

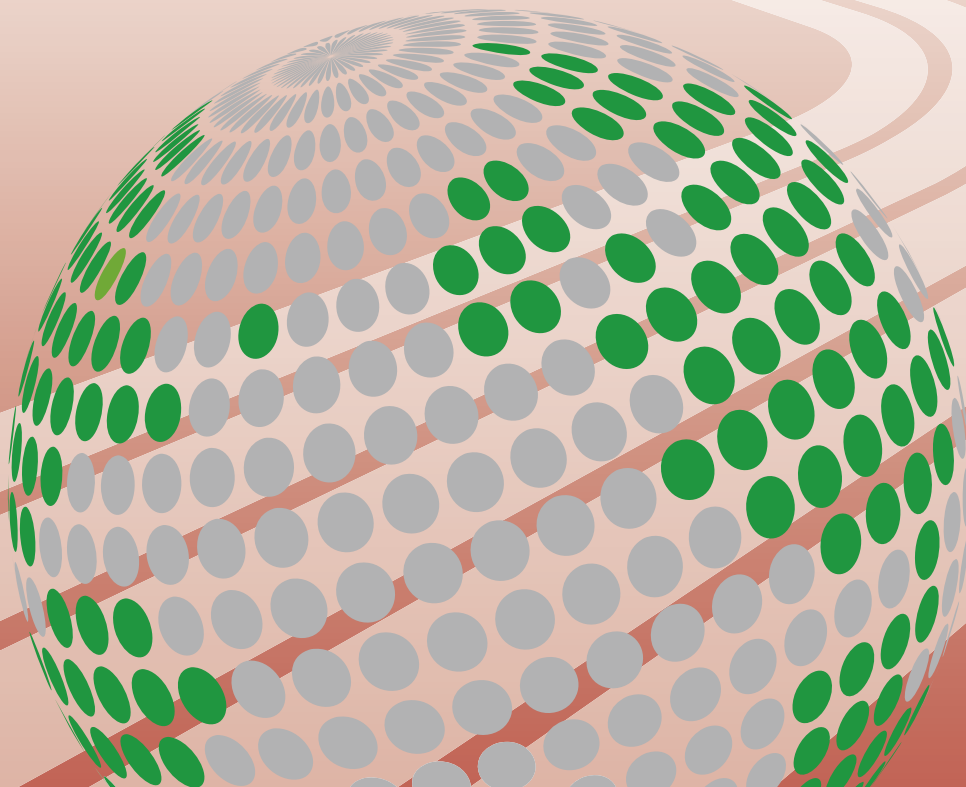
SPEN BEARINGS

Bearing and Oilseal Specialists
Power Transmission Engineers



The Engineer's Tool Kit

CHAIN DRIVES & HARDWARE



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Tsubaki in partnership with IADA

Tsubaki, the world's leading manufacturer of roller chain products, was awarded the title of supplier of the year from the Independent Authorised Distributor Alliance (IADA) for 2010 in its inaugural year of supply. The award, which is voted for by the group's members, is presented to the supplier that best matches the group's philosophy of high quality and service throughout the year.

Throughout the first twelve months with IADA, Tsubaki consistently provided IADA members with the highest levels of performance in relation to delivery, customer service and product quality. It has a wide product range that is designed to meet the needs of most applications; consistently outperforming competitors in operational life and efficiency.

About Tsubaki

Established in 1917, Tsubakimoto Chain Company is the world's premier manufacturer of power transmission products with strong market positions in premium quality ANSI & BS roller conveyor & engineering chains and associated power transmission components such as cam clutches, reducers & linear actuators.

At Tsubaki we know that customers want the best. Indeed, we take pride in our ability to deliver an extensive product lineup that satisfies these high expectations. We are also aware that each and every one of our customers has unique requirements. Our focus is on providing our customers around the world with concrete solutions by developing products to suit different countries, regions and business environments.

Tsubakimoto UK in Nottingham, serves the markets of the UK, Ireland and Iceland.



Tsubakimoto UK offices and distribution centre in Nottingham, UK

Stockholding UK/Europe

Tsubaki stocks a wide range of standard power transmission products; many of which provide innovative solutions. We pride ourselves on customer service excellence and understand the importance of having stock available to fulfil our customer's requirements. The UK and European warehouses hold stock in excess of £18m and offer a wide product range of drive, conveyor, attachment chains & sprockets. We also supply power transmission component products such as cam clutches, torque limiters and couplings.



Roller Chain Guide



Roller Chain

Start your
product
selection
here



Attachment Chain



* Contact Tsubaki as the application requires further investigation.

TSUBAKI GT4 Winner: Standard Roller Chain

TSUBAKI, the world's largest and most advanced manufacturer of chain has released a new 4th generation BS/DIN standard roller chain. The latest generation chain, branded Tsubaki GT4 Winner hosts a number of manufacturing and material developments.

Repeated testing and field data indicate that wear between the bearing parts is a primary limiting factor in overall chain life, particularly in externally lubricated chain types such as BS/DIN standard roller chain. TSUBAKI has committed significant amounts of research and development to making improvements in this area, to reduce wear and chain elongation over a longer period of time-even for standard drive roller chain.

2. Seamless Bush > Perfectly Cylindrical

The new Tsubaki BS/DIN series chain has a seamless bush with a very precise cylindrical profile and surface finish resulting in better surface contact between the pin and bush along with improved lubricant retention.

3. Easy dis-assembly > Centre Sink Rivet

With Tsubaki's design of rivet head the chain is easily dis-assembled with an additional benefit being that in the event of the chain being overloaded, the markings on the rivet head will identify pin rotation.

4. Increased Transmission Capacity > Ring Coining

The Ring Coined connecting link allows the chain to be specified up to its full kW rating. The precision and strength achieved on these components is far beyond that of competitor's offerings. The typical standard slip-fit connecting link is usually much weaker than the other links. Tsubaki's Ring Coin technology has overcome that.

CO² Reduction

Tsubaki takes its environmental responsibility very seriously in its state-of-the-art production facilities. The new BS/DIN series chain contributes significantly to reducing CO² emissions due to the greatly extended replacement frequency.

