



A&S roller chain



More than just a chain.

A&S Roller Chain

A&S roller chain has long been recognised for its high quality and affordable reliability. It has earned a strong reputation for its excellent wear resistance, high fatigue resistance and durability and these factors have helped A&S become the most widely used chain brand in Europe.

More than just a chain

With its reliability and performance, A&S roller chain significantly contributes to reduced downtime and maintenance and has the ability to meet the needs of various applications and the continuously increasing demands of industry. To make sure that the A&S chain keeps up with these increasing demands, a series of upgrades ensure that the range now offers even more performance benefits.

Available in European (BS) and ANSI standard, A&S chain is available with a full range of standard M, K and extended bearing pin attachments and can even be supplied with a particular lubricant based on a customer's specific requirements.

The Renold Group

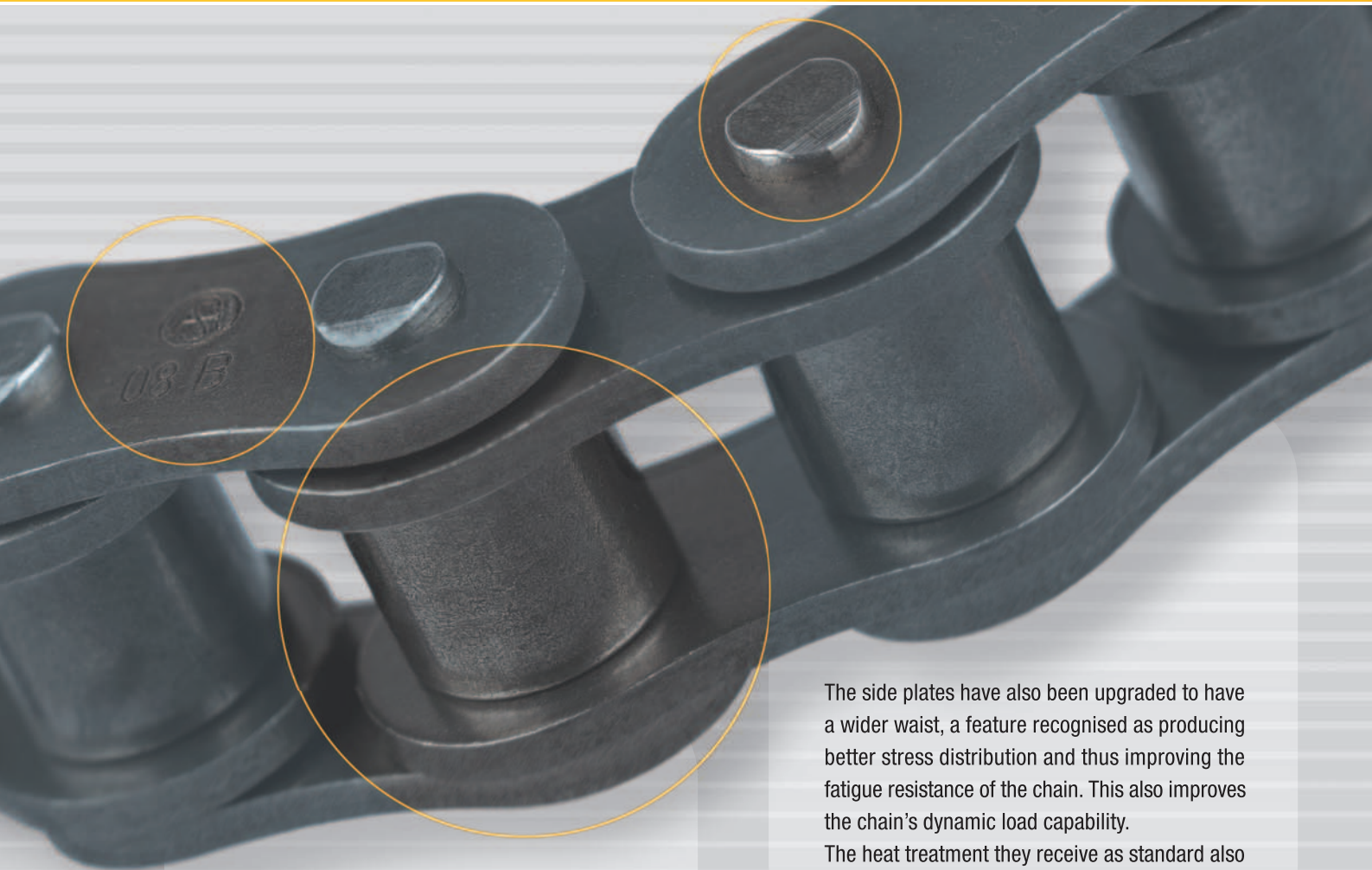
A&S roller chain is one of the many chain products from Renold, the leading manufacturer of chain and power transmission products.

