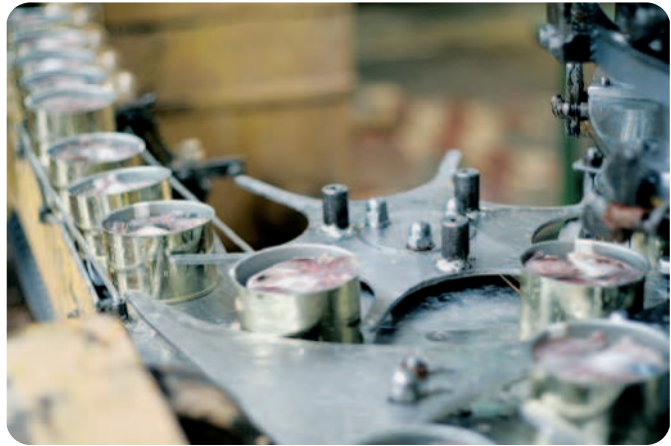


Nickel-plated

Nickel-plated roller chains combine the strength of standard roller chains with the corrosion resistant properties that come from the nickel-plating. Nickel-plating of all components prior to assembly promotes uniform coverage during the plating process.

Application

Nickel-plated chains are not suitable in applications that may involve contact with food.



Nickel-plated chains used in a canning plant

Zinc-plated

Zinc-plated roller chains provide a very good adherence of the plating to the base metal and combines the strength of standard roller chains with the corrosion resistance that comes from zinc-plating. Zinc-plating of all components prior to assembly promotes uniform coverage during the plating process. Zinc-plating is more cost-effective than nickel-plating.

Application

Zinc-plated chains are typically used in outdoor applications and where there is exposure to sea/salt water environments.



Zinc-plated chains used in automatic car washes

Dacrotized chains

Dacrotizing is a process of metal coating. The compositions are proprietary water based coating dispersions containing metal oxides, metallic zinc and aluminium flakes. The zinc and aluminium platelets align themselves in multiple layers forming a metallic silver gray coating. Overlapping zinc and aluminium flakes provide an excellent protective barrier and the zinc corrodes to protect the steel. Due to the concentration of aluminum within the coating, the result is good bi-metallic corrosion resistance. Damaged areas in the coating will fill with zinc oxides and carbonates, thus repairing itself. The dacrotizing process can be applied to numerous types of chains. For additional information, contact SKF.

Application

These chains are suitable for extremely corrosive environments without loss of strength.



Dacrotized chains used in a fish processing plant

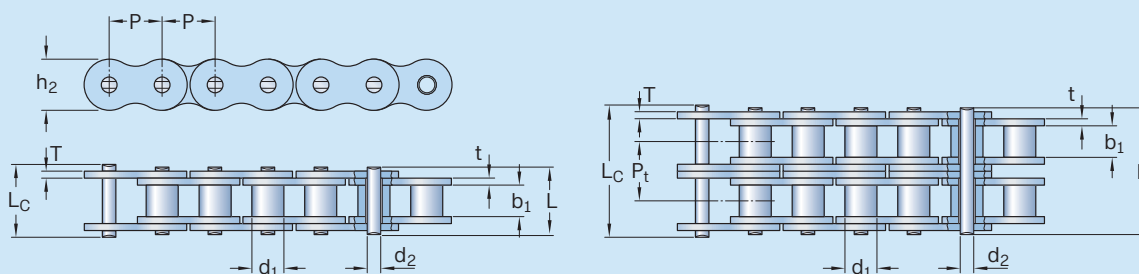
Table 2

Plated chains are available as:

Zinc-plated	A cost-effective way to increase corrosion resistance
Nickel-plated	Improved wear resistance Recommended for outdoor conditions, such as exposure to rain
Dacrotized	Suitable for corrosive conditions

Please refer to pages **85** to **87** for further details on corrosion resistant chains.