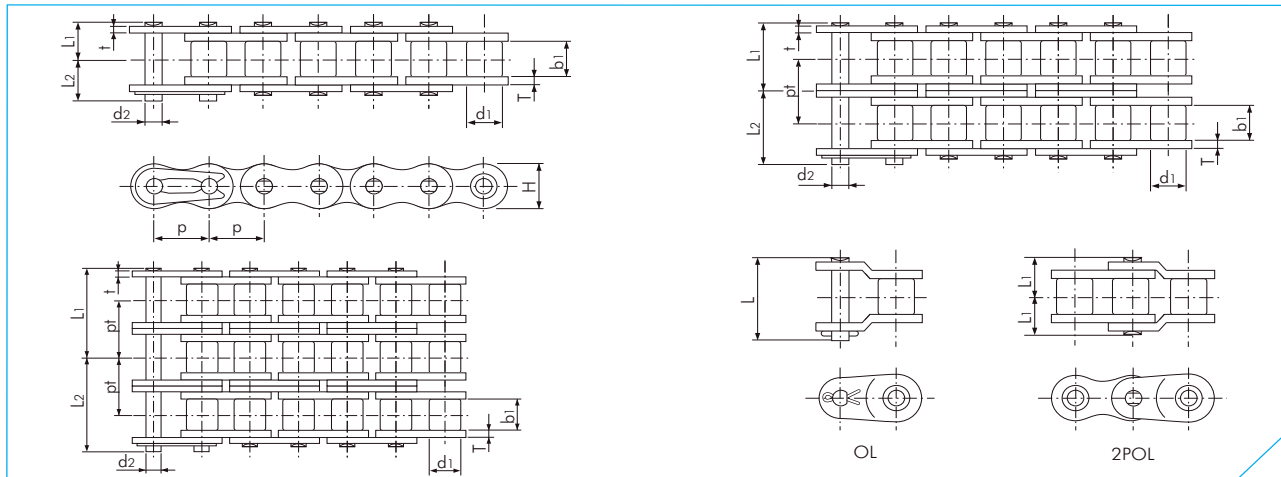


Four Key Features

1. Pre Lubrication Lube Groove (LG)

TSUBAKI's new BS/DIN series roller chain utilise a new production technique to manufacture a seamless bush with grooves incorporated on the inner surface. The lube-grooved (LG) bush holds oil at the point of contact where the chain needs it most, providing an internal reservoir for lubricant. The result is a chain that lasts longer with lower maintenance costs over the lifetime of the chain.

BS GT4 WINNER STANDARD ROLLER CHAIN



Dimensions in mm

TSUBAKI Chain No.	Pitch	Roller Diameter	Inner Width	Pin				Link Plate			Transverse Pitch	Min. Tensile Strength acc. to ISO 606	Min. Tensile Strength acc. to Tsubaki	Av. Tensile Strength acc. to Tsubaki	Approx. Mass
				Diameter	Length	Length	Length	Thickness	Thickness	Height					
d1	b1	d2	L1	L2	L	T	t	H (max)	pt	kN	kN	kN	kg/m		
RS05B-1	8.00 (0.315")	5.00	3.00	2.30	3.80	4.70	-	0.75	0.75	7.10	-	4.4	5.0	5.8	0.18
RS05B-2					6.65	7.52	-				5.64	7.8	8.9	0.35	
RS05B-3					9.45	10.34	-				5.64	11.1	11.2	12.8	0.53
RF06B-1	9.525 (3/8")	6.35	5.72	3.27	6.10	7.70	14.20	1.30	1.00	8.20	-	8.9	9.0	9.9	0.39
RF06B-2					11.43	12.57	-				10.24	16.9	17.0	18.7	0.75
RF06B-3					16.90	17.50	-				10.24	24.9	24.9	27.4	1.11
RS08B-1	12.70 (1/2")	8.51	7.75	4.45	8.40	10.00	18.40	1.60	1.60	12.00	-	17.8	19.0	20.9	0.70
RS08B-2					15.30	16.90	33.60				13.92	31.1	32.0	35.2	1.35
RS08B-3					22.25	23.85	47.60				13.92	44.5	47.5	52.3	2.00
RS10B-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-2					17.85	19.55	39.40				16.59	44.5	44.5	49.0	1.85
RS10B-3					26.15	27.85	56.10				16.59	66.6	66.8	73.5	2.80
RS12B-1	19.05 (3/4")	12.07	11.68	5.72	11.10	13.00	24.80	1.80	1.80	16.10	-	28.9	31.0	34.1	1.25
RS12B-2					20.85	22.75	46.30				19.46	57.8	61.0	67.1	2.50
RS12B-3					30.60	32.50	66.00				19.46	86.7	92.0	101.0	3.80
RS16B-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-2					33.55	35.75	73.80				31.88	106.0	128.0	141.0	5.40
RS16B-3					49.50	51.70	105.90				31.88	160.0	192.0	211.0	8.00
RS20B-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-2					38.25	41.45	84.85				36.45	170.0	197.0	217.0	7.65
RS20B-3					56.50	59.70	121.35				36.45	250.0	295.0	325.0	11.45
RS24B-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-H-1					29.30	34.20	-	7.50	6.00	36.20	-	-	234.0	270.0	8.20
RS24B-2					50.80	56.00	112.95	6.00	5.60	33.40	48.36	280.0	335.0	369.0	14.65
RS24B-3	44.45 (1 3/4")	27.94	30.99	15.90	75.10	80.20	161.35	7.50	6.30	36.40	48.36	425.0	500.0	550.0	21.75
RS28B-1					32.45	37.45	74.50				-	200.0	200.0	220.0	9.45
RS28B-2					62.15	67.15	136.85				59.56	360.0	374.0	411.0	18.80
RS28B-3	50.80 (2")	29.21	30.99	17.81	91.95	96.95	196.45	7.00	6.30	42.20	59.56	530.0	560.0	616.0	28.20
RS32B-1					32.10	37.70	73.50				-	250.0	255.0	281.0	10.25
RS32B-2					61.25	66.85	135.25				58.55	450.0	485.0	534.0	21.10
RS32B-3	63.50 (2 1/2")	39.37	38.10	22.89	90.50	96.10	193.80	8.50	8.00	52.90	58.55	670.0	729.0	802.0	29.90
RS40B-1					39.25	45.05	88.85				-	355.0	373.0	410.0	16.35
RS40B-2					75.40	81.20	163.55				72.29	630.0	716.0	788.0	32.00
RS40B-3	76.20 (3")	48.26	45.72	29.23	111.50	117.30	235.85	12.10	10.00	63.80	72.29	950.0	1080.0	1190.0	47.75
RS48B-1					49.30	58.80	117.70				-	560.0	565.0	618.0	25.00
RS48B-2					95.00	104.40	209.00				91.21	1000.0	1000.0	1150.0	50.00
RS48B-3					140.60	150.00	300.20				91.21	1500.0	1520.0	1750.0	75.00

Note:

1. Connecting links are clip type for sizes up to RS16B, and cotter type for sizes RS20B to RS48B.
2. RF06B chain has flat-shaped link plates.
3. Intermediate plate of multi strand RF06B-2 and RS08B-2 chain is a solid plate.
4. Center sink riveting is applied to RS08B-1 to RS16B-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.
7. RS24B-H-1 chain is a reinforced RS24B-1 chain.



Lambda Lube Free Roller Chain

Tsubaki's Lambda Chains were the first in the industry to use a special oil-impregnated bush. Since their launch in 1988, they have been adopted for diverse industries and applications, and their performance has been highly rated. Tsubaki has a wide line-up of lube-free, long life products that help customers reduce costs.

Technical Evolution

As a pioneer in the lube-free chain market, Tsubaki will reveal some of the key elements behind Lambda's outstanding performance:

Sintered Bush

A special oil-impregnated sintered bush in combination with a special coated pin for long-term internal lubrication is the secret of Tsubaki Lambda's long economic life and wear resistance.

Easy Cutting

BS Lambda chain can be disassembled quick and safely with an original Tsubaki Chain Tool without damaging the bushes (RS08B-LM-1 to RS16B-LM-1).

Patented Ring Coining Process

Breakage of the chains connecting link is no issue at Tsubaki thanks to this unique feature. By applying the patented Ring Coining process, Tsubaki generates a cold deformation around the pin hole of the connecting link plate. This results in residual stress around the pin hole and thereby adds strength. By using this process transmission capacity is 100% of the base chain.

Special Environments

Tsubaki Lambda has outstanding performance in temperatures up to 150°C. For temperatures above 150°C Tsubaki has a special high-temperature Lambda available. Please contact Tsubaki for more detailed information.