With a worldwide network of sales companies and distributors, Renold offers global product availability and support for its customers.



A&S chain is available as simplex, duplex and triplex chain.
Further multi-strand versions are available on request.

More than just a chain.



New A&S chain includes solid extruded bush and roller components, not the weaker curled bushes offered by some other manufacturers.

This combination ensures that there are no concentrated areas of pressure within the bearing area which dramatically reduce the working life of the chain by increasing wear.

The side plates have also been upgraded to have a wider waist, a feature recognised as producing better stress distribution and thus improving the fatigue resistance of the chain. This also improves the chain's dynamic load capability.

The heat treatment they receive as standard also contributes to their durability.



connecting links
No 4



connecting links
No 7



connecting links
No 26



connecting links
No 30



connecting links
No 58



connecting links
No 59a



connecting links						
No DIN	4 (B)	7 (A)	26 (E)	30 (C)	58 (S)	59a (L)

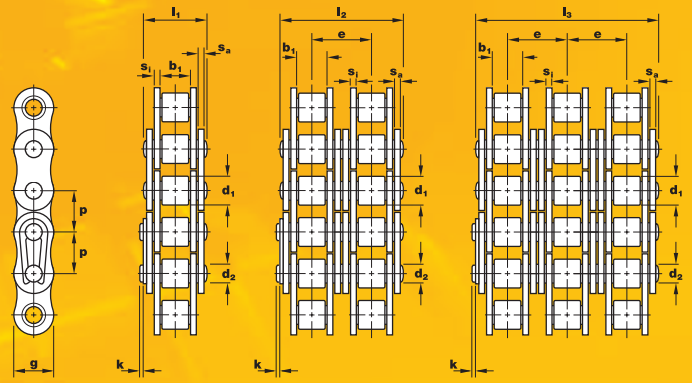


Renold Chain products that are dimensionally in line with the ISO standard far exceed the stated ISO minimum tensile strength requirements. However Renold does not consider breaking load to be a key indicator of performance because it ignores the principal factors of wear and fatigue. In these areas, Renold products are designed to produce the best possible results and independent testing proves this.

In this catalogue, where the ISO breaking load is quoted, it should be noted that we are stating that the A&S chain conforms to the ISO minimum standard.

Independent test results show that the minimum (many companies quote averages) breaking loads are far in excess of the ISO minimum.

For some chain types the product has no relevant ISO standard. In this case, the breaking loads quoted are the minimum guaranteed.



