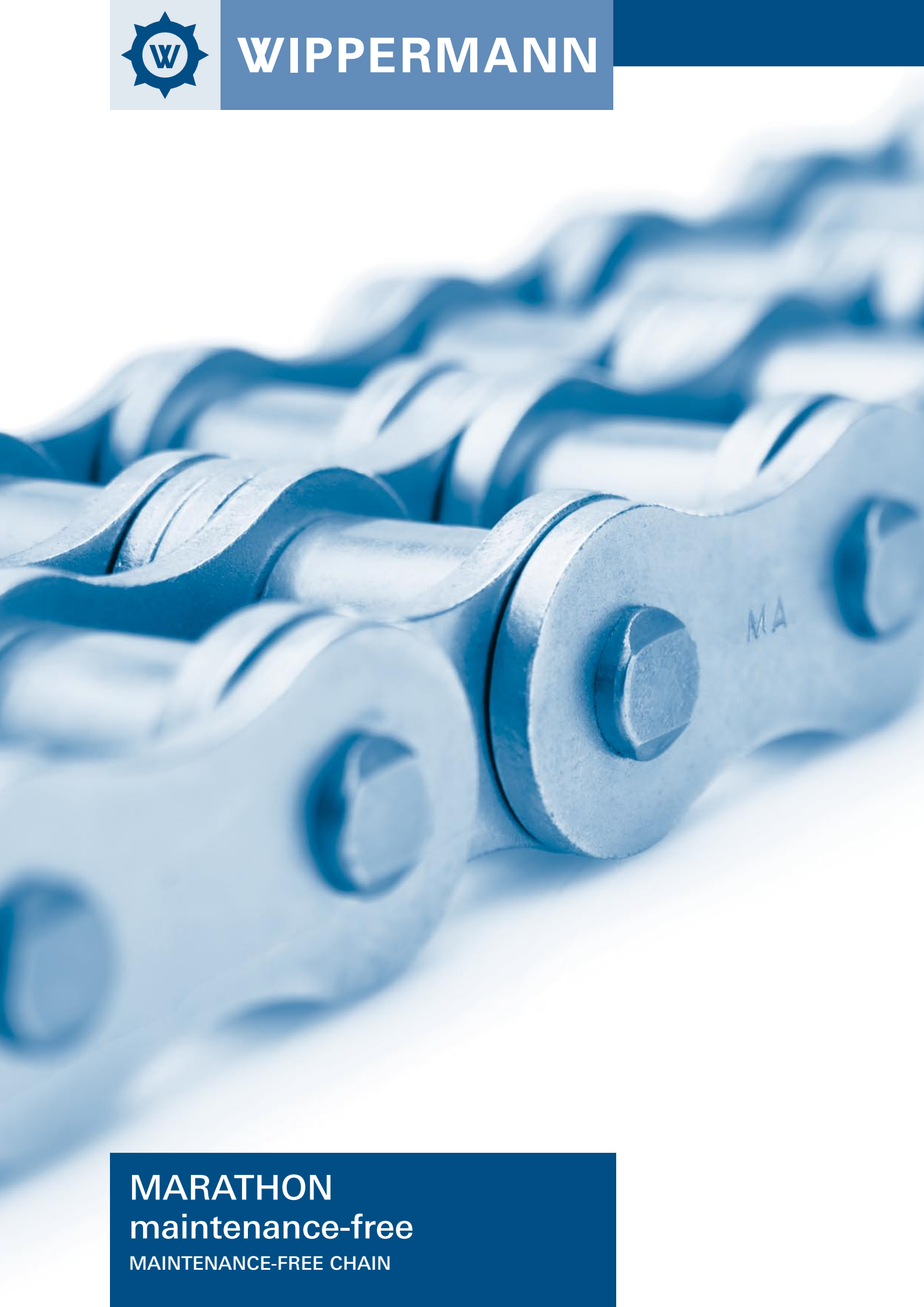




WIPPERMANN



MARATHON
maintenance-free
MAINTENANCE-FREE CHAIN



MARATHON, the long distance chain that needs no relubrication:

- High-performance bearing joints
- Tensile strength according to WIPPERMANN standard
- Electro galvanised surface for optimum protection
- Bushings with slight projection over plates

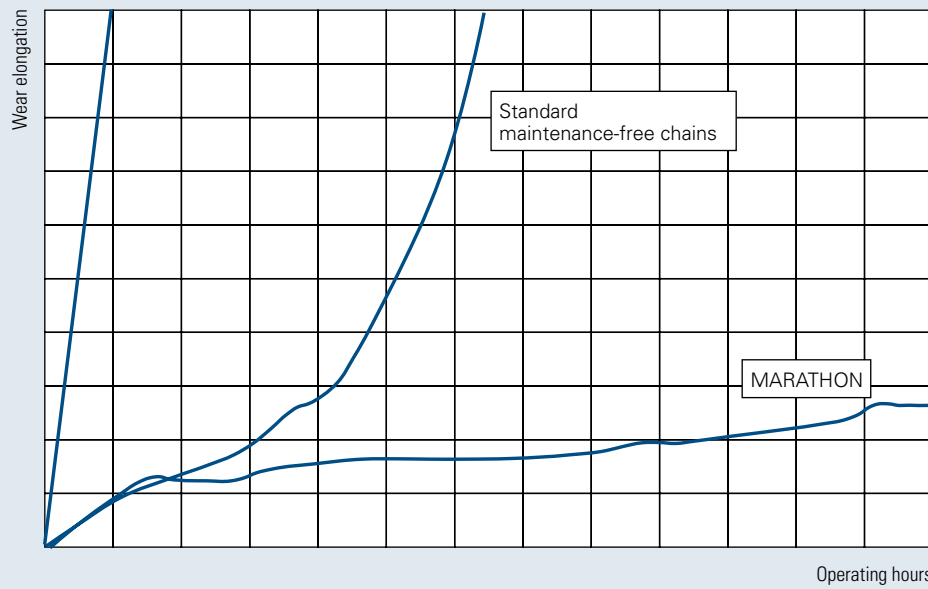


Advantages of the WIPPERMANN MARATHON chain:

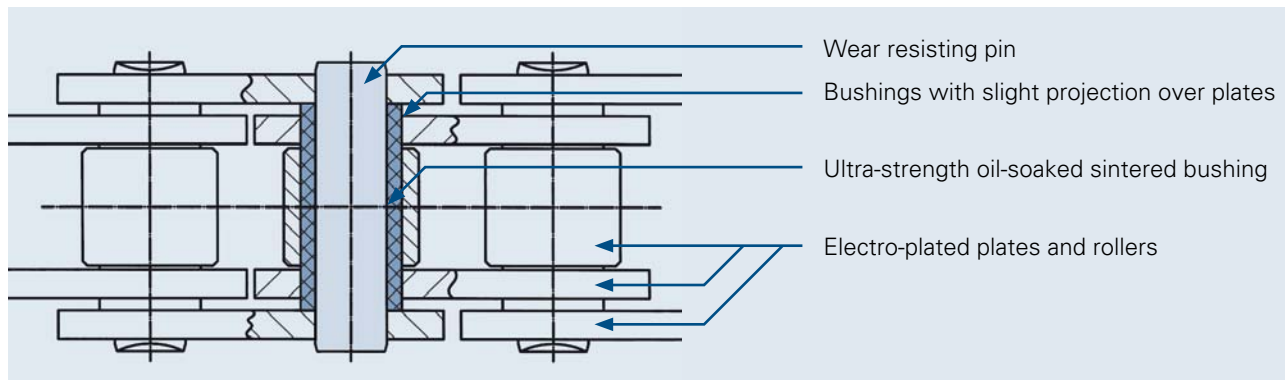
- Up to 35 times longer wear life in comparison with other standard roller chains without lubrication
- Up to 5 times longer wear life than other maintenance-free chains
- No relubrication required
- Clean application with no soiling of machinery and transported goods
- Joint bushings made with a new type of sintered metal with high strength treated with a special lubricant
- Bushings longer than the width of the chain link with sliding contact to the outer plate
- The pins forming the joints with these bushings are made of alloyed hardened steel and are treated with a special coating. The resulting high-wearing coat guarantees an excellent sliding performance.
- Same tensile strength as with WIPPERMANN standard chains
- All MARATHON chains fit standard sprockets

Range of application for WIPPERMANN MARATHON chains:

- Temperatures from 0°C to +100°C
- With special lubrication from -30°C to +250°C (after consultation)
- Speeds of up to $v = 150$ m/min.
- Food industry
- Electrical industry
- Production of printed circuit boards (PCBs)
- Television industry
- Packing industry
- Paper processing
- Printing industry
- Bookbinding industry
- Textile industry
- Automotive industry
- All systems where relubrication is either not wanted, problematic or not possible at all.

