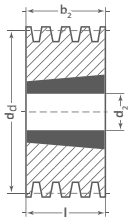
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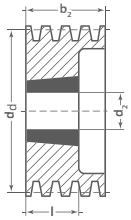
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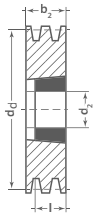
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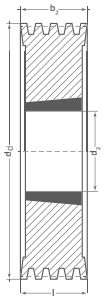
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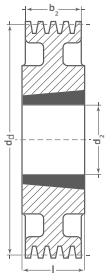
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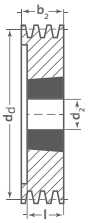
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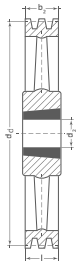
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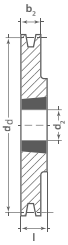
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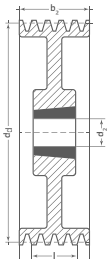
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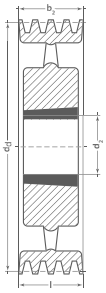
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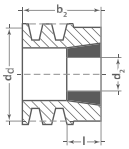
Type 11

Balancing:

The list prices apply, as per VDI 2060, to cast iron pulleys balanced in one plane as follows: Grade G 16 for Ø $d_d \leq 400$ mm at n = 1500 rpm, for Ø $d_d >$ 400 mm at v = 30m/sec.

Balancing is carried out minus the key on a smooth mandrel. Machines where the rotors are balanced with an adjusting spring inserted in the shaft end must be ordered as follows: "Balanced with finished bore without key on a smooth mandrel without inserted spring".

We recommend balancing in two planes grade G 16 or better if v ≥ 30 m/sec. or if the ratio between datum diameter and pulley face width $d_d : b_2 < 4$ at v > 20 m/sec. Surcharges for balancing on request. Please give pulley operating speed.

We reserve the right to make technical changes.

Surcharges for finished bore H7 and keyway to DIN 6885 part 1							
Quantity	Finished bore up to 30 mm		Finished bore 31 mm to 50 mm		Finished bore 51 mm to 75 mm		Drilled and tapped for setscrews
1 to 2							
3 to 5							
6 to 10							
11 to 24							
25 to 50							
over 50							

Special pulleys and custom designed pulleys on request.

DRIVE SYSTEMS
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Supply & Service of Mechanical Power Transmission Products

optibelt KS V-Grooved Pulleys for Taper Bushings
Profile SPZ

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
TB SPZ/10					
50▲	1	●	11	0.300	1008
	2	●	11	0.400	1008
56▲	1	●	11	0.400	1008
	2	●	11	0.500	1108
60	1	●	11	0.200	1008
	2	●	11	0.600	1108
63	1	●	8	0.200	1108
	2	●	6	0.300	1108
	3	●	6	0.400	1108
67	1	●	8	0.300	1108
	2	●	6	0.400	1108
	3	●	6	0.500	1108
71	1	●	8	0.300	1108
	2	●	6	0.400	1108
	3	●	6	0.600	1108
75	1	●	8	0.400	1108
	2	●	6	0.400	1210
	3	●	6	0.500	1210
80	1	●	8	0.500	1210
	2	●	6	0.600	1210
	3	●	6	0.700	1210
	4	●	6	0.800	1210
85	1	●	8	0.600	1210
	2	●	6	0.500	1610
	3	●	6	0.600	1610
	4	●	6	0.900	1610
	5	●	6	1.000	1610
90	1	●	8	0.700	1210
	2	●	6	0.700	1610
	3	●	6	0.800	1610
	4	●	6	1.000	1610
	5	●	6	1.200	1610
95	1	●	8	0.700	1210
	2	●	6	0.800	1610
	3	●	6	0.900	1610
	4	●	6	1.100	1610
	5	●	6	1.300	1610
100	1	●	8	0.800	1210
	2	●	6	0.900	1610
	3	●	6	1.100	1610
	4	●	6	1.100	1610
	5	●	6	1.300	2012
	6*	●	6	1.400	2012
106	1	●	8	0.900	1610
	2	●	6	1.100	1610
	3	●	6	1.300	1610
	4	●	6	1.300	1610
	5	●	6	1.500	2012
	6*	●	6	1.600	2012
112	1	●	8	1.000	1610
	2	●	6	1.300	1610
	3	●	6	1.300	2012
	4	●	6	1.500	2012
	5	●	6	1.800	2012
	6*	●	6	1.900	2012
118	1	●	8	0.900	1610
	2	●	6	1.300	1610
	3	●	6	1.600	2012
	4	●	6	1.800	2012
	5	●	6	1.800	2012
	6*	●	6	2.000	2517
125	1	●	8	1.000	1610
	2	●	6	1.400	1610
	3	●	2	1.800	2012
	4	●	2	2.200	2012
	5	●	6	2.300	2012
	6*	●	6	2.500	2517
132	1	●	8	1.100	1610
	2	●	6	1.500	1610
	3	●	2	2.300	2012
	4	●	2	2.500	2012
	5	●	6	2.700	2517
	6*	●	6	2.900	2517
140	1	●	8	1.200	1610
	2	●	2	1.700	1610
	3	●	2	2.600	2012
	4	●	2	2.900	2012
	5	●	2	3.200	2517
	6*	●	2	3.500	2517
	8*	●	4	4.000	2517
150	1	●	8	1.200	1610
	2	●	8	2.000	2012
	3	●	2	3.100	2012
	4	●	2	3.700	2517
	5	●	2	4.000	2517
	6*	●	2	4.400	2517
	8*	●	4	5.100	2517
160	1	●	8	1.300	1610
	2	●	8	2.500	2012
	3	●	2	3.600	2012
	4	●	2	4.400	2517
	5	●	2	4.800	2517
	6*	●	2	5.200	2517
	8*	●	4	5.600	2517
170	1	●	8	1.500	1610
	2	●	8	2.500	2012
	3	○	9	4.200	2012
	4	●	2	5.300	2517
	5	●	2	5.900	2517
	6*	●	2	6.500	2517

