

ANSI ATTACHMENT CHAIN FOR CORROSIVE ENVIRONMENTS

Whether your operation requires a sanitary environment, is exposed to corrosive chemicals, is heated to extreme temperatures, runs through a freezer, is exposed to the outdoors or is affected by excessive moisture: our specially designed and tested chains will outlast your current chains and contribute to a cost effective application.

Corrosion Resistant Chain (Engineering Plastic base)

ANSI P Plastic Chain

ANSI P Chain consists of polyacetal chain links and SUS304 equivalent stainless steel pins and operates with standard roller chain sprockets. Based on power transmission roller chain, TSUBAKI ANSI P chain has a flat top side for conveying use. The combination of engineering plastic and stainless steel makes it a lube-free operation chain. For special environments special plastics are available on request (electro-conductive, chemical resistant and heat resistant series). The working temperature range is: -20°C to $+80^{\circ}\text{C}$. For details on corrosion resistance, please refer to the table in the back of this catalogue.



Fig. 26 ANSI P Chain

Corrosion Resistant Chain (Stainless Steel base)

ANSI PC Engineering Plastic Combination Chain

The pins, outer plates and attachments of these chains are made of SUS304 equivalent (spring clips SUS301). White Engineering Plastic is used for the inner link. This combination makes it lube-free, low noise (5 dB lower than ANSI standard roller chain) and lightweight (50% lighter than ANSI standard roller chain). The working temperature range is: -20°C to $+80^{\circ}\text{C}$. For details on corrosion resistance, please refer to the table in the back of this catalogue.

ANSI SS Stainless Steel Chain

All basic components of this chain are made of SUS304 equivalent Stainless Steel (except the spring clips, which are made of SUS301). This chain can be used in special environments such as underwater, acidic and alkaline applications. It can also be used in high and low temperatures (-20°C to $+400^{\circ}\text{C}$). SUS304 equivalent is only marginally magnetic, which is a result of the cold-forging process. For details on corrosion resistance, please refer to the table in the back of this catalogue.