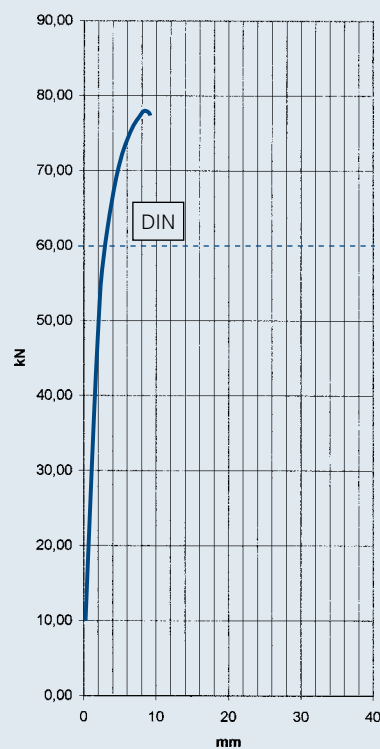


Results of long-term wear tests



Type of test: Tensile test
Object: 548 Marathon chain
Test length: 5 links

Minimum tensile strength: 78,000 N
Breaking point: Pins



Force projection diagram

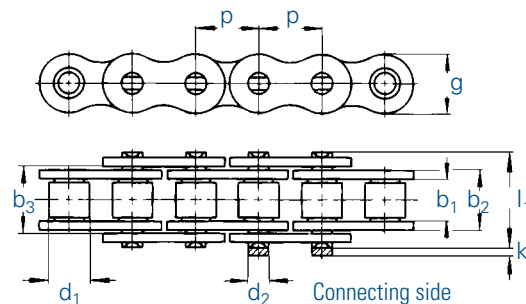


MARATHON - MAINTENANCE-FREE

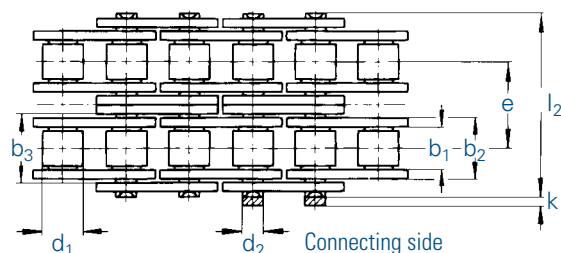
Roller chains according to DIN 8187-1



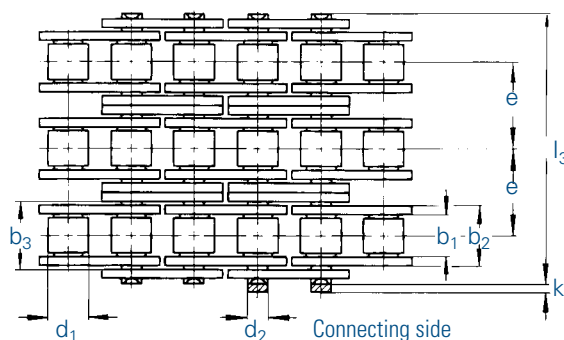
Simplex chains



Duplex chains



Triplex chains



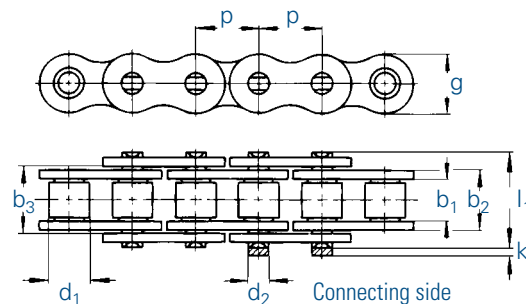
Chain		Pitch		Inner width	Inner link width	Outer plate width	Roller Ø	Pin Ø	Transverse pitch	Plate height	Projection over connecting link	Width over pin	Bearing area	Minimum tensile strength	Weight	Connecting links
		p		b ₁ min.	b ₂ max.	b ₃ min.	d ₁ max.	d ₂ max.	e	g max.	k max.	l max.	f	F _B min.	q ≈	No.
No.	Ind.	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm ²	kN	kg/m	No.
06 B-1 MA	¹	9,525	3/8	5,72	8,53	8,66	6,35	3,28	-	8,2	3,3	13,5	0,28	9,6	0,41	11,12,15
08 B-1 MA		12,7	1/2	7,75	11,30	11,43	8,51	4,45	-	11,8	3,9	17,0	0,50	18,6	0,70	11,12,15
10 B-1 MA		15,875	5/8	9,65	13,28	13,41	10,16	5,08	-	14,7	4,1	19,6	0,67	27,0	0,91	11,12,15
12 B-1 MA		19,05	3/4	11,68	15,62	15,75	12,07	5,72	-	16,1	4,6	22,7	0,89	31,0	1,18	11,12,15
16 B-1 MA		25,4	1	17,02	25,40	25,60	15,88	8,28	-	21,0	5,4	36,1	2,10	72,0	2,68	11,111,12
552 MA		30,0	-	17,02	25,40		15,88	8,28	-	21,0	5,4	36,1	2,10	72,0	2,50	11,111,12
20 B-1 MA		31,75	1 1/4	19,56	29,00	29,20	19,05	10,19	-	26,4	6,1	43,2	2,96	105,0	3,50	111,12
24 B-1 MA		38,1	1 1/2	25,40	37,90	38,20	25,40	14,63	-	33,4	6,6	53,4	5,54	180,0	6,80	111,12
06 B-2 MA		9,525	3/8	5,72	8,53	8,66	6,35	3,28	10,24	8,2	3,3	23,8	0,56	17,4	0,78	11,12,15
08 B-2 MA		12,7	1/2	7,75	11,30	11,43	8,51	4,45	13,92	11,8	3,9	31,0	1,01	37,0	1,36	11,12,15
10 B-2 MA		15,875	5/8	9,65	13,28	13,41	10,16	5,08	16,59	14,7	4,1	36,2	1,34	54,0	1,82	11,12,15
12 B-2 MA		19,05	3/4	11,68	15,62	15,75	12,07	5,72	19,46	16,1	4,6	42,2	1,79	63,0	2,38	11,12,15
16 B-2 MA		25,4	1	17,02	25,40	25,60	15,88	8,28	31,88	21,0	5,4	68,0	4,21	140,0	5,30	11,111,12
20 B-2 MA		31,75	1 1/4	19,56	25,40	29,20	19,05	10,19	36,45	26,4	6,1	79,0	5,91	210,0	7,30	111, 12
24 B-2 MA		38,1	1 1/2	25,40	37,90	38,20	25,40	14,63	48,36	33,4	6,6	101,0	11,09	360,0	13,40	111, 12
06 B-3 MA		9,525	3/8	5,72	8,53	8,66	6,35	3,28	10,24	8,2	3,3	34,0	0,81	24,9	1,18	11,12,15
08 B-3 MA		12,7	1/2	7,75	11,30	11,43	8,51	4,45	13,92	11,8	3,9	44,9	1,51	56,0	2,01	11,12,15
10 B-3 MA		15,875	5/8	9,65	13,28	13,41	10,16	5,08	16,59	14,7	4,1	52,8	2,02	80,0	2,70	11,12,15
12 B-3 MA		19,05	3/4	11,68	15,62	15,75	12,07	5,72	19,46	16,1	4,6	61,7	2,68	94,0	3,12	11,12,15
16 B-3 MA		25,4	1	17,02	25,40	25,60	15,88	8,28	31,88	21,0	5,4	99,9	6,31	211,0	7,50	11,111,12
20 B-3 MA		31,75	1 1/4	19,56	29,00	29,20	19,05	10,19	36,45	26,4	6,1	116,0	8,87	300,0	10,60	111,12
24 B-3 MA		38,1	1 1/2	25,40	37,90	38,20	25,40	14,63	48,36	33,4	6,6	150,0	16,63	523,0	20,00	111,12

¹ with straight side plates

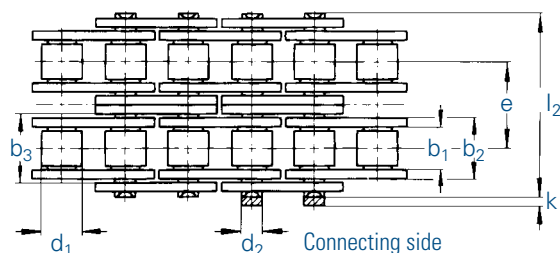
Standard sprockets can be used for these chains.



