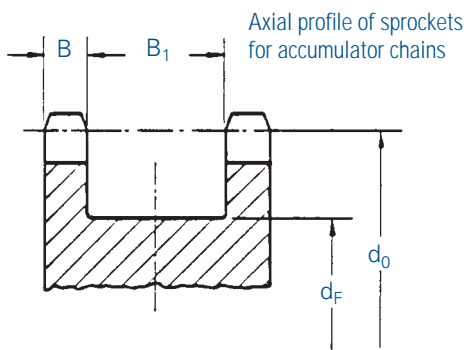




# SPROCKETS FOR ACCUMULATOR CHAINS

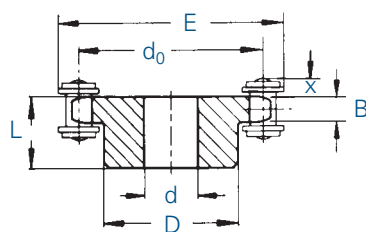
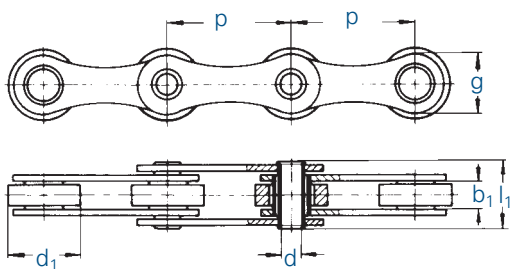


Chain	B <sub>1</sub>	B <sub>2</sub>
No.	mm	mm
513 SF	10,6	20,80
513 SFK	10,6	20,80
513 SFV	10,6	20,80
Pitch	p	= 19,05
Roller Ø	d <sub>1</sub>	= 12,00
Inner width	b <sub>1</sub>	= 11,68

Number of teeth z	PCD d <sub>0</sub>	Pilot bore Ø	Hub-Ø d <sub>F</sub> between sprockets
15 + 15	91,62	20	61
17 + 17	103,67	20	73
19 + 19	115,73	20	85

Other sprockets made of stainless steel or plastic are available on request.

# SPROCKETS FOR HOLLOW PIN CHAINS 01650

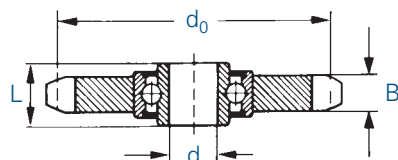
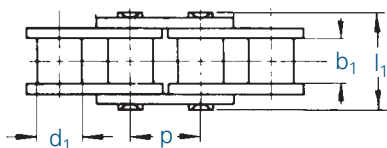


Chain	Pitch	Inner width	Roller Ø	Hollow pin Ø	Width over hollow pin	Plate height	Number of teeth	Sprocket dimensions						
								B <sub>1</sub>	d <sub>0</sub>	d	D	L	E max.	x
No.	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	mm
01650	50,8	10	30	8,2	27	26	7	9	117,08	20	80	40	148	10
01650	50,8	10	30	8,2	27	26	12	9	196,28	30	110*	50	227	10
01650	50,8	10	30	8,2	27	26	15	9	244,33	30	120*	50	275	10
01650	50,8	10	30	8,2	27	26	18	9	292,55	30	140*	50	323	10

\* welded hub

We supply sprockets with custom bore and groove according to specifications.

# SPROCKETS WITH INTEGRATED BALL BEARING



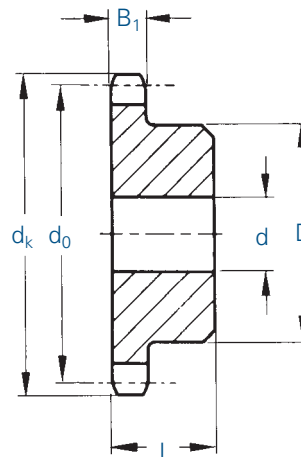
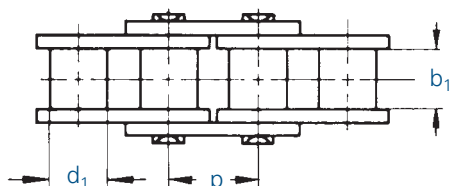
Chain	DIN	Pitch		Inner width	Roller Ø	Width over pin	Jockey sprocket	Number of teeth	d <sub>0</sub>	B <sub>1</sub>	Bearing		Load ratings	
		p									d +0.3 +0.1	L	C dyn.	C <sub>0</sub> stat.
No.	No.	mm	inch	mm	mm	mm	No.		mm	mm	mm	mm	kN	kN
455	06B-1	9,525	3/8	5,72	6,35	13,5	SPR 455	21	63,91	5,3	16	18,3	7,5	4,5
331	081	12,7	1/2	3,30	7,75	10,2	SPR 331	18	73,14	3,0	16	18,3	7,5	4,5
332	-	12,7	1/2	4,88	7,75	11,2	SPR 332	18	73,14	4,5	16	18,3	7,5	4,5
462	08B-1	12,7	1/2	7,75	8,51	17,0	SPR 462	18	73,14	7,2	16	18,3	7,5	4,5
501	10B-1	15,875	5/8	9,65	10,16	19,6	SPR 501	17	86,39	9,1	16	18,3	7,5	4,5
513	12B-1	19,05	3/4	11,68	12,07	22,7	SPR 513	15	91,62	11,1	16	18,3	7,5	4,5
548	16B-1	25,4	1	17,02	15,88	36,1	SPR 548	12	98,14	16,2	20	17,7	10,1	6,3
563	20B-1	31,75	1 1/4	19,56	19,05	43,2	SPR 563	13	132,67	18,5	25	21,0	11,0	7,1