For applications in the food industry, Tsubaki can supply Lambda chain with bushes impregnated with food grade lubricating oil (NSF-H1 and H3 certified).

When an application needs water wash downs or is exposed to moisture, and lubrication is not possible or desirable, Lambda N.E.P. is most efficient.

Advantages

Tsubaki has enhanced the Lambda with the following advantages:

Save Maintenance Costs

No expensive labour costs as it is not required to manually lubricate this chain.

Save Purchasing Costs

Lower frequency of purchasing due to the high quality of the chain and it's long economic life. No purchasing of lubricants or lubrication systems necessary.

Higher Productivity

No unforeseen downtime due to chain breakdown. Less time required for maintenance and therefore more time for production.

Environmental Friendly

Applications run clean thus reducing the risk of contaminating products, machines, floor etc.

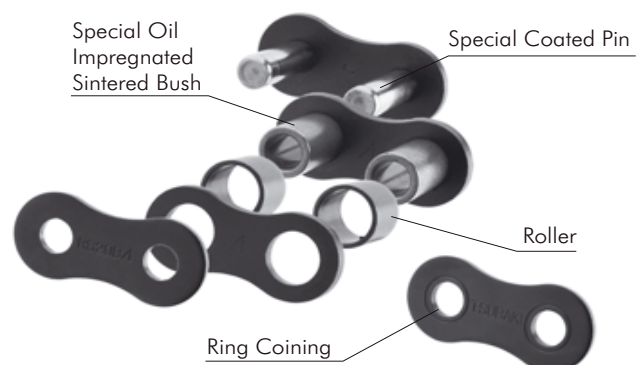
Inter-Changeability

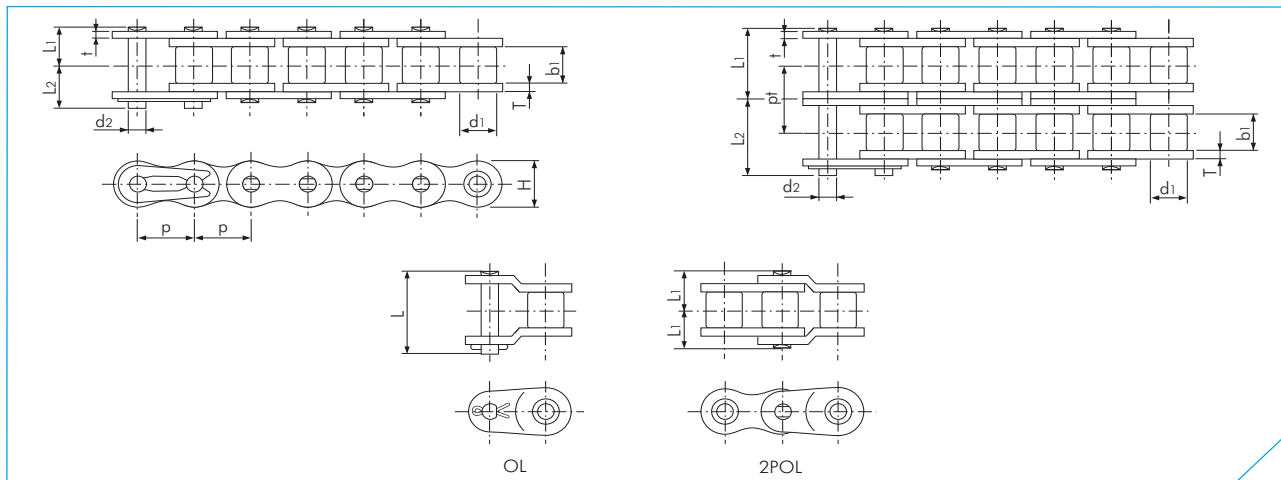
Chains:

- BS Lambda: BS Lambda Chains are fully interchangeable with standard BS roller chains.
- ANSI Lambda: Only simplex ANSI Lambda is interchangeable with standard ANSI roller chain. However, as the pins are longer than those of the standard ANSI roller chain, please make sure that there is no interference with the machine.

Sprockets:

- BS Lambda: Standard BS roller chain sprockets can be used. However, due to the extended lifetime of BS Lambda chain, Tsubaki recommends to install sprockets with hardened teeth in every Lambda application.
- ANSI Lambda: Only simplex ANSI roller chain sprockets are interchangeable. Multi strand sprockets need to be customised due to the thickness of the roller link plates. Due to the extended lifetime of ANSI Lambda chain, Tsubaki advises to install sprockets with hardened teeth in every Lambda application.





BS LAMBDA CHAIN

Dimensions in mm

TSUBAKI Chain No.			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
	Pitch	p	d1	b1	d2	L1	L2	L	T	t	H (max)	pt	kN	kg/m
RF06B-LM-1	9.525	(3/8")	6.35	5.72	3.28	6.10	7.70	15.10	1.30	1.00	8.20	-	8.9	0.39
RF06B-LM-2						11.20	12.80	25.90				10.24	16.9	0.75
RS08B-LM-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-2						15.30	16.90	34.50				13.92	31.1	1.35
RS10B-LM-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-2						17.85	19.55	39.40				16.59	44.5	1.85
RS12B-LM-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-2						20.85	22.75	45.90				19.46	57.8	2.50
RS16B-LM-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-2						33.55	35.75	73.40				31.88	106.0	5.40
RS20B-LM-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
RS20B-LM-2						38.25	41.45	84.60				36.45	170.0	7.65
RS24B-LM-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
RS24B-LM-2						50.80	56.00	112.80				48.36	280.0	14.65
											</			

Note:

1. Connecting links are clip type for sizes up to RS16B-LM, and cotter type for sizes RS20B-LM to RS24B-LM.
2. RF06B-LM chain has flat shaped link plates.
3. Intermediate plate of RF06B-LM-2 and RS08B-LM-2 is a solid plate.
4. Centre sink riveting is applied for RS08B-LM-1 to RS16B-LM-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.
7. Also available in N.E.P. specification.

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: -20°C to +80°C.

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.

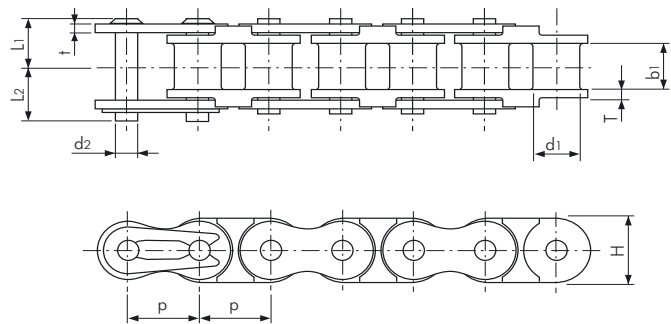
Corrosion Protected Chain (Carbon Steel base)

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.

