BS 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 (Stainless Steel base)

BS PC Engineering Plastic Combination Chain

The pins and pin link plates of these chains are made of SUS304 (spring clips SUS301). Engineering plastic (white) is used for the inner link. This combination makes it a lube-free, low noise (5 dB lower than BS standard roller chain) and lightweight chain (50% lighter than BS standard roller chain). Working temperature range: -10°C to +80°C. For details on corrosion resistance, please check out the table in the back of this catalogue.

BS SS Stainless Steel Chain

All basic components of this chain are made of Stainless Steel SUS304 (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°C). SUS304 is only marginally magnetic, which is the result of the cold-forging process. For details on corrosion resistance, please check out the table in the back of this catalogue.

Corrosion Protected Chain (Carbon Steel base)

BS N.E.P. New Environmental Plating Chain

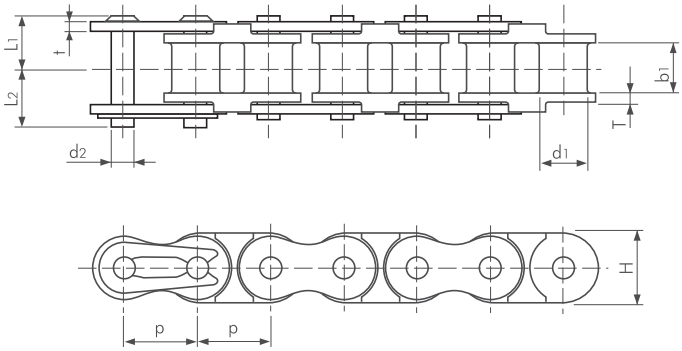
BS N.E.P. Chain is a TSUBAKI BS chain that has undergone a special surface treatment.
The link plates, bushes and bearing pins have a special three stage layer applied in order to provide the maximum protection from the operating or environmental conditions. (Spring clips are SUS301). N.E.P. Rollers have a special coating designed to resist the corrosive conditions as well as the severe dynamic contact between roller and sprocket.

This chain is suitable for use in environments exposed to seawater, acid-rain and other adverse weather conditions. This chain does not contain any chemically hazardous substances such as Hexavalent Chromium, Lead, Cadmium and Mercury as regulated by RoHS√. The kilowatt ratings are the same as those of the corresponding BS chain with a working temperature range: -10°C to +150°C. Above +60°C a special high-temperature lubrication is required. Of course, BS LAMBDA N.E.P. chain is also available.

BS NP Nickel-Plating Chain

BS NP Chain is a TSUBAKI BS chain that has been plated with Nickel. NP Chain has a light corrosion resistance and an attractive appearance. NP Chain is suitable for outdoor conditions exposed to water. There is a 15% reduction in Maximum Allowable Load compared to the corresponding BS chain, so please take this into account when making your chain selection. It has a working temperature range of: -10°C to +60°C. Of course, BS LAMBDA NP chain is also available.

√ RoHS = Restriction of Hazardous Substances



BS PC Chain

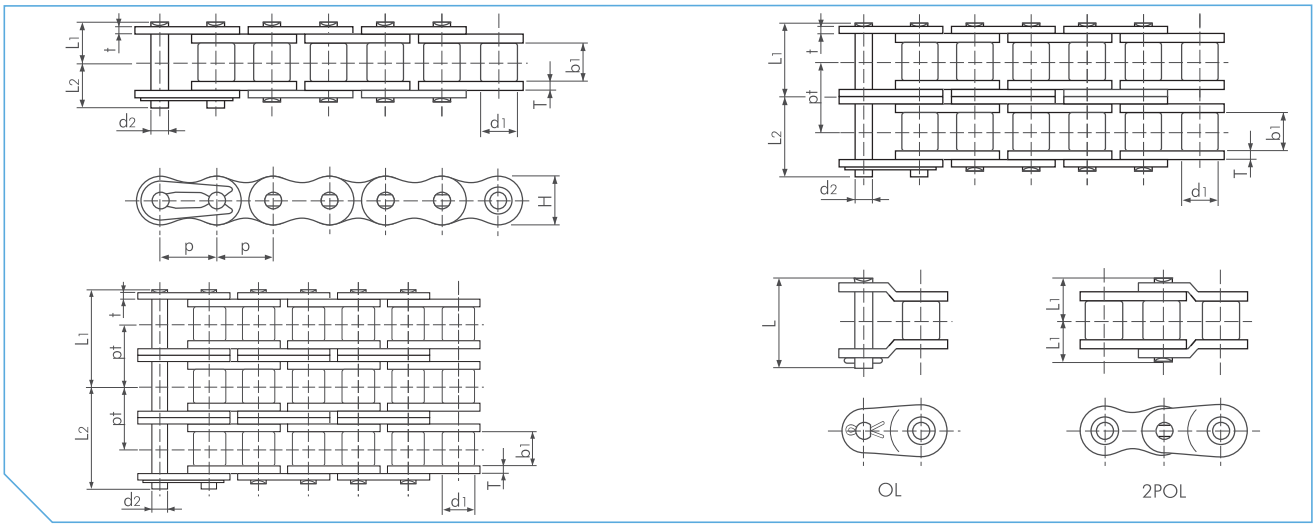
Dimensions in mm

TSUBAKI Chain No.	Pitch p		Bush Diameter d1	Inner Width b1	Pin Diameter d2	Pin Length L1	Pin Length L2	Link Plate Thickness T	Link Plate Thickness t	Link Plate Height H (max)	Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m
RF06B-PC-1	9.525	(3/8")	6.35	5.72	3.28	6.50	7.25	1.30	1.00	8.60	0.20	0.23
RF08B-PC-1	12.70	(1/2")	8.51	7.75	4.45	8.35	10.05	1.60	1.50	12.00	0.46	0.40
RF10B-PC-1	15.875	(5/8")	10.16	9.65	5.08	9.55	11.25	1.50	1.50	14.70	0.53	0.51
RF12B-PC-1	19.05	(3/4")	12.07	11.68	5.72	11.10	13.00	1.80	1.80	16.10	0.70	0.67

Note:

1. Make sure to check the chain tension again when replacing Stainless Steel Chain with PC Chain.
2. Offset links are not available.
3. For details on corrosion resistance selection, please consult our Corrosion Resistance Guide in this catalogue.