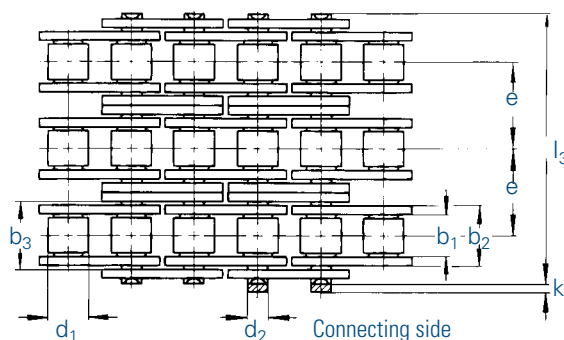
Simplex chains



Duplex chains



Triplex chains



Chain		Pitch		Inner width	Inner link width	Outer plate width	Roller Ø	Pin Ø	Transverse pitch	Plate height	Projection over connecting link	Width over pin	Bearing area	Minimum tensile strength	Weight	Connecting links
		p		b_1 min.	b_2 max.	b_3 min.	d_1 max.	d_2 max.	e	g max.	k max.	l max.	f	F_B min.	q ≈	
No.	Ind.	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm ²	kN	kg/m	No.
08 A-1 MA		12,7	1/2	7,85	11,15	11,28	7,95	3,96	-	12,0	3,9	17,8	0,44	16,5	0,60	11,12,15
10 A-1 MA		15,875	5/8	9,40	13,80	13,93	10,16	5,08	-	15,0	4,1	21,8	0,70	30,0	1,01	11,12,15
12 A-1 MA		19,05	3/4	12,57	17,70	17,85	11,91	5,94	-	18,0	4,6	26,9	1,05	40,0	1,58	11,111,12,15
16 A-1 MA		25,4	1	15,75	22,50	22,70	15,88	7,92	-	24,1	5,4	33,5	1,78	69,0	2,36	11,111,12,15
20 A-1 MA		31,75	1 1/4	18,90	27,40	27,60	19,05	9,53	-	30,1	6,1	41,1	2,61	92,5	3,80	111,12
24 A-1 MA		38,1	1 1/2	25,22	35,30	35,60	22,23	11,10	-	36,2	6,6	50,8	3,92	139,0	5,40	111,12
08 A-2 MA		12,7	1/2	7,85	11,15	11,28	7,95	3,96	14,38	12,0	3,9	32,3	0,88	29,7	1,20	11,12,15
10 A-2 MA		15,875	5/8	9,40	13,80	13,93	10,16	5,08	18,11	15,0	4,1	39,9	1,40	62,0	1,78	11,12,15
12 A-2 MA		19,05	3/4	12,57	17,70	17,85	11,91	5,94	22,78	18,0	4,6	49,8	2,10	76,0	3,15	11,111,12,15
16 A-2 MA		25,4	1	15,75	22,50	22,70	15,88	7,92	29,29	24,1	5,4	62,7	3,56	135,0	4,90	11,111,12,15
20 A-2 MA		31,75	1 1/4	18,90	27,40	27,60	19,05	9,53	35,76	30,1	6,1	77,0	5,22	205,0	7,60	111,12
24 A-2 MA		38,1	1 1/2	25,22	35,30	35,60	22,23	11,10	45,44	36,2	6,6	96,3	7,84	290,0	10,80	111,12
08 A-3 MA		12,7	1/2	7,85	11,15	11,28	7,95	3,96	14,38	12,0	3,9	46,7	1,32	41,2	1,80	11,12,15
10 A-3 MA		15,875	5/8	9,40	13,80	13,93	10,16	5,08	18,11	15,0	4,1	57,9	2,10	88,0	3,02	11,12,15
12 A-3 MA		19,05	3/4	12,57	17,70	17,85	11,91	5,94	22,78	18,0	4,6	72,6	3,15	105,0	4,70	11,111,12,15
16 A-3 MA		25,4	1	15,75	22,50	22,70	15,88	7,92	29,29	24,1	5,4	91,7	5,35	193,0	7,50	11,111,12,15
20 A-3 MA		31,75	1 1/4	18,90	27,40	27,60	19,05	9,53	35,76	30,1	6,1	113,0	7,83	305,0	11,20	111,12
24 A-3 MA		38,1	1 1/2	25,22	35,30	35,60	22,23	11,10	45,44	36,2	6,6	141,0	11,76	410,0	16,10	111,12

Standard sprockets can be used for these chains.

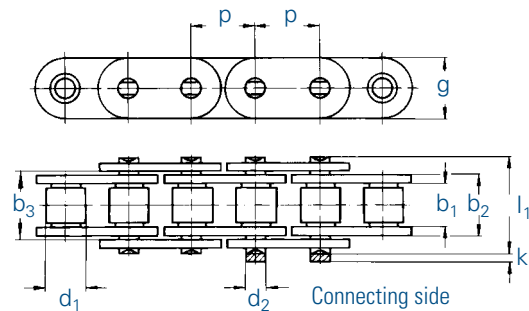


MARATHON - MAINTENANCE-FREE

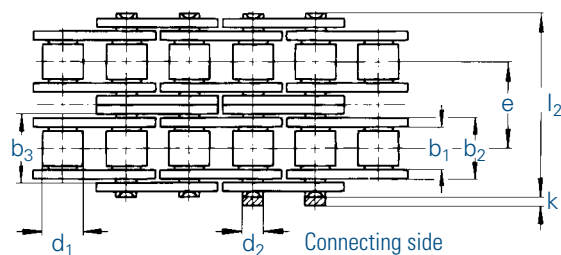
Roller chains type series GL (straight plates)



