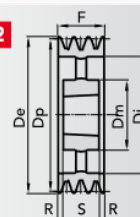
EXEC. 11

Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT
GROOVES														Kg.
335	91403352	2	8	3535	345,2	279	170	59,5	89	29,5				22,00
	91403353	3	10	3535	345,2	279	170	85	89	2				24,10
	91403354	4	9	3535	345,2	279	170	110,5			10,75	89		27,50
	91403355	5	9	3535	345,2	279	170	136			23,5	89		31,00
	91403356	6	9	3535	345,2	279	170	161,5			36,25	89		37,50
	91403358	8	9	4040	345,2	279	200	212,5			55,25	102		44,00
	91403310	10	7	4545	345,2	279	200	263,5			74,75	114		51,00
355	91403552	2	8	3535	365,2	304	170	59,5	89	29,5				23,00
	91403553	3	10	3535	365,2	304	170	85	89	2				26,20
	91403554	4	9	3535	365,2	304	170	110,5			10,75	89		29,30
	91403555	5	9	3535	365,2	304	170	136			23,5	89		33,50
	91403556	6	9	3535	365,2	304	170	161,5			36,25	89		40,50
	91403558	8	7	4040	365,2	304	200	212,5			55,25	102		49,00
	91403510	10	7	4545	365,2	299	200	263,5			74,75	114		57,00
400	91404002	2	17	3535	410,2	344	170	59,5	89	27,5			2	17,00
	91404003	3	11	3535	410,2	344	170	85	89	2				29,30
	91404004	4	12	3535	410,2	344	170	110,5			10,75	89		33,80
	91404005	5	12	3535	410,2	344	170	136			23,5	89		38,50
	91404006	6	9	4040	410,2	344	200	161,5			29,75	102		48,00
	91404008	8	9	4545	410,2	344	225	212,5			49,75	114		58,00
	91404010	10	7	5050	410,2	342	200	263,5			68,25	127		66,00
450	91404502	2	17	3535	460,2	394	170	59,5	89	27,5			2	27,00
	91404503	3	11	3535	460,2	394	170	85	89	2				34,70
	91404504	4	12	3535	460,2	394	170	110,5			10,75	89		41,30
	91404505	5	12	4040	460,2	394	200	136			17	102		45,30
	91404506	6	9	4545	460,2	394	225	161,5			23,75	114		57,50
	91404508	8	9	5050	460,2	394	245	212,5			42,75	127		70,00
	91404510	10	9	5050	460,2	394	245	263,5			68,25	127		78,00
500	91405003	3	11	3535	510,2	444	170	85	89	2				40,00
	91405004	4	12	3535	510,2	444	170	110,5			10,75	89		46,00
	91405005	5	12	4040	510,2	444	200	136			17	102		51,00
	91405006	6	12	4545	510,2	444	225	161,5			23,75	114		67,00
	91405008	8	9	5050	510,2	444	245	212,5			42,75	127		82,50
	91405010	10	9	5050	510,2	444	245	263,5			68,25	127		95,50
560	91405603	3	11	3535	570,2	504	170	85	89	2				45,90
	91405604	4	12	4040	570,2	504	200	110,5			4,25	102		58,00
	91405605	5	12	4545	570,2	504	225	136			11	114		56,70
	91405606	6	12	5050	570,2	504	245	161,5			17,25	127		77,50
	91405608	8	12	5050	570,2	504	245	212,5			42,75	127		94,50
	91405610	10	9	5050	570,2	504	245	263,5			68,25	127		94,70

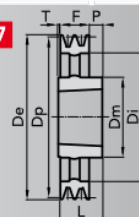
MATERIAL CAST-IRON

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EXEC. 12



EXEC. 17



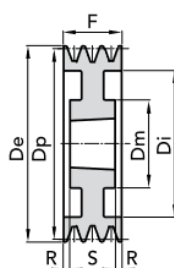
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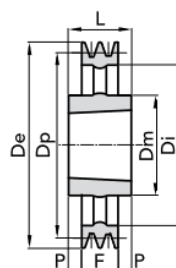
TAPER BUSHES

SPC TYPE

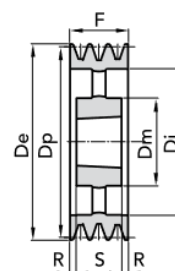
We are engaged to respect shapes and dimensions shown on this sheet but, we reserve the right to make changes and modifications without notice.



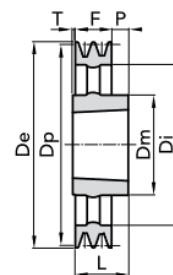
EXEC. 9



EXEC. 11



EXEC. 12



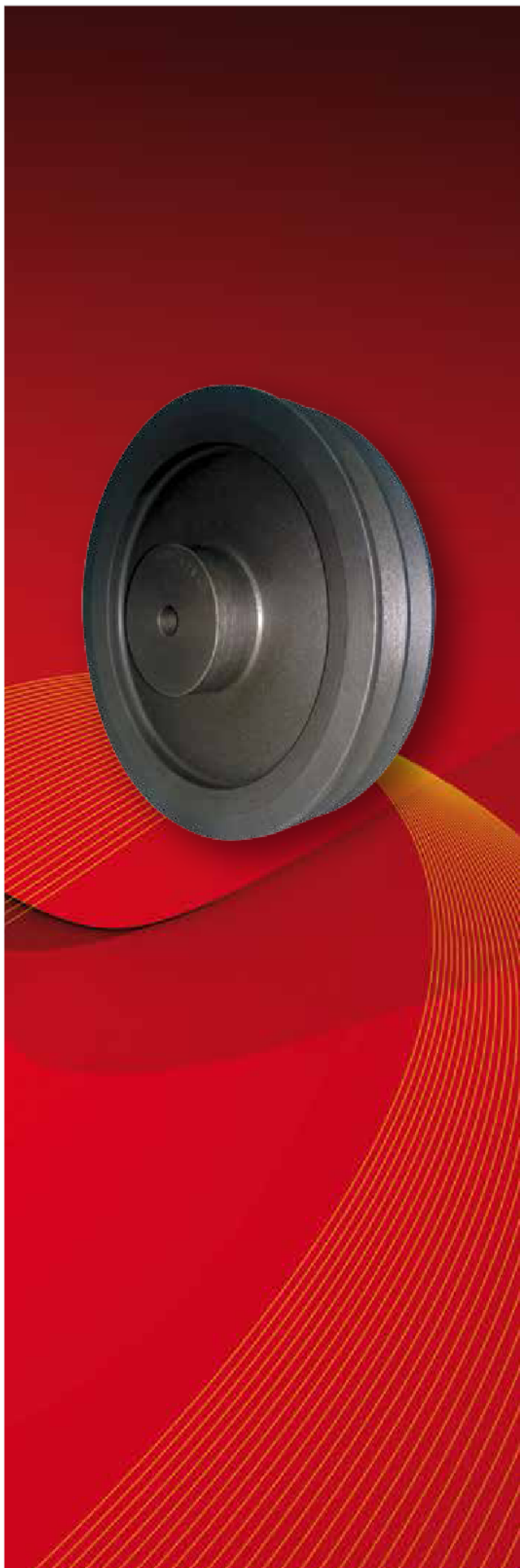
EXEC. 17

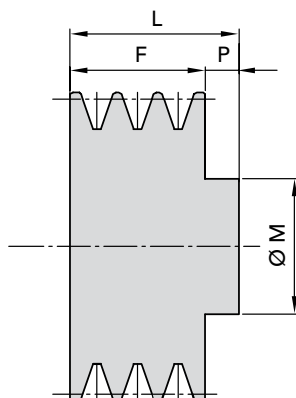
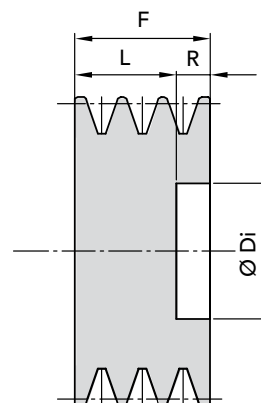
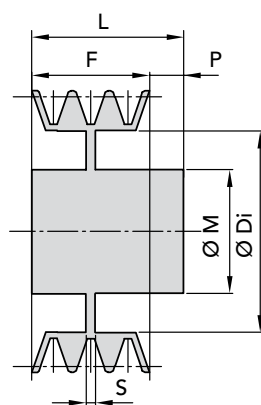
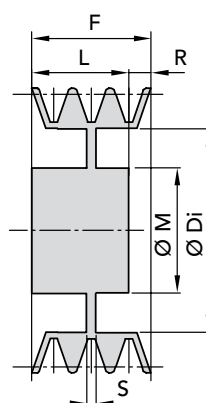
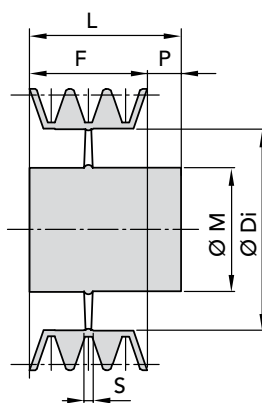
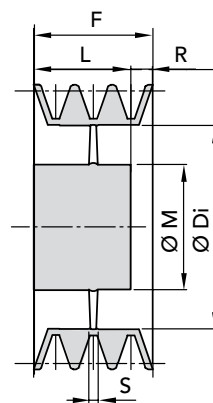
Dp	P. NUMBER	N°	EXEC.	BUSHE	Ø De	Ø Di	Ø Dm	F	L	P	R	S	T	WEIGHT
GROOVES														
630	91406303	3	11	4040	640,2	574	200	85	102					76,30
	91406304	4	11	4545	640,2	574	225	110,5	114	1,75				63,80
	91406305	5	12	5050	640,2	574	245	136			4,5	127		73,00
	91406306	6	12	5050	640,2	574	245	161,5			17,25	127		88,50
	91406308	8	12	5050	640,2	574	245	212,5			42,75	127		102,0
	91406310	10	9	5050	640,2	574	245	263,5			68,25	127		113,2
710	91407104	4	17	5050	720,2	654	267	110,5	127	12			4,5	83,20
	91407105	5	12	5050	720,2	654	245	136						93,00
	91407106	6	12	5050	720,2	654	245	161,5						107,3
	91407108	8	12	5050	720,2	654	245	212,5						123,5
	91407110	10	12	5050	720,2	654	245	263,5						133,4
800	91408003	3	17	5050	810,2	737	245	85	127	38			4	87,00
	91408004	4	17	5050	810,2	737	245	110,5	127	12			4,5	102,5
	91408005	5	12	5050	810,2	737	245	136			4,5	127		119,0
	91408006	6	12	5050	810,2	737	245	161,5			17,5	127		126,0
	91408008	8	12	5050	810,2	737	245	212,5			42,75	127		145,0
	91408010	10	12	5050	810,2	737	245	263,5			68,25	127		160,0
1000	91410003	3	17	5050	1010,2	937	245	85	127	38			4	120,0
	91410004	4	17	5050	1010,2	937	245	110,5	127	12			4,5	130,0
	91410005	5	12	5050	1010,2	937	245	136			4,5	127		147,0
	91410006	6	12	5050	1010,2	937	245	161,5			17,5	127		185,0
	91410008	8	12	5050	1010,2	937	245	212,5			42,75	127		207,0
	91410010	10	12	5050	1010,2	937	245	263,5			68,25	127		227,0
1250	91412503	3	17	5050	1260,2	1187	245	85	127	38			4	175,0
	91412504	4	17	5050	1260,2	1187	245	110,5	127	12			4,5	186,0
	91412505	5	12	5050	1260,2	1187	245	136			4,5	127		210,0
	91412506	6	12	5050	1260,2	1187	245	161,5			17,5	127		258,0
	91412508	8	12	5050	1260,2	1187	245	212,5			42,75	127		285,0
	91412510	10	12	5050	1260,2	1187	245	263,5			68,25	127		300,0