BS CHAIN FOR CORROSIVE ENVIRONMENTS



BS SS Chain

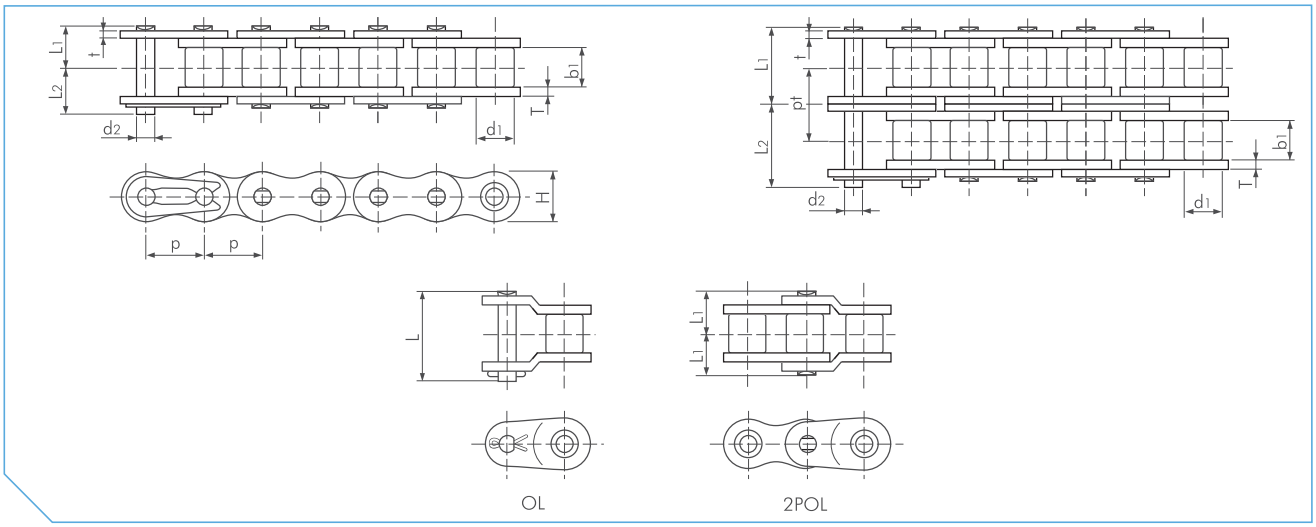
Dimensions in mm

TSUBAKI Chain No.	Pitch p		Roller Diameter d1	Inner Width b1	Pin Diameter d2	Pin Length L1	Pin Length L2	Pin Length L	Link Plate Thickness T	Link Plate Thickness t	Link Plate Height H (max)	Transverse Pitch pt	Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m
RF06B-SS-1	9.525	(3/8")	6.35	5.72	3.28	6.50	7.25	15.45	1.30	1.00	8.20	-	0.28	0.39
RF06B-SS-2						11.60	12.30	28.85				10.24	0.56	0.75
RS08B-SS-1	12.70	(1/2")	8.51	7.75	4.45	8.35	10.05	20.05	1.50	1.50	12.00	-	0.50	0.70
RS08B-SS-2						15.30	17.00	34.60				13.92	1.00	1.35
RS08B-SS-3						22.25	23.95	48.60				13.92	1.50	2.00
RS10B-SS-1	15.875	(5/8")	10.16	9.65	5.08	9.55	11.25	22.90	1.50	1.50	14.70		0.67	0.95
RS10B-SS-2						17.85	19.55	39.40				16.59	1.34	1.85
RS10B-SS-3						26.20	27.80	56.00				16.59	2.01	2.80
RS12B-SS-1	19.05	(3/4")	12.07	11.68	5.72	11.10	13.00	26.70	1.80	1.80	16.10	-	0.89	1.25
RS12B-SS-2						20.90	22.70	46.10				19.46	1.78	2.50
RS12B-SS-3						30.65	32.60	65.60				19.46	2.67	3.80
RS16B-SS-1	25.40	(1")	15.88	17.02	8.28	17.75	19.95	38.90	4.00	3.20	21.00	-	2.10	2.70
RS16B-SS-2						33.55	35.75	73.80				31.88	4.20	5.40
RS20B-SS-1	31.75	(1 1/4")	19.05	19.56	10.19	20.10	23.10	48.40	4.50	3.50	26.00	-	2.95	3.85

Note:

1. Connecting links are clip type for sizes up to RS16B-SS, and cotter type for sizes RS12B-SS to RS20B-SS.
2. RF06B-SS chain has flat shaped link plates.
3. Center sink pins are not available. Double stake riveting is applied.
4. For details on corrosion resistance selection, please consult our Corrosion Resistance Guide in this catalogue.