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Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
180	1	●	8	1.600	1610
	2	●	8	2.500	2012
	3	○	9	4.800	2012
	4	○	9	6.100	2517
	5	○	9	6.300	2517
	6*	○	9	6.800	2517
	8*	●	4	7.100	3020
190	1	●	8	1.800	1610
	2	●	8	2.600	2012
	3	○	9	4.900	2012
	4	○	9	5.300	2517
	5	○	9	6.300	2517
	6*	○	9	6.900	2517
200	1	●	8	2.300	2012
	2	●	8	2.800	2012
	3	○	9	3.500	2012
	4	○	9	4.700	2517
	5	○	9	5.500	2517
	6*	○	9	6.100	2517
	8*	●	4	9.300	3020
224	1	○	5	2.500	2012
	2	○	5	3.200	2012
	3	○	9	3.900	2012
	4	○	9	5.200	2517
	5	○	9	6.000	2517
	6*	○	9	6.600	2517
	8*	●	4	11.800	3020
250	1	x	7	2.800	2012
	2	x	7	3.500	2012
	3	x	10	4.300	2012
	4	x	10	5.700	2517
	5	x	10	6.400	2517
	6*	x	10	7.000	2517
	8*	x	10	10.500	3020
280	1	x	7	2.900	2012
	2	x	7	4.000	2012
	3	x	7	5.300	2517
	4	x	10	6.400	2517
	5	x	10	7.100	2517
	6*	x	10	7.800	2517
	8*	x	10	10.800	3020
315	1	x	7	3.100	2012
	2	x	7	4.200	2012
	3	x	7	6.100	2517
	4	x	10	7.600	2517
	5	x	10	8.600	2517
	6*	x	10	9.300	2517

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
355	1	x	7	3.500	2012
	2	x	7	5.100	2012
	3	x	7	7.300	2517
	4	x	10	8.900	2517
	5	x	10	10.000	2517
	6*	x	10	10.700	2517
	8*	x	10	16.000	3030
400	1	x	7	6.000	2012
	2	x	7	6.300	2517
	3	x	7	8.000	2517
	4	x	10	10.100	2517
	5	x	10	11.700	3020
	6*	x	10	14.500	3020
	8*	x	10	18.200	3030
450	1	x	7	6.100	2517
	2	x	7	8.200	2517
	3	x	7	9.800	2517
	4	x	10	11.800	3020
	5	x	10	13.900	3020
	6*	x	10	16.900	3030
	8*	x	10	24.000	3535
500	2	x	7	9.100	2517
	3	x	7	11.400	2517
	4	x	10	14.300	3020
	5	x	10	17.600	3020
	6*	x	10	19.900	3020
630	3*	x	7	15.900	2517
	4*	x	10	20.000	3020
	5*	x	10	22.700	3020
	6*	x	7	33.600	3535

No. of grooves z	1	2	3	4	5	6	8
Face width b_2 (mm)	16	28	40	52	64	76	100

Taper bushing	1008	1108	1210	1610	2012	2517	3020	3535
Bore d_2 (mm) from... to...	10-25	10-28	11-32	14-42	14-50	16-60	25-75	35-90

● Solid pulley ○ Plate pulley (with or without holes) x Spoked pulley
▲ only for profile 10
Material: EN-GJL 200 - DIN EN 1561
* Non stock items
Bore diameters d_2 see page 4

DRIVE SYSTEMS

optibelt KS V-Grooved Pulleys for Taper Bushings
Profile SPA

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
TB SPA/13					
63▲	1	●	11	0.600	1108
	2	●	11	0.800	1108
67▲	1	●	8	0.300	1108
	2	●	6	0.500	1108
71▲	1	●	8	0.300	1108
	2	●	6	0.500	1108
	3	●	6	0.700	1108
75▲	1	●	8	0.400	1108
	2	●	6	0.600	1108
	3	●	6	0.800	1108
80▲	1	●	8	0.500	1210
	2	●	6	0.600	1210
	3	●	6	0.900	1210
85	1	●	8	0.600	1210
	2	●	6	0.700	1210
	3	●	6	1.000	1210
90	1	●	8	0.700	1210
	2	●	6	0.700	1610
	3	●	6	1.000	1610
	4	●	6	1.200	1615
95	1	●	8	0.800	1210
	2	●	6	0.900	1610
	3	●	6	1.100	1610
	4	●	6	1.400	1615
100	1	●	8	0.800	1610
	2	●	6	0.900	1610
	3	●	2	1.200	1610
	4	●	2	1.700	1610
	5	●	6	1.900	1610
106	1	●	8	0.900	1610
	2	●	6	1.100	1610
	3	●	2	1.400	1610
	4	●	6	2.000	2012
	5	●	6	2.000	2012
112	1	●	8	1.000	1610
	2	●	6	1.200	1610
	3	●	6	1.300	2012
	4	●	6	1.900	2012
	5	●	6	2.100	2012
118	1	●	8	1.200	1610
	2	●	6	1.400	1610
	3	●	2	1.800	2012
	4	●	2	2.000	2012
	5	●	2	2.400	2012
125	1	●	8	1.400	1610
	2	●	2	1.700	1610
	3	●	2	2.000	2012
	4	●	2	2.500	2012
	5	●	2	2.700	2012
132	1	●	8	1.600	1610
	2	●	2	1.800	2012
	3	●	2	2.300	2012
	4	●	2	2.600	2517
	5	●	2	2.900	2517
140	1	●	8	1.800	1610
	2	●	2	2.000	2012
	3	●	2	2.800	2517
	4	●	2	3.100	2517
	5	●	2	3.400	2517
150	1	●	8	1.400	1610
	2	●	2	2.400	2012
	3	●	2	3.500	2517
	4	●	2	3.800	2517
	5	●	2	4.200	2517
160	1	○	5	1.900	1610
	2	●	2	2.900	2012
	3	●	2	3.900	2517
	4	●	2	4.400	2517
	5	●	2	5.100	2517
170	1	○	5	2.000	1610
	2	●	2	3.100	2012
	3	●	2	4.600	2517
	4	●	2	5.500	2517
	5	●	2	5.900	3020
180	1	○	5	2.100	1610
	2	○	9	3.400	2012
	3	●	2	5.100	2517
	4	●	2	5.900	2517
	5	●	2	6.200	3020
190	1	○	5	2.300	1610
	2	○	9	3.800	2012
	3	●	2	5.400	2517
	4	●	2	6.800	2517
	5	●	2	7.400	3020
200	1	○	5	2.600	2012
	2	○	5	4.100	2517
	3	○	9	4.900	2517
	4	●	2	7.400	3020
	5	●	4	8.400	3020
212	1	○	5	2.700	2012
	2	○	5	4.300	2517
	3	○	9	5.200	2517
	4	●	2	7.300	3020
	5	●	2	8.200	3020
224	1	x	7	2.700	2012
	2	○	5	4.400	2517
	3	○	9	5.500	2517
	4	●	2	7.400	3020
	5	●	2	8.300	3020