MATERIAL CAST-IRON

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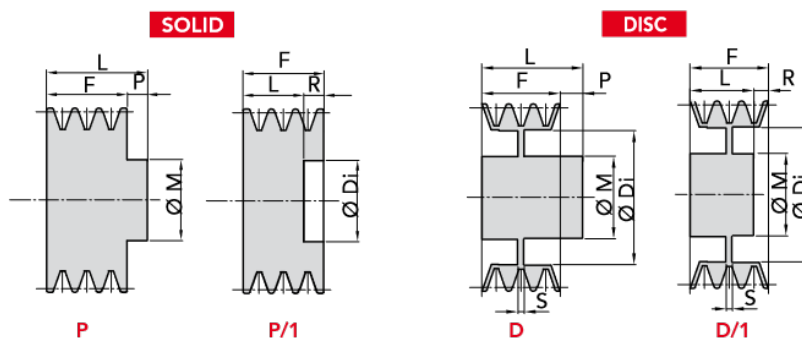


**P****P/1****SOLID****D****D/1****DISC****R****R/1****SPOKES**



SOLID HUB

SPA TYPE



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES							min				Kg.
40	91220401	1	P	40	35		20	15			0,20
50	91220501	1	P	40	35		20	15			0,30
	91220502	2	P	40	45		35	10			0,40
55	91220551	1	P	40	35		20	15			0,40
	91220552	2	P	40	45		35	10			0,60
60	91220601	1	P	40	35		20	15			0,40
	91220602	2	P	40	45		35	10			0,65
	91220603	3	P	40	50		50				0,90
63	91220631	1	P	40	35		20	20			0,50
	91220632	2	P	40	45		35	10			0,70
	91220633	3	P	40	50		50				0,90
65	91220651	1	P	40	40		20	20			0,50
	91220652	2	P	50	45		35	10			0,75
	91220653	3	P	52	50		50				1,00
70	91220701	1	P	40	40		20	20			0,50
	91220702	2	P	50	45		35	10			0,80
	91220703	3	P	52	50		50				1,10
	91220704	4	P	52	65		65				1,40
	91220705	5	P	52	80		80				1,70
75	91220751	1	P	40	40		20	20			0,50
	91220752	2	P	50	45		35	10			1,10
	91220753	3	P	52	50		50				1,50
	91220754	4	P	52	65		65				2,00
	91220755	5	P	52	80		80				2,50
80	91220801	1	P	45	40		20	20			0,50
	91220802	2	P	50	45		35	10			1,00
	91220803	3	P	62	50		50				1,50
	91220804	4	P	62	65		65				2,00
	91220805	5	P	62	80		80				2,50
85	91220851	1	P	45	40		20	20			0,60
	91220852	2	P	50	45		35	10			1,20
	91220853	3	P	62	50		50				1,80
	91220854	4	P	62	65		65				2,40
	91220855	5	P	62	80		80				3,00
90	91220901	1	P	45	40		20	20			0,80
	91220902	2	P	60	45		35	10			1,40
	91220903	3	P	62	50		50				2,00
	91220904	4	P	68	65		65				2,60
	91220905	5	P	68	80		80				3,20

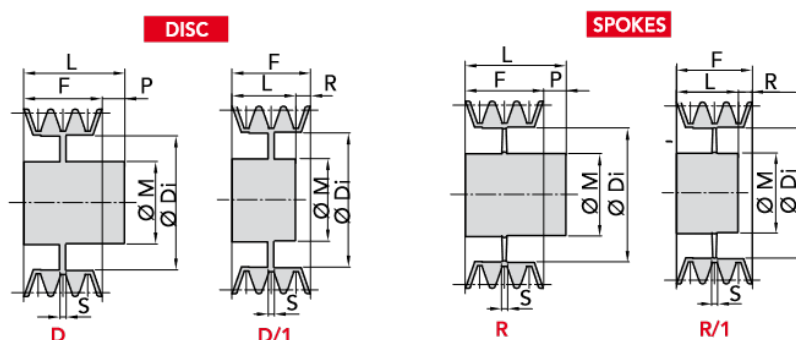
Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES							min				Kg.
95	91220951	1	P	45	40		20	20			0,70
	91220952	2	P	60	45		35	10			1,50
	91220953	3	P	62	50		50				2,30
	91220954	4	P	68	65		65				3,10
	91220955	5	P	68	80		80				3,90
100	91221001	1	P	48	40		20	20			0,80
	91221002	2	P	60	45		35	10			1,30
	91221003	3	P	62	50		50				1,80
	91221004	4	P/1	52	67		65		13		2,25
	91221005	5	P/1	52	67		80		28		2,10
105	91221051	1	P	48	40		20	20			0,80
	91221052	2	P	60	45		35	10			1,60
	91221053	3	P	62	50		50				2,40
	91221054	4	P/1	52	67		65		13		3,13
	91221055	5	P/1	52	67		80		28		3,30
112	91221121	1	P	48	40		20	20			1,00
	91221122	2	P	60	45		35	10			1,70
	91221123	3	P	62	50		50				2,40
	91221124	4	P/1	52	79		65		13		2,64
	91221125	5	P/1	52	79		80		28		2,80
120	91221201	1	P	60	40		20	20			1,20
	91221202	2	P	60	50		35	15			1,85
	91221203	3	P	70	50		50				2,40
	91221204	4	P/1	52	87		65		13		2,93
	91221205	5	P/1	52	87		80		28		3,70
125	91221251	1	P	60	40		20	20			1,30
	91221252	2	P	60	50		35	15			1,90
	91221253	3	P	70	50		50				2,50
	91221254	4	P	50			50				3,10
130	91221301	1	P	60	45		20	20			1,40
	91221302	2	P	60	45		35	10			2,20
	91221303	3	P	70	52		50				3,00
	91221304	4	P/1	52	97		65		13		3,10
	91221305	5	P/1	52	97		80		28		2,80
140	91221401	1	D	60	40	107	10	20	20		1,50
	91221402	2	D	60	50	107	10	35	15		2,00
	91221403	3	D	70	52	107	12	50	2		2,50
	91221404	4	P/1	52	107		65		13		2,70
	91221405	5	P/1	52	107		80		28		1,70
150	91221501	1	D	60	40	107	10	20	20		1,60
	91221502	2	D	60	45	107	10	35	10		2,50
	91221503	3	D	70	52	107	12	50	2		3,60
	91221504	4	P/1	52	107		65		13		4,40
	91221505	5	P/1	52	107		80		28		4,00