BS CHAIN FOR CORROSIVE ENVIRONMENTS



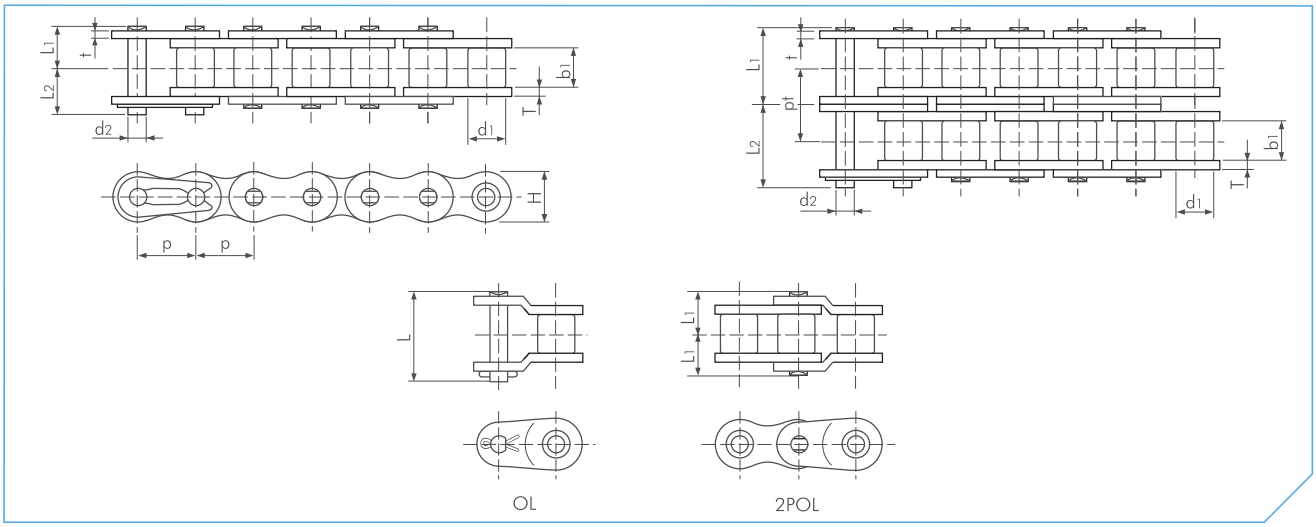
BS N.E.P. Chain

Dimensions in mm

TSUBAKI Chain No.	Pitch p		Roller Diameter d1	Inner Width b1	Pin				Link Plate			Transverse Pitch pt	Min. Tensile Strength acc. to ISO 606 kN	Min. Tensile Strength acc. to Tsubaki kN	Av. Tensile Strength acc. to Tsubaki kN	Approx. Mass kg/m
					Diameter d2	Length L1	Length L2	Length L	Thickness T	Thickness t	Height H (max)					
RF06B-NEP-1	9.525	(3/8")	6.35	5.72	3.28	6.35	7.65	14.20	1.30	1.00	8.20	-	8.9	9.0	9.9	0.39
RF06B-NEP-2						11.43	12.57	-				10.24	16.9	17.0	18.7	0.75
RS08B-NEP-1	12.70	(1/2")	8.51	7.75	4.45	8.40	10.00	18.40	1.60	1.60	11.80	-	17.8	19.0	20.9	0.70
RS08B-NEP-2						15.30	16.90	33.60				13.92	31.1	32.0	35.2	1.35
RS10B-NEP-1	15.875	(5/8")	10.16	9.65	5.08	9.55	11.25	21.10	1.50	1.50	14.70	-	22.2	23.0	25.3	0.95
RS10B-NEP-2						17.85	19.55	39.40				16.59	44.5	44.5	49.0	1.85
RS12B-NEP-1	19.05	(3/4")	12.07	11.68	5.72	11.20	13.10	24.80	1.80	1.80	16.10	-	28.9	31.0	34.1	1.25
RS12B-NEP-2						20.85	22.75	46.30				19.46	57.8	61.0	67.1	2.50
RS16B-NEP-1	25.40	(1")	15.88	17.02	8.28	17.75	19.95	38.90	4.00	3.20	21.00	-	60.0	70.0	77.0	2.70
RS16B-NEP-2						33.55	35.75	73.80				31.88	106.0	128.0	141.0	5.40
RS20B-NEP-1	31.75	(1 1/4")	19.05	19.56	10.19	19.90	23.10	46.95	4.40	3.40	26.00	-	95.0	98.1	108.0	3.85
RS20B-NEP-2						38.25	41.45	84.85				36.45	170.0	197.0	217.0	7.65
RS24B-NEP-1	38.10	(1 1/2")	25.40	25.40	14.63	26.65	31.85	62.00	6.00	5.60	33.44	-	160.0	167.0	184.0	7.45

Note:

1. Connecting links are clip type for sizes up to RS16B-NEP, and cotter type for sizes RS20B-NEP to RS24B-NEP.
2. RF06B-NEP chain has flat-shaped link plates.
3. Intermediate plate of multi strand RF06B-NEP-2 and RS08B-NEP-2 chain is a solid plate.
4. Center sink riveting is applied to RS08B-NEP-1 to RS16B-NEP-1 single strand chain.
5. Double stake riveting is applied to all other sizes including multi-strand chain.
6. When a single pitch offset link is used, please calculate a 35% reduction of the fatigue strength.