Dacrotised and plated chains



Chain number	Dimensions						Inner plate height	Plate thickness		Ultimate tensile strength	Weight per meter	Designation	
	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length			t max	T max				
	P	d ₁ max	b ₁ min	d ₂ max	L max	L _c max	h ₂ max	t max	T max	Q min	q		
	mm										kN	kg/m	-
25-1 ¹	6,350	3,30	3,18	2,31	7,90	8,40	6,00	0,80	0,80	3,5	0,15	PHC 25-1...	
35-1 ¹	9,525	5,08	4,77	3,58	12,40	13,17	9,00	1,30	1,30	7,9	0,33	PHC 35-1...	
41-1	12,700	7,77	6,25	3,58	13,75	15,00	9,91	1,30	1,30	6,7	0,41	PHC 41-1...	
40-1	12,700	7,95	7,85	3,96	16,60	17,80	12,00	1,50	1,50	14,1	0,62	PHC 40-1...	
50-1	15,875	10,16	9,40	5,08	20,70	22,20	15,09	2,03	2,03	22,2	1,02	PHC 50-1...	
60-1	19,050	11,91	12,57	5,94	25,90	27,70	18,00	2,42	2,42	31,8	1,50	PHC 60-1...	
80-1	25,400	15,88	15,75	7,92	32,70	35,00	24,00	3,25	3,25	56,7	2,60	PHC 80-1...	
100-1	31,750	19,05	18,90	9,53	40,40	44,70	30,00	4,00	4,00	88,5	3,91	PHC 100-1...	
120-1	38,100	22,23	25,22	11,10	50,30	54,30	35,70	4,80	4,80	127,0	5,62	PHC 120-1...	
140-1	44,450	25,40	25,22	12,70	54,40	59,00	41,00	5,60	5,60	172,4	7,50	PHC 140-1...	
160-1	50,800	28,58	31,55	14,27	64,80	69,60	47,80	6,40	6,40	226,8	10,10	PHC 160-1...	
04B-1	6,000	4,00	2,80	1,85	6,80	7,80	5,00	0,60	0,60	3,0	0,11	PHC 04B-1...	
05B-1	8,000	5,00	3,00	2,31	8,20	8,90	7,10	0,80	0,80	5,0	0,20	PHC 05B-1...	
06B-1 ²	9,525	6,35	5,72	3,28	13,15	14,10	8,20	1,30	1,30	9,0	0,41	PHC 06B-1...	
08B-1	12,700	8,51	7,75	4,45	16,70	18,20	11,80	1,60	1,60	18,0	0,69	PHC 08B-1...	
10B-1	15,875	10,16	9,65	5,08	19,50	20,90	14,70	1,70	1,70	22,4	0,93	PHC 10B-1...	
12B-1	19,050	12,07	11,68	5,72	22,50	24,20	16,00	1,85	1,85	60,0	1,15	PHC 12B-1...	
16B-1	25,400	15,88	17,02	8,28	36,10	37,40	21,00	4,15	3,10	95,0	2,71	PHC 16B-1...	
20B-1	31,750	19,05	19,56	10,19	41,30	45,00	26,40	4,50	3,50	95,0	3,70	PHC 20B-1...	
24B-1	38,100	25,40	25,40	14,63	53,40	57,80	33,20	6,00	4,80	160,0	7,10	PHC 24B-1...	
28B-1	44,450	27,94	30,99	15,90	65,10	69,50	36,70	7,50	6,00	200,0	8,50	PHC 28B-1...	
32B-1	50,800	29,21	30,99	17,81	66,00	71,00	42,00	7,00	6,00	250,0	10,25	PHC 32B-1...	

¹ Bushing chain: d₁ indicates external diameter of bushings.

² Straight side plates.

Note: Duplex and double pitch plated chains are available in all sizes.

When ordering plated chains, add a suffix to the Chain number, according to material selection;

For example: PHC 50-1DR... 50-1 ANSI Simplex **Dacrotized** chain
 PHC 60-2NP... 60-2 ANSI Duplex **Nickel-plated** chain
 PHC 10B-1ZP... 10B-1 BS/ISO Simplex **Zinc-plated** chain

Standard lengths are 10 ft. and 5 m. To complete designation, add chain length. For example, a 10 ft. box of 12B-1DR is PHC 12B-1DRX10FT.

For links, add "C/L" for "connecting" and "O/L" for "offset" to the designation.