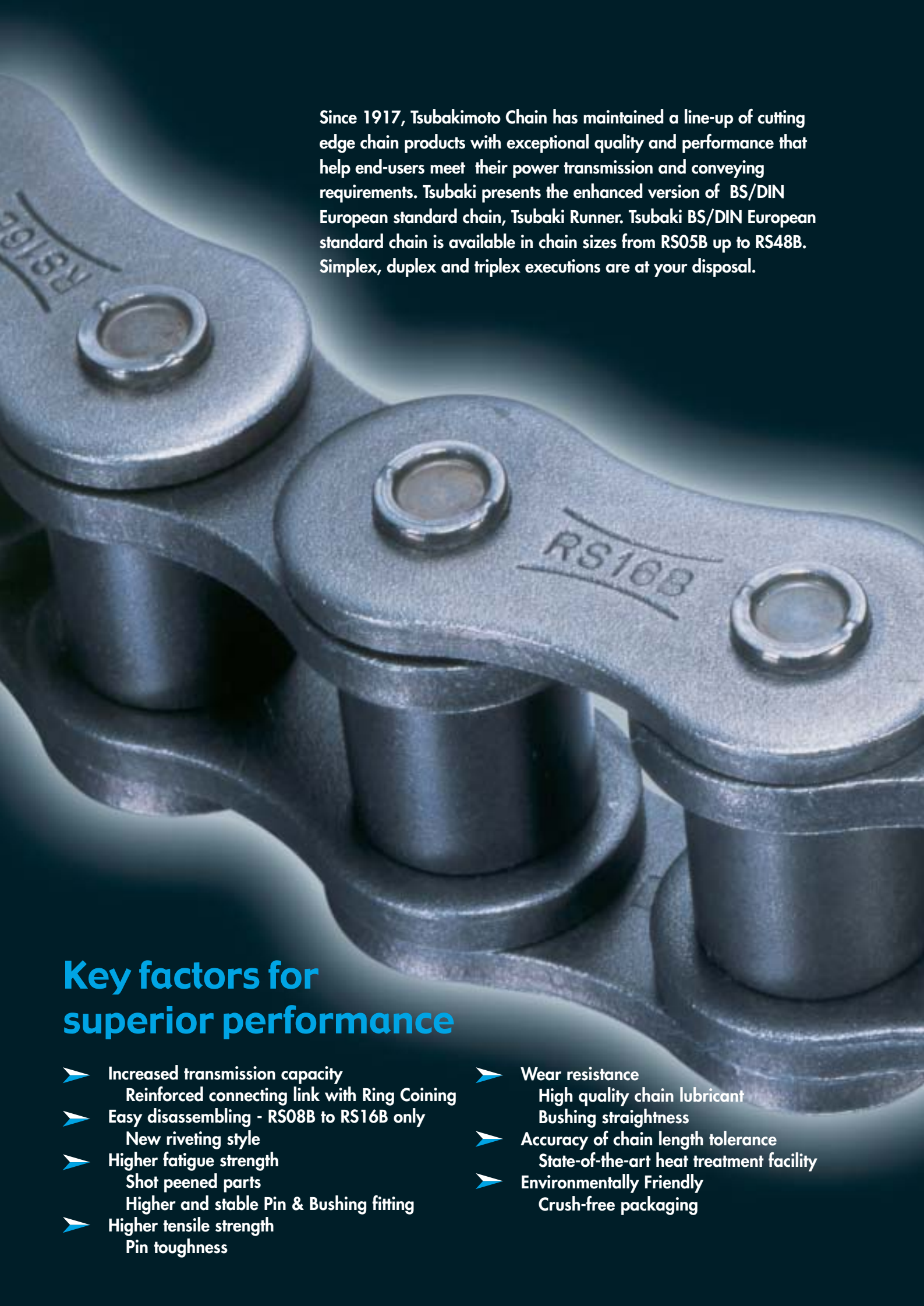


BS/DIN European Standard Chain



**ENHANCED
RUNNER**



Since 1917, Tsubakimoto Chain has maintained a line-up of cutting edge chain products with exceptional quality and performance that help end-users meet their power transmission and conveying requirements. Tsubaki presents the enhanced version of BS/DIN European standard chain, Tsubaki Runner. Tsubaki BS/DIN European standard chain is available in chain sizes from RS05B up to RS48B. Simplex, duplex and triplex executions are at your disposal.