[√] RoHS= Restriction of Hazardous Substances

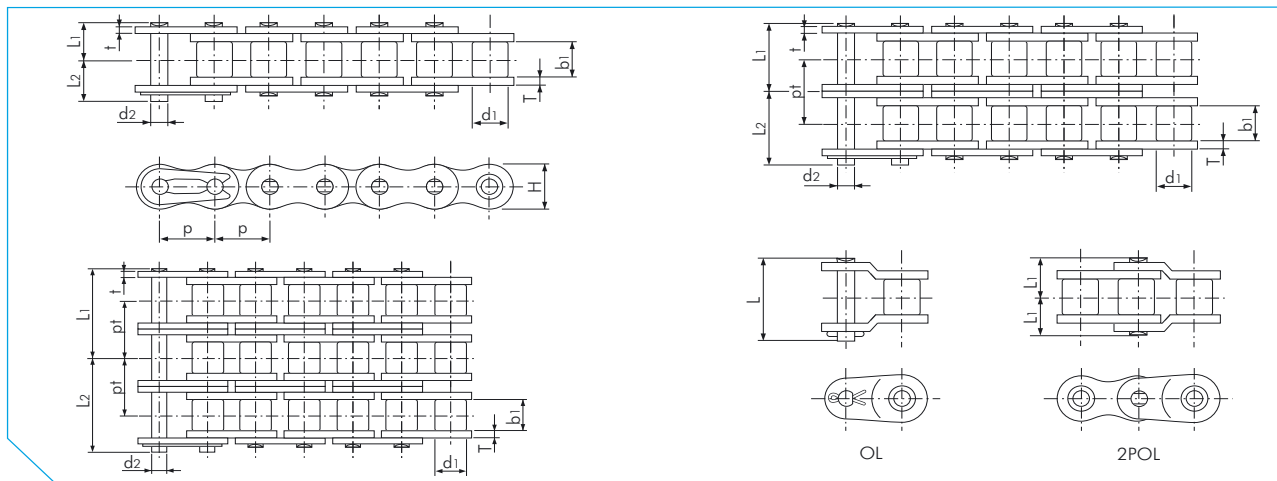


BS PC CHAIN

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	Thickness T	Thickness t	Height H (max)		
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





BS SS CHAIN

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Roller Diameter d1	Inner Width b1	Pin				Link Plate			Transverse Pitch pt	Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m
				Diameter d2	Length L1	Length L2	Length L	Thickness T	Thickness t	Height H (max)			
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

BS N.E.P. CHAIN

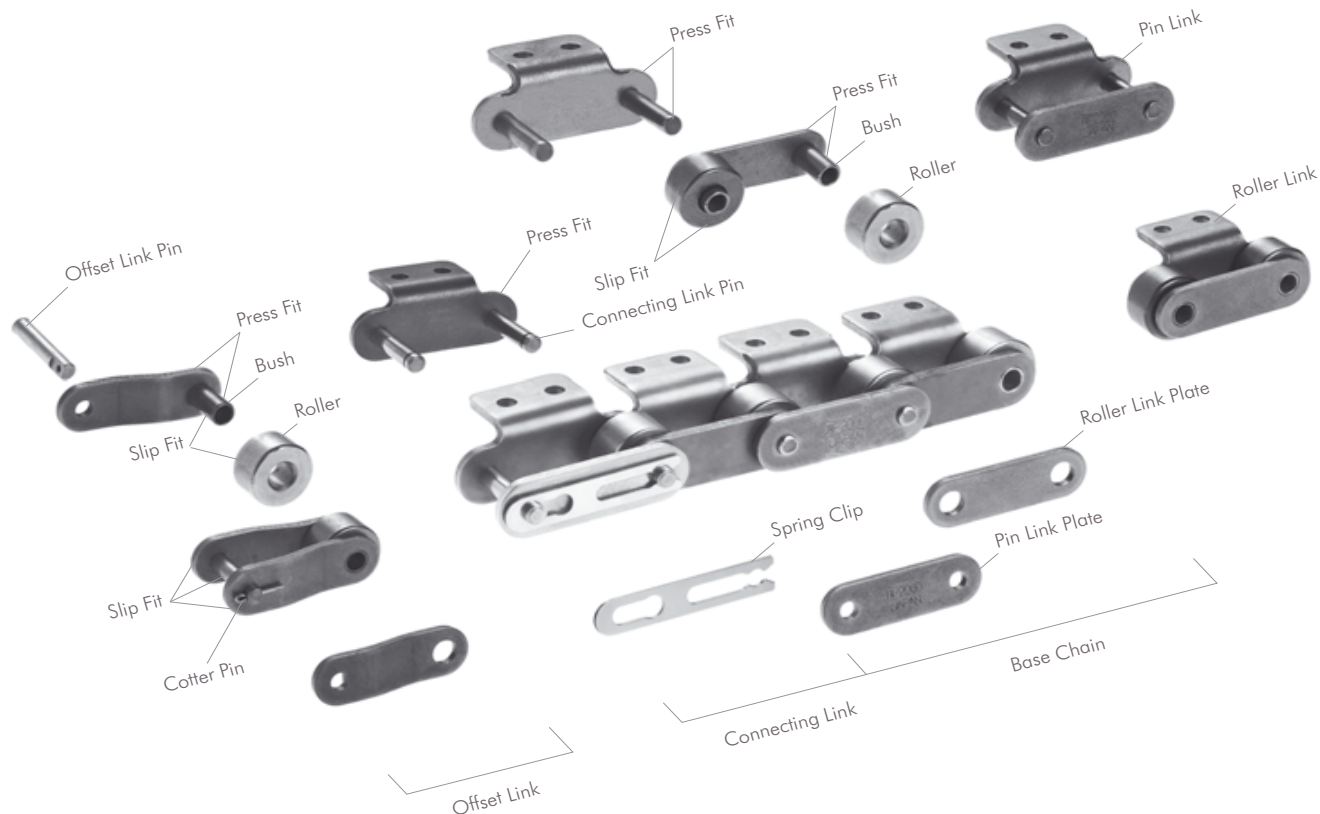
Dimensions in mm

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

Introduction to TSUBAKI Attachment Chain

In the world of attachment chain TSUBAKI is the manufacturer you require to assure smooth operation. Whether your application requires attachments or extended pins in Carbon Steel, N.E.P., Nickel Plating or Stainless Steel, TSUBAKI is your partner. TSUBAKI's maintenance free solution, LAMBDA, is also available with a wide range of attachments. When starting with a completely new design, TSUBAKI can tailor make an attachment chain for you in any specification.

Attachment Chain Structure



Standard Product Range

The product range for our standard attachment chains is:

- BS Single Pitch Standard chain + standard attachments
- ANSI Single Pitch Standard chain + standard attachments
- ANSI Single Pitch HP Hollow Pin chain
- ANSI Single Pitch CU Curved chain
- ANSI Double Pitch Standard chain + standard attachments
- ANSI Double Pitch HP Hollow Pin chain





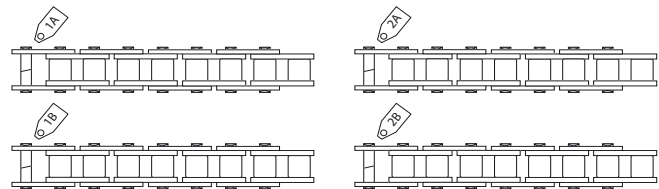
Match & Tag Service: High Accuracy, Narrow Tolerance Service

For TSUBAKI, quality is second nature- and so for customers with specific application requirements, we are able to supply chains with a specific length tolerance, or even pairs & multiple chains length matched and tagged in the same way for easy identification and installation. This is as a result of the sophisticated chain length measurement equipment (the "Matchy") kept in house within the European headquarters with supply times for such chains kept to a minimum-ideal for distributors, final consumers and OEM customers alike.