ANSI Standard

DIN 8188, Teil 1 ISO 606-2004



chain

technical data

DIN ISO	A&S	Part-No	p x b ₁	pitch p [mm]	min. inside width b ₁ [mm]	max. roller diameter d ₁ [mm]	max. plate depth g [mm]	plate thickness inner s ₁ [mm]	plate thickness outer s ₂ [mm]	max. pin diameter d ₂ [mm]	max. pin length l _{1,2,3} [mm]	max. connect pin exten. k [mm]	transverse pitch e [mm]	ISO 606 tensile strength min [N]	weight q [kg/m]
simplex-roller chain															
04C-1	25*	100 00 83	1/4" x 1/8"	6,35	3,10	3,30	6,00	0,73	0,73	2,31	9,10	2,50		3 500	0,13
06C-1	35*	100 00 86	3/8" x 3/16"	9,525	4,68	5,08	9,00	1,25	1,25	3,58	13,20	3,30		7 900	0,35
08A-1	40	100 00 90	1/2" x 5/16"	12,70	7,85	7,95	12,00	1,50	1,50	3,96	17,80	3,90		13 900	0,60
10A-1	50	100 00 95**	5/8" x 3/8"	15,875	9,40	10,16	15,00	2,00	2,00	5,08	21,80	4,10		21 800	1,00
-	50HV	100 02 49	5/8" x 3/8"	15,875	9,40	10,16	14,50	2,40	2,40	5,08	22,00	4,10		36 800	1,20
12A-1	60	100 01 02**	3/4" x 1/2"	19,05	12,57	11,91	18,00	2,40	2,40	5,94	26,90	4,60		31 300	1,50
-	60H	100 01 00	3/4" x 1/2"	19,05	12,57	11,91	17,40	3,17	3,17	5,94	28,60	4,60		31 300	1,80
-	60HV	100 08 86	3/4" x 1/2"	19,05	12,57	11,91	17,40	3,17	3,17	5,94	28,60	4,60		55 000	1,80
16A-1	80	100 01 10	1" x 5/8"	25,40	15,75	15,88	24,10	3,00	3,00	7,92	33,50	5,40		55 600	2,60
-	80H	100 01 09	1" x 5/8"	25,40	15,75	15,88	23,00	4,00	4,00	7,92	35,80	5,40		55 600	2,95
-	80HV	100 08 87	1" x 5/8"	25,40	15,75	15,88	23,00	4,00	4,00	7,92	35,80	5,40		80 000	2,95
20A-1	100	100 01 16	1 1/4" x 3/4"	31,75	18,90	19,05	30,10	4,00	4,00	9,53	41,10	6,10		87 000	3,70
-	100H	100 07 91	1 1/4" x 3/4"	31,75	18,90	19,05	28,90	4,80	4,80	9,53	42,60	6,10		87 000	4,40
24A-1	120	100 01 20	1 1/2" x 1"	38,10	25,22	22,23	36,20	4,80	4,80	11,10	50,80	6,60		125 000	5,50
28A-1	140	100 01 24	1 3/4" x 1"	44,45	25,22	25,40	42,20	5,60	5,60	12,70	54,90	7,40		170 000	7,50
32A-1	160	100 01 26	2" x 1 1/4"	50,80	31,55	28,58	48,20	6,30	6,30	14,27	65,50	7,90		223 000	9,70
40A-1	200	100 09 14	2 1/2" x 1 1/2"	63,50	37,85	39,68	60,30	8,10	8,10	19,84	80,30	10,00		347 000	15,80
duplex-roller chain															
04C-2	25-2*	100 00 84	1/4" x 1/8"	6,35	3,10	3,30	6,00	0,73	0,73	2,31	15,50	2,50	6,40	7 000	0,26