BS LAMBDA N.E.P. Chain

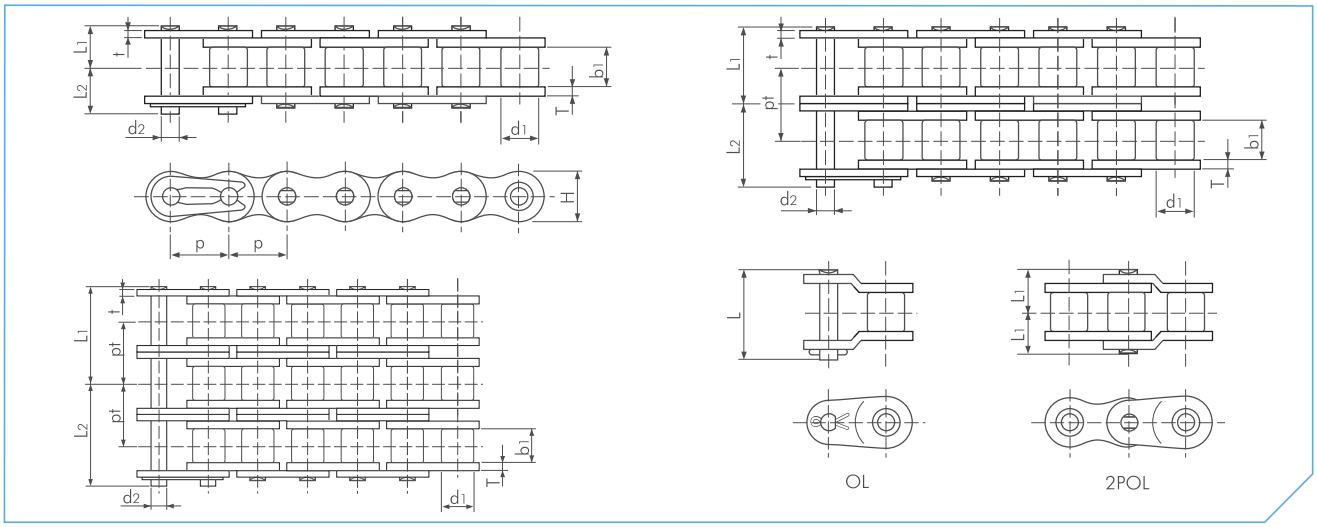
Dimensions in mm

TSUBAKI Chain No.	Pitch		Roller Diameter	Inner Width	Pin				Link Plate			Transverse Pitch	Min. Tensile Strength acc. to ISO 606	Approx. Mass
					Diameter	Length	Length	Length	Thickness	Thickness	Height			
	p		d1	b1	d2	L1	L2	L	T	t	H (max)	pt	kN	kg/m
RS08B-LM-NEP-1	12.70	(1/2")	8.51	7.75	4.45	8.40	10.00	18.60	1.60	1.60	12.00	-	17.8	0.70
RS08B-LM-NEP-2						15.30	16.90	34.50				13.92	31.1	1.35
RS10B-LM-NEP-1	15.875	(5/8")	10.16	9.65	5.08	9.55	11.25	20.80	1.50	1.50	14.70	-	22.2	0.95
RS10B-LM-NEP-2						17.85	19.55	39.40				16.59	44.5	1.85
RS12B-LM-NEP-1	19.05	(3/4")	12.07	11.68	5.72	11.10	13.00	24.40	1.80	1.80	16.10	-	28.9	1.25
RS12B-LM-NEP-2						20.85	22.75	45.90				19.46	57.8	2.50
RS16B-LM-NEP-1	25.40	(1")	15.88	17.02	8.28	17.75	19.95	39.30	4.00	3.20	21.00	-	60.0	2.70
RS16B-LM-NEP-2						33.55	35.75	73.40				31.88	106.0	5.40
RS20B-LM-NEP-1	31.75	(1 1/4")	19.05	19.56	10.19	19.90	23.10	46.60	4.40	3.40	26.40	-	95.0	3.85
RS24B-LM-NEP-1	38.10	(1 1/2")	25.40	25.40	14.63	26.65	31.85	61.70	6.00	5.60	33.40	-	160.0	7.45

Note:

1. Connecting links are clip type for sizes up to RS16B-LM-NEP, and cotter type for sizes RS20B-LM-NEP to RS24B-LM-NEP.
2. RF06B-LM-NEP chain has flat shaped link plates.
3. Intermediate plate of RF06B-LM-NEP-2 and RS08B-LM-NEP-2 is a solid plate.
4. Centre sink riveting is applied for RS08B-LM-NEP-1 to RS16B-LM-NEP-1. Double stake riveting is applied to all other sizes including multi-strand chain.
5. Warning: previous generations of Lambda chain can not be connected with the above chains due to different dimensions.
6. When a single pitch offset link is used, please calculate a 35% reduction of the fatigue strength.

BS CHAIN FOR CORROSIVE ENVIRONMENTS



BS NP Chain

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Roller Diameter d1	Inner Width b1	Pin Diameter d2	Pin Length L1	Pin Length L2	Pin Length L	Link Plate Thickness T	Link Plate Thickness t	Link Plate Height H (max)	Transverse Pitch pt	Min. Tensile Strength acc. to ISO 606 kN	Min. Tensile Strength acc. to Tsubaki kN	Av. Tensile Strength acc. to Tsubaki kN	Approx. Mas kg/m
RF06B-NP-1	9.525 (3/8")	6.35	5.72	3.28	6.35	7.65	14.20	1.30	1.00	8.20	-	8.9	9.0	9.9	0.39
RF06B-NP-2					11.43	12.57	-				10.24	16.9	17.0	18.7	0.75
RF06B-NP-3					16.90	17.50	-				10.24	24.9	24.9	27.4	1.11
RS08B-NP-1	12.70 (1/2")	8.51	7.75	4.45	8.40	10.00	18.40	1.60	1.60	11.80	-	17.8	19.0	20.9	0.70
RS08B-NP-2					15.30	16.90	33.60				13.92	31.1	32.0	35.2	1.35
RS08B-NP-3					22.25	23.85	47.60				13.92	44.5	47.5	52.3	2.00
RS10B-NP-1	15.875 (5/8")	10.16	9.65	5.08	9.55	11.25	21.10	1.50	1.50	14.70	-	22.2	23.0	25.3	0.95
RS10B-NP-2					17.85	19.55	39.40				16.59	44.5	44.5	49.0	1.85
RS10B-NP-3					26.15	27.85	56.10				16.59	66.6	66.8	73.5	2.80
RS12B-NP-1	19.05 (3/4")	12.07	11.68	5.72	11.20	13.10	24.80	1.80	1.80	16.10	-	28.9	31.0	34.1	1.25
RS12B-NP-2					20.85	22.75	46.30				19.46	57.8	61.0	67.1	2.50
RS12B-NP-3					30.60	32.50	66.00				19.46	86.7	92.0	101.0	3.80
RS16B-NP-1	25.40 (1")	15.88	17.02	8.28	17.75	19.95	38.90	4.00	3.20	21.00	-	60.0	70.0	77.0	2.70
RS16B-NP-2					33.55	35.75	73.80				31.88	106.0	128.0	141.0	5.40
RS20B-NP-1	31.75 (1 1/4")	19.05	19.56	10.19	19.90	23.10	46.95	4.40	3.40	26.00	-	95.0	98.1	108.0	3.85
RS20B-NP-2					38.25	41.45	84.85				36.45	170.0	197.0	217.0	7.65
RS24B-NP-1	38.10 (1 1/2")	25.40	25.40	14.63	26.65	31.85	62.00	6.00	5.60	33.40	-	160.0	167.0	184.0	7.45
RS24B-NP-2					50.80	56.00	112.95				48.36	280.0	335.0	370.0	14.65
RS28B-NP-1	44.45 (1 3/4")	27.94	30.99	15.90	32.45	37.45	74.50	7.50	6.30	36.40	-	200.0	200.0	220.0	9.45
RS28B-NP-2					62.15	67.15	136.85				59.56	360.0	374.0	411.0	18.80
RS32B-NP-1	50.80 (2")	29.21	30.99	17.81	32.10	37.70	73.50	7.00	6.30	42.20	-	250.0	255.0	281.0	10.25
RS32B-NP-2					61.25	66.85	135.25				58.55	450.0	485.0	534.0	21.10