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Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
236	1	x	7	2.800	2012
	2	○	5	4.600	2517
	3	○	9	5.700	2517
	4	●	2	7.800	3020
	5	●	2	8.700	3020
250	1	x	7	2.900	2012
	2	x	7	4.800	2517
	3	○	9	5.900	2517
	4	○	9	8.000	3020
	5	○	9	9.000	3020
280	1	x	7	3.300	2012
	2	x	7	5.400	2517
	3	○	9	6.700	2517
	4	○	9	8.800	3020
	5	○	5	15.500	3535
315	1	x	7	3.600	2012
	2	x	7	6.000	2517
	3	○	5	8.300	3020
	4	○	9	9.700	3020
	5	○	5	17.000	3535
355	1	x	7	4.200	2012
	2	x	7	6.700	2517
	3	x	7	9.200	3020
	4	x	10	11.000	3020
	5	x	7	18.600	3535
400	1	x	7	4.900	2012
	2	x	7	8.100	2517
	3	x	7	11.000	3020
	4	x	10	12.800	3020
	5	x	7	21.000	3535
450	1	x	7	7.000	2012
	2	x	7	10.300	2517
	3	x	7	14.100	3020
	4	x	10	15.500	3020
	5	x	7	24.300	3535
500	1	x	7	8.000	2517
	2	x	7	11.600	2517
	3	x	7	16.000	3020
	4	x	10	18.200	3020
	5	x	7	27.300	3535
560	1	x	7	11.600	2517
	2	x	7	15.500	3020
	3	x	7	17.800	3020
	4	x	7	26.700	3535
	5	x	7	30.400	3535
630	1	x	7	10.100	2517
	2	x	7	16.000	3020
	3	x	7	22.000	3020
	4	x	7	30.800	3535
	5	x	7	33.700	3535

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing

No. of grooves z	1	2	3	4	5
Face width b_2 (mm)	20	35	50	65	80

Taper bushing	1180	1210	1610	1615	2012	2517	3020	3535
Bore d_2 (mm) from... to..	10-28	11-32	14-42	14-42	14-50	26-60	25-75	35-90

● Solid pulley ○ Plate pulley (with or without holes) x Spoked pulley
▲ only for profile 13
Material: EN-GJL 200 - DIN EN 1561
Bore diameters d_2 see page 4

DRIVE SYSTEMS

optibelt KS V-Grooved Pulleys for Taper Bushings
Profile SPB

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
TB SPB/17					
100▲	1	●	1	0.900	1610
	2	●	6	1.200	1610
	3	●	6	1.700	1610
112▲	1	●	1	1.100	1610
	2	●	6	1.500	1610
	3	●	6	2.000	1610
118▲	1	●	1	1.300	1610
	2	●	6	1.700	1610
	3	●	6	2.300	1610
125▲	1	●	1	1.500	1610
	2	●	2	1.900	2012
	3	●	2	2.400	2012
	4	●	4	3.000	2012
	5	●	6	3.500	2012
132▲	1	●	1	1.800	1610
	2	●	2	2.200	2012
	3	●	2	2.800	2012
	4	●	4	3.400	2012
	5	●	4	3.700	2012
140	1	●	1	2.300	1610
	2	●	2	2.700	2012
	3	●	2	3.300	2012
	4	●	2	3.700	2517
	5	●	2	4.500	2517
	6	●	4	4.600	2517
150	1	●	1	2.700	1610
	2	●	2	3.100	2012
	3	●	2	3.900	2517
	4	●	2	4.400	2517
	5	●	4	5.200	2517
	6	●	4	5.600	2517
160	1	●	1	2.500	1610
	2	●	2	2.900	2012
	3	●	2	4.200	2517
	4	●	4	4.900	2517
	5	●	4	6.000	2517
	6	●	4	5.400	3020
170	1	●	1	2.900	1610
	2	●	2	3.300	2012
	3	●	2	4.900	2517
	4	●	4	5.700	2517
	5	●	4	6.100	3020
	6	●	4	6.500	3020
	8	●	4	8.000	3020
180	1	●	1	4.100	1610
	2	●	8	4.500	2517
	3	●	2	5.500	2517
	4	●	4	6.900	2517
	5	●	4	7.100	3020
	6	●	4	7.700	3020
	8	●	4	9.500	3020
190	1	●	8	4.600	2012
	2	●	8	5.000	2517
	3	●	2	6.300	2517
	4	●	4	7.600	2517
	5	●	4	8.100	3020
	6	●	4	9.200	3020
	8	●	4	11.200	3030
200	1	●	8	5.000	2012
	2	●	8	5.400	2517
	3	●	2	6.500	2517
	4	●	2	8.800	3020
	5	●	2	9.100	3020
	6	●	4	10.300	3020
	8	●	4	13.500	3535
212	1	●	8	4.200	2012
	2	●	8	4.900	2517
	3	●	2	6.000	2517
	4	●	2	9.800	3020
	5	●	2	11.000	3020
	6	●	4	14.300	3535
	8	●	4	16.600	3535
224	1	●	8	4.700	2012
	2	●	8	5.300	2517
	3	●	2	6.300	2517
	4	●	2	11.300	3020
	5	●	2	12.700	3020
	6	●	4	17.000	3535
	8	●	4	19.300	3535
	10	●	4	21.800	3535
236	1	●	8	5.000	2012
	2	●	8	5.500	2517
	3	x	10	7.000	2517
	4	x	10	14.500	3020
	5	●	6	16.900	3535
	6	●	4	20.000	3535
	8	●	4	22.300	3535
	10	●	4	25.300	3535