MATERIAL CAST-IRON



SOLID HUB

SPA TYPE



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES											Kg.
							min				
160	91221601	1	D	60	40	127	10	20	20		1,70
	91221602	2	D	60	50	127	10	35	15		2,40
	91221603	3	D	70	52	127	12	50	2		2,80
	91221604	4	D/1	70	52	127	18	65		13	2,45
	91221605	5	D/1	80	52	127	18	80		28	3,20
170	91221701	1	D	60	40	137	12	20	20		2,00
	91221702	2	D	60	45	137	12	35	10		2,90
	91221703	3	D	70	52	137	12	50	2		3,80
	91221704	4	D/1	80	52	137	18	65		13	4,10
	91221705	5	D/1	80	52	137	18	80		28	4,60
180	91221801	1	D	65	40	147	12	20	20		2,50
	91221802	2	D	70	50	147	12	35	15		3,10
	91221803	3	D	70	52	147	12	50	2		4,20
	91221804	4	D/1	80	60	147	18	65		5	4,80
	91221805	5	D/1	80	65	147	18	80		15	5,00
190	91221902	2	D	70	50	157	12	35	15		3,20
200	91222001	1	D	65	45	167	12	20	25		2,70
	91222002	2	D	70	50	167	12	35	15		3,70
	91222003	3	D	70	50	167	12	50		5	4,80
	91222004	4	D/1	80	60	167	18	65		15	5,50
	91222005	5	D/1	80	65	167	18	80			5,80
225	91222251	1	D	65	45	192	12	20	25		3,00
	91222252	2	D	70	50	192	12	35	15		3,80
	91222253	3	D	80	50	192	12	50		5	5,00
	91222254	4	D/1	90	60	192	18	65		15	5,60
	91222255	5	D/1	90	65	192	18	80			6,00
250	91222501	1	D	75	50	217	12	20	30		3,70
	91222502	2	D	75	50	217	12	35	15		4,30
	91222503	3	D	80	60	217	12	50	10		4,60
	91222504	4	D	90	65	217	18	65		15	6,10
	91222505	5	D/1	90	65	217	18	80			6,20
280	91222801	1	R	75	50	247	14	20	30		3,90
	91222802	2	R	80	50	247	14	35	15		5,30
	91222803	3	R	80	60	247	14	50	10		6,70
	91222804	4	R	90	65	247	14	65		15	8,10
	91222805	5	R/1	100	65	247	14	80			8,80
300	91223001	1	R	75	50	267	14	20	30		4,20
	91223002	2	R	80	50	267	14	35	15		5,90
	91223003	3	R	80	60	267	14	50	10		7,60
	91223004	4	R	90	70	267	14	65	5	10	9,30
	91223005	5	R/1	100	70	267	14	80			10,3
315	91223152	2	R	80	50	282	14	35	15		6,60

Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES											Kg.
							min				
355	91223551	1	R	75	50	322	14	20	30		5,50
	91223552	2	R	80	50	322	14	35	15		7,70
	91223553	3	R	90	60	322	14	50	10		9,90
	91223554	4	R	95	65	322	18	65			12,10
	91223555	5	R/1	100	65	322	20	80		15	13,45
400	91224001	1	R	90	50	367	14	20	30		6,80
	91224002	2	R	90	50	367	14	35	15		8,80
	91224003	3	R	100	60	367	16	50	10		11,0
	91224004	4	R	100	65	367	20	65			13,2
	91224005	5	R/1	100	65	367	24	80		15	14,5
450	91224501	1	R	90	50	417	14	20	30		7,50
	91224502	2	R	100	50	417	14	35	15		9,11
	91224503	3	R	100	60	417	16	50	10		11,30
	91224504	4	R/1	105	65	417	20	65		5	12,90
	91224505	5	R/1	105	65	417	24	80		15	14,25
500	91225001	1	R	90	50	467	14	20	30		10,50
	91225002	2	R	100	50	467	16	35	15		10,70
	91225003	3	R	105	60	467	20	50	10		10,90
	91225004	4	R/1	105	65	467	25	65		5	10,80
	91225005	5	R/1	110	65	467	28	80		15	11,00
560	91225601	1	R	100	50	527	16	20	30		12,00
	91225602	2	R	100	50	527	20	35	15		13,20
	91225603	3	R	120	65	527	22	50	15		13,40
	91225604	4	R	120	65	527	25	65			13,70
	91225605	5	R	120	80	527	30	80			14,00
600	91226001	1	R	100	50	567	16	20	30		14,70
	91226002	2	R	110	50	567	20	35	15		15,10
	91226003	3	R	120	65	567	22	50	15		18,80
	91226004	4	R	120	65	567	25	65			22,50
	91226005	5	R	120	80	567	30	80			26,20
630	91226302	2	R	110	50	597	20	35	15		15,40
	91226303	3	R	120	65	597	22	50	15		19,20
	91226304	4	R	120	65	597	25	65			25,00
	91226305	5	R	120	80	597	30	80			31,00

MATERIAL CAST-IRON

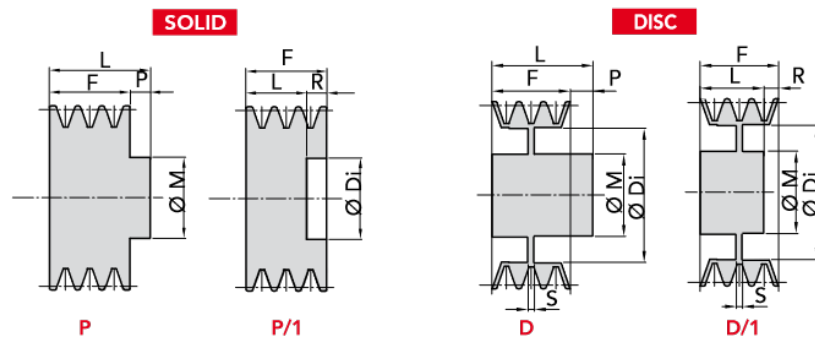
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SOLID HUB

SPB TYPE



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES							min				Kg.
60	91320603	3	P	50	67			63	4		1,70
70	91320701	1	P	45	45			25	20		0,70
	91320702	2	P	45	55			44	11		1,40
	91320703	3	P		63			63			2,10
	91320704	4	P		82			82			2,50
	91320705	5	P		101			101			3,00
80	91320801	1	P	50	45			25	20		1,00
	91320802	2	P	50	55			44	11		1,60
	91320803	3	P	50	63			63			2,20
	91320804	4	P		82			82			2,80
	91320805	5	P		101			101			3,40
90	91320901	1	P	50	45			25	20		1,10
	91320902	2	P	50	55			44	11		1,70
	91320903	3	P		63			63			2,30
	91320904	4	P		82			82			2,90
	91320905	5	P		101			101			3,50
100	91321001	1	P	52	45			25	20		1,30
	91321002	2	P	55	55			44	11		1,80
	91321003	3	P		63			63			2,90
	91321004	4	P		82			82			3,70
	91321005	5	P		101			101			4,50
112	91321121	1	P	55	45			25	20		1,50
	91321122	2	P	60	55			44	11		1,90
	91321123	3	P		63			63			3,50
	91321124	4	P		82			82			4,70
	91321125	5	P		101			101			4,80
120	91321201	1	P	55	45			25	20		1,70
	91321202	2	P	60	55			44	11		2,10
	91321203	3	P		63			63			3,80
	91321204	4	P		82			82			4,20
	91321205	5	P		101			101			5,00
125	91321251	1	P	58	45			25	20		1,90
	91321252	2	P	60	55			44	11		2,40
	91321253	3	P/1		60	83		63		3	4,00
	91321254	4	P/1		60	83		82		22	4,70
	91321255	5	P/1		60	83		101		41	5,20

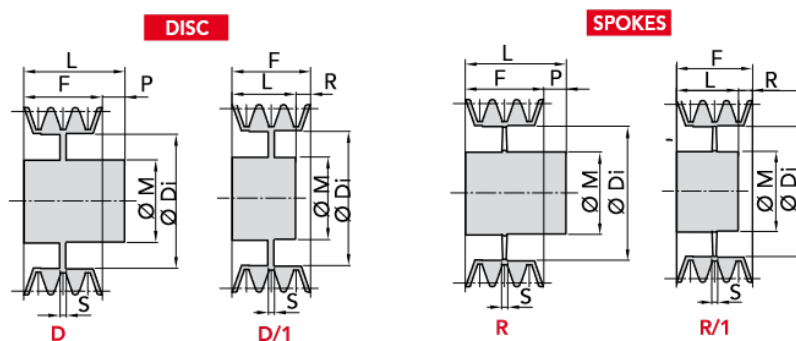
Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES							min				Kg.
130	91321301	1	P	60	45			25	20		2,00
	91321302	2	P	60	55			44	11		2,60
	91321303	3	P/1		60	88		63		3	4,20
	91321304	4	P/1		60	88		82		22	5,00
	91321305	5	P/1		60	88		101		41	5,50
140	91321401	1	P	65	45			25	20		2,10
	91321402	2	P	65	55			44	11		2,90
	91321403	3	P/1		60	98		63		3	4,40
	91321404	4	P/1		60	98		82		22	5,30
	91321405	5	P/1		60	98		101		41	5,74
	91321406	6	P/1		60	98		120		60	6,74
150	91321501	1	P	65	45			25	20		2,40
	91321502	2	P	65	55			44	11		3,20
	91321503	3	P/1		60	108		63		3	4,60
	91321504	4	P/1		60	108		82		22	5,50
	91321505	5	P/1		60	108		101		41	6,00
	91321506	6	P/1		60	108		120		60	7,00
160	91321601	1	D	65	45	118	12	25	20		2,50
	91321602	2	D	70	55	118	12	44	11		3,30
	91321603	3	P/1		60	118		63		3	4,80
	91321604	4	P/1		60	118		82		22	5,70
	91321605	5	P/1		60	118		101		41	7,00
	91321606	6	P/1		65	118		120		55	8,30
170	91321701	1	D	65	45	128	12	25	20		2,80
	91321702	2	D	70	55	128	12	44	11		3,40
	91321703	3	P/1		60	128		63		3	5,10
	91321704	4	P/1		60	128		82		22	5,92
	91321705	5	P/1		60	128		101		41	7,30
	91321706	6	P/1		65	128		120		55	8,70
180	91321801	1	D	65	45	138	12	25	20		3,10
	91321802	2	D	70	55	138	12	44	11		3,90
	91321803	3	D/1	80	60	138	18	63		3	5,20
	91321804	4	P/1		60	138		82		22	6,18
	91321805	5	P/1		70	138		101		31	7,40
	91321806	6	P/1		70	138		120		50	8,70