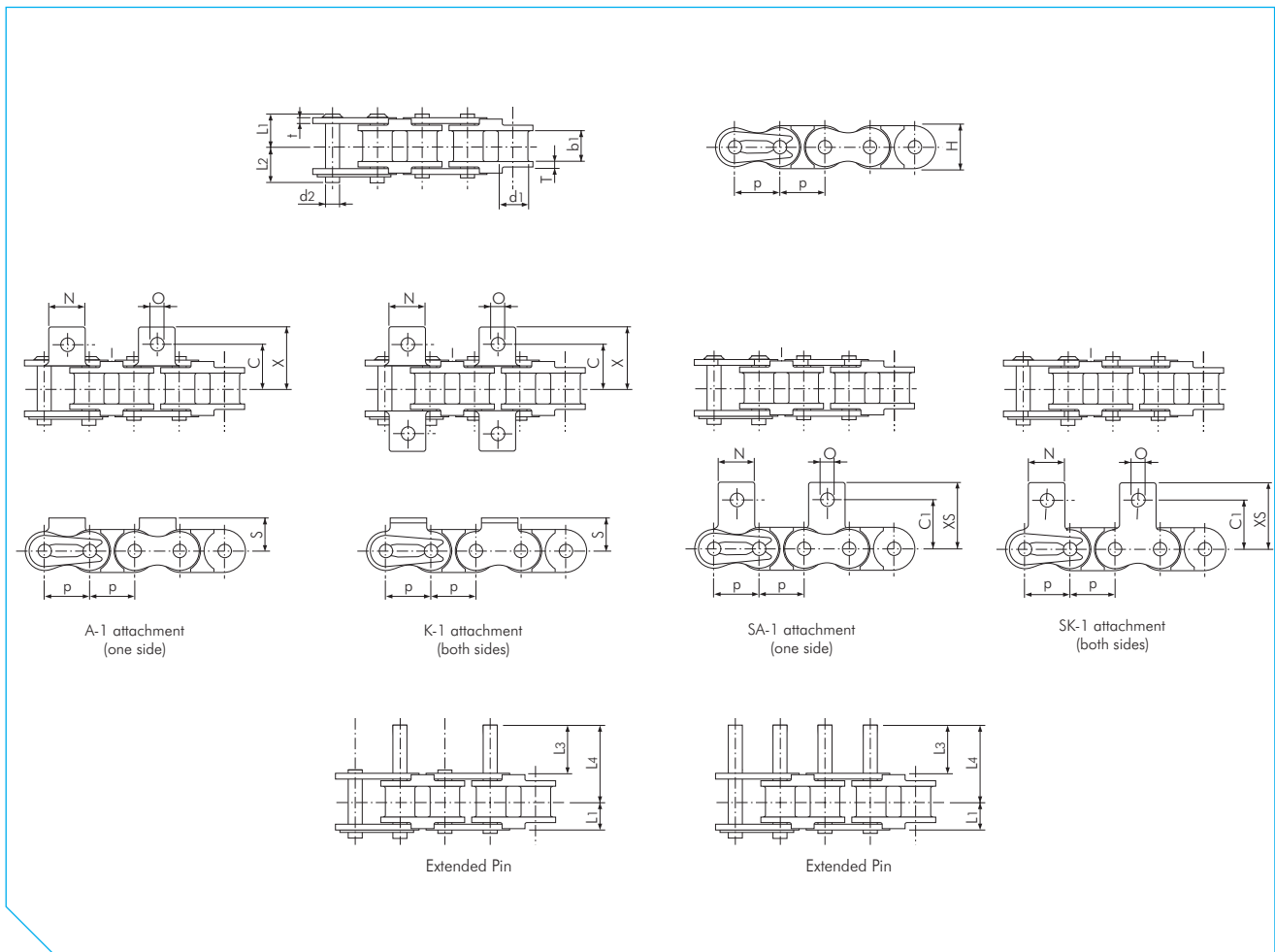
Standard Product Range

TSUBAKI has a wide variety of chains for corrosive environments; our standard product range is as follows:

- ANSI Single pitch PC chain + standard attachments
- ANSI Single pitch P Plastic chain
- ANSI Single pitch SS chain + standard attachments
- ANSI Single pitch SS HP Hollow Pin chain
- ANSI Double Pitch SS chain + standard attachments
- ANSI Double Pitch SS HP Hollow Pin chain
- BS Single pitch PC chain + standard attachments
- BS Single pitch SS chain + standard attachments
- BS Single pitch N.E.P. chain + standard attachments

Special attachments can be designed and manufactured to meet your specific requirements.

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ANSI Single Pitch PC Chain

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Bush Diameter d1	Inner Width b1	Pin					Link Plate			Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m
				Diameter d2	Length L1	Length L2	Length L3	Length L4	Thickness T	Thickness t	Height H (max.)		
RS25-PC	6.35 (1/4")	3.30	3.18	2.31	4.50	5.50	-	-	1.30	0.75	6.00	0.08	0.095
RS35-PC	9.525 (3/8")	5.08	4.78	3.59	6.85	7.85	-	-	2.20	1.25	9.00	0.18	0.22
RS40-PC	12.70 (1/2")	7.92	7.95	3.97	8.25	9.95	9.40	16.75	1.50	1.50	12.00	0.44	0.39
RS50-PC	15.875 (5/8")	10.16	9.53	5.09	10.30	12.00	11.90	21.00	2.00	2.00	15.00	0.69	0.58
RS60-PC	19.05 (3/4")	11.91	12.70	5.96	12.85	14.75	14.20	25.75	2.40	2.40	18.10	0.88	0.82

TSUBAKI Chain No.	Attachment Dimensions							Attachment Mass		
	C	C1	N	O	S	X	XS	A SA kg/att.	K SK kg/att.	Ext. Ptn kg/att.
RS25-PC	7.95	7.95	5.60	3.40	4.75	11.45	11.65	0.0006	0.0012	-
RS35-PC	10.50	9.50	7.90	3.40	6.35	15.35	14.55	0.0008	0.0016	-
RS40-PC	12.75	12.70	9.50	3.60	8.00	17.80	17.40	0.002	0.004	0.001
RS50-PC	16.00	15.90	12.70	5.20	10.30	23.55	23.05	0.003	0.006	0.002
RS60-PC	19.15	18.30	15.90	5.20	11.90	28.35	26.85	0.007	0.014	0.003

Note:

1. Make sure to check the chain load again when replacing Stainless Steel Chain with PC Chain.
2. Offset links are not available.
3. Use a chain tensioner with an idler sprocket to adjust chain tension.
4. Guide rails should support the underside of the inner links
5. For details on corrosion resistance selection, please consult our Corrosion Resistance Guide in this catalogue.