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Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
250	1	●	8	5.400	2012
	2	x	7	5.500	2517
	3	●	2	7.700	3020
	4	●	2	19.600	3020
	5	●	4	21.700	3535
	6	●	4	23.300	3535
	8	●	4	27.500	3535
	10	●	4	29.300	3535
265	2	●	7	6.200	2517
	3	○	9	8.000	3020
	4	○	9	9.500	3020
	6	○	9	16.700	3525
	8	○	9	24.000	3525
280	1	x	7	6.100	2012
	2	x	7	6.800	2517
	3	x	10	8.600	3020
	4	○	9	10.100	3020
	5	○	9	17.800	3535
	6	○	9	19.600	3535
	8	○	9	26.700	3535
	10	○	9	30.500	3535
300	2	x	7	7.300	2517
	3	x	10	9.200	3020
	4	○	9	14.300	3020
	5	○	9	18.200	3535
	6	○	9	21.900	3535
	8	○	9	26.200	3535
315	1	x	7	7.200	2012
	2	x	7	7.800	2517
	3	x	10	9.600	3020
	4	○	5	17.100	3535
	5	○	9	18.800	3535
	6	○	9	23.000	3535
	8	○	9	26.000	3535
	10	○	9	31.500	3535
335	2	x	7	7.800	2517
	3	x	10	10.500	3020
	4	x	7	18.300	3535
	5	x	10	19.500	3535
	6	x	10	22.000	3535
	8	x	10	28.200	3535
	10*	x	10	36.000	4040
355	2	x	7	8.700	3020
	3	x	10	10.800	3020
	4	x	7	18.600	3535
	5	x	10	20.800	3535
	6	○	9	22.800	3535
	8	x	10	27.000	3535
	10*	x	10	38.000	4040

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
375	2	x	7	9.500	3020
	3	x	10	11.500	3020
	4	x	10	16.500	3525
	6	x	10	25.000	3535
	8	x	10	28.000	4040
400	2	x	7	10.000	3020
	3	x	7	18.300	3535
	4	x	7	20.500	3535
	5	x	10	23.400	3535
	6	x	10	25.100	3535
	8	x	10	36.500	4040
	10*	x	10	41.000	4040
425	2	x	7	11.500	3020
	3	x	7	18.000	3535
	4	x	7	19.500	3535
	6	x	10	25.100	4040
	8	x	10	52.500	4545
450	2	x	7	12.100	3020
	3	x	7	21.900	3535
	4	x	7	24.500	3535
	5	x	10	27.300	3535
	6	x	10	35.500	4040
	8	x	10	40.900	4040
	10*	x	10	53.500	4545
500	2	x	7	13.200	3020
	3	x	7	23.100	3535
	4	x	7	26.600	3535
	5	x	10	29.900	3535
	6	x	10	38.900	4040
	8	x	10	45.500	4040
	10*	x	10	61.000	4545
560	2	x	7	16.500	3030
	3	x	7	25.900	3535
	4	x	7	29.000	3535
	5	x	7	35.300	4040
	6	x	10	43.100	4040
	8	x	10	49.000	4545
	10*	x	10	55.700	4545
630	2	x	7	18.500	3020
	3	x	7	28.900	3535
	4	x	7	33.300	3535
	5	x	7	43.100	4040
	6	x	10	49.200	4040
	8	x	10	62.000	4545
	10*	x	10	72.000	4545
710	3	x	7	33.200	3535
	4	x	7	39.100	3535
	5	x	7	50.200	4040
	6	x	10	62.300	4545
	8	x	10	71.000	4545
	10*	x	10	80.000	4545

DRIVE SYSTEMS

optibelt KS V-Grooved Pulleys for Taper Bushings
Profile SPB

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
800	3	x	7	36.700	3535
	4	x	7	48.800	4040
	5	x	7	56.100	4040
	6	x	10	71.400	4545
	8	x	10	90.900	4545
	10*	x	10	102.000	4545
900	3	x	7	46.800	3535
	4	x	7	60.000	4040
	5	x	7	74.800	4545
	6	x	10	81.500	4545
	8	x	10	110.000	4545
	10*	x	10	126.000	5050
1000	3	x	7	56.500	4040
	4	x	7	66.500	4040
	5	x	7	80.500	4545
	6	x	10	90.000	4545
	8	x	10	132.000	5050
	10*	x	10	147.000	5050

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing

No. of grooves z	1	2	3	4	5	6	8	10
Face width b_2 (mm)	25	44	63	82	101	120	158	196

Taper bushing	1610	2012	2517	3020	3030	3535	4040	4545	5050
Bore d_2 (mm) from ... to ...	14-42	14-40	16-60	25-75	35-75	35-90	40-100	55-110	70-125

● Solid pulley ○ Plate pulley (with or without holes) x Spoked pulley
Material: EN-GJL 200 - DIN EN 1561
▲ only for profile 17
* Non stock items
Bore diameters d_2 see page 4