MATERIAL CAST-IRON



SOLID HUB

SPB TYPE



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES											
							min				Kg.
200	91322001	1	D	70	45	158	14	25	20		3,40
	91322002	2	D	70	55	158	14	44	11		4,40
	91322003	3	D/1	88	60	158	18	63		3	5,80
	91322004	4	D/1	88	60	158	25	82		22	6,77
	91322005	5	D/1	96	70	158	25	101		31	8,17
	91322006	6	D/1	96	80	158	25	120		50	9,57
212	91322121	1	D	70	45	170	14	25	20		3,70
	91322122	2	D	77	55	170	14	44	11		4,60
	91322123	3	D/1	88	60	170	18	63		3	6,00
	91322124	4	D/1	88	60	170	25	82		22	7,00
	91322125	5	D/1	96	70	170	25	101		31	8,60
	91322126	6	D/1	104	80	170	25	120		40	10,0
224	91322244	4	D/1	88	60	170	25	82		22	3,85
225	91322251	1	D	70	45	183	14	25	20		4,00
	91322252	2	D	77	55	183	14	44	11		5,40
	91322253	3	D/1	88	60	183	18	63		3	6,90
	91322254	4	D/1	88	60	183	25	82		22	7,83
	91322255	5	D/1	96	70	183	25	101		31	9,33
	91322256	6	D/1	104	80	183	25	120		40	10,83
236	91322364	4	D/1	88	60	170	25	82		22	8,10
250	91322501	1	D	70	50	208	14	25	25		4,20
	91322502	2	D	77	55	208	14	44	11		6,10
	91322503	3	D/1	88	60	208	18	63		3	8,60
	91322504	4	D/1	96	65	208	25	82		17	10,36
	91322505	5	D/1	104	75	208	25	101		26	12,86
	91322506	6	D/1	104	80	208	25	120		40	15,36
280	91322801	1	R	76	50	238	14	25	25		5,70
	91322802	2	R	80	55	238	14	44	11		7,00
	91322803	3	R/1	90	60	238	18	63		3	9,60
	91322804	4	R/1	96	65	238	25	82		17	12,06
	91322805	5	R/1	104	75	238	25	101		26	13,91
	91322806	6	R/1	104	80	238	25	120		40	17,0
300	91323001	1	R	76	50	258	15	25	25		6,50
	91323002	2	R	80	55	258	15	44	11		7,50
	91323003	3	R/1	90	60	258	18	63		3	12,0
	91323004	4	R/1	96	65	258	20	82		17	16,0
	91323005	5	R/1	104	75	258	22	101		26	19,0
	91323006	6	R/1	104	80	258	22	120		40	23,0
315	91323151	1	R	76	50	273	15	25	25		6,40
	91323152	2	R	88	60	273	15	44	16		8,20
	91323153	3	R/1	90	60	273	18	63		3	14,0
	91323154	4	R/1	96	65	273	20	82		17	17,0
	91323155	5	R/1	104	75	273	22	101		26	19,0
	91323156	6	R/1	120	90	273	22	120		30	24,0
340	91323401	1	R	80	50	298	15	25	25		6,70
	91323402	2	R	88	60	298	15	44	16		12,5
	91323403	3	R/1	92	60	298	18	63		3	15,0
	91323404	4	R/1	96	65	298	20	82		17	19,0
	91323405	5	R/1	104	75	298	22	101		26	20,0
	91323406	6	R/1	120	90	298	22	120		30	28,0
355	91323551	1	R	80	50	313	16	25	25		7,00
	91323552	2	R	88	60	313	18	44	16		13,0
	91323553	3	R/1	92	60	313	22	63		3	16,0
	91323554	4	R/1	96	65	313	22	82		17	19,0
	91323555	5	R/1	104	75	313	24	101		26	21,0
	91323556	6	R/1	120	90	313	24	120		30	29,0
380	91323801	1	R	85	55	338	20	25	30		8,00
	91323802	2	R	88	60	338	20	44	16		13,5
	91323803	3	R	96	65	338	22	63	2		17,0
	91323804	4	R/1	104	75	338	24	82		7	20,0
	91323805	5	R/1	112	85	338	24	101		16	23,0
	91323806	6	R/1	120	100	338	28	120		20	30,0
400	91324001	1	R	85	55	358	20	25	30		9,80
	91324002	2	R	88	60	358	20	44	16		14,0
	91324003	3	R	96	65	358	22	63	2		18,0
	91324004	4	R/1	104	75	358	24	82		7	21,0
	91324005	5	R/1	112	85	358	24	101		16	24,0
	91324006	6	R/1	120	100	358	28	120		20	32,0
425	91324503	3	R	96	65	383	24	63	2		19,0
	91324504	4	R/1	104	75	383	24	82		7	22,0
	91324505	5	R/1	112	85	383	28	101		16	26,0
	91324256	6	R/1	120	100	358	28	120		20	35,0

MATERIAL CAST-IRON

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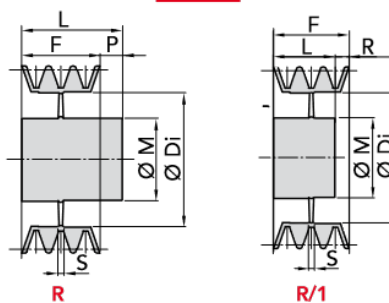
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SOLID HUB

SPB TYPE

SPOKES



Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES							min				Kg.
450	91324501	1	R	90	60	408	20	25	35		10,00
	91324502	2	R	90	60	408	20	44	16		14,50
	91324503	3	R	96	65	408	24	63	2		22,00
	91324504	4	R/1	104	75	408	26	82		7	25,00
	91324505	5	R/1	112	85	408	26	101		16	28,50
	91324506	6	R/1	120	100	408	30	120		20	36,00
500	91325001	1	R	100	60	458	20	25	35		11,00
	91325002	2	R	100	65	458	20	44	21		15,00
	91325003	3	R	104	75	458	24	63	12		24,00
	91325004	4	R	112	85	458	26	82	3		27,50
	91325005	5	R/1	120	90	458	30	101		11	31,00
	91325006	6	R/1	129	105	458	30	120		15	39,00
560	91325601	1	R	100	60	518	20	25	35		15,00
	91325602	2	R	100	65	518	20	44	21		17,00
	91325603	3	R	104	75	518	24	63	12		29,50
	91325604	4	R	112	85	518	26	82	3		34,00
	91325605	5	R/1	120	90	518	30	101		11	36,00
	91325606	6	R/1	128	105	518	35	120		15	48,00
600	91326001	1	R	100	60	558	22	25	35		16,00
	91326002	2	R	100	65	558	22	44	21		18,00
	91326003	3	R	104	75	558	28	63	12		31,00
	91326004	4	R	115	85	558	28	82	3		35,00
	91326005	5	R/1	120	90	558	30	101		11	42,00
	91326006	6	R/1	128	105	558	35	120		15	49,00
630	91326301	1	R	100	60	588	22	25	35		18,00
	91326302	2	R	100	65	588	28	44	21		19,00
	91326303	3	R	104	75	588	28	63	12		33,00
	91326304	4	R	120	85	588	32	82	3		36,00
	91326305	5	R/1	128	90	588	32	101		11	48,00

MATERIAL CAST-IRON

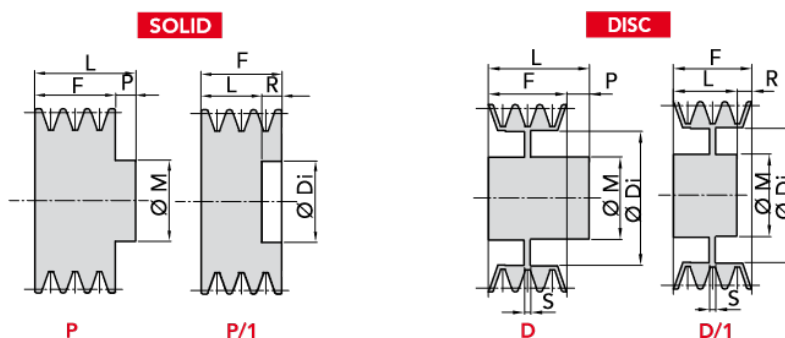
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SOLID HUB