06C-2	35-2*	100 00 87	3/8" x 3/16"	9,525	4,68	5,08	9,00	1,25	1,25	3,58	23,40	3,30	10,13	15 800	0,70
08A-2	40-2	100 00 91	1/2" x 5/16"	12,70	7,85	7,95	12,00	1,50	1,50	3,96	32,30	3,90	14,38	27 800	1,20
10A-2	50-2	100 00 96	5/8" x 3/8"	15,875	9,40	10,16	15,00	2,00	2,00	5,08	39,90	4,10	18,11	43 600	1,90
12A-2	60-2	100 01 03	3/4" x 1/2"	19,05	12,57	11,91	18,00	2,40	2,40	5,94	49,80	4,60	22,78	62 600	2,90
-	60H-2	100 01 01	3/4" x 1/2"	19,05	12,57	11,91	17,40	3,17	3,17	5,94	54,70	4,60	26,11	62 600	3,50
16A-2	80-2	100 01 11	1" x 5/8"	25,40	15,75	15,88	24,10	3,00	3,00	7,92	62,70	5,40	29,29	111 200	5,00
-	80H-2	100 02 86	1" x 5/8"	25,40	15,75	15,88	23,00	4,00	4,00	7,92	68,10	5,40	32,59	112 200	5,75
20A-2	100-2	100 01 17	1 1/4" x 3/4"	31,75	18,90	19,05	30,10	4,00	4,00	9,53	77,00	6,10	35,76	174 000	7,30
24A-2	120-2	100 01 21	1 1/2" x 1"	38,10	25,22	22,23	36,20	4,80	4,80	11,10	96,30	6,60	45,44	250 000	10,90
28A-2	140-2	100 01 25	1 3/4" x 1"	44,45	25,22	25,40	42,20	5,60	5,60	12,70	103,00	7,40	48,87	340 000	14,40
32A-2	160-2	100 01 27	2" x 1 1/4"	50,80	31,55	28,58	48,20	6,30	6,30	14,27	124,00	7,90	58,55	446 000	19,00
triplex-roller chain															
04C-3	25-3*	100 00 85	1/4" x 1/8"	6,35	3,10	3,30	6,00	0,73	0,73	2,31	21,80	2,50	6,40	10 500	0,39
06C-3	35-3*	100 00 88	3/8" x 3/16"	9,525	4,68	5,08	9,00	1,25	1,25	3,58	33,50	3,30	10,13	23 700	1,05
08A-3	40-3	100 00 92	1/2" x 5/16"	12,70	7,85	7,95	12,00	1,50	1,50	3,96	46,70	3,90	14,38	41 700	1,80
10A-3	50-3	100 00 97	5/8" x 3/8"	15,875	9,40	10,16	15,00	2,00	2,00	5,08	57,90	4,10	18,11	65 400	2,90
12A-3	60-3	100 01 04	3/4" x 1/2"	19,05	12,57	11,91	18,00	2,40	2,40	5,94	72,60	4,60	22,78	93 900	4,30
-	60H-3	100 02 87	3/4" x 1/2"	19,05	12,57	11,91	17,40	3,17	3,17	5,94	80,80	4,60	26,11	93 900	5,20
16A-3	80-3	100 01 12	1" x 5/8"	25,40	15,75	15,88	24,10	3,00	3,00	7,92	91,70	5,40	29,29	166 800	7,50
20A-3	100-3	100 01 18	1 1/4" x 3/4"	31,75	18,90	19,05	30,10	4,00	4,00	9,53	113,00	6,10	35,76	261 000	11,00
24A-3	120-3	100 01 22	1 1/2" x 1"	38,10	25,22	22,23	36,20	4,80	4,80	11,10	141,00	6,60	45,44	375 000	16,50
28A-3	140-3	100 01 91	1 3/4" x 1"	44,45	25,22	25,40	42,20	5,60	5,60	12,70	152,00	7,40	48,87	510 000	21,70
32A-3	160-3	100 01 92	2" x 1 1/4"	50,80	31,55	28,58	48,20	6,30	6,30	14,27	182,00	7,90	58,55	669 000	28,30