DRIVE SYSTEMS

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
TB SPC/22					
200▲	3	●	4	9.000	2517
	4	●	4	10.500	3020
	5	●	4	14.000	3535
	6	●	4	17.000	3535
212▲	3	●	4	10.000	3020
	4	●	4	12.500	3020
	5	●	4	15.000	3535
	6	●	4	18.000	3535
224	2	●	4	8.100	3020
	3	●	4	11.000	3020
	4	●	4	14.000	3535
	5	●	4	16.200	3535
	6	●	4	19.000	3535
	8	●	4	24.900	3535
236	3	●	4	12.000	3020
	4	●	4	17.200	3535
	5	●	4	19.100	3535
	6	●	4	20.800	3535
	8	●	4	25.500	3535
250	2	●	4	9.800	3020
	3	●	4	14.500	3020
	4	●	4	20.700	3535
	5	●	4	22.800	3535
	6	●	4	26.000	3535
	8	●	4	29.700	3535
	10*	●	4	34.000	4040
265	3	●	8	21.200	3535
	4	○	9	24.000	3535
	5	○	9	31.200	3535
	6	○	9	29.000	3535
	8	○	9	33.300	3535
280	3	●	8	24.000	3535
	4	○	9	29.000	3535
	5	○	9	31.000	3535
	6	○	9	33.800	3535
	8	○	9	375.000	3535
	10*	○	9	45.000	4040
300	3	○	5	21.000	3535
	4	○	9	25.000	3535
	5	○	9	28.500	3535
	6	○	9	29.000	3535
	8	●	4	46.500	4040
	10*	○	9	53.500	4545
315	3	○	5	21.600	3535
	4	○	9	24.600	3535
	5	○	9	29.000	3535
	6	○	9	31.400	3535
	8	●	4	50.000	4040
	10*	○	9	58.000	4545
335	3	○	5	22.500	3535
	4	○	9	26.500	3535
	5	○	9	30.000	3535
	6	○	9	35.000	3535
	8	○	9	58.000	4040
355	3	○	5	22.900	3535
	4	○	9	28.300	3535
	5	○	9	32.500	3535
	6	○	9	36.000	3535
	8	○	9	67.500	4040
	10*	○	9	121.000	4545
375	3	○	5	23.800	3535
	4	○	9	30.000	3535
	5	○	9	33.000	3535
	6	○	9	45.500	4040
	8	○	9	68.000	4545
400	3	x	7	24.100	3535
	4	x	10	28.000	3535
	5	x	10	34.000	3535
	6	○	9	48.000	4040
	8	○	9	65.000	4545
	10*	○	9	88.000	5050
425	3	x	7	26.000	3535
	4	x	10	31.000	3535
	5	○	9	45.000	4040
	6	○	9	58.000	4545
	8	○	9	74.000	4545
450	3	x	7	28.600	3535
	4	x	10	33.500	3535
	5	x	10	45.000	4040
	6	○	9	61.100	4545
	8	○	9	78.700	5050
	10*	○	9	101.000	5050
475	3	x	7	40.000	3535
	4	x	10	47.000	3535
	5	x	10	47.200	4040
	6	○	9	62.800	4545
	8	○	9	81.500	5050
500	3	x	7	30.900	3535
	4	x	10	39.000	3535
	5	x	10	48.700	4040
	6	x	10	60.200	4545
	8	○	9	87.400	5050
	10*	○	9	127.000	5050
560	3	x	7	36.000	3535
	4	x	10	50.000	4040
	5	x	10	63.000	4545
	6	x	10	77.000	5050
	8	x	10	94.000	5050
	10	○	9	115.000	5050

DRIVE SYSTEMS

optibelt KS V-Grooved Pulleys for Taper Bushings
Profile SPC

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing
630	3	x	7	48.500	4040
	4	x	7	61.000	4545
	5	x	10	77.000	5050
	6	x	10	86.000	5050
	8	x	10	105.500	5050
	10*	○	9	130.000	5050
710	3	x	7	62.500	4040
	4	x	7	78.600	4545
	5	x	10	89.600	5050
	6	x	10	99.400	5050
	8	x	10	117.500	5050
	10*	○	9	137.100	5050
800	3	x	7	72.000	4545
	4	x	7	90.800	5050
	5	x	10	102.500	5050
	6	x	10	113.700	5050
	8	x	10	136.600	5050
	10*	○	9	160.700	5050
1000	5	x	10	134.000	5050
	6	x	10	150.000	5050
	8	x	10	181.400	5050
	10*	○	9	217.200	5050
1250	5	x	10	177.600	5050
	6	x	10	201.400	5050
	8	x	10	243.700	5050
	10*	○	9	292.100	5050

Datum diameter d_d (mm)	No. of grooves	Type	Type No.	Weight without bushing (≈kg)	Taper bushing

No. of grooves z	2	3	4	5	6	8	10
Face width b_2 (mm)	59.50	85.00	110.50	136.00	161.50	212.50	263.50

Taper bushing	2517	3020	3535	4040	4545	5050
Bore d_2 (mm) from ... to ...	16-60	25-75	35-90	40-100	55-110	70-125

● Solid pulley ○ Plate pulley (with or without holes) x Spoked pulley
Material: EN-GJL 200 - DIN EN 1561
▲ only for profile 22
* Non stock items
Bore diameters d_2 see page 4

