Roller Chains
American Standard, H-Series

Small Alterations –
High Fatigue Strength

Links A and B available for all chains.

Advantages of Rexnord "H"-Chains

The pins for Rexnord roller chains of the heavy series – as well as the roller chains American standard – are made from high quality case hardened steel.

For both the surface hardness of approx. 60HRc guarantees the excellent Rexnord wear resistance. The link plates however are thicker. They are taken from the next larger chain (see page 42).

The fatigue strength is increased by 40% for Rexnord chains of the heavy series. This is also valid for the allowable loading.

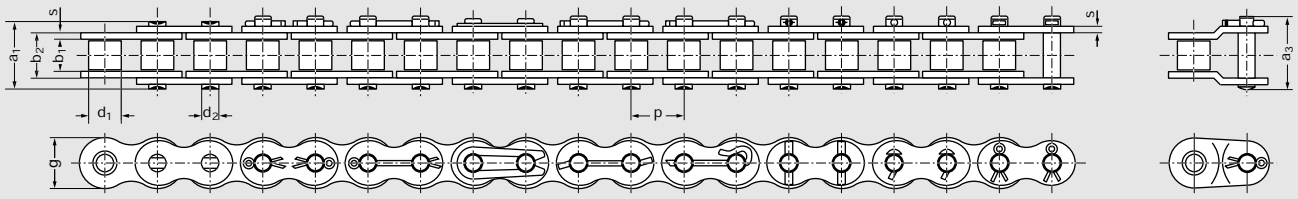
The statement that there is no difference in breaking force between American standard and heavy series will not effect the above mentioned 40% higher allowable loading.

It is the cross section of the link plates which determines the fatigue strength and also the allowable loading.

The pins of the ANSI-series are not critical in respect to fatigue strength, they only limit the breaking force.

Breaking force however is not valid for dynamic load. It is only significant with static load and to investigate so called security factors.

Roller Chains, Single Strand, ANSI
Heavy Series with Higher Fatigue Resistance (Thicker Link Plates)

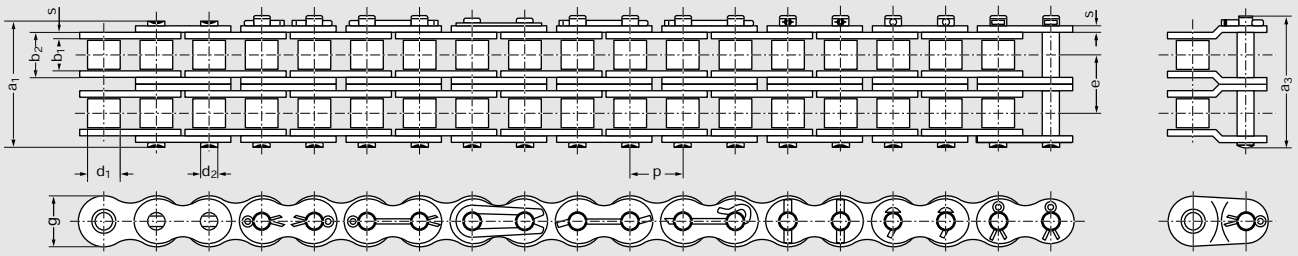


Roller link	Pin link	Pin link	Pin link	Pin link or Connecting link Rollpin	Connecting link T-head cotter	Connecting link double cotter	Offset link single
B	**A**	**AS**	**AT**	**AK**	**M**	**U**	**L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
60 H	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	–	28,8	32,0	1,15	31 800	1,97		x		x
80 H	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	–	35,9	41,0	1,94	56 700	3,2		x		x
100 H	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	–	42,8	48,2	2,76	88 500	4,4		x		x
120 H	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	–	53,0	59,0	4,12	127 000	6,4		x		x
140 H	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	–	56,6	62,6	4,91	172 400	8,3	**AT**	x	x	x
160 H	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	–	67,2	72,3	6,69	226 800	11,5	**AT**	x	x	x
200 H	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	–	84,0	93,5	11,42	353 800	20,0	**AT**	x	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