Note:

1. Connecting links are clip type for sizes up to RS16B-NP, and cotter type for sizes RS16B-NP to RS32B-NP.
2. RF06B-NP chain has flat-shaped link plates.
3. Intermediate plate of multi strand RF06B-NP-2 and RS08B-NP-2 chain is a solid plate.
4. Center sink riveting is applied to RS08B-NP-1 to RS16B-NP-1 single strand chain.
5. Double stake riveting is applied to all other sizes including multi-strand chain.
6. When a single pitch offset link is used, please calculate a 35% reduction of the fatigue strength.

ANSI 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 (Stainless Steel base)

ANSI PC Engineering Plastic Combination Chain

The pins and pin link plates of these chains are made of SUS304 (spring clips SUS301). Engineering Plastic (white) is used for the inner link. This combination makes it a lube-free, low noise (5 dB lower than ANSI standard roller chain) and lightweight chain (50% lighter than ANSI standard roller chain). Working temperature range: -10°C to +80°C. For details on corrosion resistance, please check out the table in the back of this catalogue as a basic guide.

ANSI SS Stainless Steel Chain

All basic components of this chain are made of Stainless Steel SUS304 (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°C). SUS304 is only marginally magnetic, due to the cold-forging process. For details on corrosion resistance, please check out the table in the back of this catalogue as a basic guide.

ANSI AS Stainless Steel Chain

The pins and rollers of this roller chain are made of precipitation-hardened, tempered stainless steel (SUS600). The link plates and the bushes are made of SUS304 stainless steel (spring clips are SUS301). The Maximum Allowable Load is 1.5 times that of ANSI SS chain. Corrosion resistance is slightly lower than standard SS chain. This chain is suitable where corrosion and heat resistance is required in a heavy duty drive application and where a smaller ANSI SS chain is preferred. Magnetism exists due to the use of precipitation-hardened SUS600. The working temperature range: -20°C to +400°C.

Corrosion Protected Chain (Carbon Steel base)

ANSI N.E.P. New Environmental Plating Chain

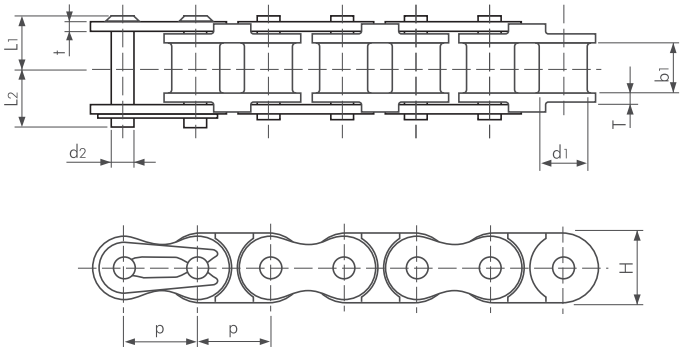
ANSI N.E.P. Chain is a TSUBAKI ANSI G7 chain that has undergone a special surface treatment. The link plates, bushes and pins have a special three stage layer applied in order to provide the maximum protection from the operating or environmental conditions. (Spring clips are SUS301). N.E.P. Rollers have a special coating designed to resist the corrosive conditions as well as the severe dynamic contact between roller and sprocket.

This chain is suitable for use in environments exposed to seawater, acid-rain and other adverse weather conditions. This chain does not contain any chemically hazardous substances such as Hexavalent Chromium, Lead, Cadmium and Mercury as regulated by RoHS√. The kilowatt ratings are the same as those of the corresponding ANSI G7 chain. Working temperature range is: -10°C to +150°C. Above +60°C a special high-temperature lubrication is required. Of course, ANSI LAMBDA N.E.P. chain is also available.

ANSI NP Nickel-Plating Chain

ANSI NP Chain is a TSUBAKI ANSI G7 chain that has been plated with Nickel. NP chain has a light corrosion resistance and an attractive appearance. NP chain is suitable for outdoor conditions exposed to water. There is a 15% reduction in Maximum Allowable Load compared to the corresponding ANSI G7 chain, so please take this into account when making your chain selection. The working temperature range is: -10°C to +60°C. Of course, ANSI LAMBDA NP chain is also available.