DRIVE SYSTEMS

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
SPZ/10					
45▲	1	○	0.200	16	24
	2	○	0.300	16	35
	3	○	0.400	16	35
50▲	1	○	0.300	20	24
	2	○	0.400	20	35
	3	○	0.500	20	40
56▲	1	○	0.300	20	24
	2	○	0.500	25	35
	3	○	0.700	25	40
63	1	○	0.300	25	24
	2	○	0.600	25	35
	3	○	0.900	25	40
71	1	○	0.300	25	24
	2	○	0.600	25	35
	3	○	1.000	30	40
75	1	○	0.400	24	24
	2	○	0.600	24	35
	3	○	1.100	28	40
80	1	○	0.400	25	24
	2	○	0.700	30	35
	3	○	1.100	38	35
85	1	○	0.300	25	24
	2	○	0.700	30	35
	3	○	1.100	38	35
90	1	○	0.400	25	24
	2	○	0.800	30	35
	3	○	1.200	38	38
95	1	○	0.400	28	24
	2	○	0.800	28	35
	3	○	1.200	38	38
100	1	○	0.500	28	24
	2	○	0.900	30	35
	3	○	1.300	38	38
106	1	○	0.500	30	24
	2	○	1.000	28	35
	3	○	1.300	38	38
112	1	○	0.500	28	24
	2	○	1.000	30	35
	3	○	1.400	38	38
118	1	○	0.600	28	24
	2	○	1.100	38	35
	3	○	1.500	38	38
125	1	○	0.700	28	24
	2	○	1.200	38	35
	3	○	1.600	38	40
132	1	○	0.800	30	24
	2	○	1.300	38	35
	3	○	1.600	40	40
140	1	○	0.900	28	24
	2	○	1.400	38	38
	3	○	1.700	38	40
150	1	x	1.100	28	24
	2	○	1.500	38	38
	3	○	1.900	38	40
160	1	x	1.200	32	30
	2	x	1.600	38	38
	3	x	2.400	42	40
170	1	x	1.700	40	30
	2	x	1.900	40	38
	3	x	3.000	42	40
180	1	x	2.100	32	30
	2	x	3.100	38	38
	3	x	3.500	42	40
190	1	x	2.300	35	30
	2	x	2.400	35	38
	3	x	4.000	35	40
200	1	x	2.400	32	38
	2	x	2.900	38	38
	3	x	4.500	42	40
212	1	x	2.600	35	30
	2	x	3.400	35	38
	3	x	5.000	38	40
225	1	x	2.800	32	38
	2	x	4.000	38	38
	3	x	5.300	42	40
250	1	x	3.300	32	38
	2	x	4.800	38	38
	3	x	6.000	42	40
280	1	x	3.900	35	34
	2	x	5.200	42	38
	3	x	7.000	48	40
315	1	x	4.400	35	34
	2	x	6.800	42	38
	3	x	8.300	48	40
355	1	x	4.600	35	34
	2	x	8.000	42	40
	3	x	10.000	48	45

No. of grooves z	1	2	3
Face width b_2 (mm)	16	28	40

● Soild pulley ○ Plate pulley (with or without holes) x Spoked pulley
▲ only for profile 10
Hub position: one side flush
Material: EN-GJL 200 - DIN EN 1561

DRIVE SYSTEMS

optibelt KS V-Grooved Pulleys for Plain Boring
Profile SPA

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
SPA/13					
50▲	1	○	0.300	18	34
	2	○	0.500	18	49
	3	○	0.600	18	47
56▲	1	○	0.400	20	34
	2	○	0.600	20	49
	3	○	0.700	20	47
63▲	1	○	0.500	25	34
	2	○	0.800	25	49
	3	○	0.900	25	47
	4	○	1.200	25	60
	5	○	1.500	25	70
71▲	1	○	0.500	25	34
	2	○	0.900	28	49
	3	○	1.000	32	42
	4	○	1.500	32	60
	5	○	1.800	32	70
75▲	1	○	0.500	24	34
	2	○	1.000	24	49
	3	○	1.100	24	42
	4	○	1.800	24	60
	5	○	1.900	28	82
80▲	1	○	0.600	28	34
	2	○	1.000	32	49
	3	○	1.200	38	42
	4	○	1.900	38	60
	5	○	2.000	38	55
85	1	○	0.600	24	34
	2	○	1.200	28	49
	3	○	1.400	28	42
	4	○	2.000	28	53
	5	○	2.200	32	55
90	1	○	0.900	28	34
	2	○	1.500	32	49
	3	○	1.600	38	42
	4	○	2.200	42	53
	5	○	2.500	42	67
95	1	○	0.800	28	34
	2	○	1.600	28	49
	3	○	1.900	28	42
	4	○	2.500	32	53
	5	○	2.800	35	67
100	1	○	0.800	28	34
	2	○	1.400	32	49
	3	○	2.000	38	42
	4	○	2.700	42	53
	5	○	3.100	42	60
106	1	○	0.900	28	34
	2	○	1.700	28	49
	3	○	2.200	32	42
	4	○	3.200	32	53
	5	○	3.900	35	60
112	1	○	1.100	28	34
	2	○	1.800	38	49
	3	○	2.400	38	42
	4	○	3.400	42	53
	5	○	4.000	42	60
118	1	○	1.100	32	34
	2	○	1.800	38	49
	3	○	2.400	42	42
	4	○	3.400	42	53
	5	○	4.100	48	65
125	1	○	1.400	32	34
	2	○	1.900	38	49
	3	○	2.600	42	42
	4	○	3.500	42	53
	5	○	4.400	48	65
132	1	○	1.500	32	34
	2	○	2.200	38	49
	3	○	2.600	42	42
	4	○	3.600	42	53
	5	○	4.800	48	65
140	1	○	1.500	32	34
	2	○	2.300	38	49
	3	○	2.600	42	42
	4	○	3.700	42	53
	5	○	5.000	48	65
150	1	x	1.600	38	36
	2	x	2.600	38	49
	3	○	3.000	42	42
	4	○	4.000	42	53
	5	○	5.200	48	65
160	1	x	1.800	38	36
	2	x	2.400	38	49
	3	x	2.800	42	42
	4	○	3.600	48	60
	5	○	5.500	48	70
170	1	x	2.000	35	36
	2	x	2.900	35	49
	3	x	3.200	35	42
	4	x	4.200	35	60
	5	x	5.800	38	70
180	1	x	2.000	38	36
	2	x	3.200	42	49
	3	x	3.600	42	42
	4	x	4.700	48	60
	5	x	6.100	48	70