Key factors for superior performance

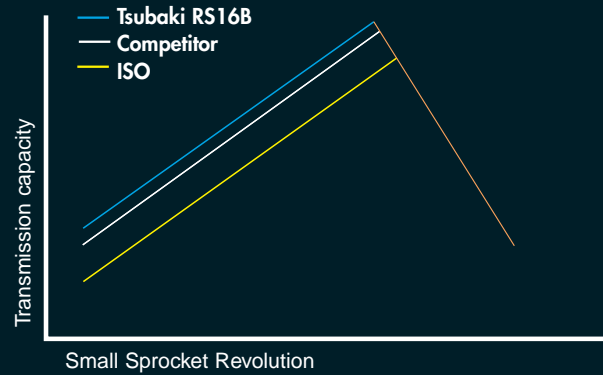
- Increased transmission capacity
 - Reinforced connecting link with Ring Coining
- Easy disassembling - RS08B to RS16B only
 - New riveting style
- Higher fatigue strength
 - Shot peened parts
 - Higher and stable Pin & Bushing fitting
- Higher tensile strength
 - Pin toughness
- Wear resistance
 - High quality chain lubricant
 - Bushing straightness
- Accuracy of chain length tolerance
 - State-of-the-art heat treatment facility
- Environmentally Friendly
 - Crush-free packaging

Higher kW capacity

By using the Ring Coining (RC) process on the connecting link, transmission capacity has been increased.

In order to establish the same fatigue strength as the base chain, a connecting link design was needed that could satisfy both the user demand for easy assembly but also fatigue strength performance.

The Ring Coining process, an original Tsubaki design, creates a plastic deformation around the pinhole on the detachable plate of the connecting link. This design generates residual stress around the area.



Heat treatment

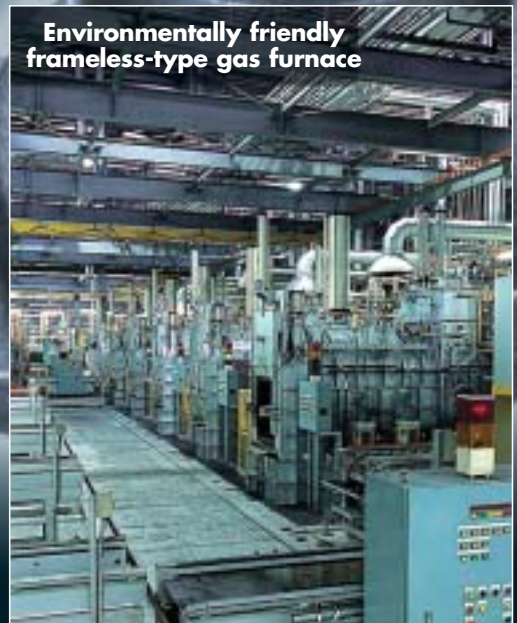
Tsubaki's advanced heat treatment facilities ensure that Tsubaki roller chain is built to conform to our exacting standards.



Applied on RS08B to RS40B



Environmentally friendly
frameless-type gas furnace



Fatigue testing of chain

Fatigue strength has become a more widely used value for chain performance relating to link plate failure.

In pursuit of outstanding quality, fatigue strength confirmation tests are conducted within Tsubaki.

Matched and Tagged

The "Matchy", a pre-stretching and length measuring machine, enables the Tsubakimoto Europe to supply chains that need to run in pairs. Also, attachment chains with a very accurate length difference can be supplied.

Selection of chain lubricants

Proper lubrication extends the life and improves the performance of a chain.

Although Tsubaki roller chain is pre-lubricated before packing, to get the best performance from roller chain in general applications, Tsubaki provides a range of special lubricants for specific applications.

- High performance (-10 to +60°C): Tsubaki standard
- High temperature (up to +250°C)
- Low temperature (down to -45°C)
- Food safe (USDA H1 approved)
- Outdoor exposure
- Dusty environment