*bush diameter

**straight side plates available

connecting links
No 4



connecting links
No 7



connecting links
No 26



connecting links
No 30



connecting links
No 58



connecting links
No 59a



connecting links						
No DIN	4 (B)	7 (A)	26 (E)	30 (C)	58 (S)	59a (L)
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Renold Chain products that are dimensionally in line with the ISO standard far exceed the stated ISO minimum tensile strength requirements. However Renold does not consider breaking load to be a key indicator of performance because it ignores the principal factors of wear and fatigue. In these areas, Renold products are designed to produce the best possible results and independent testing proves this.

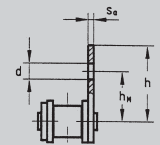
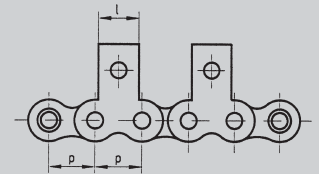
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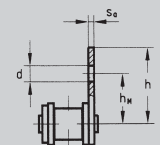
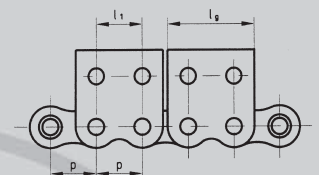
Roller chain with M1 attachments

roller		technical data									
DIN ISO	inner plate	outer plate	l [mm]	h [mm]	h _M [mm]	d [mm]	s ₁ [mm]	s _a [mm]	g/2 [mm]		
04	110 10 58	110 10 59	5,80	10,00	6,80	2,30	0,57	0,57	2,50	WN*	
05 B	110 03 97	110 07 09	7,80	11,90	8,60	2,30	0,73	0,73	3,40	WN 	
06 B	110 02 48	110 02 44	8,00	14,50	10,10	3,30	1,25	1,00	4,00	WN	
08 B	111 37 63	111 37 64	11,00	20,80	13,00	4,30	1,50	1,50	5,80	DIN 	
08 B	110 05 09	110 05 05	11,00	20,80	13,70	4,30	1,50	1,50	5,80	WN	
10 B	110 07 51	110 07 47	14,00	24,90	16,50	5,30	1,50	1,50	7,30	DIN	
12 B	111 37 87	111 37 88	18,00	28,20	21,00	6,60	1,76	1,76	8,10	DIN	
12 B	110 09 64	110 09 60	18,00	28,20	18,50	6,40	1,76	1,76	8,10	WN	
16 B	111 37 31	111 37 32	24,00	39,70	23,00	6,60	3,70	3,00	10,30	DIN	
16 B	110 15 67	110 15 63	24,00	40,00	27,40	8,40	3,70	3,00	10,00	WN	
20 B	111 37 99	111 38 00	30,00	47,50	30,50	8,40	4,40	3,50	12,50	DIN	
20 B	110 17 85	110 17 81	30,00	47,50	33,00	10,40	4,40	4,10	12,50	WN	
24 B	110 18 95	110 18 91	36,00	61,50	42,70	10,50	5,40	5,00	16,70	WN	
08 A	110 67 96	110 22 86	9,50	17,50	12,70	3,30	1,50	1,50	5,50	DIN 	
10 A	110 34 19	110 34 67	12,70	24,60	15,90	5,30	2,00	2,00	7,20	DIN	
12 A	110 76 37	110 76 42	15,90	26,00	18,30	5,30	2,40	2,40	8,60	DIN	
16 A	111 37 25	111 30 95	24,00	39,70	24,60	6,60	3,00	3,00	10,30	DIN	



Roller chain with M2 attachments

roller		technical data									
DIN ISO	inner plate	outer plate	h [mm]	h _M [mm]	d [mm]	s ₁ [mm]	s _a [mm]	g/2 [mm]	l _g [mm]	l ₁ [mm]	
04	110 11 22	110 11 25	10,00	6,80	2,30	0,57	0,57	2,50	11,10	6,00	WN*
05 B	110 05 99	110 01 26	11,90	8,60	2,30	0,73	0,73	3,40	14,80	8,00	WN 
06 B	110 02 50	110 02 46	14,50	10,10	3,30	1,25	1,00	4,00	17,60	9,50	WN
08 B	111 37 66	111 37 67	20,80	13,00	4,30	1,50	1,50	5,80	24,40	12,70	DIN 
08 B	110 05 11	110 05 07	20,80	13,70	4,30	1,50	1,50	5,80	24,40	12,70	WN
10 B	110 07 53	110 07 49	24,90	16,50	5,30	1,50	1,50	7,30	29,90	15,90	DIN
12 B	111 37 90	111 37 91	28,20	21,00	6,60	1,76	1,76	8,10	35,40	19,00	DIN
12 B	110 09 66	110 09 62	28,20	18,50	6,40	1,76	1,76	8,10	35,40	19,00	WN
16 B	111 37 34	111 37 35	39,70	23,00	6,60	3,70	3,00	10,30	46,20	25,40	DIN
16 B	110 15 69	110 15 65	40,00	27,40	8,40	3,70	3,00	10,00	45,40	25,40	WN
20 B	111 38 02	111 38 03	47,50	30,50	8,40	4,40	3,50	12,50	57,00	31,70	DIN
20 B	110 17 87	110 17 83	47,50	33,00	10,40	4,40	4,10	12,50	57,00	31,70	WN
24 B	110 18 97	110 18 93	61,50	42,70	10,50	5,40	5,00	16,70	71,50	38,10	WN
08 A	110 67 98	110 68 01	17,50	12,70	3,30	1,50	1,50	5,50	24,00	12,70	DIN 
10 A	110 54 20	110 56 27	24,60	15,90	5,30	2,00	2,00	7,20	29,90	15,80	DIN
12 A	110 76 39	110 26 31	27,70	18,30	5,30	2,40	2,40	8,60	35,60	19,00	DIN
16 A	111 30 99	111 37 27	39,70	24,60	6,60	3,00	3,00	10,30	46,20	25,40	DIN



For base chain measurements, please see pages 4 and 6.

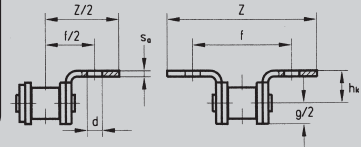
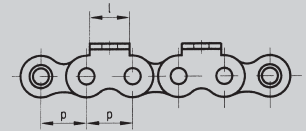
*WN = works standard, please note measurement differences

More than just a chain.