DRIVE SYSTEMS

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
190	1	x	2.000	38	36
	2	x	3.200	42	49
	3	x	4.000	42	42
	4	x	5.200	48	60
	5	x	6.300	48	70
200	1	x	2.400	38	36
	2	x	2.900	42	49
	3	x	4.200	48	42
	4	x	5.000	55	60
	5	x	6.500	55	70
212	1	x	2.700	40	36
	2	x	3.400	42	49
	3	x	4.400	42	42
	4	x	5.700	42	60
	5	x	6.900	42	70
225	1	x	2.800	40	36
	2	x	3.900	42	49
	3	x	4.600	42	42
	4	x	6.500	42	60
	5	x	7.300	42	70
236	1	x	3.300	38	36
	2	x	4.100	42	49
	3	x	4.900	48	47
	4	x	6.200	55	60
	5	x	7.500	55	70
250	1	x	3.400	42	36
	2	x	4.300	48	49
	3	x	5.300	48	47
	4	x	7.000	55	60
	5	x	7.900	60	70
280	1	x	3.900	42	44
	2	x	5.400	48	53
	3	x	6.500	48	47
	4	x	8.500	55	60
	5	x	9.900	60	70
300	1	x	4.300	48	44
	2	x	5.900	48	53
	3	x	7.500	55	47
	4	x	9.800	55	60
	5	x	11.300	60	70
315	1	x	4.800	48	44
	2	x	6.600	48	53
	3	x	8.800	55	47
	4	x	11.100	55	60
	5	x	10.500	60	70
355	1	x	5.500	48	44
	2	x	7.700	55	53
	3	x	9.600	55	47
	4	x	11.800	55	60
	5	x	13.800	60	70

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
400	1	x	6.900	50	50
	2	x	8.800	55	53
	3	x	10.500	60	47
	4	x	12.400	60	67
	5	x	15.900	60	82
450	1	x	7.500	55	50
	2	x	9.400	55	53
	3	x	12.200	60	47
	4	x	14.200	65	67
	5	x	18.300	65	82
500	1	x	10.500	55	50
	2	x	10.700	55	55
	3	x	13.500	60	60
	4	x	16.300	65	67
	5	x	22.800	65	82
560	1	x	14.000	55	60
	2	x	13.100	55	60
	3	x	15.600	60	74
	4	x	19.400	65	67
	5	x	24.500	65	82

No. of grooves z	1	2	3	4	5
Face width b_2 (mm)	20	35	50	67	82

● Solid pulley ○ Plate pulley (with or without holes) x Spoked pulley
▲ only for profile 13
Hub position: one side flush
Material: EN-GJL 200 - DIN EN 1561

DRIVE SYSTEMS

optibelt KS V-Grooved Pulleys for Plain Boring
Profile SPB

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
SPB/17					
56▲	1	○	0.600	20	41
	2	○	1.000	20	60
	3	○	1.100	22	62
63▲	1	○	0.800	20	41
	2	○	1.200	20	60
	3	○	1.200	22	62
71▲	1	○	0.800	22	41
	2	○	1.300	22	60
	3	○	1.600	22	55
75▲	1	○	0.800	25	41
	2	○	1.400	25	60
	3	○	1.900	25	62
80▲	1	○	1.000	28	41
	2	○	1.700	28	60
	3	○	2.100	28	55
	4	○	2.400	28	70
	5	○	2.700	28	80
85▲	1	○	1.100	30	41
	2	○	1.700	30	60
	3	○	2.200	30	55
	4	○	2.700	30	70
	5	○	3.000	30	75
90▲	1	○	1.200	32	41
	2	○	1.800	38	60
	3	○	2.300	38	55
	4	○	3.100	38	70
	5	○	3.300	38	75
95▲	1	○	1.300	35	41
	2	○	2.000	38	60
	3	○	2.500	38	67
	4	○	2.900	38	70
	5	○	3.600	38	75
100▲	1	○	1.300	32	41
	2	○	2.100	38	60
	3	○	2.900	38	55
	4	○	3.800	38	70
	5	○	4.500	38	75
	6	○	5.200	38	124
106▲	1	○	1.500	28	41
	2	○	2.000	28	60
	3	○	3.000	30	55
	4	○	4.300	30	70
	5	○	5.100	32	75
	6	○	6.000	32	124
112▲	1	○	1.500	32	41
	2	○	2.400	38	60
	3	○	3.100	38	55
	4	○	4.800	42	67
	5	○	5.600	42	75
	6	○	6.200	42	85
118▲	1	○	1.600	32	41
	2	○	2.400	38	60
	3	○	3.200	42	55
	4	○	5.200	42	70
	5	○	7.200	42	75
	6	○	6.600	42	85
125▲	1	○	1.700	32	41
	2	○	2.600	38	60
	3	○	3.300	42	55
	4	○	4.700	42	70
	5	○	8.600	42	75
	6	○	8.000	48	85
132▲	1	○	1.900	30	41
	2	○	2.600	30	60
	3	○	3.500	42	55
	4	○	6.300	42	70
	5	○	9.400	42	75
	6	○	8.500	42	85
140	1	○	2.100	32	41
	2	○	2.900	38	60
	3	○	3.900	42	55
	4	○	6.900	42	70
	5	○	7.600	48	75
	6	○	11.400	48	85
150	1	○	2.400	32	43
	2	○	3.200	38	48
	3	○	4.300	42	60
	4	○	6.800	42	70
	5	○	8.400	48	75
	6	○	12.100	48	85
160	1	x	2.500	38	43
	2	x	3.300	42	48
	3	x	4.600	48	60
	4	○	7.000	48	70
	5	○	9.400	48	75
	6	○	12.900	55	85
170	1	x	2.900	42	43
	2	x	3.400	42	48
	3	x	4.900	42	60
	4	○	7.200	48	70
	5	○	8.900	48	75
	6	○	13.100	48	85
180	1	x	3.100	38	43
	2	x	3.900	42	48
	3	x	5.300	48	60
	4	x	7.400	48	70
	5	○	9.100	55	75
	6	○	10.800	60	85