Tolerances

When chains have to run in parallel for conveying purposes in for instance packaging machines or when a minimum of difference in chain length is required in lifting applications (accumulator towers in the steel and carpet industry)

TSUBAKI excels in quality performance. We can guarantee a maximum chain length difference of 0.50 mm independent of the total chain length demanded by our customers!



CHAIN DRIVES
& HARDWARE

Custom Made Attachments



Canning



Bookbinder



Packaging

Tsubaki Gripper Chain

New solution for the thermoforming process found with Tsubaki's wide range of 'Gripper' chains.

Tsubaki has launched a new range of 'gripper' chains to be used for thermoforming in various sectors including food, electrical and medical packaging. Whereas conventional gripping attachments often open vertically, Tsubaki's range opens to the side as well which provides a larger opening preventing jams and making loading easier. This innovative solution is available with many variations of transmission chain, including Tsubaki's unique Lambda lube-free chain. Offering extended chain life and minimal maintenance Tsubaki's gripper chain offers a fresh, new option for thermoforming.



PERFORMANCE THROUGH INNOVATION

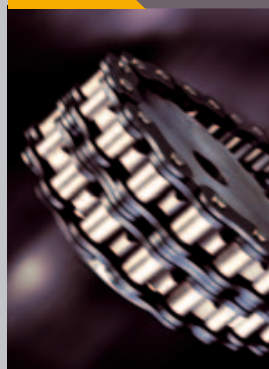
Drive Chain Series



GT4 Winner

- Unique Lube Groove Bush
- Longer Wear Life - Lower CO₂ Emission
- High Transmission Capacity
- Easy Disassembly
- Accuracy of Chain Length Tolerance

Lube Free Series



LAMBDA Chain

- Absolutely no Lubrication Required
- Longer Wear Life
- Clean Handling & Running
- Higher Production Output & Reduced Maintenance
- ANSI LAMBDA KF Series now available (usable at high temperatures up to 230°C and suitable for food product applications)

Corrosion Resistant Series



Engineering Plastic Chain

- Lube Free Operation
- Cleaner & Quieter Operation
- Easy Maintenance
- Alternative to Stainless Steel Chain

Corrosion Protected Series



N.E.P. Chain

- Innovative Surface Treatment
- Superior Corrosion Resistance
- Environmentally Friendly

Mechanical Components



Cam Clutches (Freewheel)

- Full European Range
- For Indexing, Backstopping & Over-running Applications
- From as low as 6 Nm up to 686.000 Nm Torque Capacity
- Available from Stock

Industry Specific



TSUBAKI's product range and service capabilities are amongst the best in the business, from standard attachments through to specific industry applications. For example: **Gripper chain** - for form, fill & vacuum seal wrapping industry.

Specialist attachments and specific matched length tolerance chains are available to meet your production schedules.



TSUBAKI: Value Added Services

Installation

TSUBAKI engineers can support installation projects from initial quotation stage, through on-site support during installation and then to final sign off at commission. TSUBAKI products offer best value for money when correctly installed, hence our support during this critical stage.



Surveying

TSUBAKI can support chain users by providing a site survey of their entire plant. This ensures the ordering of complex chain is made simple by an easy-to-use survey database. TSUBAKI wants this to be an effective business tool so uses simple language to identify chain and attachment detail. The survey results can also help reduce your overall stock level and further reduce cost by identifying and consolidating common chain types.



Condition Based Monitoring Service

TSUBAKI offers regular and scheduled site visits to monitor its chain's performance. Customers receive a detailed report recommending the necessary actions to ensure best possible performance and value.



Training Services

TSUBAKI offers technical training packages tailored to suit your needs. From a simple introduction to chain and installation basics; through to chain selection, advanced failure analysis and application specific advice; TSUBAKI can partner with apprentices, maintenance engineers, and designers to ensure its wealth of experience is available.



Chain Analysis

TSUBAKI can analyse any returned chain to make a comprehensive and easy-to-follow report. We can often recommend TSUBAKI products that will offer further application benefits.



Chain Selection

TSUBAKI has experience of many application types and unique machine designs. We can offer a full chain selection package, working directly with engineers and designers to ensure the product specified is the 'perfect fit' for your needs.



RENOLD

- Our leading standard steel transmission chain
- Excellent wear resistance
- Wide waisted GP plate shape
- Fatigue performance rated as ISO + 60%
- Guarantee of 15,000 hours
- End-softened, spin riveted pin for easy cutting
- 3/8" to 4" pitch, simplex & duplex



Renold's unique control over pin / bush contact makes sure that wear life exceeds other brands. Little initial chain adjustment is therefore required. Renold roller chain is highly fatigue resistant, giving up to four times the life of other leading competitor chains.

Breaking loads exceed the minimum requirements of the international standards.

Renold's end-softened pin and spin rivet help to minimise downtime. All you need is a Renold pin extractor

and you can disassemble Renold roller chain in seconds; no need to grind the head of the pin, no need for lengthy downtime.

Simplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD06B1X10FT	06B-1	0.375	✓	✓	-	✓	-	✓
SD08B1X10FT	08B-1	0.500	✓	✓	-	✓	-	✓
SD10B1X10FT	10B-1	0.625	✓	✓	-	✓	-	✓
SD12B1X10FT	12B-1	0.750	✓	✓	-	✓	-	✓
SD16B1X10FT	16B-1	1.000	✓	✓	-	✓	✓	✓
SD20B1X10FT	20B-1	1.250	✓	✓	-	✓	✓	✓
SD24B1X10FT	24B-1	1.500	✓	✓	✓	-	✓	✓

Duplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD06B2X10FT	06B-2	0.375	✓	✓	-	✓	-	✓
SD08B2X10FT	08B-2	0.500	✓	✓	-	✓	-	✓
SD10B2X10FT	10B-2	0.625	✓	✓	-	✓	-	✓
SD12B2X10FT	12B-2	0.750	✓	✓	-	✓	-	✓
SD16B2X10FT	16B-2	1.000	✓	✓	-	✓	✓	✓
SD20B2X10FT	20B-2	1.250	✓	✓	-	✓	✓	✓
SD24B2X10FT	24B-2	1.500	✓	✓	✓	-	✓	✓



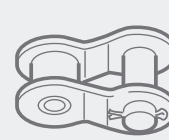
S11/S58



S26



S107



S12



S30



RENOLD Syno™

- No lubrication normally required
- Outside of chain totally dry-to-the-touch
- Nickel-plated plates
- Food industry-approved lubricant within sintered bush
- Unique food industry-approved roller coating
- Dimensionally interchangeable with standard chain
- ISO standard pin diameter, therefore standard attachments on outer links



For use in hygiene-sensitive applications or situations where contamination from lubricant is to be avoided, Renold Syno chain displays all the characteristics you need from a chain. With a food industry-approved lubricant within the sintered bush, this chain will in almost all instances not need relubricating. The roller coating is also suitable for use in the food industry; a unique feature on any chain.

Available in boxed 10-foot lengths from 06B to 24B and ANSI 40 to ANSI 100, simplex and duplex with a standard pin diameter, this means that Renold Syno chain is dimensionally interchangeable with standard roller chain and is even compatible with standard sprockets.