SPC TYPE



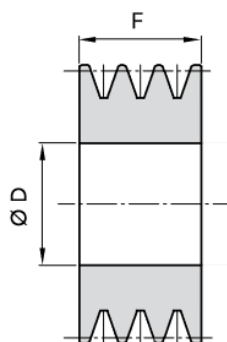
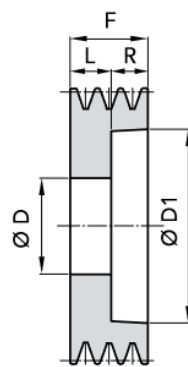
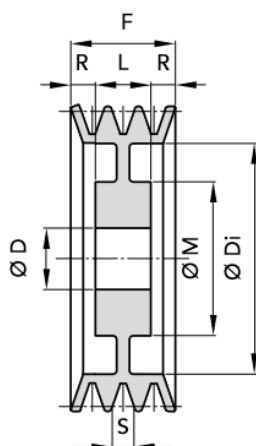
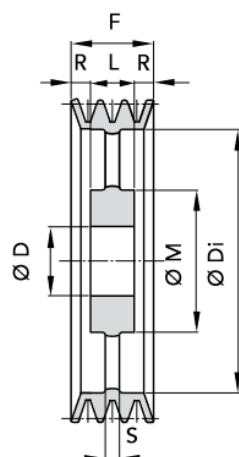
Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES							min				Kg.
120	91421201	1	P	65	50			34	16		2,30
	91421202	2	P	65	65			59,5	5,5		2,60
140	91421401	1	P	70	55			34	21		2,10
	91421402	2	P		59,5			59,5			2,90
	91421403	3	P/1		65	83		85	20		3,90
	91421404	4	P/1		80	83		111	30,5		4,74
150	91421501	1	P	70	50			34	16		3,10
	91421502	2	P	72	59,5			59,5			3,90
	91421503	3	P/1		65	93		85	20		4,70
	91421504	4	P/1		80	93		111	30,5		5,70
	91421505	5	P/1		96	93		136	40		6,70
160	91421601	1	P	72	50			34	16		3,70
	91421602	2	P		59,5			59,5			4,60
	91421603	3	P/1		65	103		85	20		5,70
	91421604	4	P/1		80	103		111	30,5		7,00
	91421605	5	P/1		96	103		136	40		8,30
180	91421801	1	D	76	50	123	16	34	16		3,10
	91421802	2	D	80	60	123	16	59,5	0,5		3,90
	91421803	3	D/1	82	65	123	18	85	20		5,20
	91421804	4	D/1	82	80	123	20	111	30,5		6,18
	91421805	5	D/1	82	96	123	20	136	40		7,48
200	91422001	1	D	76	50	143	16	34	16		3,40
	91422002	2	D	80	60	143	16	59,5	0,5		4,80
	91422003	3	D/1	86	65	143	18	85	20		5,80
	91422004	4	D/1	90	90	143	25	111	20,5		6,70
	91422005	5	D/1	90	100	143	25	136	36		8,70
225	91422251	1	D	86	50	168	18	34	16		5,50
	91422252	2	D	88	60	168	18	59,5	0,5		6,90
	91422253	3	D/1	90	70	168	25	85	15		7,83
	91422254	4	D/1	90	90	168	25	111	20,5		9,33
	91422255	5	D/1	90	100	168	25	136	36		10,83
250	91422501	1	D	86	50	193	18	34	16		7,30
	91422502	2	D	92	60	193	18	59,5	0,5		8,60
	91422503	3	D/1	92	70	193	25	85	15		10,36
	91422504	4	D/1	100	90	193	25	111	20,5		12,86
	91422505	5	D/1	102	100	193	25	136	36		15,36

Dp	P. NUMBER	N°	EXEC.	ØM	L	ØDi	S	F	P	R	WEIGHT
GROOVES							min				Kg.
280	91422801	1	D	86	50	223	18	34	16		7,00
	91422802	2	D	92	60	223	18	59,5	0,5		9,60
	91422803	3	D/1	92	70	223	25	85	15		12,0
	91422804	4	D/1	100	90	223	25	111	10,5		13,9
	91422805	5	D/1	102	100	223	25	136	36		15,2
300	91423001	1	D	86	50	243	20	34	16		7,50
	91423002	2	D	92	60	243	20	59,5	0,5		8,90
	91423003	3	D/1	92	70	243	25	85	15		9,80
	91423004	4	D/1	100	90	243	25	111	20,5		10,7
	91423005	5	D/1	104	100	243	25	136	36		11,24

MATERIAL CAST-IRON

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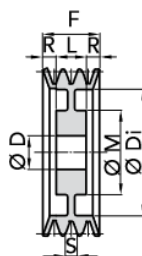
**P****P/1****SOLID****D****DISC****R****SPOKES**



for LOCKING DEVICES

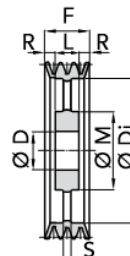
SPA TYPE

DISC



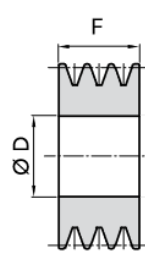
D

SPOKES

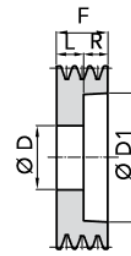


R

SOLID



P



P/1

Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
90	91250902			2	P	35						0,20
	91250903			3	P	50						1,10
	91250905			5	P	80						2,00
95	91250952			2	P	35						0,85
100	91251001	91261002		1	P	20						0,50
	91251002			2	P	35						0,90
	91251003			3	P	50						1,30
105	91251052			2	P	35						0,95
120	91251202			2	P/1	35	27		8	88		1,00
125		91261252		2	P/1	35	27		8	92		1,00
		91261253		3	P/1	50	27		23	92		1,80
		91261254		4	P/1	65	27		38	92		2,40
130		91261303		3	P/1	50	27		23	97		1,75
140		91261403		4	P/1	65	27		38	107		1,50
150	91251502			2	P/1	35	27		8	117		1,35
		91261504		4	P/1	65	27		38	117		2,15
160	91251602	91261602		2	P/1	35	27		8	127		1,50
		91261603		3	P/1	50	27		23	127		1,90
170	91251702			2	D	35	27		4	137	27	1,60
180	91251802	91261802		2	D	35	27		4	147	27	1,70
	91251803	91271803		3	D	50	27		11,5	147	27	2,40
190		91261902		2	D	35	27	120	4	157	12	1,80
		91261903		3	D	50	27	120	11,5	157	12	2,50
200	91252002	91262002		2	D	35	27	120	4	167	12	1,90
		91262003		3	D	50	27	120	11,5	167	14	2,60
		91262004		4	D	65	27	120	19	167	14	3,30
225	91252252	91262252		2	D	35	27	120	4	192	12	2,20
	91252253	91262253		3	D	50	27	120	11,5	192	14	2,80
250	91252502			2	R	35	27	130	4	217	14	2,80
		91282503		3	R	50	27	130	11,5	217	14	3,50
		91262504		4	R	65	27	130	19	217	14	4,20
300			91283004	4	R	65	27	130	19	267	14	3,40

MATERIAL CAST-IRON

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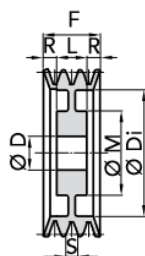
V-BELT PULLEYS for LOCKING DEVICES

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for LOCKING DEVICES

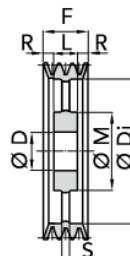
SPB TYPE

DISC



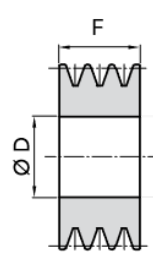
D

SPOKES

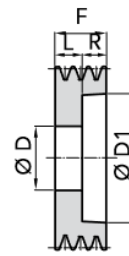


R

SOLID



P



P/1

Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
112	91351121			1	P	25						1,50
	91351122			2	P/1	44	27		17	70		1,90
120		91361202		2	P/1	44	27		17	78		2,10
		91361203		3	P/1	63	27		36	78		3,80
		91361204		4	P/1	82	27		55	78		4,20
125	91351251			1	P	25						1,90
		91371252		2	P/1	44	27		17	83		2,40
		91361253		3	P/1	63	27		36	83		4,00
130		91361302	91381302	2	P/1	44	27		17	90		2,60
		91361303	91381303	3	P/1	63	27		36	90		4,20
		91361304	91381304	4	P/1	82	27		55	90		5,00
			91381305	5	P/1	101	27		74	90		5,50
			91381306	6	P/1	120	27		93	90		6,00
140	91351402	91361402	91381402	2	P/1	44	27		17	98		2,90
		91361403	91381403	3	P/1	63	27		36	98		4,40
		91361404	91381404	4	P/1	82	27		55	98		5,30
			91381405	5	P/1	101	27		74	98		5,80
150	91351501	91361501		1	P	25						2,40
	91351502	91361502	91381502	2	P/1	44	27		17	108		3,20
		91361503	91381503	3	P/1	63	27		36	108		4,60
		91361504	91381504	4	P/1	82	27		55	108		5,50
			91381505	5	P/1	101	27		74	108		6,00
160	91351601	91361601		1	P	25						2,50
		91361602	91381602	2	P/1	44	27		17	118		3,30
		91361603	91381603	3	P/1	63	27		36	118		4,80
			91381604	4	P/1	82	27		55	118		5,70
			91381605	5	P/1	101	27		74	118		7,00
			91381606	6	P/1	120	27		93	118		8,30
170			91381702	2	D	44	27		8,5	128	27	3,40
		91361703	91381703	3	D	63	27		18	128	27	5,10
			91381704	4	D	82	27		27,5	128	27	5,90
			91381705	5	D	101	27		37	128	27	7,40
180				1	P	25						3,10
		91361802	91381802	2	D	44	27		8,5	138	27	3,90
		91361803	91381803	3	D	63	27		18	138	27	5,20
		91361804	91381804	4	D	82	27		27,5	138	27	6,20
			91381805	5	D	101	27		37	138	27	7,50
			91381806	6	D	120	27		46,5	138	27	8,90

