

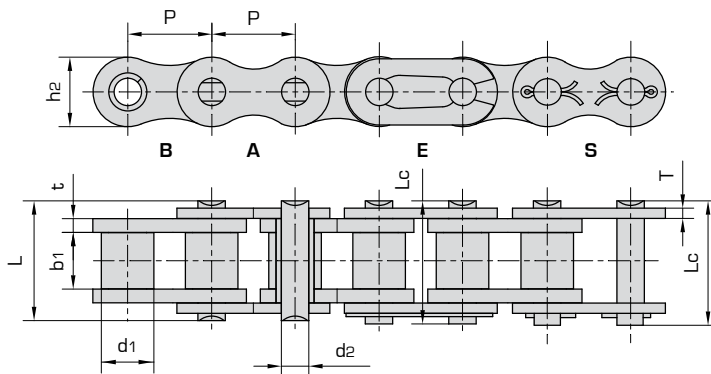
Short pitch heavy duty precision roller chains (A series)

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	b1 min	d2 max	L max	Lc max	h2 max	T max	
			mm	mm	mm	mm	mm	mm	mm	mm	mm
10050-1HVCP	10A-1HV	50HV-1	15,875	10,16	9,40	5,08	22,10	23,40	15,09	2,42	
10060-1HVCP	12A-1HV	60HV-1	19,050	11,91	12,57	5,94	29,20	31,00	18,00	3,25	
10080-1HVCP	16A-1HV	80HV-1	25,400	15,88	15,75	7,92	36,20	37,70	24,00	4,00	
100100-1HVCP	20A-1HV	100HV-1	31,750	19,05	18,90	9,53	43,60	46,90	30,00	4,80	
100120-1HVCP	24A-1HV	120HV-1	38,100	22,23	25,22	11,10	53,50	57,50	35,70	5,60	
100140-1HVCP	28A-1HV	140HV-1	44,450	25,40	25,22	12,70	57,60	62,20	41,00	6,40	
100160-1HVCP	32A-1HV	160HV-1	50,800	28,58	31,55	14,27	68,20	73,00	47,80	7,20	

* 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						
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	



All Donghua HV Series roller chains provides a up to 20% higher Tensile Strength than the standard ANSI series by using through-hardened HV Series roller chains which also provides a higher shock load resistance and is best suited for low operating speeds - up to 50 m/min. Dimensions Donghua CP roller chains are built with hard chromized pins. The surface hardness is more than 1100 HV10 offering a +30% higher wear resistance. Donghua CP roller chains are used for tough environments, high speed, high frequency of movement in the bearing area resisting wear. 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-lubrication on request, 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.