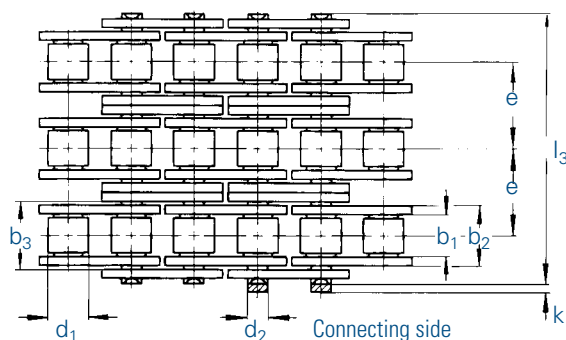
Simplex chains



Duplex chains

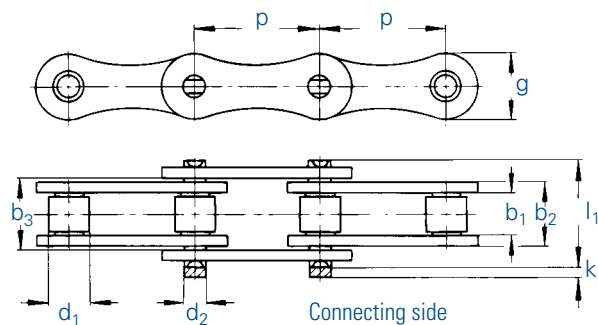


Triplex chains



Chain		Pitch		Inner width	Inner link width	Outer plate width	Roller Ø	Pin Ø	Transverse pitch	Plate height	Projection over connecting link	Width over pin	Bearing area	Minimum tensile strength	Weight	Connecting links
		p		b ₁ min.	b ₂ max.	b ₃ min.	d ₁ max.	d ₂ max.	e	g max.	k max.	l max.	f	F _B min.	q ≈	
No.	Ind.	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	cm ²	kN	kg/m	No.
455 GL MA		9,525	3/8	5,72	8,53	8,66	6,35	3,28	-	8,2	3,3	13,5	0,28	9,6	0,41	4,7,11,12,15
462 GL MA		12,7	1/2	7,75	11,30	11,43	8,51	4,45	-	11,5	3,9	17,0	0,50	18,6	0,78	4,7,11,12
501 GL MA		15,875	5/8	9,65	13,28	13,41	10,16	5,08	-	14,2	4,1	19,6	0,67	27,0	1,03	4,7,11
513 GL MA		19,05	3/4	11,68	15,62	15,75	12,07	5,72	-	15,5	4,6	22,7	0,89	31,0	1,29	4,7,11,12
548 GL MA		25,4	1	17,02	25,40	25,60	15,88	8,28	-	24,0	5,4	36,1	2,10	72,0	3,29	4,7,11
548 GLS MA		25,4	1	17,02	25,40	25,60	15,88	8,28	-	21,0	5,4	36,1	2,10	72,0	2,90	4,7,11,12
563 GL MA		31,75	1 1/4	19,56	29,00	29,20	19,05	10,19	-	26,4	6,1	43,2	2,95	105,0	4,13	4,7,11,12
596 GL MA		38,1	1 1/2	25,40	37,90	38,20	25,40	14,63	-	33,4	6,6	53,4	5,54	180,0	7,34	4,7,11,12
455 GL-2MA		9,525	3/8	5,72	8,53	8,66	6,35	3,28	10,24	8,2	3,3	23,8	0,56	17,4	0,86	4,7,11,12,15
462 GL-2MA		12,7	1/2	7,75	11,30	11,43	8,51	4,45	13,92	11,5	3,9	31,0	1,01	37,0	1,50	4,7,11,12
501 GL-2MA		15,875	5/8	9,65	13,28	13,41	10,16	5,08	16,59	14,2	4,1	36,2	1,34	54,0	2,00	4,7,11
513 GL-2MA		19,05	3/4	11,68	15,62	15,75	12,07	5,72	19,46	15,5	4,6	42,2	1,79	63,0	2,62	4,7,11,12
548 GL-2MA		25,4	1	17,02	25,40	25,60	15,88	8,28	31,88	24,0	5,4	68,0	4,21	140,0	5,83	4,7,11
563 GL-2MA		31,75	1 1/4	19,56	29,00	29,20	19,05	10,19	36,45	26,4	6,1	79,0	5,81	210,0	8,03	4,7,11,12
596 GL-2MA		38,1	1 1/2	25,40	37,92	38,20	25,40	14,63	48,36	33,4	6,6	101,0	11,09	360,0	14,47	4,7,11,12
455 GL-3MA		9,525	3/8	5,72	8,53	8,66	6,35	3,28	10,24	8,2	3,3	34,0	0,81	24,9	1,30	4,7,11,12,15
462 GL-3MA		12,7	1/2	7,75	11,30	11,43	8,51	4,45	13,92	11,5	3,9	44,9	1,51	56,0	2,21	4,7,11,12
501 GL-3MA		15,875	5/8	9,65	13,28	13,41	10,16	5,08	16,59	14,2	4,1	52,8	2,02	80,0	2,97	4,7,11
513 GL-3MA		19,05	3/4	11,68	15,62	15,75	12,07	5,72	19,46	15,5	4,6	61,7	2,68	94,0	3,43	4,7,11,12
548 GL-3MA		25,4	1	17,02	25,40	25,60	15,88	8,28	31,88	24,0	5,4	99,9	6,31	211,0	8,25	4,7,11
563 GL-3MA		31,75	1 1/4	19,56	29,00	29,20	19,05	10,19	36,45	26,4	6,1	116,0	8,87	300,0	11,66	4,7,11,12
596 GL-3MA		38,1	1 1/2	25,40	37,90	38,20	25,40	14,63	48,36	33,4	6,6	150,0	16,63	523,0	22,00	4,7,11,12

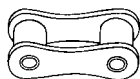
Standard sprockets can be used for these chains.



Chain		Pitch		Inner width	Inner link width	Outer plate width	Roller Ø	Pin Ø	Plate height	Projection over connecting link	Width over pin	Bearing area	Minimum tensile strength	Weight
		p		b_1 min.	b_2 max.	b_3 min.	d_1 max.	d_2 max.	g max.	k max.	l_1 max.	f	F_B min.	$q \approx$
No.	Ind.	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	cm ²	kN	kg/m
208 B MA		25,4	1	7,75	11,30	11,43	8,51	4,45	11,8	3,9	17,0	0,50	18,0	0,48
210 B MA		31,75	1 ¼	9,65	13,28	13,40	10,16	5,08	14,7	4,1	19,6	0,67	22,4	0,55
212 B MA		38,1	1 ½	11,68	15,62	15,75	12,07	5,72	16,1	4,6	22,7	0,89	29,0	0,80
216 B MA		50,8	2	17,02	25,40	25,60	15,88	8,28	21,0	5,4	36,1	2,10	60,0	1,74
220 B MA		63,5	2 ½	19,56	29,00	29,20	19,05	10,19	28,0	6,1	43,2	2,96	95,0	2,55

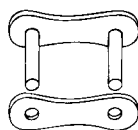
Sprockets for double pitch roller chains can be used for these chains.

Connecting links: According to DIN (...)



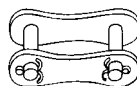
No. 4 (B)

Inner link



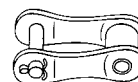
No. 7 (A)

Outer link
(to be riveted)



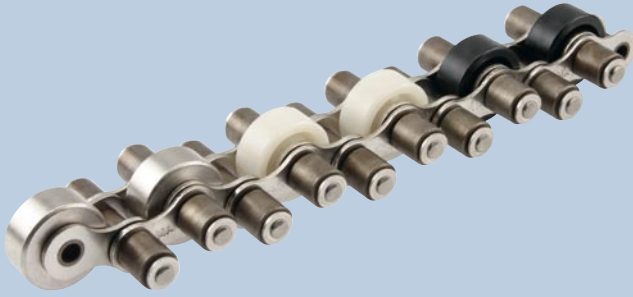
No. 111 (S)

Connecting link with cottared pin
for chain No. 208 B MA with spring clip (E)

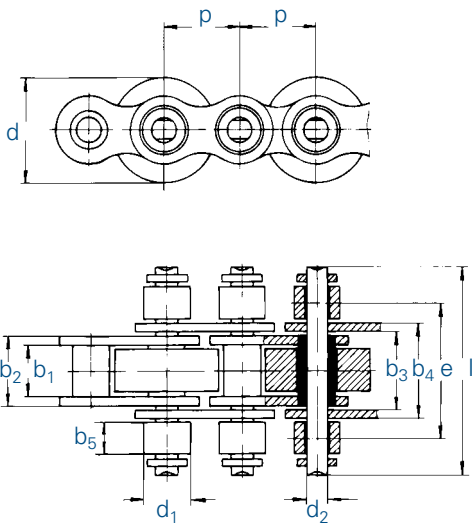


No. 12 (L)