MATERIAL **CAST-IRON**

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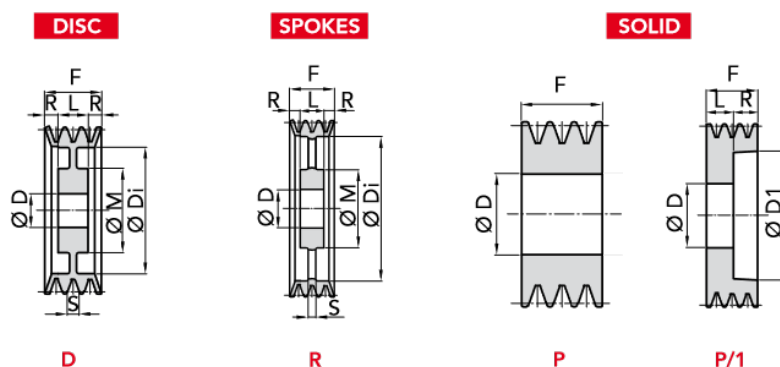
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V-BELT PULLEYS for LOCKING DEVICES SPB



for LOCKING DEVICES

SPB TYPE



Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
190		91361901	91381902	1	P	25						3,50
			91381903	2	D	44	27		8,5	148	27	6,50
			91381904	3	D	63	27		18	148	27	7,00
			91381905	4	D	82	27		27,5	148	27	8,00
				5	D	101	27		37	148	27	9,00
200		91362001	91382001	1	P	25						4,00
		91372002	91382002	2	D	44	27	120	8,5	158	15	7,00
		91362003	91382003	3	D	63	27	120	18	158	15	8,00
		91362004	91382004	4	D	82	27	120	27,5	158	15	9,00
			91382005	5	D	101	27	120	37	158	15	10,0
			91382006	6	D	120	27	120	46,5	158	18	11,0
212		91362122	91382122	2	D	44	27	120	8,5	170	15	7,00
		91362123	91382123	3	D	63	27	120	18	170	15	8,50
		91362124	91382124	4	D	82	27	120	27,5	170	15	10,0
			91382125	5	D	101	27	120	37	170	15	11,0
225	91352253	91372252	91382252	2	D	44	27	120	8,5	183	15	7,70
		91362253	91382253	3	D	63	27	120	18	183	15	9,00
		91362254	91382254	4	D	82	27	120	27,5	183	15	10,5
			91382255	5	D	101	27	120	37	183	15	11,5
			91382256	6	D	120	27	120	46,5	183	18	13,0
240			91382403	3	D	63	27	120	18	198	16	11,0
250	91352501			1	D	25	25	130		208	16	6,20
	91352502	91372502	91382502	2	D	44	27	130	8,5	208	16	8,50
		91372503	91382503	3	D	63	27	130	18	208	16	11,0
		91362504	91382504	4	D	82	27	130	27,5	208	16	12,0
			91382505	5	D	101	27	130	37	208	16	18,0
			91382506	6	D	120	27	130	46,5	208	18	22,0
280				1	D	25	25	120		238	16	6,50
			91382802	2	D	44	27	120	8,5	238	16	10,0
			91382803	3	D	63	27	120	18	238	16	12,5
			91382804	4	D	82	27	120	27,5	238	16	14,0
			91382805	5	D	101	27	130	37	238	16	21,0
300	91353001			1	R	25	25	130		258	15	7,00
			91383004	4	R	82	27	130	27,5	258	20	16,0
			91383005	5	R	101	27	130	37	258	22	19,0
315		91363153		3	R	63	27	130	18	273	18	14,0
			91383154	4	R	82	27	130	27,5	273	20	20,0
			91383155	5	R	101	27	130	37	273	22	22,0
355	91353551			1	R	25	25	130		308	16	16,0

MATERIAL CAST-IRON

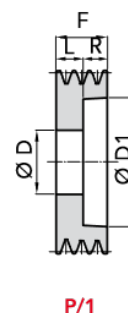
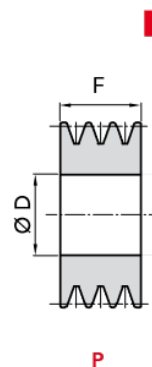
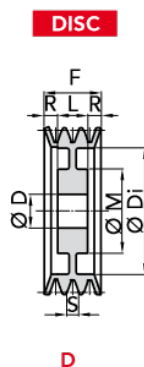
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for LOCKING DEVICES

SPC TYPE

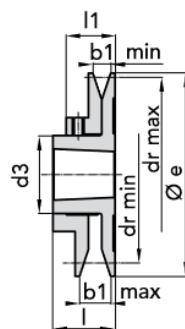


Dp	P. NUMBER Ø 55 H8	P. NUMBER Ø 65 H8	P. NUMBER Ø 80 H8	N° GROOVES	EXEC.	F	L	Ø M	R	Ø Di	S	WEIGHT Kg.
160			91481603	3	P/1	85	27		58	103		2,60
190			91481903	3	P/1	85	27		58	133		2,90
225			91482253	3	D	85	27	120	29	168	25	3,40

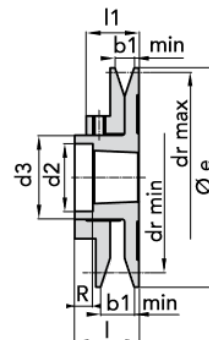
MATERIAL **CAST-IRON**

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EXECUTION 1



EXECUTION 2

PULLEY TYPE	P. NUMBER	EXEC.	N° GROOVES	BUSHE	Ø e	I	I1	b1 min max	dr min max	d2	d3	R	GRUB DIN 916 UNI 5929	SECTION BELT	WEIGHT Kg.
PRB - 93	90000931	2	1	1108	93	36,5	29	13 20,5	57 78 59 85	39	50	13,5	No.4 M6x6	Z 10x6 A 13x8	0,86
PRB - 108	90001081	1	1	1215	108	38	30,5	13 20,5	68 92 70 100 75 93 76 102	-	60	-	No.4 M6x6	Z 10x6 A 13x8 SPZ SPA	1,18
PRB - 120	90001201	1	1	1215	120	38	30,5	13 20,5	80 104 82 112 87 105 88 114	-	60	-	No.4 M6x6	Z 10x6 A 13x8 SPZ SPA	1,46
PRB - 138	90001381	1	1	1615	138	38	30,5	13 20,5	98 122 100 130 105 123 106 132	-	74	-	No.4 M6x6	Z 10x6 A 13x8 SPZ SPA	2,00
PRB - 160	90001601	2	1	1615	160	45	35,5	17 26,5	108 138 112 150 114 140 117 153	58	74	6,5	No.4 M8x8	A 13x8 B 17x11 SPA SPB	3,04
PRB - 180	90001801	2	1	2012	180	45	35,5	17 26,5	128 158 132 170 134 160 137 173	71	90	12,5	No.4 M8x8	A 13x8 B 17x11 SPA SPB	3,80
PRB - 200	90002001	2	1	2012	200	45	35,5	17 26,5	149 177 152 190 155 179 159 193	71	90	12,5	No.4 M8x8	A 13x8 B 17x11 SPA SPB	4,75

MATERIAL **CAST-IRON G20**
UNI 5007

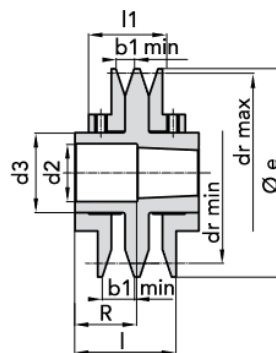
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ADJUSTABLE V-BELTS PULLEY PRB TYPE

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EXECUTION 3

PULLEY TYPE	P. NUMBER	EXEC.	N° GROOVES	BUSHE	Ø e	l	l1	b1		dr		d2	d3	R	GRUB DIN 916 UNI 5929	SECTION BELT	WEIGHT Kg.
								min	max	min	max						
PRB2 - 108	90001082	3	2	1215	108	73	58	13	20,5	68	92	48,5	60	34,5	No. 8 M6x6	Z 10x6 A 13x8 SPZ SPA	2,40
										70	100						
										75	93						
										76	102						
PRB2 - 120	90001202	3	2	1215	120	73	58	13	20,5	80	104	48,5	60	34,5	No. 8 M6x6	Z 10x6 A 13x8 SPZ SPA	2,65
										82	112						
										87	105						
										88	114						
PRB2 - 138	90001382	3	2	1615	138	73	58	13	20,5	98	122	58,5	74	34,5	No. 8 M6x6	Z 10x6 A 13x8 SPZ SPA	3,60
										100	130						
										105	123						
										106	132						
PRB2 - 160	90001602	3	2	1615	160	87	68	17	26,5	108	138	58,5	74	48,5	No. 8 M8x8	A 13x8 B 17x11 SPA SPB	5,60
										112	150						
										114	140						
										117	153						
PRB2 - 180	90001802	3	2	2012	180	87	68	17	26,5	128	158	71	90	54	No. 8 M8x8	A 13x8 B 17x11 SPA SPB	7,15
										132	170						
										134	160						
										137	173						
PRB2 - 200	90002002	3	2	2012	200	87	68	17	26,5	149	177	71	90	54	No. 8 M8x8	A 13x8 B 17x11 SPA SPB	8,92
										152	190						
										155	179						
										159	193						

MATERIAL **CAST-IRON G20**
UNI 5007

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ADJUSTABLE V-BELTS PULLEY PRB TYPE

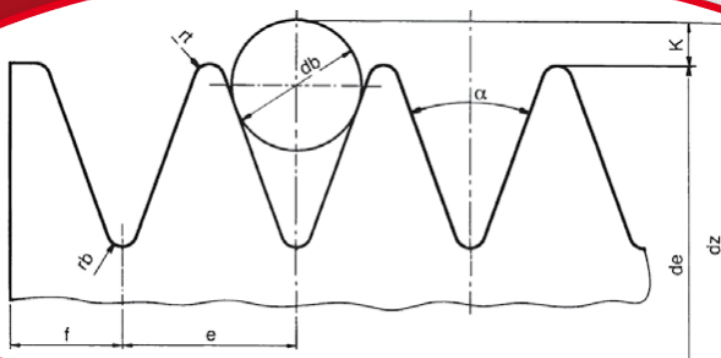


TYPES

Grooved pulleys designed for industrial transmissions are identified by reference to the dimensions and the groove pitch in the following types: **PPV-J – PPV-L**

PROFILE DIMENSIONS

The transverse profile dimensions of a grooved pulley are shown in the figure and in the table.