With the kind of excellent wear and fatigue resistance that you expect from a Renold chain, Syno chain outlasts any competitor

product promoted as low-lube or non-lube. Already tried and tested by major companies in the food sector and elsewhere, if you have to operate with minimal lubrication but can't compromise on performance, we can boost your productivity, cut your downtime and save you time and money.

CHAIN DRIVES
& HARDWARE

Simplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B1SNX10FT	06B-1	0.375	✓	✓	-	-	✓
08B1SNX10FT	08B-1	0.500	✓	✓	✓	-	✓
10B1SNX10FT	10B-1	0.625	✓	✓	✓	-	✓
12B1SNX10FT	12B-1	0.750	✓	✓	✓	-	✓
16B1SNX10FT	16B-1	1.000	✓	✓	✓	✓	✓
20B1SNX10FT	20B-1	1.250	✓	✓	✓	✓	✓
24B1SNX10FT	24B-1	1.500	-	✓	✓	✓	✓

Duplex

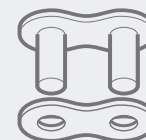
Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B2SNX10FT	06B-2	0.375	✓	✓	✓	-	✓
08B2SNX10FT	08B-2	0.500	✓	✓	✓	-	✓
10B2SNX10FT	10B-2	0.625	✓	✓	✓	-	✓
12B2SNX10FT	12B-2	0.750	✓	✓	✓	-	✓
16B2SNX10FT	16B-2	1.000	✓	✓	-	✓	✓
20B2SNX10FT	20B-2	1.250	✓	✓	✓	✓	✓
24B2SNX10FT	24B-2	1.500	-	✓	✓	✓	✓



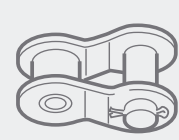
S11/S58



S26



S107



S12



S30

Renold Hydro-Service®

Superior corrosion resistance for chain



- Superior corrosion resistance
- Last as much as 30 times longer than standard carbon steel
- Hexavalent chrome free
- 350 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance

CHAIN DRIVES
& HARDWARE

Renold Hydro-Service chain delivers superior corrosion resistance, lasting as much as 30 times longer than standard carbon steel in applications that have to deal with water or salt spray. It is ideal for wash-down environments.

Hydro-Service chain is also more economical, and stronger, than stainless steel.

Each component is mechanically treated prior to assembly to ensure consistent, secure protection. The

surface treatment is free of hexavalent chrome, complying with legislation relating to environmental and health & safety considerations.

Simplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B1HSX10FT	06B-1	0.375	✓	✓	-	-	✓
08B1HSX10FT	08B-1	0.500	✓	✓	-	-	✓
10B1HSX10FT	10B-1	0.625	✓	✓	-	-	✓
12B1HSX10FT	12B-1	0.750	✓	✓	-	-	✓
16B1HSX10FT	16B-1	1.000	✓	✓	-	✓	-
20B1HSX10FT	20B-1	1.250	✓	✓	-	✓	-
24B1HSX10FT	24B-1	1.500	-	✓	✓	✓	-

Duplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B2HSX10FT	06B-2	0.375	✓	✓	-	-	✓
08B2HSX10FT	08B-2	0.500	✓	✓	-	-	✓
10B2HSX10FT	10B-2	0.625	✓	✓	-	-	✓
12B2HSX10FT	12B-2	0.750	✓	✓	-	-	✓
16B2HSX10FT	16B-2	1.000	✓	✓	-	✓	-
20B2HSX10FT	20B-2	1.250	✓	✓	-	✓	-
24B2HSX10FT	24B-2	1.500	-	✓	✓	✓	-



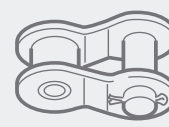
S11/S58



S26



S107



S12



S30



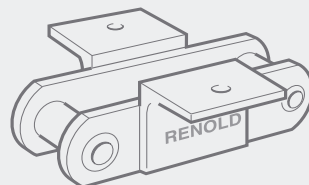
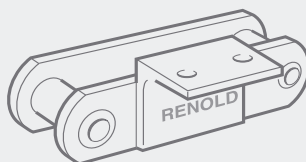
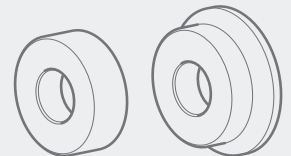
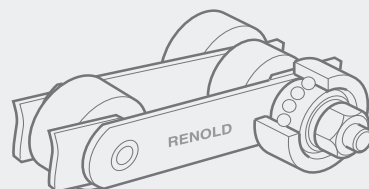
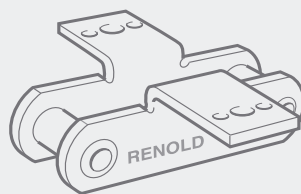
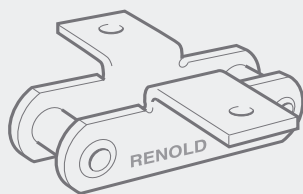
Renold Conveyor Chain

Standard stock range of BS conveyor chain, available ex-stock. 3,000 to 30,000lb chains produced in our dedicated UK manufacturing cell.



- Fast availability of standard integral attachments
- Standard cast iron sprockets available ex-stock
- Supporting this standard range we also have the capability to supply specials and custom-designed products.

CHAIN DRIVES
& HARDWARE



RENOLD SD

- An extensive product line of European (BS), ANSI and DIN standard chains
- Competitive prices and delivery
- Consistent quality
- Depth of inventory



If you are looking for a good quality product from a reliable supplier for “standard duty” chain applications, look to **RENOLD SD**, the new benchmark in the economy chain category.

Renold is recognized as the worldwide leader in chain products and has established manufacturing facilities across the globe.

While most suppliers buy-in their economy line of chain, Renold manufactures its own.

Simplex

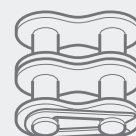
Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD08B1X10FT	08B-1	0.375	✓	✓	-	-	-	✓
SD10B1X10FT	10B-1	0.500	✓	✓	-	✓	-	✓
SD12B1X10FT	12B-1	0.625	✓	✓	-	✓	-	✓
SD16B1X10FT	16B-1	0.750	✓	✓	-	✓	✓	✓
SD20B1X10FT	20B-1	1.000	✓	✓	-	✓	✓	✓
SD24B1X10FT	24B-1	1.500	✓	✓	✓	-	✓	✓

Duplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD08B2X10FT	08B-2	0.375	✓	✓	-	-	-	✓
SD10B2X10FT	10B-2	0.500	✓	✓	-	✓	-	✓
SD12B2X10FT	12B-2	0.625	✓	✓	-	✓	-	✓
SD16B2X10FT	16B-2	0.750	✓	✓	-	✓	✓	✓
SD20B2X10FT	20B-2	1.000	✓	✓	-	✓	✓	✓
SD24B2X10FT	24B-2	1.500	✓	✓	✓	-	✓	✓



Nr.4



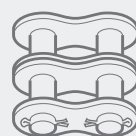
Nr. 26



Nr. 107



Nr. 12



Nr. 11



Nr. 30



Renold Stainless Steel

- All components made from austenitic rust-proof steel
- All components receive surface finishing to remove stress raisers
- Lubrication that improves wear performance
- Tensile strength is approximately 65% that of standard carbon steel chain



Renold Stainless Steel chain is made from high grades of austenitic rust-proof steel. These perform extremely well in environments that are acidic, alkaline, where direct contact with food is a consideration, where the chain will be exposed

to water, and for very high or very low temperature locations (-40° to +400°C) where resistance to corrosion is a requirement.