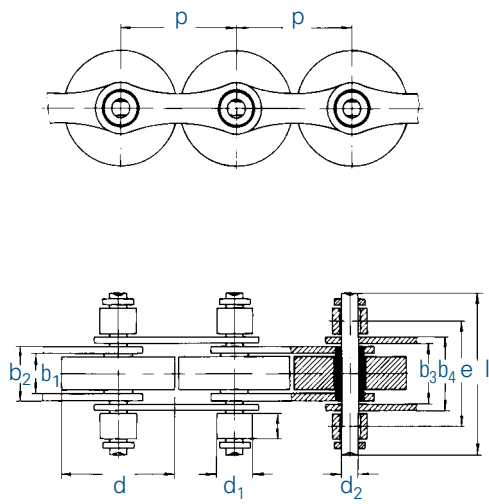
Single cranked link



Design E



Double pitch chain Design L



Chain		Pitch		Inner width	Inner link width	Width between over outer plates		Support roller Ø	Pin Ø	Transverse pitch	Plate height	Width over pin	Support roller width	Width over pin Type I	Support roller width
		p	Design	b ₁ min.	b ₂ max.	b ₃ min.	b ₄ max.	d ₁	d ₂ max.	e	g max.	l max.	b ₅ max.	l max.	b ₅ max.
No.	Ind.	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
513 SF MA		19,05	E	11,68	15,62	15,80	20,0	12,00	5,72	31,50	16,1	48,0	11,5	43,0	9,0
548 SF MA		25,4	E	17,02	25,45	25,81	32,0	15,88	8,28	44,50	21,0	65,0	12,5	-	-
722 SF MA		38,1	L	11,68	15,62	15,80	20,0	12,00	5,72	31,50	16,1	48,0	11,5	-	-
728 SF MA		50,8	L	17,02	25,45	25,81	32,0	15,88	8,28	44,50	21,0	65,0	12,5	-	-
D 513 SF MA		19,05	D	11,68	15,62	15,80	20,0	12,07	5,72	52,00	16,1	68,0	11,5	-	-
D 548 SF MA		25,4	D	17,02	25,45	25,81	32,0	15,88	8,28	76,76	21,0	97,0	12,5	-	-
T 513 SF MA		19,05	T	11,68	15,62	15,80	20,0	12,07	5,72	38,92	16,1	61,7	-	-	-
T 548 SF MA		25,4	T	17,02	25,45	25,81	32,0	15,88	8,28	63,76	21,0	99,9	-	-	-

Sprockets are available for all accumulator chains!

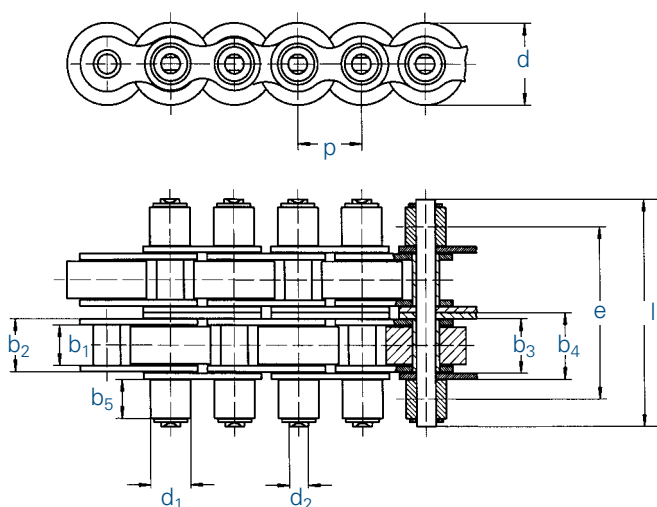
Connecting links with securing circlips.

Our connecting links always have the same length l as the ordinary pins.

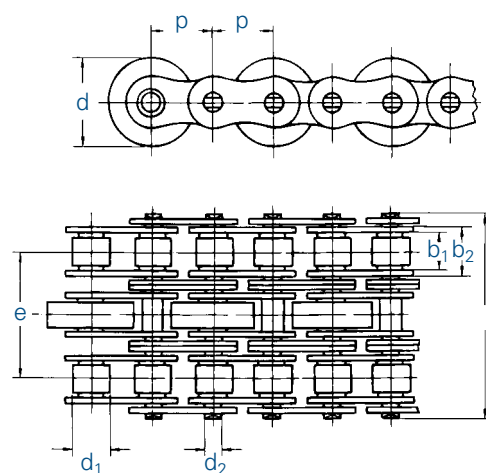
Temperature range: - 30 to 100°C for steel conveyor rollers
- 10 to 60°C for plastic conveyor rollers



Design D



Design T



Width over pin Type II I max.	Support roller width b ₅ max.	Conveyor rollers						Minimum tensile strength F _B min.	Maximum load	
		Designation for material				Diameter			per m conveyor chain with 10 m conveyor length	
		Steel	PA 6.6	Vestamide	d	Type I d	Type II d		Steel	Plastic
mm.	mm				mm	mm	mm	kN	kg	kg
40,0	7,5	SF	SFK	SFV	24,0	26,0	28,0	29,0	300	260
-	-	SF	SFK	SFV	38,5	-	-	60,0	600	500
-	-	SF	SFK	SFV	24,0	26,0	28,0	29,0	300	260
-	-	SF	SFK	SFV	38,5	40,0	50,0	60,0	600	500
-	-	SF	SFK	SFV	24,0	26,0	28,0	57,8	600	520
-	-	SF	SFK	SFV	38,5	-	-	120,0	1200	1000
-	-	SF	SFK	SFV	24,0	26,0	28,0	60,0	600	260
-	-	SF	SFK	SFV	38,5	-	-	120,0	1200	500

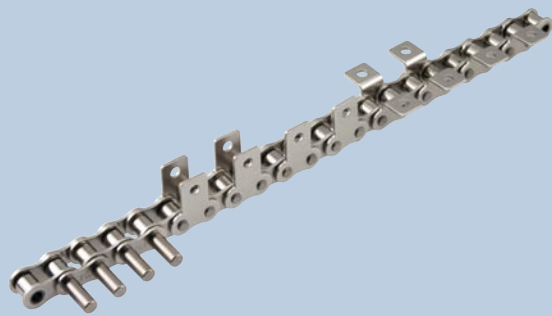
The load per m applies for 10 m conveyor length per double chain strand. The load may be proportionally increased for shorter chain lengths and must be proportionally decreased for longer conveyor distances: e.g. 5 m conveyor distance = double load, 20 m conveyor distance = half load.

Maximum conveyor distances 25 - 30 m. The installation of guide plates is recommended as of 15 m.

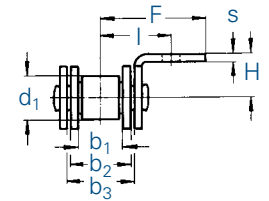
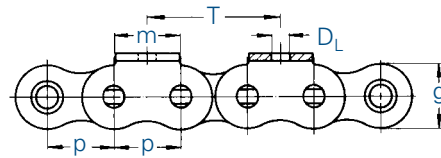


MARATHON CHAINS AS ATTACHMENT CHAINS

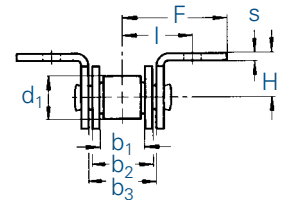
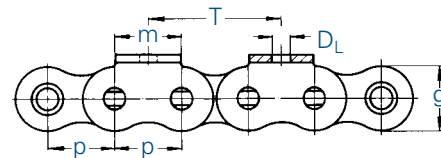
Main dimensions according to DIN 8187/ 8188



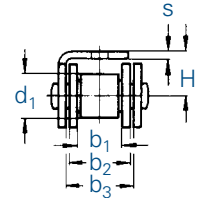
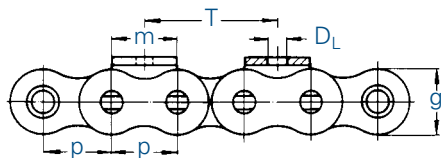
Type A bent attachments, one side