TABLE

TYPE	PPV-J	PPV-L
Grooves pitch e	2.34	4.70
Tolerance for e*	± 0.03	± 0.05
Sum of tolerances e**	± 0.30	± 0.30
Race angle α** ±0,5	40°	40°
rt min.	0.20	0.40
rb max	0.40	0.40
Diameter of the control sphere or roller db ± 0.01	1.50	3.50
2K** nominal	0.23	2.36
f min.	1.8	3.3

* = this tolerance applies to the distance between the axes of two consecutive grooves

** = the sum of all the tolerances "e" for all the races of each pulley must not exceed the value foreseen in the table

* = the axis of each groove must form a $90^\circ \pm 0.5^\circ$ angle with the pulley axis

** = K is not in relation to the pulley's nominal diameter but is measured from the position of the measurement sphere or roller.



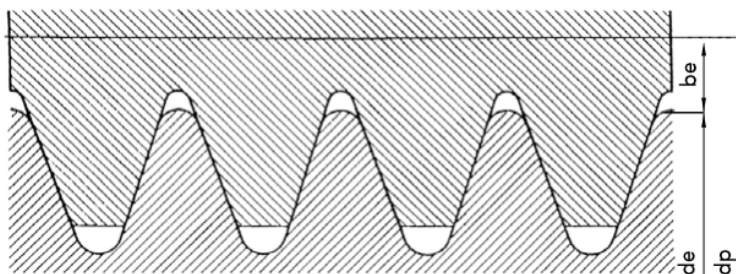
PITCH LINE DIAMETER

The position of a grooved belt in contact with the corresponding pulley is shown in cross-section in the figure.

The real pitch line diameter **dp** of a grooved pulley measured along the belt is slightly greater than the actual diameter **de** and the exact value depends on the type of belt used.

For the purposes of illustration, the table shows the value **be** normally adopted to calculate the transmission ratio.

In practice it is sufficient to use the actual diameter **de** to calculate the transmission ratio.



$$dp \approx de + 2be$$

TYPE	PPV-J	PPV-L
2 be	2	5

DESIGNATION

The designation includes the following details, in the order given: the "pulley" domination, the reference of the current standard, the number of grooves, the type and the actual diameter expressed in millimetres.

An example of the designation for a PPV-J type grooved pulley designed for industrial transmissions with 8 grooves and an actual diameter of 200mm

8 PPV-J 200

DEGREE OF FINISH OF THE GROOVES

The surface roughness of the grooves shall be Ra 3.2 in compliance with ISO 254.

MATERIALS

C45 UNI 7845

Pulleys are manufactured in steel.

BALANCING

UNI 4218 – ISO 1940

Pulleys prepared for a tapered bush are statically balanced within grade G.6.3.

It is possible to perform dynamic balancing, on request.

Dynamic balancing is essential for speeds exceeding 30 m/s.



DESIGN POWER CALCULATION

Make a note of the nominal power to be transmitted **P** (kw) (normally the nominal power of the electric motor), select the service factor **Co** based on the table and calculate the design power output **Pc** (kw) as follows: **Pc = Co x P**

Service factor (Co)

MOTOR TYPE

CLASS A

- Synchronous and asynchronous, squirrel cage, normal torque, alternating current motor.
- Shunt winding direct current motor
- Internal combustion engine (steady-state condition ³ 700 r.p.m.)
- Turbines

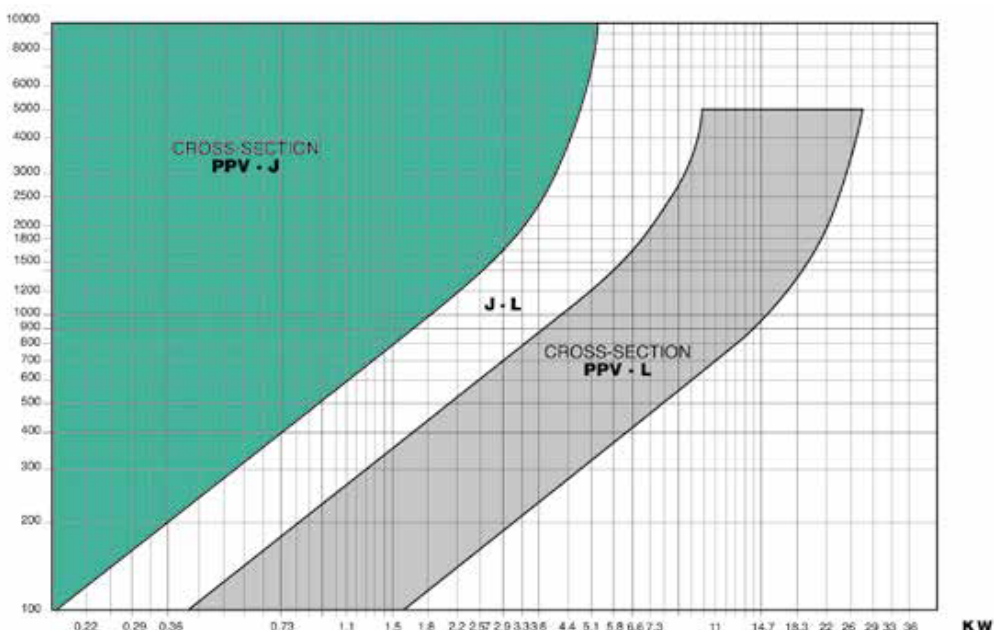
CLASS B

- Asynchronous, squirrel cage, high torque alternating current motor
- Compound winding direct current motor
- Internal combustion engine (steady-state condition ³ 700 r.p.m.)
- Clutches

TYPE OF MACHINE DRIVEN	Class A Motor			Class B Motor		
	Number of daily operating hours					
	<10	10÷16	>16	<10	<10÷16	>16
• Liquid mixers • Blowers • Extractors • Centrifuge fans • Lightweight conveyors	1	1.1	1.2	1.1	1.2	1.3
• Mixers designed for pasty products • Blenders • Generators • Laundry machines • Machine tools	1.1	1.2	1.3	1.2	1.3	1.4
• Rotary compressors • Rotary pumps • Sieves • Heavyweight conveyors • Spraying systems • Dynamo • Bakery machines • Printing machines • Wood working machines • Axial fans • Brick making machines	1.2	1.3	1.4	1.3	1.4	1.5
• Piston compressors • Piston pumps • Crushers • Bucket elevators • Elevators • Paper making machines • Mills • Hoists	1.4	1.5	1.6	1.5	1.6	1.8
• Grinding machines • Crushing machines • Drainage systems • Calenders and extruders for rubber and plastics	1.6	1.7	1.8	1.7	1.8	2

CROSS-SECTION SELECTION

R.p.m. of smallest pulley The type of cross-section is selected by using the diagram shown below.





V-BELT PULLEYS PPV-J MICRO V DIMENSIONS

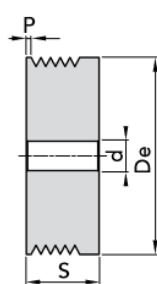
39

PPV-J TYPE

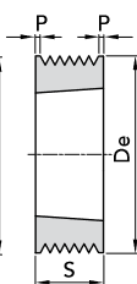
N° GROOVES

F±0.1

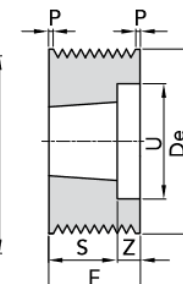
8	23	3.31
12	32.5	3.38
16	42	3.45



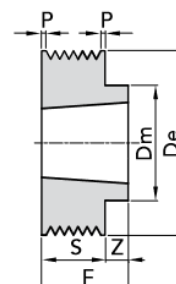
EXEC. 1



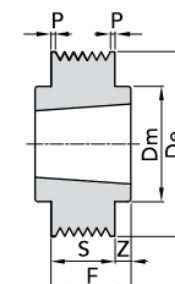
EXEC. 2



EXEC. 3



EXEC. 4



EXEC. 5

De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	d	WEIGHT Kg.
40	48108040	1	8	-	32	-	-	-	12	0,24
	48112040	1	12	-	41,5	-	-	-	12	0,31
	48116040	1	16	-	51	-	-	-	12	0,38
45	48108045	1	8	-	32	-	-	-	12	0,32
	48112045	1	12	-	41,5	-	-	-	12	0,41
	48116045	1	16	-	51	-	-	-	12	0,50
50	48108050	1	8	-	32	-	-	-	12	0,40
	48112050	1	12	-	41,5	-	-	-	12	0,52
	48116050	1	16	-	51	-	-	-	12	0,63
56	48108056	2	8	1108	23	-	-	-	-	0,39
	48112056	3	12	1108	32,5	9,5	-	40	-	0,65
	48116056	1	16	-	51	-	-	-	12	0,81
63	48108063	2	8	1108	23	-	-	-	-	0,50
	48112063	3	12	1108	23	9,5	-	46	-	0,39
	48116063	1	16	-	51	-	-	-	12	1,05
71	48108071	2	8	1108	23	-	-	-	-	0,64
	48112071	3	12	1108	23	9,5	-	46	-	0,57
	48116071	2	16	1215	42	-	-	55	-	0,63
75	48108075	2	8	1108	23	-	-	-	-	0,72
	48112075	3	12	1610	26	6,5	-	60	-	0,38
	48116075	3	16	1610	26	16	-	60	-	0,46
80	48108080	4	8	1610	26	3	70	-	-	0,41
	48112080	3	12	1610	26	6,5	-	60	-	0,52
	48116080	3	16	1610	26	16	-	60	-	0,64
85	48108085	4	8	1610	26	3	70	-	-	0,51
	48112085	3	12	1610	26	6,5	-	60	-	0,66
	48116085	3	16	1610	26	16	-	60	-	0,84
90	48108090	4	8	1610	26	3	70	-	-	0,62
	48112090	3	12	1610	26	6,5	-	74	-	0,76
	48116090	3	16	1610	26	16	-	74	-	0,87
95	48108095	4	8	1610	26	3	82	-	-	0,78
	48112095	3	12	1610	26	6,5	-	74	-	0,93
	48116095	3	16	1610	26	16	-	74	-	1,08
100	48108100	4	8	1610	26	3	82	-	-	0,90
	48112100	3	12	1610	26	6,5	-	74	-	1,10
	48116100	3	16	1610	26	16	-	74	-	1,32

