

Hi-Guard Chain (E)



Highly protective coating that goes far beyond the performance of nickel plating

Hi-Guard Chain has higher corrosion resistance next to stainless steel chains. The surface of the chain is finished in non-gloss white highly protective coating. It has superb resistance to anti-corrosion and rusting. It has equal strength to standard roller chains, and can be used in circumstances where strength higher than that of stainless steel chains is required.

Features

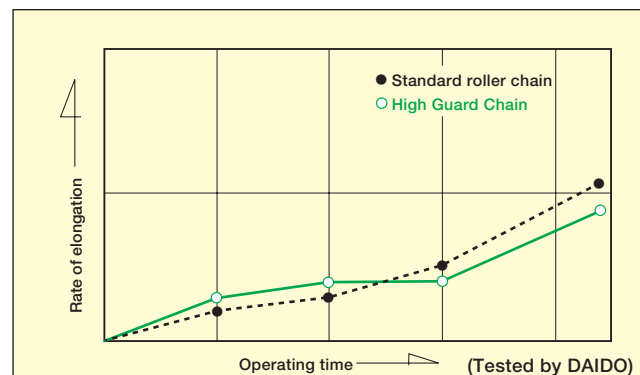
- Since high guard coating acts as a sacrificial anode for the chain body, you can expect sufficient corrosion resistance even when the coating has come off to some extent.
- The coating consists of environmentally friendly chromium free material. To comply with the EU's Restriction of Hazardous Substances (RoHS) Directive, hexavalent chromium is not used.

Recommended uses

- Applications require both strength and corrosion resistance
Multilevel parking facility, moving decks, cleansing lines etc.
- Conditions exposed to rain or sea water
Machines installed outside, amusement machines



Wear resistance





Selection of chains

High Guard Chain has strength equivalent to standard roller chain. Refer to p.120~122 for chain selection.

Connecting links and offset links

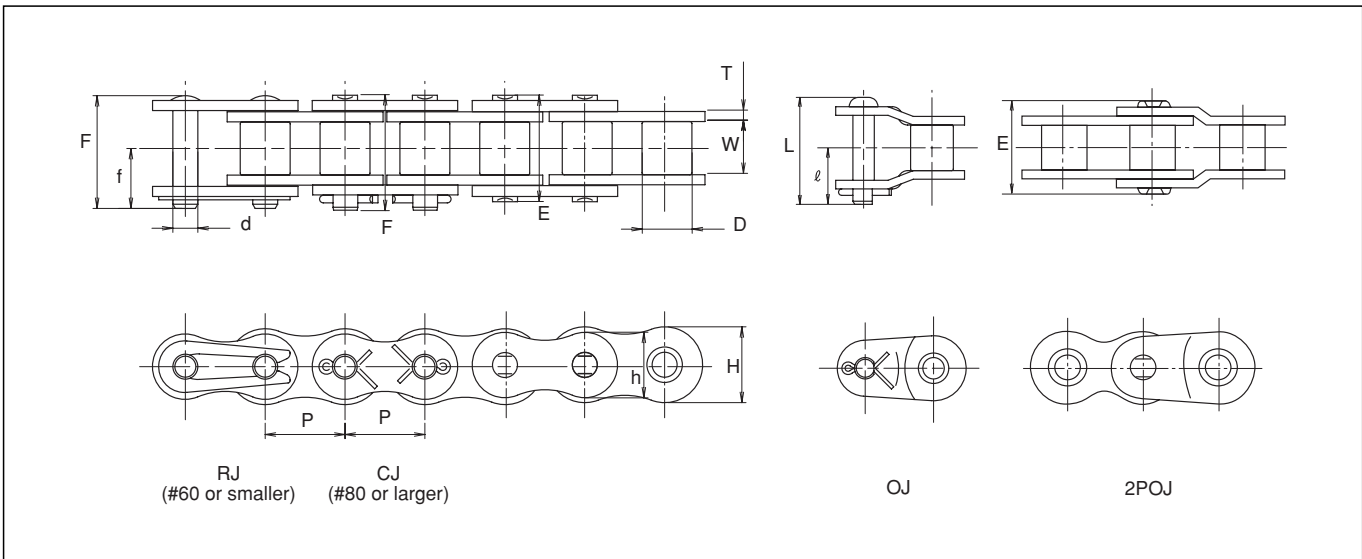
R connecting links are used for High Guard Chains #60 or smaller and C connecting links for #80 or larger. 2POJ offset links can be used for sizes #25 and #35, and OJ and 2POJ for all other sizes.

Sprockets

Standard sprockets for High Guard Chains can be used since their dimensions are the same as those of standard roller chains.

Caution

- ① Use stainless steel chains if the chains come in direct contact with food.
- ② High Guard Chain does not have a gloss like the plated chain.
- ③ High-guard coating has superb general corrosion resistance, but has poor alkaline and acidic resistance.
- ④ Unless not so specified by the customer, chains are coated with grease before delivery. If possible, lubricate the spaces between pins and bushings and bushes and rollers. Please use the recommended lubricant (p.132) for the maintenance of the chain since lubrication using grease can cause flexion failure.



Dimensions

Unit (mm)

Chain No.	Pitch P	Roller link width W	Roller (Bush) dia. D	Pin						Plate			Avg. tensile strength		Max. allowable load		Approx. weight (kg/m)
				d	E	F	f	L	ℓ	T	H	h	kN	kgf	kN	kgf	
* DID 35E	9.525	4.78	(5.08)	3.59	12.0	13.1	7.3	13.9	7.8	1.25	9.0	7.75	10.2	1,050	2.15	220	0.32
DID 40E	12.70	7.95	7.92	3.97	16.5	17.6	9.5	19.3	10.6	1.50	12.0	10.40	16.6	1,700	3.72	380	0.63
DID 50E	15.875	9.53	10.16	5.09	20.3	21.9	11.6	23.1	12.1	2.00	15.0	13.00	28.4	2,900	6.86	700	1.06
DID 60E	19.05	12.70	11.91	5.96	25.4	26.9	14.3	30.0	15.7	2.40	18.1	15.60	40.2	4,100	9.31	950	1.44
DID 80E	25.40	15.88	15.88	7.94	32.6	35.4	19.0	37.1	19.5	3.20	24.0	20.80	75.0	7,650	14.7	1,500	2.55
DID 100E	31.75	19.05	19.05	9.54	39.5	42.5	22.8	45.3	23.5	4.00	29.9	26.00	112.0	11,500	22.5	2,300	3.79
DID 120E	38.10	25.40	22.23	11.11	49.7	53.0	28.2	54.1	28.2	4.80	35.9	31.20	157.0	16,100	30.4	3,100	5.49

Note: 1. Those marked with * indicate bushing chains.

2. Consult us for sizes not included in the chart or multiplex chains.

3. Ask us for the delivery time. Also, consult us for High Guard Chains not included in the chart.