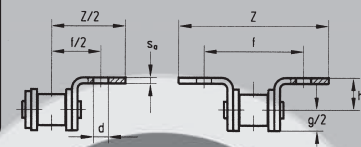
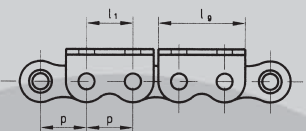
Roller chain with K1 attachments

roller		technical data											
DIN ISO	inner plate	outer plate	l [mm]	h_K [mm]	d [mm]	s_1 [mm]	s_a [mm]	$g/2$ [mm]	f [mm]	Z [mm]	guiding dim.		
04	110 11 05	110 11 06	5,80	4,50	2,30	0,57	0,57	2,50	11,20	17,60	WN*		
05 B	110 01 18	110 01 19	7,80	5,30	2,30	0,73	0,73	3,40	13,50	21,50	WN		
06 B	110 02 60	110 02 56	8,00	6,70	3,30	1,25	1,00	4,00	19,60	28,50	WN		
08 B	111 37 69	111 37 70	11,00	8,90	4,30	1,50	1,50	5,80	25,40	41,70	DIN		
08 B	110 05 21	110 05 17	11,00	8,50	4,30	1,50	1,50	5,80	27,60	41,90	WN		
10 B	111 07 63	110 07 59	14,00	10,30	5,30	1,50	1,50	7,30	31,80	49,60	DIN		
12 B	111 37 93	111 37 94	18,00	13,50	6,60	1,76	1,76	8,10	38,10	52,70	DIN		
12 B	110 09 76	110 09 72	18,00	12,20	6,40	1,76	1,76	8,10	35,20	54,60	WN		
16 B	111 37 37	111 37 38	24,00	15,90	6,60	3,70	3,00	10,30	50,80	85,60	DIN		
16 B	110 15 79	110 15 75	24,00	17,00	8,40	3,70	3,00	10,00	58,00	83,80	WN		
20 B	111 38 05	111 38 06	30,00	19,90	8,40	4,40	3,50	12,50	63,50	100,00	DIN		
20 B	110 17 97	110 17 93	30,00	21,00	10,40	4,40	4,10	12,50	69,00	98,70	WN		
24 B	110 19 07	110 19 03	36,00	28,00	10,50	5,40	5,00	16,70	88,00	124,70	WN		
08 A	110 22 82	110 22 74	9,50	7,90	3,30	1,50	1,50	5,50	25,40	35,80	DIN		
10 A	110 59 99	110 61 97	12,70	10,30	5,30	2,00	2,00	7,20	31,80	49,80	DIN		
12 A	110 76 51	110 26 95	15,90	11,90	5,30	2,40	2,40	8,60	38,10	58,00	DIN		
16 A	111 31 06	111 31 07	24,00	15,90	6,60	3,00	3,00	10,30	50,80	82,60	DIN		