Renold Stainless Steel chain should be selected when resistance to

chemical action is critical.

It is manufactured using FDA approved material and is prelubricated with USDA H1 approved lubricant.

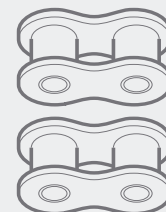
CHAIN DRIVES
& HARDWARE

Simplex

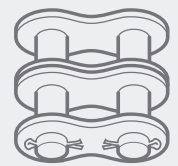
Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	58	26	12
05B1SSX10FT	05B-1	0.315	✓	✓	-	-	✓	-
06B1SSX10FT	06B-1	0.375	✓	✓	-	-	✓	✓
08B1SSX10FT	08B-1	0.500	✓	✓	✓	-	✓	-
10B1SSX10FT	10B-1	0.625	✓	✓	✓	-	✓	-
12B1SSX10FT	12B-1	0.750	✓	✓	✓	-	✓	-
16B1SSX10FT	16B-1	1.000	✓	✓	✓	-	✓	-

Duplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	58	26	12
05B2SSX10FT	05B-2	0.315	✓	✓	-	-	✓	-
06B2SSX10FT	06B-2	0.375	✓	✓	-	-	✓	✓
08B2SSX10FT	08B-2	0.500	✓	✓	✓	-	✓	-
10B2SSX10FT	10B-2	0.625	✓	✓	✓	-	✓	-
12B2SSX10FT	12B-2	0.750	✓	✓	✓	-	✓	-
16B2SSX10FT	16B-2	1.000	✓	✓	✓	-	✓	-



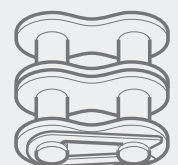
No.4



No. 11



No. 107



No. 26



RENOLD

www.renold.com



National Power Local Strength

Supplying industrial products, services and
solutions since 1998

Experts & Tools

At your service
for more
performance

Experienced and well equipped Bearing Experts at your side to scale new heights.

Our custom-made offer:

- tools and products to maintain your bearings
- theoretical and practical training on bearings and their maintenance
- technical assistance in mounting and extracting bearings
- renovation of bearings and machine tool spindles.
- expertise in damaged bearings and lubrication
- vibration analysis of rotating machinery
- rental of special tools
- maintenance audit of your organisation

Find Experts & Tools on our site at www.ntn-snr.com/services

And through expertsandtools@ntn-snr.com



www.ntn-snr.com



With You



Roller Chain

Roller chain and sprockets provide high power, synchronous drive systems suitable for a wide range of applications, Steel, Stainless Steel and Nickel plated options are available, coupled together produce a precision gear system.

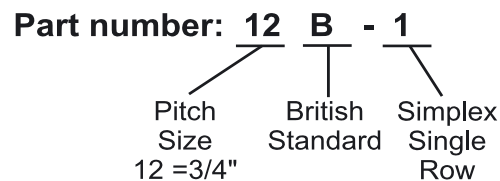
Range;

06B-1 to 32B-3 (3/8" - 2" pitch British STD)

ASA35-1 to ASA160-3 (3/8" - 2" pitch American STD)

-1 = Simplex (single row) -2 = Duplex (2 rows) -3 = Triplex (3 rows)

An extensive range is available of BS, ANSI and DIN standard chains.



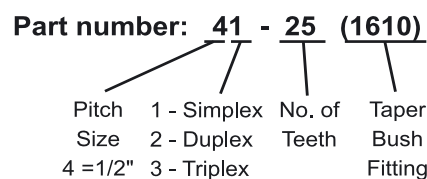
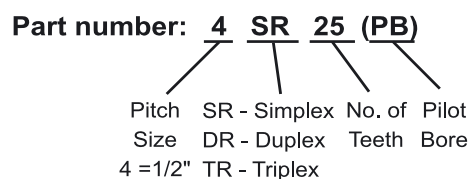
Roller Chain Sprockets

Sprockets & Platewheels are manufactured for Simplex, Duplex & Triplex chains to DIN 8187 & ISO/R 606 and are made from either cast iron EN-GJL-200 UNI EN 1561 and phosphate or Steel C45E UNI EN 10083-1.

Range;

06B-1-2-3	3/8"x7/32"	081-1	1/2"x1/8"	083-1	1/2"x3/16"
085-1	1/2"x1/4"	08B-1-2-3	1/2"x5/16"	10B-1-2-3	5/8"x3/8"
12B-1-2-3	3/4"x7/16"	16B-1-2-3	1"x17.02mm	20B-1-2-3	1-1/4"x3/4"
24B-1-2-3	1-1/2"x1"	28B-1-2-3	1-3/4"x1-1/4"	32B-1-2-3	2"x1-1/4"

Both pilot & taper bored options are available and are designed for use with British standard roller chain.



MEDWAY®



Couplings

Couplings are essentially a quick and simple solution to connecting 2 shafts of the same or different diameters. Flexible allow for slight misalignments of the shafts while rigid will hold the shafts dead parallel to each other.

Range;
HRC 70 - HRC280 (Flexible spider)
F40 - F220 (Flexible tyre)
L070 - L225 (Flexible insert)
RM12 - RM50 (Rigid)

Both flexible and rigid couplings are available with either pilot & taper bored options. Rubber inserts and tyres can be supplied in FRAS (Fire resistant & anti-static) compounds.

Part number: HRC 130 F (1610)

/		/	/
Coupling Type	Size in mm	Taper Bush Fitting	Taper Bush Size



Weld On & Bolt On Hubs

A Weld on hub is fixed to its mating component by welding into position. Bolt on hubs have predetermined holes on a defined PCD for fixing to its mating component. Both designs are drilled, tapped and taper bored to accommodate a standard taper bush to create a location point for a drive shaft.

Range;
WH12 - WH50 (1215 - 5050 taper bush)
BF12 - BF30 (1210 - 3020 taper bush)

Weld on hubs are manufactured from C45E UNI EN 10083-1 and Bolt on hubs are made from cast iron EN-GJL-200 UNI EN 1561 and phosphate.

Part number: WH 16 (1615)

/		/
Hub Type	Size	Taper Bush Fitting

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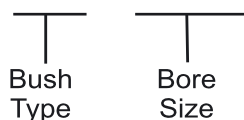
Taper Bushes

Taper bushes are made from cast iron EN-GJL-200 UNI EN 1561 and phosphated, they are the most convenient and cost effective method of fixing drive components to a mating shaft as they are pre-bored with the required shaft a keyway size. They can be used with belt pulleys, sprockets, couplings, hubs and adaptors and form a vital link between shaft and component.

Range;
1008 - 5050 both metric & imperial

Metric keyways conform to UNI 6604 DIN 6885 and imperial keyways to BS46: part 1: 1958.

Part number: 1610 x 25mm



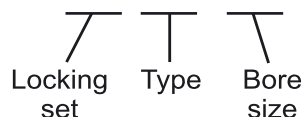
Locking Elements

Locking elements are manufactured from steel C45E UNI EN 10083-1, they are the most convenient and cost effective method of fixing drive components to a mating shaft as they are pre-bored with the required shaft size and can be fitted into a parallel mating bore.