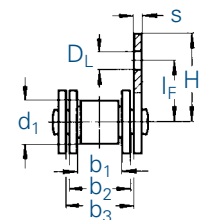
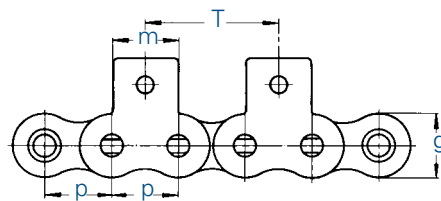
Type B bent attachments, both sides



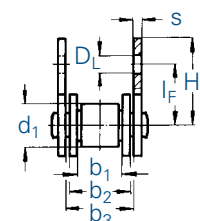
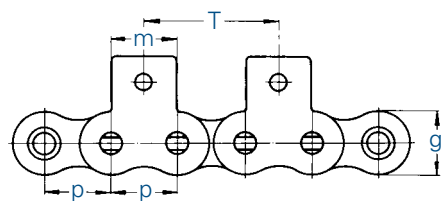
Type C bent over chain attachments, one side



Type D straight attachments, one side



Type E straight attachments, both sides



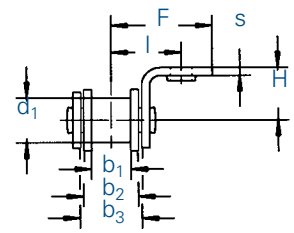
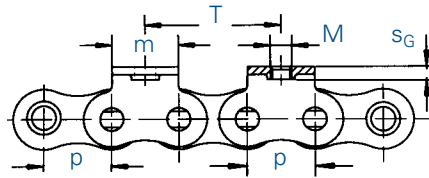
Basic chain		Pitch	Inner width	Inner link width	Outer plate width	Roller Ø	Plate height	Attachment dimensions							
		p	b ₁ min.	b ₂ max.	b ₃ min.	d ₁ max.	g max.	m	D _L	I	F	H	I _F	H _F	s
No.	Ind.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
06 B-1 MA	¹	9,525	5,72	8,53	8,66	6,35	8,2	8,0	3,5	9,5	13,5	6,5	9,0	13,8	1,25
08 B-1 MA		12,7	7,75	11,30	11,43	8,51	11,8	12,5	4,5	13,1	19,0	10,0	14,7	20,3	1,60
10 B-1 MA		15,875	9,65	13,28	13,41	10,16	14,7	15,0	5,5	16,7	27,0	10,0	17,2	26,7	1,70
12 B-1 MA		19,05	11,68	15,62	15,75	12,07	16,1	18,5	6,6	18,6	29,0	11,0	18,7	29,0	1,80
16 B-1 MA		25,4	17,02	25,40	25,60	15,88	21,0	25,0	9,0	28,9	41,8	18,0	28,6	41,5	3,00
20 B-1 MA		31,75	19,56	29,00	29,20	19,05	26,4	35,0	9,0	33,4	50,0	18,0	30,5	45,7	3,75
24 B-1 MA		38,1	25,40	37,90	38,20	25,40	33,4	38,0	11,0	44,0	64,0	25,0	41,0	60,0	5,00

¹ with straight side plates

Sprockets made of stainless steel or plastic are available on request. For untoleranced dimensions DIN ISO 2768 c applies.

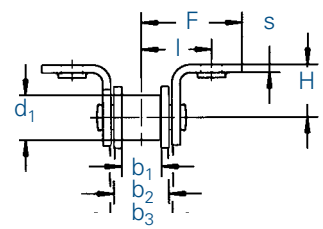
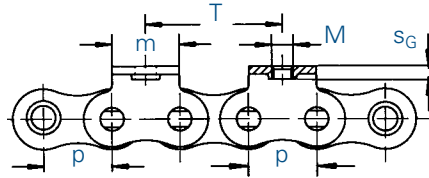
Type A G

bent attachments, one side



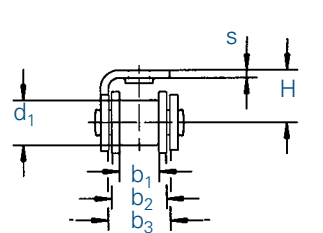
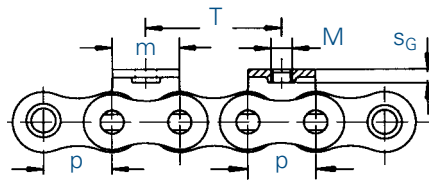
Type B G

bent attachments, both sides



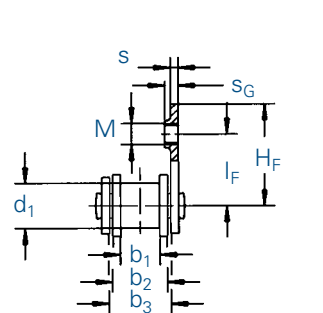
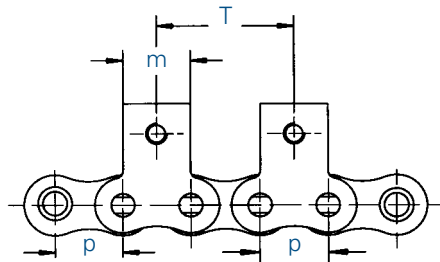
Type C G

bent over chain attachments, one side



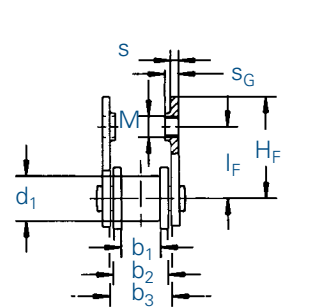
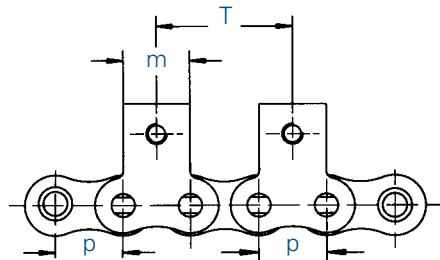
Type D G

straight attachments, one side



Type E G

straight attachments, both sides



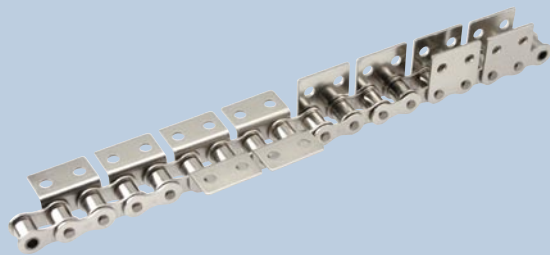
Basic chain		Pitch		Inner width	Inner link width	Outer plate width	Roller Ø	Plate height	Attachment dimensions						
									m	Inside thread M	I	F	H	s	s _G
No.	Ind.	mm	inch	b ₁ min.	b ₂ max.	b ₃ min.	d ₁ max.	g max.	mm		mm	mm	mm	mm	mm
462		12,7	1/2	7,75	11,30	11,43	8,51	11,8	12,5	M 4	13,1	19,0	10	1,50	4,00
501		15,875	5/8	9,65	13,28	13,41	10,16	14,7	15,0	M 5	16,7	27,0	10	1,70	4,20
513		19,05	3/4	11,68	15,62	15,75	12,07	16,1	18,5	M 6	18,6	29,0	11	1,80	4,50
548		25,4	1	17,02	25,40	25,60	15,88	21,0	25,0	M 8	28,9	41,8	18	3,00	7,50

For untoleranced dimensions DIN ISO 2768 c applies.