√RoHS = Restriction of Hazardous Substances



ANSI PC Chain

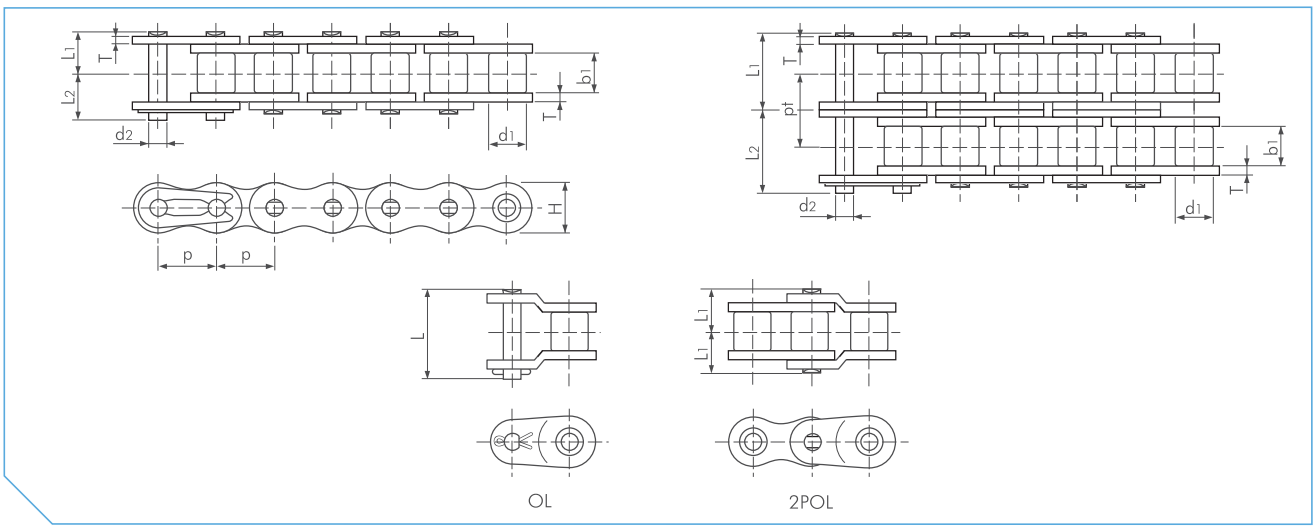
Dimensions in mm

TSUBAKI Chain No.	Pitch p		Bush Diameter d1	Inner Width b1	Pin Diameter d2	Pin Length L1	Pin Length L2	Link Plate Thickness T	Link Plate Thickness t	Link Plate Height H (max)	Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m
RF25-PC-1	6.35	(1/4")	3.30	3.18	2.31	4.50	5.50	1.30	0.75	6.00	0.08	0.10
RF35-PC-1	9.525	(3/8")	5.08	4.78	3.59	6.85	7.85	2.20	1.25	9.00	0.18	0.22
RF40-PC-1	12.70	(1/2")	7.92	7.95	3.97	8.25	9.95	1.50	1.50	12.00	0.44	0.39
RF50-PC-1	15.875	(5/8")	10.16	9.53	5.09	10.30	12.00	2.00	2.00	15.00	0.69	0.58
RF60-PC-1	19.05	(3/4")	11.91	12.70	5.96	12.85	14.75	2.40	2.40	18.10	0.88	0.82

Note:

1. Make sure to check the chain tension again when replacing Stainless Steel Chain with PC Chain.
2. Offset links are not available.
3. For details on corrosion resistance selection, please consult our Corrosion Resistance Guide in this catalogue.

ANSI CHAIN FOR CORROSIVE ENVIRONMENTS



ANSI SS Chain

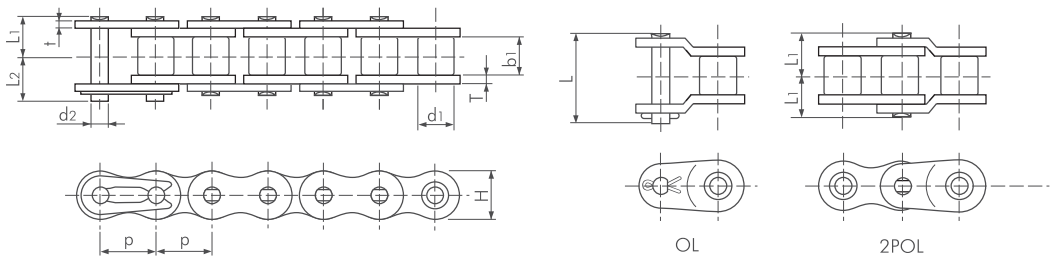
Dimensions in mm

TSUBAKI Chain No.	Pitch p		Roller Diameter d1	Inner Width b1	Pin Diameter d2	Pin Length L1	Pin Length L2	Pin Length L	Link Plate Thickness T	Link Plate Height H (max)	Transverse Pitch pt	Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m
RS11-SS-1	3.7465	(-)	2.285	1.83	1.57	2.275	3.165	-	0.38	3.50	-	0.05	0.052
RS25-SS-1	6.35	(1/4")	3.30	3.18	2.31	3.80	4.80	-	0.75	5.84	-	0.12	0.14
RS35-SS-1	9.525	(3/8")	5.08	4.78	3.59	5.85	6.85	14.70	1.25	9.00	-	0.26	0.33
RS35-SS-2						11.05	11.95	24.60			10.10	0.52	0.69
RS40-SS-1	12.70	(1/2")	7.92	7.95	3.97	8.25	9.95	18.60	1.50	12.00	-	0.44	0.64
RS40-SS-2						15.45	17.15	33.50			14.40	0.88	1.27
RS50-SS-1	15.875	(5/8")	10.16	9.53	5.09	10.30	12.00	23.90	2.00	15.00	-	0.69	1.04
RS50-SS-2						19.35	21.15	41.80			18.10	1.37	2.07
RS60-SS-1	19.05	(3/4")	11.91	12.70	5.96	12.85	14.75	29.40	2.40	18.10	-	1.03	1.53
RS60-SS-2						24.25	26.25	52.60			22.80	2.06	3.04
RS80-SS-1	25.40	(1")	15.88	15.88	7.94	16.25	19.25	39.00	3.20	24.10	-	1.77	2.66
RS80-SS-2						30.90	33.90	68.05			29.30	3.53	5.30
RS100-SS-1	31.75	(1 1/4")	19.05	19.05	9.54	19.75	22.85	46.50	4.00	30.10	-	2.55	4.01
RS100-SS-2						37.70	40.80	81.60			35.80	5.10	7.99