DRIVE SYSTEMS

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
190	1	x	3.200	42	43
	2	x	4.200	42	48
	3	x	5.500	42	60
	4	x	7.700	48	70
	5	○	9.200	50	75
	6	○	12.000	55	85
200	1	x	3.400	38	43
	2	x	4.500	42	48
	3	x	5.900	48	60
	4	x	8.000	50	60
	5	○	9.500	55	80
	6	○	12.200	60	90
212	1	x	3.800	42	43
	2	x	4.700	42	48
	3	x	6.200	48	60
	4	x	7.700	50	70
	5	x	10.300	50	80
	6	○	13.500	55	90
225	1	x	4.000	42	43
	2	x	5.400	42	48
	3	x	6.900	48	60
	4	x	8.600	55	70
	5	○	11.700	50	90
	6	○	14.800	55	90
250	1	x	4.200	42	43
	2	x	6.100	48	55
	3	x	8.600	55	60
	4	x	9.800	60	70
	5	x	13.200	65	80
	6	x	17.000	65	90
280	1	x	5.700	48	49
	2	x	7.000	48	55
	3	x	9.700	55	60
	4	x	11.500	60	70
	5	x	15.500	65	80
	6	x	18.000	65	90
300	1	x	5.900	48	49
	2	x	7.500	48	55
	3	x	10.500	55	67
	4	x	12.400	60	80
	5	x	16.500	65	80
	6	x	18.300	70	90
315	1	x	6.400	48	49
	2	x	8.200	55	55
	3	x	12.900	55	67
	4	x	13.000	60	80
	5	x	17.600	65	80
	6	x	20.600	75	90

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
355	1	x	7.000	48	49
	2	x	9.700	55	55
	3	x	13.400	55	67
	4	x	18.300	60	80
	5	x	18.800	65	75
	6	x	19.800	75	90
400	1	x	8.500	50	49
	2	x	10.000	55	55
	3	x	14.300	60	67
	4	x	18.500	65	80
	5	x	22.500	70	85
	6	x	28.000	75	90
450	1	x	9.900	50	55
	2	x	10.900	55	55
	3	x	15.100	60	67
	4	x	20.500	65	80
	5	x	26.000	70	80
	6	x	28.900	75	90
500	1	x	10.700	50	55
	2	x	13.700	60	59
	3	x	15.200	65	67
	4	x	21.300	70	80
	5	x	30.000	75	80
	6	x	33.800	80	90
560	2	x	15.000	60	55
	3	x	24.200	65	67
	4	x	26.000	70	80
	5	x	34.400	75	80
	6	x	39.000	80	90
630	2	x	20.200	60	80
	3	x	27.000	65	80
	4	x	30.800	75	86
	5	x	37.200	80	90
	6	x	44.000	90	100

No. of grooves z	1	2	3	4	5	6
Face width b_2 (mm)	25	44	63	86	105	124

● Solid pulley ○ Plate pulley (with or without holes) x Spoked pulley
▲ only for profile 17
Hub position: one side flush
Material: EN-GJL 200 - DIN EN 1561

DRIVE SYSTEMS

optibelt KS V-Grooved Pulleys for Plain Boring
Profile SPC

Datum diameter d_d (mm)	No. of grooves	Type	Weight (≈kg)	Finished bore hole d_{max} (mm)	Hub length l (mm)
SPC/22					
180	1*	○	4.200	40	54
	2*	○	7.200	50	64
	3*	○	10.400	55	90
	4*	○	10.500	55	95
	5*	○	18.000	60	100
	6*	○	23.600	65	115
200	1*	○	4.800	40	54
	2*	○	7.800	50	64
	3*	○	8.800	55	90
	4*	○	11.200	60	95
	5*	○	15.400	65	100
	6*	○	27.000	70	125
225	1*	x	5.500	48	54
	2*	x	7.800	52	64
	3*	x	10.600	52	90
	4*	x	13.100	55	95
	5*	x	16.700	60	100
	6*	x	35.000	60	115
250	1*	x	7.300	52	54
	2*	x	8.800	52	64
	3*	x	11.000	65	90
	4*	x	15.300	70	95
	5*	x	19.000	75	100
	6*	x	23.700	60	115
280	1*	x	8.700	52	54
	2*	x	10.900	55	64
	3*	x	15.600	70	90
	4*	x	17.500	75	95
	5*	x	20.500	75	100
315	1*	x	9.100	52	54
	2*	x	13.000	55	74
	3*	x	17.100	70	90
	4*	x	20.000	75	95
	5*	x	24.700	80	100
	6*	x	31.200	85	115
335	2*	x	14.000	55	74
	3*	x	18.300	55	90
	4*	x	22.400	60	95
	5*	x	28.300	65	100
	6*	x	34.400	75	115
355	2*	x	15.200	60	74
	3*	x	19.200	70	90
	4*	x	25.800	70	95
	5*	x	32.000	75	100
	6*	x	36.200	75	115
400	3*	x	20.600	70	90
	4*	x	28.000	70	105
	5*	x	32.000	75	100
450	2*	x	21.100	70	80
	3*	x	26.300	75	90
	4*	x	31.100	75	105
	5*	x	42.200	80	110
	6*	x	48.500	80	120
500	3*	x	28.400	75	90
	4*	x	34.100	75	105
	5*	x	48.200	80	110
	6*	x	52.500	80	120
560	3*	x	31.100	75	90
	4*	x	39.000	75	105
	5*	x	54.100	80	110
	6*	x	61.500	85	120
630	3*	x	38.500	80	90
	4*	x	48.100	80	105
	5*	x	62.200	85	110
	6*	x	73.200	85	120

No. of grooves z	1	2	3	4	5	6
Face width b_2 (mm)	38	64	90	116	142	168

● Spoild pulley ○ Plate pulley (with or without holes) x Spoked pulley
* Non stock items
Hub position: one side flush
Material: EN-GJL 200 - DIN EN 1561

DRIVE SYSTEMS