

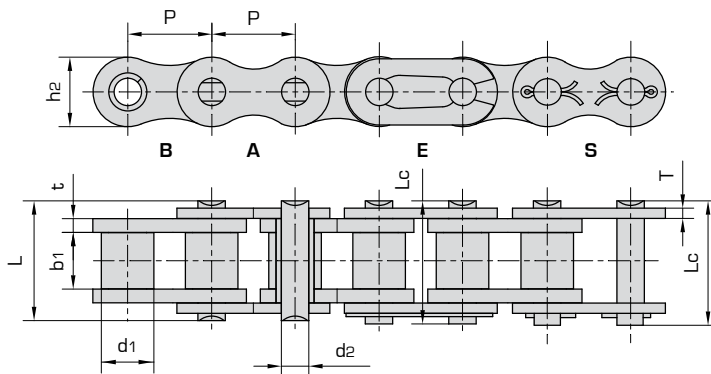
Short pitch heavy duty precision roller chains (A series)

heavy duty series with hard chromized pins

Simplex roller chains & bush chains

Part nr.	DIN/ISO 606 Chain no.	ANSI Chain no.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness
							L max	Lc max		
							P	d1 max		
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
10035-1HCP	*06C-1H	*35H-1	9,525	5,08	4,77	3,58	13,30	14,30	9,00	1,50
10040-1HCP	08A-1H	40H-1	12,700	7,95	7,85	3,96	18,80	19,90	12,00	2,03
10050-1HCP	10A-1H	50H-1	15,875	10,16	9,40	5,08	22,10	23,40	15,09	2,42
10060-1HCP	12A-1H	60H-1	19,050	11,91	12,57	5,94	29,20	31,00	18,00	3,25
10080-1HCP	16A-1H	80H-1	25,400	15,88	15,75	7,92	36,20	37,70	24,00	4,00
100100-1HCP	20A-1H	100H-1	31,750	19,05	18,90	9,53	43,60	46,90	30,00	4,80
100120-1HCP	24A-1H	120H-1	38,100	22,23	22,22	11,10	53,50	57,50	35,70	5,60
100140-1HCP	28A-1H	140H-1	44,450	25,40	25,22	12,70	57,60	62,20	41,00	6,40
100160-1HCP	32A-1H	160H-1	50,800	28,58	31,55	14,27	68,20	73,00	47,80	7,20
100180-1HCP	36A-1H	180H-1	57,150	35,71	35,48	17,46	75,90	81,60	53,60	8,00
100200-1HCP	40A-1H	200H-1	63,500	39,68	37,85	19,85	86,60	93,50	60,00	9,50
100240-1HCP	48A-1H	240H-1	76,200	47,63	47,35	23,81	109,60	115,90	72,39	12,70

* Bush chain: d1 in the table indicates the external diameter of the bush.



Ultimate tensile strength	Average tensile strength	Weight per meter	Available chain parts						
Q min	Q0	q	E	S	L	C	A	B	
kN/lbf	kN	kg/m							
7,90/1795	10,8	0,41	X				X		
14,10/3205	19,1	0,82	X				X		
22,20/5045	30,2	1,25	X				X		
31,80/7227	42,7	1,87	X				X		
56,70/12886	71,4	3,10	X				X		
88,50/20114	112,4	4,52		X			X		
127,00/28864	160,9	6,60		X			X		
172,40/39182	217,3	8,30		X			X		
226,80/51545	285,8	10,30		X			X		
281,0/63682	341,8	14,83		X			X		
353,80/80409	444,5	19,16		X			X		
510,30/115977	622,5	30,40		X			X		



Donghua's Heavy Duty Series are designed for tough and demanding applications and environments. The increased plate thickness offers higher fatigue resistance. In combination with straight side plates it offers good wear resistant properties for conveyor applications. Donghua CP roller chains are built with hard chromized pins. The surface hardness is more than 1100 HV10 offering a +30% higher wear resistance than standard case hardened pins. Donghua CP roller chains are used for tough environments, high speed, and high frequency of movement in the bearing area resisting wear much better than case hardened pins. In combination with highly sophisticated lubricant this technology brings a unique performance in wear resistance. All Donghua roller chains are: Pre-loaded, Fatigue resistant, Wear resistant and Pre-lubricated. Donghua simplex, duplex and triplex roller chains are manufactured according to ISO 606 DIN8187, standard pre-loaded, pre-lubricated, do have seamless rollers and are marked with production batch code number for complete traceability. All Donghua roller chains are sealed in plastic bags and packed in cardboard boxes with clear ISO 606 DIN descriptions and safety instructions. Standard packaging size is 5 meter box, reels are available on request. Cut to length service is available on request. Several test certificates like breaking load, length tolerance and material analyses are possible and available on request. Rollers chains which are needed for 'run as pairs' applications can be matched as pairs on request. DIN, 1/2DIN and 1/3DIN length tolerance are possible, please ask us for a quotation. For high temperature, low temperature, food application or special environments different kind of special lubricants are available. Please ask our sales team for any special needs. For drive chain calculation and right dimension check, please contact our engineering department, also see drive chain calculation data sheet on page 301. By filling this data sheet and sending this to our engineering department you will receive a detailed drive chain calculation including life time expectation. Sprockets are available for all roller chains, with pilot bore, fixed bore, keyway, setscrew or bearing bore with grooves. Standard toothing, hardened toothing or special toothing are possible with pilot bore, fixed bore or taper bush. Chain tools, tensioners and chain lubricants please see page 302-310.

Solution Range