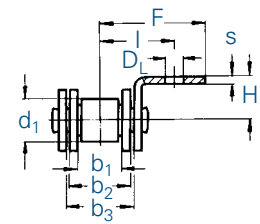
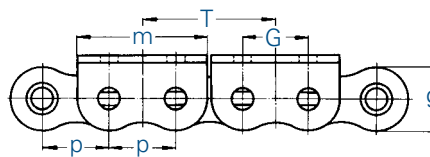


MARATHON CHAINS WITH TWO-HOLE BENT AND STRAIGHT ATTACHMENTS

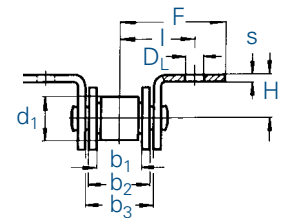
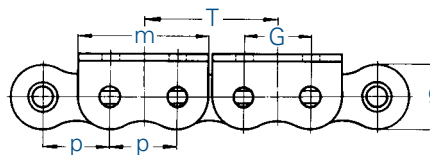
Main dimensions according to DIN 8187



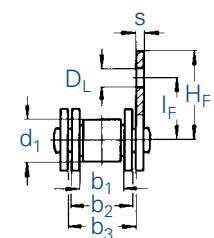
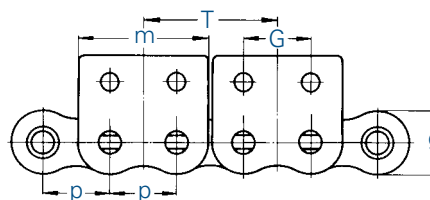
Type A2 bent attachments, one side



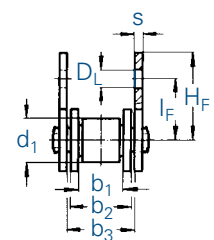
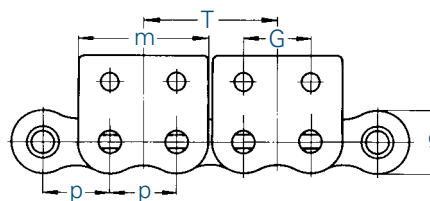
Type B2 bent attachments, both sides



Type D2 straight attachments, one side



Type E2 straight attachments, both sides



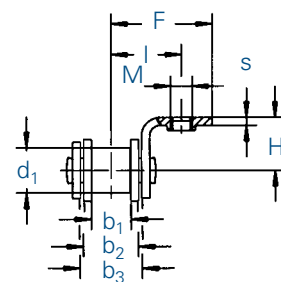
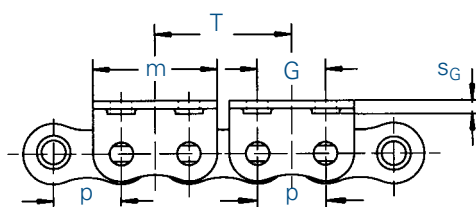
Basic chain		Pitch		Inner width	Inner link width	Outer plate width	Roller Ø	Plate height	Attachment dimensions								
		p		b ₁ min.	b ₂ max.	b ₃ min.	d ₁ max.	g max.	m	D _L	G	I	F	H	I _F	H _F	s
No.	Ind.	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
455	1	9,525	3⁄8	5,72	8,53	8,66	6,35	8,2	18,2	3,2	9,5	9,8	13,2	5,7	9,2	12,6	1,25
462		12,7	1⁄2	7,75	11,30	11,43	8,51	11,8	23,2	4,5	12,7	13,1	19,0	10,0	14,7	20,3	1,50
501		15,875	5⁄8	9,65	13,28	13,41	10,16	14,7	28,5	5,5	15,9	16,7	27,0	10,0	17,2	26,7	1,70
513		19,05	3⁄4	11,68	15,62	15,75	12,07	16,1	33,6	6,6	19,1	18,6	29,0	11,0	18,7	29,0	1,80
548		25,4	1	17,02	25,40	25,60	15,88	21,0	46,5	9,0	25,4	28,9	42,0	18,0	28,6	41,5	3,00
563		31,75	1 1⁄4	19,56	29,00	29,20	19,05	26,4	55,8	9,0	31,8	33,4	49,0	18,0	30,5	46,0	3,75
596		38,1	1 1⁄2	25,40	37,90	38,20	25,40	33,4	71,1	11,0	38,1	44,0	64,0	25,0	41,0	60,0	5,00

¹ with straight side plates

Sprockets made of steel or plastic are available on request. For untoleranced dimensions DIN ISO 2768 c applies.

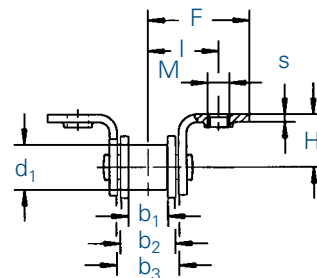
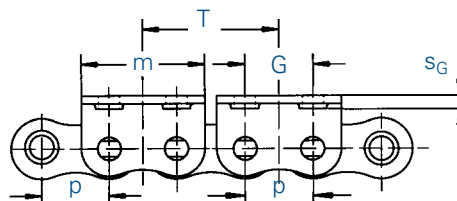
Type A 2 G

bent attachments, one side



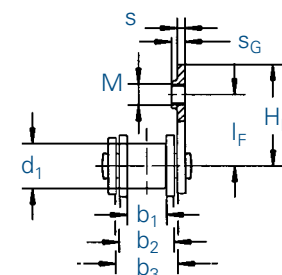
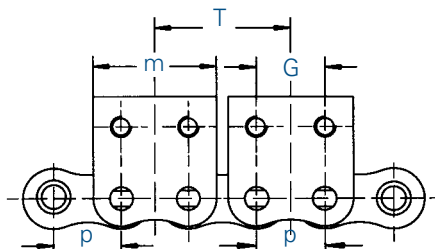
Type B 2 G

bent attachments, both sides



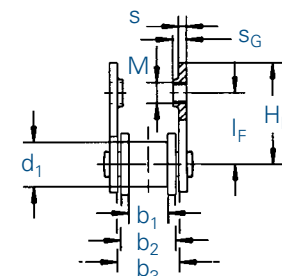
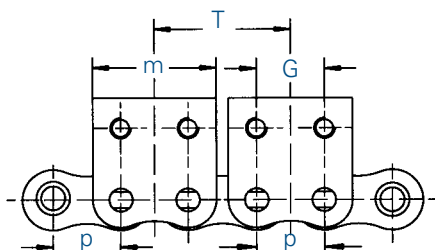
Type D 2 G

straight attachments, one side



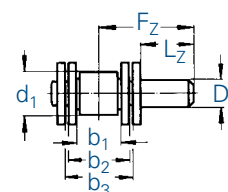
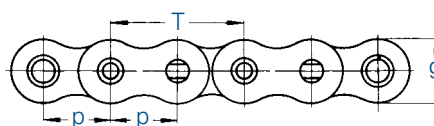
Type E 2 G

straight attachments, both sides



Type F

extended pins
(available on alternate sides)



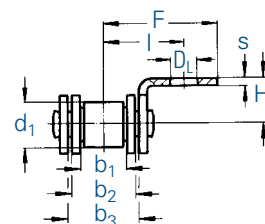
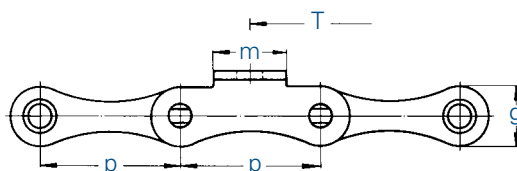
Basic chain		Pitch	Inner width	Inner link width	Outer plate width	Roller Ø	Plate height	Attachment dimensions												
	p	b ₁ min.	b ₂ max.	b ₃ min.	d ₁ max.	g max.	m	Inside thread M	G	I	F	H	I _F	H _F	s	s _G	D _Z	L _Z	F _Z	
No.	Ind.	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
462	²²	12,7	7,75	11,30	11,43	8,51	11,8	23,2	M 4	12,7	13,1	19,0	10	14,7	20,3	1,50	4,00	6,0	15,0	22,4
501	²²	15,875	9,65	13,28	13,41	10,16	14,7	28,5	M 5	15,9	16,7	27,0	10	17,2	26,7	1,70	4,20	6,5	20,0	28,5
513	²²	19,05	11,68	15,62	15,75	12,07	16,1	33,6	M 6	19,1	18,5	29,0	11	18,7	29,0	1,80	4,50	7,0	20,0	29,8
548	²²	25,4	17,02	25,40	25,60	15,88	21,0	46,5	M 8	25,4	28,9	41,8	18	28,6	41,5	3,00	7,50	10,0	30,0	45,9

For untoleranced dimensions DIN ISO 2768 c applies. Other types on request.



