

Roller Chains, American Standard, HE-Series



*Extremely High
Shock Resistance*

Links A and B available for all chains.

Advantages of Rexnord "HE"-Chains

We use for the Rexnord roller chains of the HE-series link plates of the next larger chain that means compared with the standard series an increase of 40% for fatigue resistance. For heavy series with HE-series we use pins made from through hardened material. Its higher shear and yield strength increase the breaking force and the shock resistance.

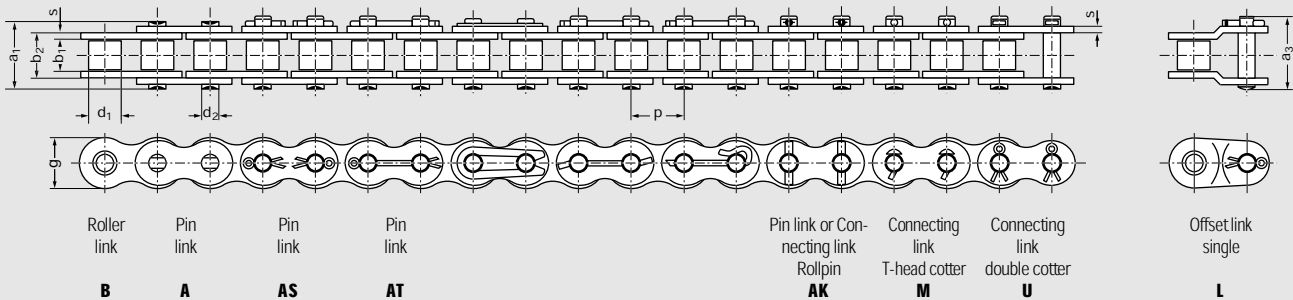
Pins made from through hardened material have not the same high surface hardness as case hardened pins from the standard or "H"-series. That means a slightly lower wear resistance.

In case high resistance strength is important and sufficient lubrication cannot be guaranteed and additional inductive surface hardening for the pins should be considered. Thus will increase the surface

hardness above 60 HRC and besides the already existing high fatigue strength and shock resistance an extremely high wear resistance will be yielded.

Thickness of link plates are nominal sizes. On request we will state exact dimensions and tolerances.

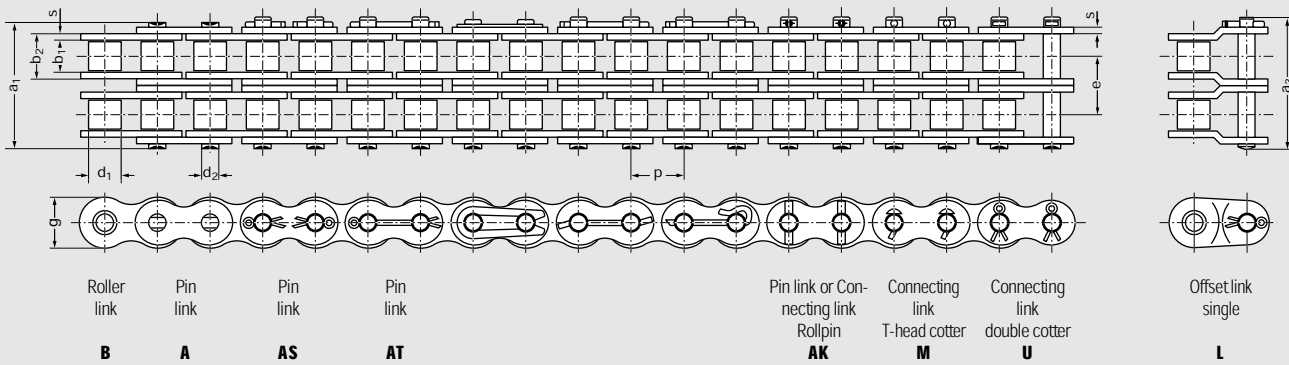
Roller Chains, Single Strand, ANSI, Heavy Series with Higher Fatigue Resistance (Thicker Link Plates and Higher Breaking Force)