Range;

KLAA (19 - 150mm bore)	KLAB (19 - 150mm bore)
KLBB (114 - 350mm bore)	KLCC (8 - 150mm bore)
KLDA (19 - 150mm bore)	KLDB (19 - 150mm bore)
KLEE (25 - 220mm bore)	KLFF (15 - 60mm bore)
KLGG (19 - 20mm bore)	KLHH (18 - 80mm bore)

Part number: KL AA 019



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Motor Bases

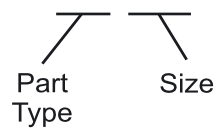
Motor slide bases are a cost effective method of mounting electric motors, that may require adjustment to center distances or where re-tensioning may be required.

Manufactured from steel they have pre-machined slots to suit the corresponding motor frame size.

Range;

SL210 - SL490 (Motor frame sizes 63 - 180)

Part number: SL 270



Gears & Racks

Gears and Racks are manufactured from C45 E UNI EN 10083-1 Steel and are produced to DIN 3962/63/67.

Both Bevel & Spur gears are available with standard pilot bore sizes, our in-house machine workshop can add the required bore and keyway sizes, in addition we can add grub screws or change the dimensions to suit your requirements.

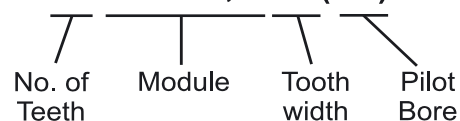
Range;

Spur gears with boss (mod 1 - mod 6)

Spur gears without boss (mod 1 - mod 6)

Bevel gear pairs 1:1, 2:1, 3:1 & 4:1 (mod 1,5 - mod 5)

Part number: 16 MOD 2,5 25 (PB)



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Male Rod End Bearings

Male Rod End bearings are available in a wide range of designs and materials, metric and imperial threads both right and left handed and metric and imperial bore sizes.

Materials include Steel, Stainless Steel and Aluminium and are plated or anodised to the colour of your choice with GR-Nylon, Bronze, Polyurethane and PTFE liners.

Range;

MP-M (3 - 25mm bore and thread sizes)	MP- (3/16" - 1" bore and thread sizes)
MB-M (3 - 25mm bore and thread sizes)	MB- (3/16" - 1" bore and thread sizes)
MH-M (3 - 25mm bore and thread sizes)	MH- (3/16" - 1" bore and thread sizes)
MS-M (3 - 25mm bore and thread sizes)	MS- (3/16" - 1" bore and thread sizes)

Metric rod ends are based on DIN 648 specifications and imperial rod ends are based on SAE J1120 specification. All products are ELV and RoHS compliant.

Part number: M S - M08 F39

Male Thread Type of Liner Bore & Thread Size Plating Spec

CHAIN DRIVES
& HARDWARE
(VALUE RANGE)



Female Rod End Bearings

Female Rod End bearings are available in a wide range of designs and materials, metric and imperial threads both right and left handed and metric and imperial bore sizes.

Materials include Steel, Stainless Steel and Aluminium and are plated or anodised to the colour of your choice with GR-Nylon, Bronze, Polyurethane and PTFE liners.

Range;

FP-M (3 - 25mm bore and thread sizes)	FP- (3/16" - 1" bore and thread sizes)
FB-M (3 - 25mm bore and thread sizes)	FB- (3/16" - 1" bore and thread sizes)
FH-M (3 - 25mm bore and thread sizes)	FH- (3/16" - 1" bore and thread sizes)
FS-M (3 - 25mm bore and thread sizes)	FS- (3/16" - 1" bore and thread sizes)

Metric rod ends are based on DIN 648 specifications and imperial rod ends are based on SAE J1120 specification. All products are ELV and RoHS compliant.

Part number: F S - M08 F39

Female Thread Type of Liner Bore & Thread Size Plating Spec

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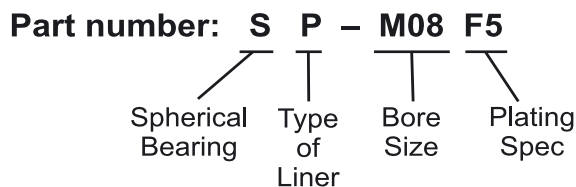
Spherical Bearings

Spherical bearings are available in a wide range of designs and materials, including Steel, Stainless Steel and Aluminium and are plated or anodised to the colour of your choice with GR-Nylon, Bronze, Polyurethane and PTFE liners.

Range;

SP-M	(3 - 25mm bore size)	SP-	(3/16" - 1" bore size)
SPH-M	(6 - 16mm bore size)	SPH-	(3/16" - 1" bore size)
GE-ES	(6 - 140mm bore size)	GEZ-	(1/2" - 3-1/2" bore size)
GE-UK	(6 - 120mm bore size)	COM-	(3/16" - 1" bore size)

Metric spherical bearings are based on DIN 648 specifications and imperial spherical bearings are based on SAE J1120 specification. All products are ELV and RoHS compliant.



Ball Joints

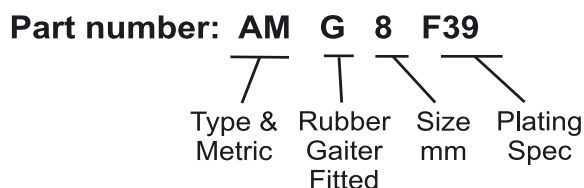
Ball Joints are available in a wide range of designs and materials, light-weight nylon, die cast zinc alloy, steel and stainless steel are available in styles incorporating retaining springs, safety clips, swaging, nylon liners and detachable studs.

Range;

A, BL, BM, C, D, F, I, M, P, Q & T series

Metric ball joints are based on DIN 648 and imperial ball joints are based on SAE J1120 specification.

All products are ELV and RoHS compliant.



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Clevises

Clevis joints, also known as 'yoke' or 'fork' ends, are available in both metric and imperial thread and hole sizes. Folding spring pins along with standard clevis pins are available to ease assembly of clevises with their mating parts.

Range;

GM series (Metric clevis)

ESM (Metric folding spring pin)

NBM (Metric clevis pin)

DEM (Metric clevis pin)

GI series (Imperial clevis)

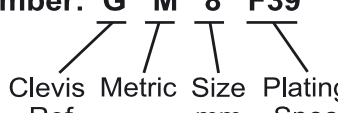
ESI (Imperial folding spring pin)

NBI (Imperial clevis pin)

DEI (Imperial clevis pin)

Metric Clevis components are based on DIN 71752 and all imperial on DIN 71802, all items are ELV and RoSH compliant.

Part number: G M 8 F39





Linkages

Rod-based linkage assemblies comprise typically of a linkage rod, and two linkage components, such as a clevis, rod end or ball joint attached to each end, the centers of the components might be set to a pre-determined distance.

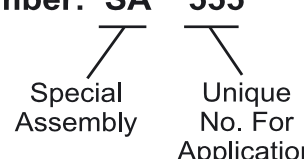
Medway is the UK's market leader for linkage related components, as shown in the previous pages, but in addition we are able to produce a wide range of custom made linkage assemblies to suit individual customer requirements. Such assemblies are used in a wide variety of applications; agricultural, construction equipment, road sweepers, motor-sport, position sensors, lawn mowers, luxury cars... and so on. To assist you our design team are on hand to help with design and application requirements.

Range;

100% to individual customer applications.

All linkages are produced to tight dimensional tolerances and are ELV and RoSH compliant.

Part number: SA 555



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