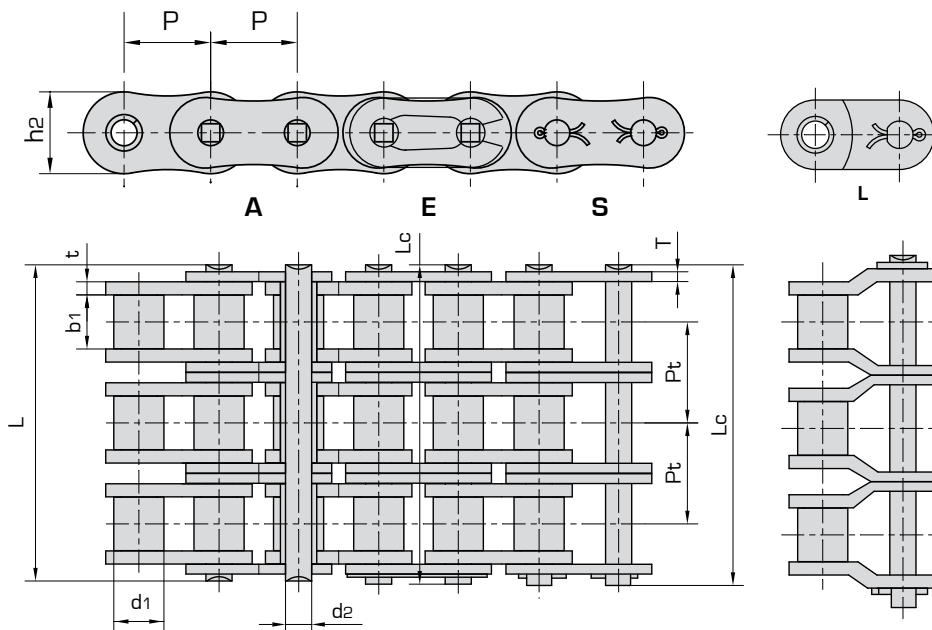


# Short pitch heavy duty precision roller chains (A series)

## heavy duty SP series high strength with hard chromized pins

Triplex 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	Transverse pitch
							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
<b>10080-3SPCP</b>	<b>16A-3</b>	<b>80-3</b>	25,400	15,88	15,75	7,94	91,7	95,1	24,10	3,20	29,29
<b>100100-3SPCP</b>	<b>20A-3</b>	<b>100-3</b>	31,750	19,05	18,95	9,54	112,2	116,3	30,10	4,00	35,76
<b>100120-3SPCP</b>	<b>24A-3</b>	<b>120-3</b>	38,100	22,23	22,22	11,11	141,4	145,2	36,20	4,80	45,44
<b>100140-3SPCP</b>	<b>28A-3</b>	<b>140-3</b>	44,450	25,40	25,22	12,71	152,2	156,8	42,20	5,60	48,87
<b>100160-3SPCP</b>	<b>32A-3</b>	<b>160-3</b>	50,800	28,58	31,55	14,29	181,8	186,6	48,20	6,40	58,55
<b>100200-3SPCP</b>	<b>40A-3</b>	<b>200-3</b>	63,500	39,68	37,85	19,85	223,5	230,4	60,30	8,00	71,55



Ultimate tensile strength	Average tensile strength	Weight per meter	Available chain parts				
Q min	Q0	q	E	S	L	C	A
kN/lbf	kN	kg/m					
232,5/52302	255,9	8,18	X		X		X
347,3/78128	382,0	12,47		X	X		X
508,0/114278	559,0	18,90		X	X		X
688,0/150271	735,0	23,84		X	X		X
855,5/192441	941,0	32,10		X	X		X
1336,4/300633	1470,0	52,50	X	X			X



The Donghua SP Series dimensions are identical to those of the standard ANSI Series roller chains. The special design of the SP Series link plate delivers exceptional performance. The pitch holes are critically formed and ball drifted and the pins are through-hardened for greater shock resistance (25% to 30%). SP Series roller chains offer 10% higher tensile strength than the equivalent size standard ANSI Series roller chain. The Donghua SP Series can be used to replace the next larger pitch size of standard ANSI Series, making them ideal for applications where chain space is limited. Best suited for low speed operating conditions - up to 50 m/min. 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 chain 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 DIN8188, 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.