Note:

1. RS11-SS to RS35-SS are rollerless chain (only bush). The figure shown is the bush diameter.
2. Connecting links are clip type for sizes RS11-SS to RS60-SS, and cotter type for sizes RS80-SS to RS100-SS.
3. The rivet-type for single-strand and multi-strand chain above RS80-SS is quad-rivet.
4. For details on corrosion resistance selection, please consult our Corrosion Resistance Guide in this catalogue.

ANSI CHAIN FOR CORROSIVE ENVIRONMENTS



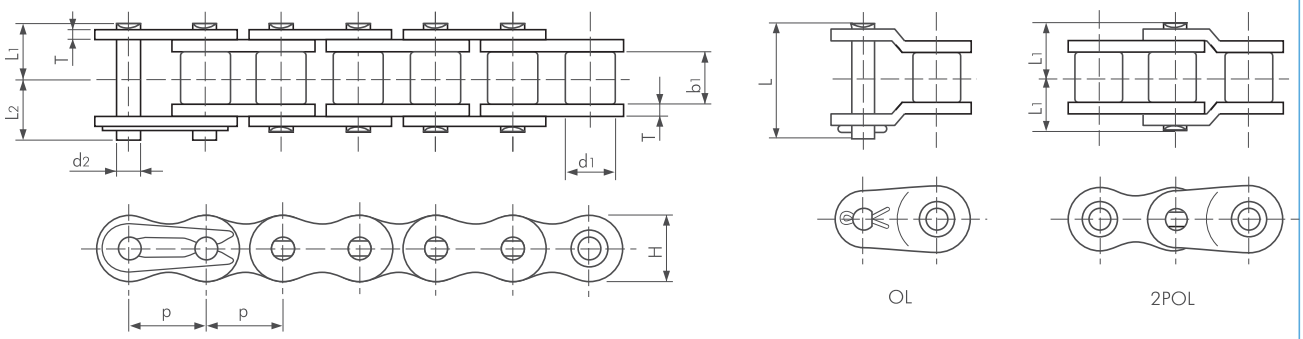
ANSI LAMBDA N.E.P. Chain

Dimensions in mm

TSUBAKI Chain No.	Pitch p		Roller Diameter d1	Inner Width b1	Pin				Link Plate			Min. Tensile Strength acc. to ANSI kN	Av. Tensile Strength acc. to Tsubaki kN	Approx. Mass kg/m
					Diameter d2	Length L1	Length L2	Length L	Thickness T	Thickness t	Height H (max)			
RS40-LMD-NEP-1	12.70	(1/2")	7.95	7.55	3.97	8.78	10.45	20.00	2.00	1.50	12.00	15.2	19.1	0.70
RS50-LMD-NEP-1	15.875	(5/8")	10.16	9.26	5.09	10.75	12.45	24.00	2.40	2.00	15.00	24.0	31.4	1.11
RS60-LMD-NEP-1	19.05	(3/4")	11.91	12.28	5.96	13.75	15.65	32.00	3.20	2.40	18.10	34.2	44.1	1.72
RS80-LMD-NEP-1	25.40	(1")	15.88	15.48	7.94	17.15	20.25	39.90	4.00	3.20	24.10	61.2	78.5	2.77
RS100-LMD-NEP-1	31.75	(1 1/4")	19.05	18.70	9.54	20.65	23.85	47.50	4.80	4.00	30.10	95.4	118.0	4.30
RS120-LMD-NEP-1	38.10	(1 1/2")	22.23	24.75	11.11	25.75	29.95	59.00	5.60	4.80	36.20	137.1	167.0	6.40
RS140-LMD-NEP-1	44.45	(1 3/4")	25.40	24.75	12.71	27.70	32.20	63.70	6.40	5.60	42.20	185.9	216.0	8.10

Note:

1. Connecting links are clip type for sizes RS40-LMD-NEP to RS60-LMD-NEP, and cotter type for sizes RS80-LMD-NEP to RS140-LMD-NEP.
2. Drive and Conveyor series LAMBDA chain cannot be intercoupled or interchanged.
3. Due to increased roller link plate thickness, Drive LAMBDA connecting links are required.
4. Due to increased roller link plate thickness, the pins are longer. Check for machine interference.
5. When a single pitch offset link is used, please calculate a 35% reduction in fatigue strength.