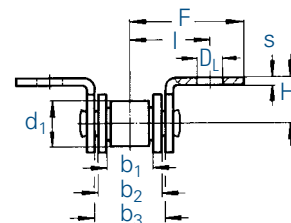
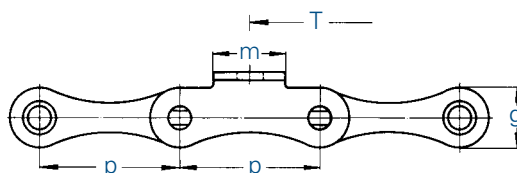
Type A

bent attachments, one side



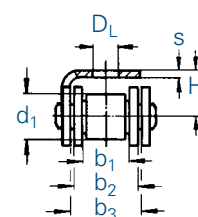
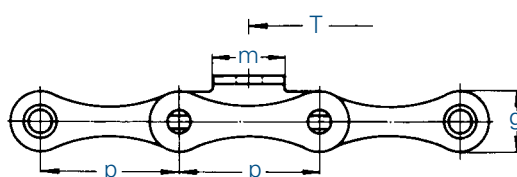
Type B

bent attachments, both sides



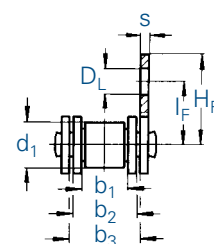
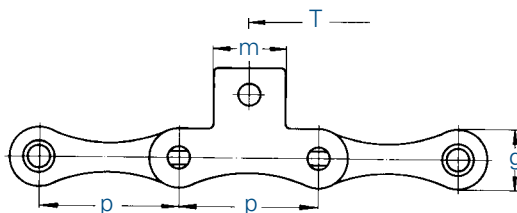
Type C

bent over chain attachments, one side



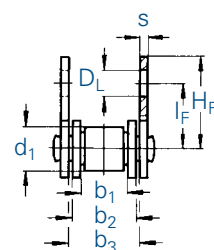
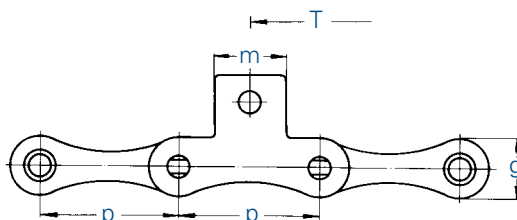
Type D

straight attachments, one side



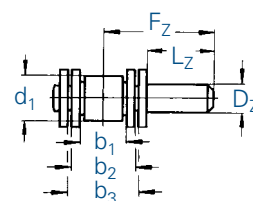
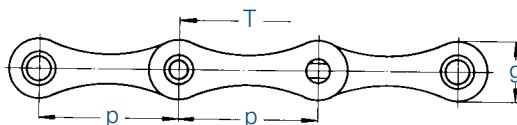
Type E

straight attachments, both sides



Type F

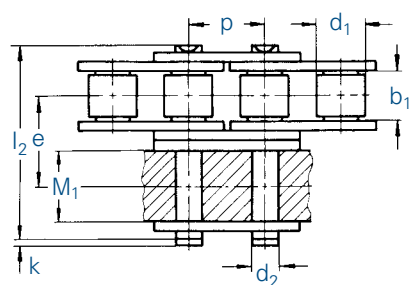
extended pin
(available on alternate sides)



Pitch		Pitch		Inner width	Inner link width	Outer plate width	Roller Ø	Plate height	Attachment dimensions										
		p		b ₁ min.	b ₂ max.	b ₃ min.	d ₁ max.	g max.	m	D _L	I	F	H	I _F	H _F	s	D _Z	L _Z	F _Z
No.	Ind.	mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
208 B MA		25,4	¹	7,75	11,30	11,43	8,51	11,8	13,0	4,5	13,1	19,3	10,0	14,7	20,3	1,60	6,0	15,0	22,4
210 B MA		31,75	¹ / ₄	9,65	13,28	13,41	10,16	14,7	15,0	5,5	16,7	26,7	10,0	17,0	26,7	1,70	6,5	20,0	28,5
212 B MA		38,1	¹ / ₂	11,68	15,62	15,75	12,07	16,1	19,0	6,6	18,5	26,0	11,0	17,6	26,0	1,80	7,0	20,0	29,8
216 B MA		50,8	²	17,02	25,40	25,60	15,88	21,0	30,0	9,0	28,9	43,0	18,0	29,0	42,5	3,00	10,0	30,0	45,9
220 B MA		63,5	² / ₁	19,56	29,00	29,20	19,05	28,5	35,0	9,0	33,1	49,6	18,0	30,5	45,7	3,75	12,0	30,0	48,4

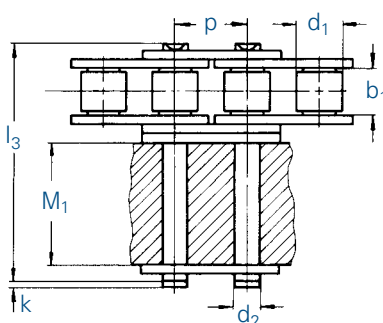
Simplex chain

with duplex connecting link



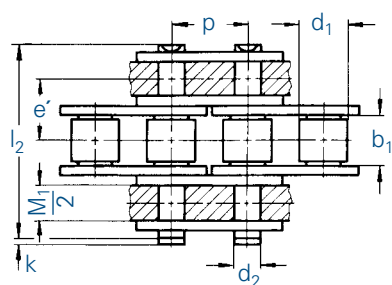
Simplex chain

with triplex connecting link



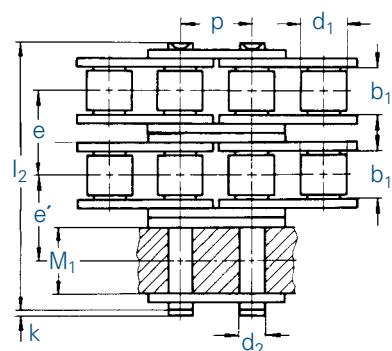
Simplex chain

with duplex connecting link



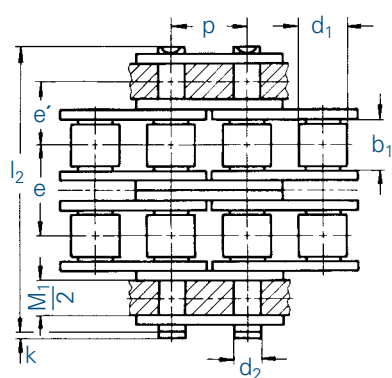
Duplex chain

with triplex connecting link



Duplex chain

with triplex connecting link



Chain		Pitch		Inner width	Roller Ø	Pin Ø	Transverse pitch		Attachment width		Projection over connecting link	Pin length	
No.	Ind.	p		b ₁ min.	d ₁ max.	d ₂ max.	e	e'	M ₁ max.	M ₂ max.	k max.	l ₂ max.	l ₃ max.
		mm	inch	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
455	¹	9,525	3/8	5,72	6,35	3,28	10,24	7,24	8,5	-	3,3	23,8	-
D 455	¹	9,525	3/8	5,72	6,35	3,28	10,24	7,24	8,5	-	3,3	-	34,0
462		12,7	1/2	7,75	8,51	4,45	13,92	10,10	11,3	25,6	3,9	31,0	-
D 462		12,7	1/2	7,75	8,51	4,45	13,92	10,10	11,3	-	3,9	-	44,9
501		15,875	5/8	9,65	10,16	5,08	16,59	11,62	13,3	30,0	4,1	36,2	-
D 501		15,875	5/8	9,65	10,16	5,08	16,59	11,62	13,3	-	4,1	-	52,8
513		19,05	3/4	11,68	12,07	5,72	19,46	13,63	15,6	34,8	4,6	42,2	-
D 513		19,05	3/4	11,68	12,07	5,72	19,46	13,63	15,6	-	4,6	-	61,7

¹ with straight side plates

For untoleranced dimensions DIN ISO 2768 c applies.

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