Chain fatigue test

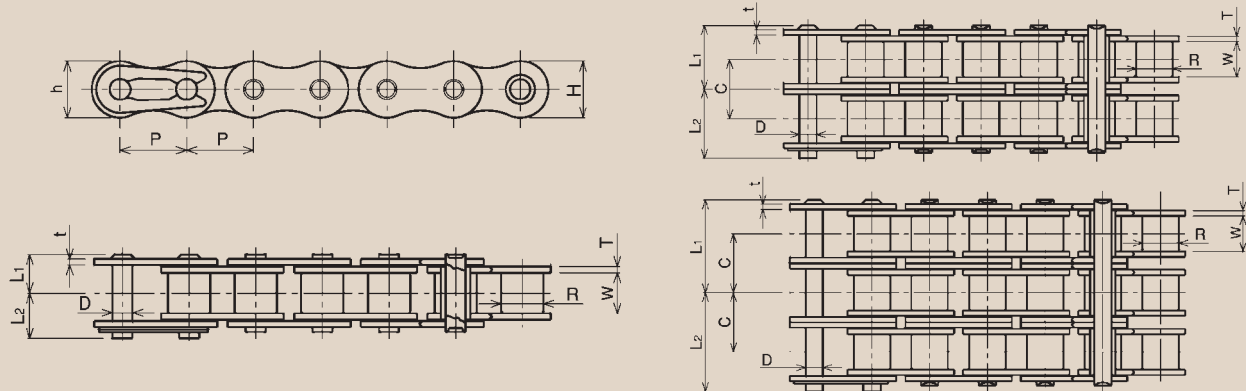


The "Matchy"



Tsubaki Pre-lubrication facility

BS/DIN European standard chain specifications



(Dimensions in mm)