ANSI N.E.P. Chain

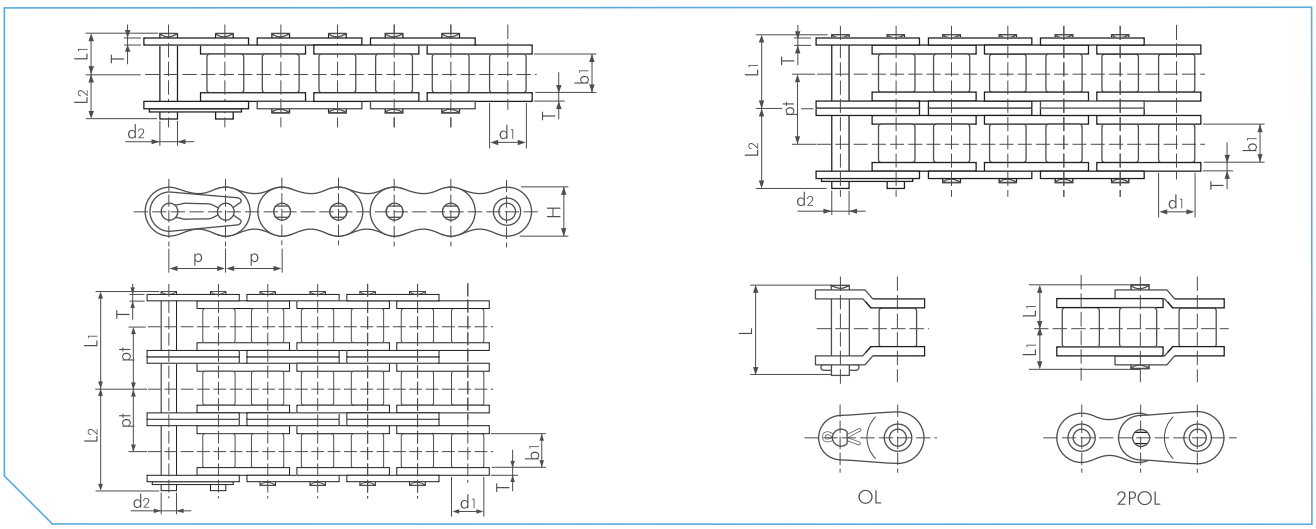
Dimensions in mm

TSUBAKI Chain No.	Pitch p		Roller Diameter d1	Inner Width b1	Pin Diameter d2	Pin Length L1	Pin Length L2	Pin Length L	Link Plate Thickness T	Link Plate Height H (max)	Min. Tensile Strength acc. to ANSI kN	Min. Tensile Strength acc. to Tsubaki kN	Av. Tensile Strength acc. to Tsubaki kN	Approx. Mass kg/m
RS35-NEP-1	9.525	(3/8")	5.08	4.78	3.59	5.85	6.85	13.50	1.25	9.00	8.7	9.8	11.3	0.33
RS40-NEP-1	12.70	(1/2")	7.92	7.95	3.97	8.25	9.95	18.00	1.50	12.00	15.2	17.7	19.1	0.64
RS50-NEP-1	15.875	(5/8")	10.16	9.53	5.09	10.30	12.00	22.50	2.00	15.00	24.0	28.4	31.4	1.04
RS60-NEP-1	19.05	(3/4")	11.91	12.70	5.96	12.85	14.75	28.20	2.40	18.10	34.2	40.2	44.1	1.53
RS80-NEP-1	25.40	(1")	15.88	15.88	7.94	16.25	19.25	38.20	3.20	24.10	61.2	71.6	78.5	2.66

Note:

1. Connecting links are clip type for sizes RS35-NEP to RS60-NEP, and cotter type for size RS80-NEP.
2. When a single pitch offset link is used, please calculate a 35% reduction of the fatigue strength.

ANSI CHAIN FOR CORROSIVE ENVIRONMENTS



ANSI NP Chain

Dimensions in mm

TSUBAKI Chain No.	Pitch p		Roller Diameter d1	Inner Width b1	Pin Diameter d2	Pin Length L1	Pin Length L2	Pin Length L	Link Plate Thickness T	Link Plate Height H (max)	Transverse Pitch pt	Min. Tensile Strength acc. to Tsubaki kN	Approx. Mass kg/m
RS25-NP-1	6.35	(1/4")	3.30	3.18	2.31	3.80	4.50	7.60	0.75	5.84	-	4.1	0.14
RS35-NP-1						5.85	6.85	13.50			-	9.8	0.33
RS35-NP-2	9.525	(3/8")	5.08	4.78	3.59	10.90	11.90	24.50	1.25	9.00	10.10	19.6	0.69
RS35-NP-3						16.00	16.90	34.60			10.10	29.4	1.05
RS40-NP-1						8.25	9.95	18.00			-	17.7	0.64
RS40-NP-2	12.70	(1/2")	7.92	7.95	3.97	15.45	17.15	33.50	1.50	12.00	14.40	35.3	1.27
RS40-NP-3						22.65	24.15	47.90			14.40	53.0	1.90
RS50-NP-1						10.30	12.00	22.50			-	28.4	1.04
RS50-NP-2	15.875	(5/8")	10.16	9.53	5.09	19.35	21.15	41.80	2.00	15.00	18.10	56.9	2.07
RS50-NP-3						28.40	30.20	59.90			18.10	85.3	3.09
RS60-NP-1						12.85	14.75	28.20			-	40.2	1.53
RS60-NP-2	19.05	(3/4")	11.91	12.70	5.96	24.25	26.25	52.60	2.40	18.10	22.80	80.4	3.04
RS60-NP-3						35.65	38.15	75.50			22.80	121.0	4.54
RS80-NP-1						16.25	19.25	36.00			-	71.6	2.66
RS80-NP-2	25.40	(1")	15.88	15.88	7.94	30.90	33.90	67.50	3.20	24.10	29.30	143.0	5.27
RS80-NP-3						45.60	48.50	96.90			29.30	215.0	7.89
RS100-NP-1	31.75	(1 1/4")	19.05	19.05	9.54	19.75	22.85	44.40	4.00	30.10	-	107.0	3.99

Note:

1. RS25-NP to RS35-NP are rollerless chains (only bush). The figure shown is the bush diameter.
2. Connecting links are clip type for sizes RS25-NP to RS60-NP, and cotter type for size RS80-NP to RS100-NP.
3. When a single pitch offset link is used, please calculate a 35% reduction of the fatigue strength.