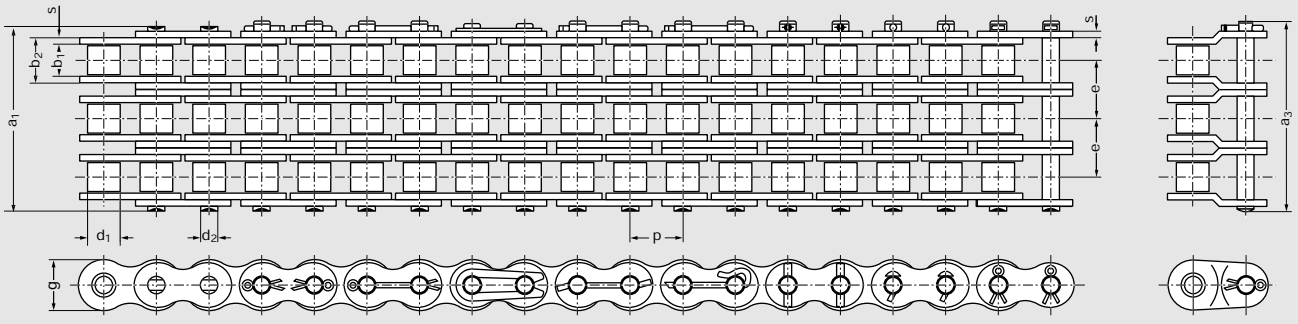
Roller Chains, Double Strand, ANSI
Heavy Series with Higher Fatigue Resistance (Thicker Link Plates)



Roller link **B** | Pin link **A** | Pin link **AS** | Pin link **AT** | Pin link or Connecting link Rollpin **AK** | Connecting link T-head cotter **M** | Connecting link double cotter **U** | Offset link single **L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
60 H - 2	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	26,1	54,9	58,0	2,3	63 600	3,95		x		x
80 H - 2	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	32,6	68,6	73,7	3,88	113 400	6,3		x		x
100 H - 2	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	39,12	82,0	97,8	5,52	177 000	9,0		x		x
120 H - 2	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	48,91	101,8	109,5	8,36	254 000	12,6		x		x
140 H - 2	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	52,2	108,7	116,0	9,82	344 800	16,2	**AK**	x	x	x
160 H - 2	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	61,89	128,6	136,8	13,4	453 600	22,0	**AK**	x	x	x
200 H - 2	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	78,3	161,6	171,2	22,84	707 600	39,0	**AT**	x	x	x

Roller Chains, Triple Strand, ANSI
Heavy Series with Higher Fatigue Resistance (Thicker Link Plates)



Roller link **B** | Pin link **A** | Pin link **AS** | Pin link **AT** | Pin link or Connecting link Rollpin **AK** | Connecting link T-head cotter **M** | Connecting link double cotter **U** | Offset link single **L**

ANSI-No.	Pitch p inch	Pitch p mm	Roller Width b_1 min. mm	Roller Diameter d_1 max. mm	Pin Diameter d_2 max. mm	Inner Width b_2 max. mm	Plate Thickness s mm	Linkplate Height g max. mm	Transverse e mm	Pin Width a_1 max. mm	Overall Width a_3 max. mm	Bearing Area A cm^2	Required*) Ultimate Strength min. F_B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts S	Loose Parts U	Loose Parts L
60 H - 3	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	26,1	81,1	84,4	3,45	95 400	5,8		x		x
80 H - 3	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,5	32,6	101,2	106,3	5,82	170 100	9,6		x		x
100 H - 3	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	39,12	120,0	126,6	8,3	265 500	13,4		x		x
120 H - 3	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	48,91	150,8	158,7	12,35	381 000	19,5		x		x
140 H - 3	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	52,2	160,9	168,3	14,3	517 200	24,7	**AK**	x	x	x
160 H - 3	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	61,89	198,0	198,7	20,1	680 400	29,4	**AK**	x	x	x
200 H - 3	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	78,3	239,1	248,7	34,26	1 061 400	58,0	**AT**	x	x	x

*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.