Made of steel with a strength of 500 - 600 N/mm<sup>2</sup>.



In all cases where the chain does not wrap around the sprocket, but only contacts it tangentially, the sprocket must be a lantern gear version, because only one tooth at a time meshes with the chain. Therefore the teeth of the sprocket are tempered to reduce wear. Thus roller chains are frequently used as a rack and pinion arrangement.

Rack and pinion arrangements with chains are inexpensive and easy to assemble. A spring clip connecting link or a connecting link with cottered pin is attached to both ends of a pre-stretched chain with an uneven number of links. By means of the connecting links the chain is then mounted to a clamping device. The chain must be supported over the whole length.



Formula for calculating the PCD:

$$d_0 = \frac{p}{\sin(180^\circ/z)}$$

Formula for calculating the permissible torque:

$$M_{max.} = \frac{F_B [N] \cdot \frac{d_0 [mm]}{2}}{10 \cdot 1000} [Nm]$$

Lantern gear	Number of teeth	PCD	Tip circle Ø	Tooth width	Pre-drilled bore	Hub		Roller chain	Pitch	Inner width	Roller Ø
	z	d <sub>0</sub>	d <sub>k</sub> max.	B <sub>1</sub>	d	Ø	length		p	b <sub>1</sub> min.	d <sub>1</sub> max.
No.		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TRB 15462	15	60,64	69,1	6,3	10	30,5	25	462	12,7	7,75	8,51
TRB 17462	17	68,72	77,2	6,3	12	38,5	25	462	12,7	7,75	8,51
TRB 19462	19	76,81	85,3	6,3	12	46,5	25	462	12,7	7,75	8,51
TRB 21462	21	84,89	93,4	6,3	16	54,5	25	462	12,7	7,75	8,51
TRB 23462	23	92,98	101,4	6,3	16	63,0	25	462	12,7	7,75	8,51
TRB 15501	15	75,80	85,9	8,0	12	45,5	25	501	15,875	9,65	10,16
TRB 17501	17	85,90	96,0	8,0	16	55,5	25	501	15,875	9,65	10,16
TRB 19501	19	96,01	106,1	8,0	16	66,0	25	501	15,875	9,65	10,16
TRB 21501	21	106,12	116,2	8,0	16	76,0	25	501	15,875	9,65	10,16
TRB 23501	23	116,22	126,3	8,0	16	86,0	25	501	15,875	9,65	10,16
TRB 15513	15	90,96	103,0	9,5	16	45,0	35	513	19,05	11,68	12,07
TRB 17513	17	103,08	115,1	9,5	20	57,0	35	513	19,05	11,68	12,07
TRB 19513	19	115,21	127,3	9,5	20	69,0	35	513	19,05	11,68	12,07
TRB 21513	21	127,34	139,4	9,5	20	81,0	35	513	19,05	11,68	12,07
TRB 23513	23	139,47	151,5	9,5	20	93,0	35	513	19,05	11,68	12,07
TRB 15548	15	121,28	137,1	14,0	20	75,0	40	548	25,4	17,02	15,88
TRB 17548	17	137,45	153,3	14,0	20	91,0	40	548	25,4	17,02	15,88
TRB 19548	19	153,62	169,5	14,0	20	107,0	40	548	25,4	17,02	15,88
TRB 21548	21	169,79	185,6	14,0	25	123,0	40	548	25,4	17,02	15,88
TRB 23548	23	185,96	201,8	14,0	25	140,0	40	548	25,4	17,02	15,88