ANSI- No.	Pitch p		Roller Width	Roller Diameter	Pin Diameter	Inner Width	Plate Thickness	Linkplate Height	Trans- verse	Pin Width	Overall Width	Bearing Area	Required*) Ultimate Strength min. F _B N	Weight ≈ q kg/m	Outer Link Stand. Type	Loose Parts		
	inch	mm	b ₁ min. mm	d ₁ max. mm	d ₂ max. mm	b ₂ max. mm	s mm	g max. mm	e mm	a ₁ max. mm	a ₂ max. mm	A cm ²			Type	S	U	L
60 HE	0,75	19,05	12,57	11,91	5,94	19,35	3,05	17,7	-	28,8	32,0	1,15	42 000	1,97		x		x
80 HE	1,00	25,4	15,75	15,88	7,92	24,3	4,0	23,3	-	35,9	41,0	1,94	75 600	3,2		x		x
100 HE	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	-	42,8	48,2	2,76	113 400	4,4		x		x
120 HE	1,50	38,1	25,22	22,23	11,1	37,0	5,5	34,4	-	53,0	59,0	4,1	155 700	6,4		x		x
140 HE	1,75	44,45	25,22	25,4	12,7	38,7	6,3	40,8	-	56,6	62,6	4,94	209 100	8,3	AT	x	x	x
160 HE	2,00	50,8	31,55	28,58	14,27	46,9	7,0	47,8	-	67,2	72,3	6,69	266 900	11,8	AT	x	x	x
200 HE	2,50	63,5	37,85	39,68	19,84	57,6	9,5	60,0	-	84,0	93,5	11,42	405 000	20,0	AT	x	x	x

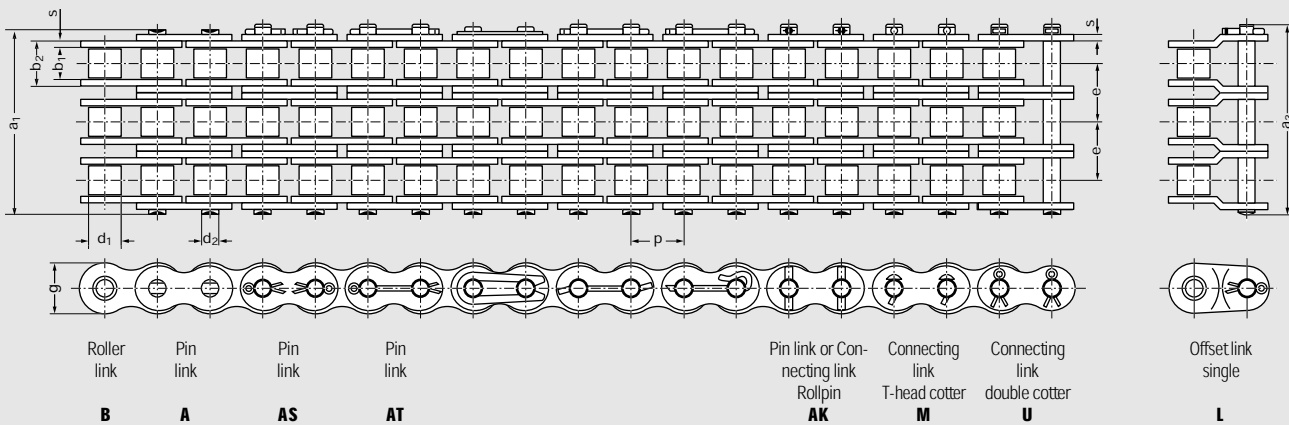
*) On request, we shall advise the effective higher Rexnord breaking load values and fatigue resistance values.

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



ANSI- No.	Pitch p		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	Trans- verse 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.			Loose Parts		
	inch	mm													Type	S	U	L		
80 HE - 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	151 200	5,3		x		x		
100 HE - 2	1,25	31,75	18,9	19,05	9,53	29,0	4,7	29,2	39,12	82,0	87,8	5,52	226 800	9,0		x		x		
120 HE - 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	311 400	12,6		x		x		
140 HE - 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	418 200	15,8	AK	x	x	x		
160 HE - 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	533 800	22,0	AK	x	x	x		
200 HE - 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	810 000	39,0	AT	x	x	x		

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



ANSI- No.	Pitch p		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	Trans- verse 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.			Loose Parts		
	inch	mm													Type	S	U	L		
80 HE - 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	226 800	9,6		x		x		
100 HE - 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	340 200	13,4		x		x		
120 HE - 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	467 100	18,5		x		x		
140 HE - 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	627 300	24,7	AK	x	x	x		
160 HE - 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	800 700	29,4	AK	x	x	x		
200 HE - 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	1215 000	58,0	AT	x	x	x		

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