TSUBAKI Chain No.	#ISO BS/DIN No.	Pitch	Roller Diam.	Width b/w Inner Plates	Pin			Link Plate				Transverse Pitch	Min. Tensile Strength kN(kgf)	Bearing Area (Nominal) cm ²	Approx. Weight kg/m	No. of Links/Unit (5 mts)
		P	R	W	D	L ₁	L ₂	T _(RL)	t _(PL)	H	h					
SINGLE STRAND																
RS05B	05B	8.00	5.00	3.00	2.30	3.80	4.70	0.75	0.75	7.1	7.1	-	5.0 (510)	0.11	0.18	626
RF06B ★	06B	9.525	6.35	5.72	3.28	6.35	7.65	1.27	1.0	8.2	8.2	-	9.0 (920)	0.28	0.39	526
RS08B ●	08B	12.70	8.51	7.75	4.45	8.4	10.0	1.6	1.6	11.8	10.4	-	19.0 (1,930)	0.50	0.70	394
RS10B ●	10B	15.875	10.16	9.65	5.08	9.55	11.25	1.5	1.5	14.7	13.7	-	23.0 (2,340)	0.67	0.95	316
RS12B ●	12B	19.05	12.07	11.68	5.72	11.2	13.1	1.8	1.8	16.1	16.1	-	31.0 (3,160)	0.89	1.25	264
RS16B ●	16B	25.40	15.88	17.02	8.28	17.75	19.95	4.0	3.2	21.0	21.0	-	70.0 (7,100)	2.10	2.70	198
RS20B	20B	31.75	19.05	19.56	10.19	19.9	23.1	4.4	3.4	26.0	26.0	-	98.1(10,000)	2.95	3.85	158
RS24B	24B	38.10	25.40	25.40	14.63	26.65	31.85	6.0	5.6	33.4	31.2	-	167 (17,000)	5.54	7.45	132
RS28B	28B	44.45	27.94	30.99	15.90	32.45	37.45	7.5	6.3	36.4	36.4	-	200 (20,400)	7.40	9.45	114
RS32B	32B	50.80	29.21	30.99	17.81	32.1	37.7	7.0	6.3	42.2	41.6	-	255 (26,000)	8.11	10.25	100
RS40B	40B	63.50	39.37	38.10	22.89	39.25	45.05	8.5	8.0	52.9	52.0	-	373 (38,000)	12.76	16.35	80
RS48B	48B	76.20	48.26	45.72	29.23	49.15	60.95	12.1	10.0	63.8	59.8	-	565 (57,600)	20.61	25.00	66
DOUBLE STRAND																
RS05B-2	05B-2	8.00	5.00	3.00	2.30	6.65	7.52	0.75	0.75	7.1	7.1	5.64	7.85 (800)	0.22	0.35	626
RF06B-2 ★ ▲	06B-2	9.525	6.35	5.72	3.28	11.43	12.57	1.27	1.0	8.2	8.2	10.24	17.0 (1,730)	0.56	0.75	526
RS08B-2 ▲	08B-2	12.70	8.51	7.75	4.45	15.3	16.9	1.6	1.6	11.8	10.4	13.92	32.0 (3,260)	1.00	1.35	394
RS10B-2	10B-2	15.875	10.16	9.65	5.08	17.85	19.55	1.5	1.5	14.7	13.7	16.59	44.5 (4,540)	1.34	1.85	316
RS12B-2	12B-2	19.05	12.07	11.68	5.72	20.85	22.75	1.8	1.8	16.1	16.1	19.46	61.0 (6,220)	1.78	2.50	264
RS16B-2	16B-2	25.40	15.88	17.02	8.28	33.55	35.75	4.0	3.2	21.0	21.0	31.88	128 (13,000)	4.20	5.40	198
RS20B-2	20B-2	31.75	19.05	19.56	10.19	38.25	41.45	4.4	3.4	26.0	26.0	36.45	197 (20,100)	5.91	7.65	158
RS24B-2	24B-2	38.10	25.40	25.40	14.63	50.8	56.0	6.0	5.6	33.4	31.2	48.36	335 (34,100)	11.09	14.65	132
RS28B-2	28B-2	44.45	27.94	30.99	15.90	62.15	67.15	7.5	6.3	36.4	36.4	59.56	374 (38,100)	14.81	18.80	114
RS32B-2	32B-2	50.80	29.21	30.99	17.81	61.25	66.85	7.0	6.3	42.2	41.6	58.55	485 (49,500)	16.23	20.10	100
RS40B-2	40B-2	63.50	39.37	38.10	22.89	75.4	81.2	8.5	8.0	52.9	52.0	72.29	716 (73,000)	25.52	32.00	80
RS48B-2	48B-2	76.20	48.26	45.72	29.23	95.0	106.8	12.1	10.0	63.8	59.8	91.21	1,000 (102,000)	41.23	50.00	66
TRIPLE STRAND																
RS05B-3	05B-3	8.00	5.00	3.00	2.30	9.45	10.34	0.75	0.75	7.1	7.1	5.64	11.2 (1140)	0.33	0.53	626
RF06B-3 ★ ▲	06B-3	9.525	6.35	5.72	3.28	16.9	17.5	1.27	1.0	8.2	8.2	10.24	24.9 (2,540)	0.84	1.11	526
RS08B-3 ▲	08B-3	12.70	8.51	7.75	4.45	22.25	23.85	1.6	1.6	11.8	10.4	13.92	47.5 (4,840)	1.50	2.00	394
RS10B-3	10B-3	15.875	10.16	9.65	5.08	26.15	27.85	1.5	1.5	14.7	13.7	16.59	66.8 (6,810)	2.01	2.80	316
RS12B-3	12B-3	19.05	12.07	11.68	5.72	30.6	32.5	1.8	1.8	16.1	16.1	19.46	92 (9,400)	2.67	3.80	264
RS16B-3	16B-3	25.40	15.88	17.02	8.28	49.5	51.7	4.0	3.2	21.0	21.0	31.88	192 (19,600)	6.30	8.00	198
RS20B-3	20B-3	31.75	19.05	19.56	10.19	56.5	59.7	4.4	3.4	26.0	26.0	36.45	295 (30,100)	8.86	11.45	158
RS24B-3	24B-3	38.10	25.40	25.40	14.63	75.1	80.2	6.0	5.6	33.4	31.2	48.36	500 (51,000)	16.64	21.75	132
RS28B-3	28B-3	44.45	27.94	30.99	15.90	91.95	96.95	7.5	6.3	36.4	36.4	59.56	560 (57,100)	22.21	28.20	114
RS32B-3	32B-3	50.80	29.21	30.99	17.81	90.5	96.10	7.0	6.3	42.2	41.6	58.55	729 (74,300)	24.34	29.90	100
RS40B-3	40B-3	63.50	39.37	38.10	22.89	111.5	117.3	8.5	8.0	52.9	52.0	72.29	1,080 (110,000)	38.28	47.75	80
RS48B-3	48B-3	76.20	48.26	45.72	29.23	140.4	152.2	12.1	10.0	63.8	59.8	91.21	1,520 (155,000)	61.84	75.00	66

Notes: # ISO 606 (1994) - BS 228 (1994) - DIN 8187-1: (1996)-03

★ Flat shape link plate

▲ One solid intermediate plate is applied

● Center sink riveting is applied (Shown in single strand drawing above)

Double stake riveting is applied to all other sizes including multi-strand chain

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