Roller chain with K2 attachments



roller		technical data											
DIN ISO	inner plate	outer plate	h_K [mm]	d [mm]	s_1 [mm]	s_a [mm]	$g/2$ [mm]	l_g [mm]	l_1 [mm]	f [mm]	Z [mm]	guiding dim.	
04	110 11 58	110 37 66	4,50	2,30	0,57	0,57	2,50	11,10	6,00	11,20	17,60	WN*	
05 B	110 11 11	110 01 23	5,30	2,30	0,73	0,73	3,40	14,80	8,00	13,50	21,50	WN	
06 B	110 02 62	110 02 58	6,70	3,30	1,25	1,00	4,00	17,60	9,50	19,60	28,50	WN	
08 B	111 37 72	111 37 73	8,90	4,30	1,50	1,50	5,80	24,40	12,70	25,40	41,70	DIN	
08 B	110 05 23	110 05 19	8,50	4,30	1,50	1,50	5,80	24,40	12,70	27,60	41,90	WN	
10 B	111 07 65	110 07 61	10,30	5,30	1,50	1,50	7,30	29,90	15,90	31,80	49,60	DIN	
12 B	111 37 96	111 37 97	13,50	6,60	1,76	1,76	8,10	35,40	19,00	38,10	52,70	DIN	
12 B	110 09 78	110 09 74	12,20	6,40	1,76	1,76	8,10	35,40	19,00	35,20	54,60	WN	
16 B	111 37 40	111 37 41	15,90	6,60	3,70	3,00	10,30	46,20	25,40	50,80	85,60	DIN	
16 B	110 15 81	110 15 77	17,00	8,40	3,70	3,00	10,00	45,40	25,40	58,00	83,80	WN	
20 B	111 38 08	111 38 09	19,90	8,40	4,40	3,50	12,50	57,00	31,70	63,50	100,00	DIN	
20 B	110 17 99	110 17 95	21,00	10,40	4,40	4,10	12,50	57,00	31,70	69,00	98,70	WN	
24 B	110 19 09	110 19 05	28,00	10,50	5,40	5,00	16,70	71,50	38,10	88,00	124,70	WN	
08 A	110 68 12	110 22 76	7,90	3,30	1,50	1,50	5,50	24,00	12,70	25,40	35,80	DIN	
10 A	110 65 48	110 65 49	10,30	5,30	2,00	2,00	7,20	29,90	15,80	31,80	49,80	DIN	
12 A	110 76 53	110 26 94	11,90	5,30	2,40	2,40	8,60	35,60	19,00	38,10	58,00	DIN	
16 A	111 31 11	111 37 29	15,90	6,60	3,00	3,00	10,30	46,20	25,40	50,80	82,60	DIN	

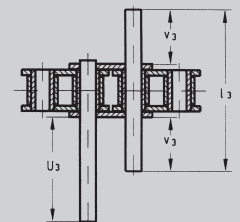
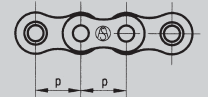
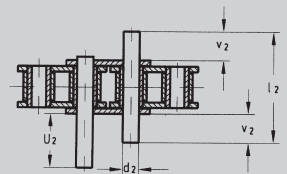
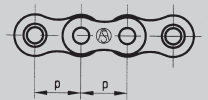


For base chain measurements, please see pages 4 and 6.

*WN = works standard, please note measurement differences

Roller chain with extended pins

roller		technical data										
DIN ISO	pin	d ₂ [mm]	l ₂ [mm]	u ₂ [mm]	v ₂ [mm]	d ₂ [mm]	l ₃ [mm]	u ₃ [mm]	v ₃ [mm]			
04	110 00 59 110 00 64	1,85	12,50	6,30	3,50	1,85	18,00	11,80	6,20			
	05 B-1	110 74 22 110 01 21	2,31	13,60	6,40	3,60	2,31	19,10	11,90	6,30		
	06 B-1	110 02 70 110 02 76	3,28	23,00	11,30	6,10	3,28	33,30	21,60	11,20		
	08 B-1	110 58 79 110 59 15	4,45	30,40	14,80	7,90	4,45	44,30	28,70	14,80		
	10 B-1	110 59 38 110 65 55	5,08	35,40	17,60	9,30	5,08	52,00	34,20	17,60		
12 B-1	110 59 57 110 59 70	5,72	41,40	20,70	10,90	5,72	60,90	40,20	20,70			
16 B-1	110 15 90 110 16 08	8,28	66,80	33,30	17,40	8,28	98,70	65,20	33,30			
20 B-1	110 18 07 110 18 23	10,19	77,90	38,30	20,00	10,19	114,40	74,80	38,30			
24 B-1	110 19 34 110 19 35	14,63	101,00	50,40	26,20	14,63	149,40	98,80	50,40			
08 A-1	110 23 00 110 34 00	3,96	30,80	15,20	8,00	3,96	45,10	29,50	15,20			
	111 38 69	3,96	25,10	9,50	-					ANSI		
10 A-1	110 24 90 110 25 06	5,08	38,40	19,00	10,10	5,08	56,50	37,10	19,10		ANSI	
												111 38 70
12 A-1	110 27 18 110 27 35	5,94	48,10	24,00	12,60	5,94	70,90	46,80	24,00		ANSI	
												111 38 71
16 A-1	110 29 15 110 29 32	7,92	61,30	30,80	16,10	7,92	90,60	60,10	30,70		ANSI	
												111 38 72



For base chain measurements, please see pages 4 and 6.

More than just a chain.



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- ▶ *Solid extruded roller*
- ▶ *Wider waisted plates*
- ▶ *Hardened and shot-peened plates*
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