De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	d	WEIGHT Kg.
106	48108106	4	8	1610	26	3	82	-	-	1,05
	48112106	3	12	1610	26	6,5	-	88	-	1,24
	48116106	3	16	1610	26	16	-	88	-	1,40
112	48108112	4	8	1610	26	3	90	-	-	1,25
	48112112	3	12	1610	26	6,5	-	88	-	1,47
	48116112	3	16	1610	26	16	-	88	-	1,70
118	48108118	4	8	1610	26	3	90	-	-	1,43
	48112118	3	12	2012	32	0,5	-	98	-	1,55
	48116118	3	16	2012	32	10	-	98	-	1,79
125	48108125	4	8	1610	26	3	90	-	-	1,64
	48112125	3	12	2012	32	0,5	-	98	-	1,90
	48116125	3	16	2012	32	10	-	98	-	2,18
132	48108132	4	8	1610	26	3	90	-	-	1,88
	48112132	3	12	2012	32	0,5	-	98	-	2,21
	48116132	3	16	2012	32	10	-	98	-	2,60
140	48108140	4	8	1610	26	3	90	-	-	1,60
	48112140	4	12	2517	45	12,5	120	-	-	7,10
	48116140	4	16	2517	45	3	120	-	-	9,60
160	48108160	5	8	2012	32	4,5	110	-	-	3,01
	48112160	4	12	2517	45	12,5	120	-	-	3,80
	48116160	4	16	2517	45	3	120	-	-	4,37
180	48108180	5	8	2012	32	4,5	110	-	-	3,92
	48112180	5	12	2517	45	6,25	120	-	-	5,03
	48116180	5	16	2517	45	1,5	120	-	-	5,97
200	48108200	5	8	2012	32	4,5	110	-	-	4,88
	48112200	5	12	2517	45	6,25	120	-	-	6,40
	48116200	5	16	2517	45	1,5	120	-	-	7,75
224	48108224	5	8	2012	32	4,5	110	-	-	6,17
	48112224	5	12	2517	45	6,25	120	-	-	8,29
	48116224	5	16	2517	45	1,5	120	-	-	10,10
250	48108250	5	8	2012	32	4,5	110	-	-	7,73
	48112250	5	12	2517	45	6,25	120	-	-	1,05
	48116250	5	16	2517	45	1,5	120	-	-	1,30

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V-BELT PULLEYS PPV-J MICRO V DIMENSIONS

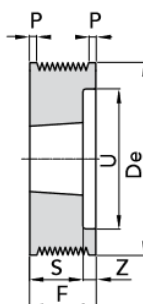


PPV-L TYPE

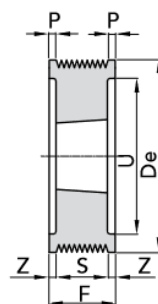
N° GROOVES

F±0.1

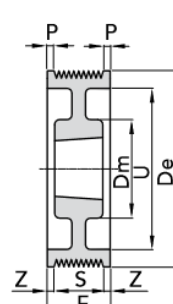
8	48	7.55
12	67	7.65
16	86	7.75



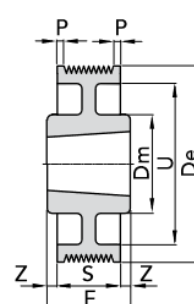
EXEC. 3



EXEC. 6



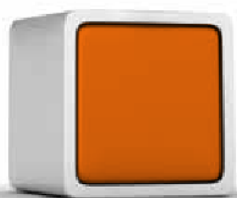
EXEC. 7



EXEC. 8

De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	WEIGHT Kg.
75	48208075	3	8	1210	26	22	-	56	0,66
	48212075	3	12	1215	42	25	-	56	0,97
80	48208080	3	8	1210	26	22	-	56	0,86
	48212080	3	12	1215	42	25	-	56	1,25
85	48208085	3	8	1210	26	22	-	61	1,00
	48212085	3	12	1215	42	25	-	61	1,47
	48216085	6	16	1215	42	22	-	61	1,76
90	48208090	3	8	1610	26	22	-	66	1,01
	48212090	3	12	1615	42	25	-	66	1,45
	48216090	6	16	1615	42	22	-	66	1,78
95	48208095	3	8	1610	26	22	-	71	1,16
	48212095	3	12	1615	42	25	-	71	1,71
	48216095	6	16	1615	42	22	-	71	2,02
100	48208100	3	8	1610	26	22	-	76	1,31
	48212100	3	12	2012	32	35	-	79	1,39
	48216100	6	16	2012	32	27	-	79	1,69
106	48208106	3	8	1610	26	22	-	82	1,53
	48212106	3	12	2012	32	35	-	82	1,76
	48216106	6	16	2012	32	27	-	82	2,12
112	48208112	3	8	1610	26	22	-	88	1,75
	48212112	3	12	2012	32	35	-	88	2,02
	48216112	6	16	2012	32	27	-	88	2,42
118	48208118	3	8	2012	32	16	-	94	1,88
	48212118	6	12	2517	45	11	-	97	1,96
	48216118	6	16	2517	45	20,5	-	97	2,31
125	48208125	3	8	2012	32	16	-	101	2,22
	48212125	6	12	2517	45	11	-	101	2,46
	48216125	6	16	2517	45	20,5	-	101	2,92
132	48208132	3	8	2012	32	16	-	108	2,54
	48212132	6	12	2517	45	11	-	108	2,97
	48216132	6	16	2517	45	20,5	-	108	3,44

De	P. NUMBER	EXEC.	N° GROOVES	BUSHE	S	Z	Dm	U	WEIGHT Kg.
140	48208140	3	8	2517	45	3	82	116	3,02
	48212140	6	12	2517	45	11	-	116	3,55
	48216140	6	16	2517	45	20,5	-	116	4,05
150	48208150	3	8	2517	45	3	-	126	3,75
	48212150	6	12	2517	45	11	-	126	4,30
	48216150	6	16	2517	45	20,5	-	126	4,85
160	48208160	3	8	2517	45	3	-	136	4,54
	48212160	6	12	2517	45	11	-	136	5,12
	48216160	6	16	3020	52	17	-	136	4,88
170	48208170	3	8	2517	45	3	-	146	5,35
	48212170	6	12	2517	45	11	-	146	6,03
	48216170	6	16	3020	52	17	-	146	5,96
180	48208180	7	8	2517	45	1,5	120	156	4,52
	48212180	7	12	2517	45	11	120	156	5,34
	48216180	6	16	3020	52	17	-	156	7,09
200	48208200	7	8	2517	45	1,5	120	176	5,07
	48212200	7	12	3020	52	7,5	146	176	6,99
	48216200	7	16	3020	52	17	146	176	7,92
224	48208224	7	8	2517	45	1,5	120	202	9,77
	48212224	7	12	3020	52	7,5	146	202	11,0
	48216224	7	16	3020	52	17	146	202	14,12
250	48208250	8	8	3020	52	2	146	228	13,12
	48212250	7	12	3020	52	7,5	146	228	15,60
	48216250	8	16	3535	89	1,5	178	228	16,13
280	48208280	8	8	3020	52	2	146	256	18,18
	48212280	7	12	3020	52	7,5	146	256	21,75
	48216280	8	16	3535	89	1,5	178	256	24,45
315	48208315	8	8	3020	52	2	146	285	24,82
	48212315	8	12	3535	89	11	178	285	42,64
	48216315	8	16	3535	89	1,5	178	285	35,34



SPECIAL COMPONENTS MANUFACTURING

We produce high precision Gears and Special Mechanical Components.

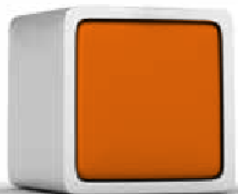
A large and varied range of modern CNC machine tools assures large capacity production at high quality level.

Chiaravalli Group SpA co-workers, highly skilful and motivated by a great spirit of belonging to the company,

operate using the most modern CAE and CAD-CAM technologies. The production is certified and assured using three-dimensional high precision measuring machines.

Chiaravalli Group SpA your technological partner for high quality production.





WORM SCREW JACKS

The new line of Worm Screw Jacks named CHT (Chiaravalli High Tech) integrates and completes our range of Mechanical Transmission products.

This new line of products is manufactured using high quality materials, manufactured with absolute precision, making use of the modern machinery fleet of the companies belonging to Chiaravalli Group SpA.

The basic elements that make up the final product "Screw Jack" are made in large series, rigorously checked and put in stock.

Special virtual software developed by Chiaravalli Group SpA enables our customers to first view the various elements of the required screw jack and then, in the second phase, to order it with absolute precision and confidence.

Chiaravalli Group SpA is engaged to ensure the delivery of this product in very short time, with quality and precision.

