

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 BS 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 BS LAMBDA's long economic life and wear resistance.

Temperature and Lubrication

TSUBAKI BS LAMBDA has outstanding performance in temperatures up to +150°C.

For temperatures above +150°C: Due to the special NSF-H1 certified lubrication impregnated bushes, TSUBAKI BS LAMBDA KF Series is usable in a wide temperature range (from -10°C to +230°C), and for food product applications while at the same time being kind to the environment.

Please consult TSUBAKI for more detailed information.



Fig. 22 Basic Construction

Advantages

TSUBAKI has enhanced the BS 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 its long economic life. No purchasing of lubricants or lubrication systems necessary.

Higher Productivity

No unforeseen downtime due to chain breakage. 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

BS LAMBDA attachment chains are fully interchangeable with standard BS roller chains.

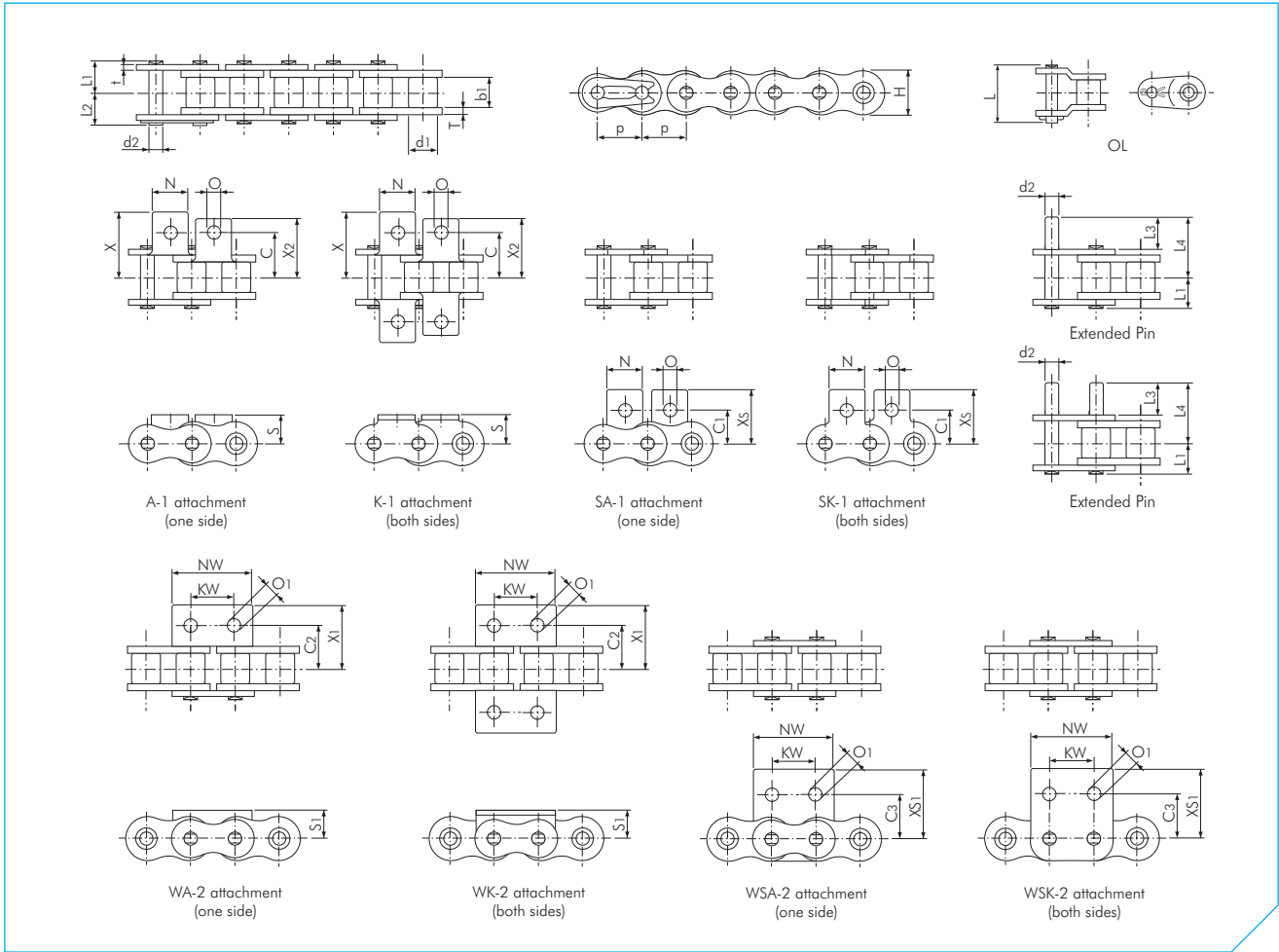
Standard Product Range

The product range for our standard LAMBDA attachment chains is:

- BS Single Pitch LAMBDA chain + standard attachments
- BS Single Pitch LAMBDA RF chain with flat shaped link plates
- ANSI Single Pitch LAMBDA chain + standard attachments
- ANSI Single Pitch LAMBDA HP Hollow Pin chain
- ANSI Double Pitch LAMBDA chain

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





BS Single Pitch LAMBDA Chain

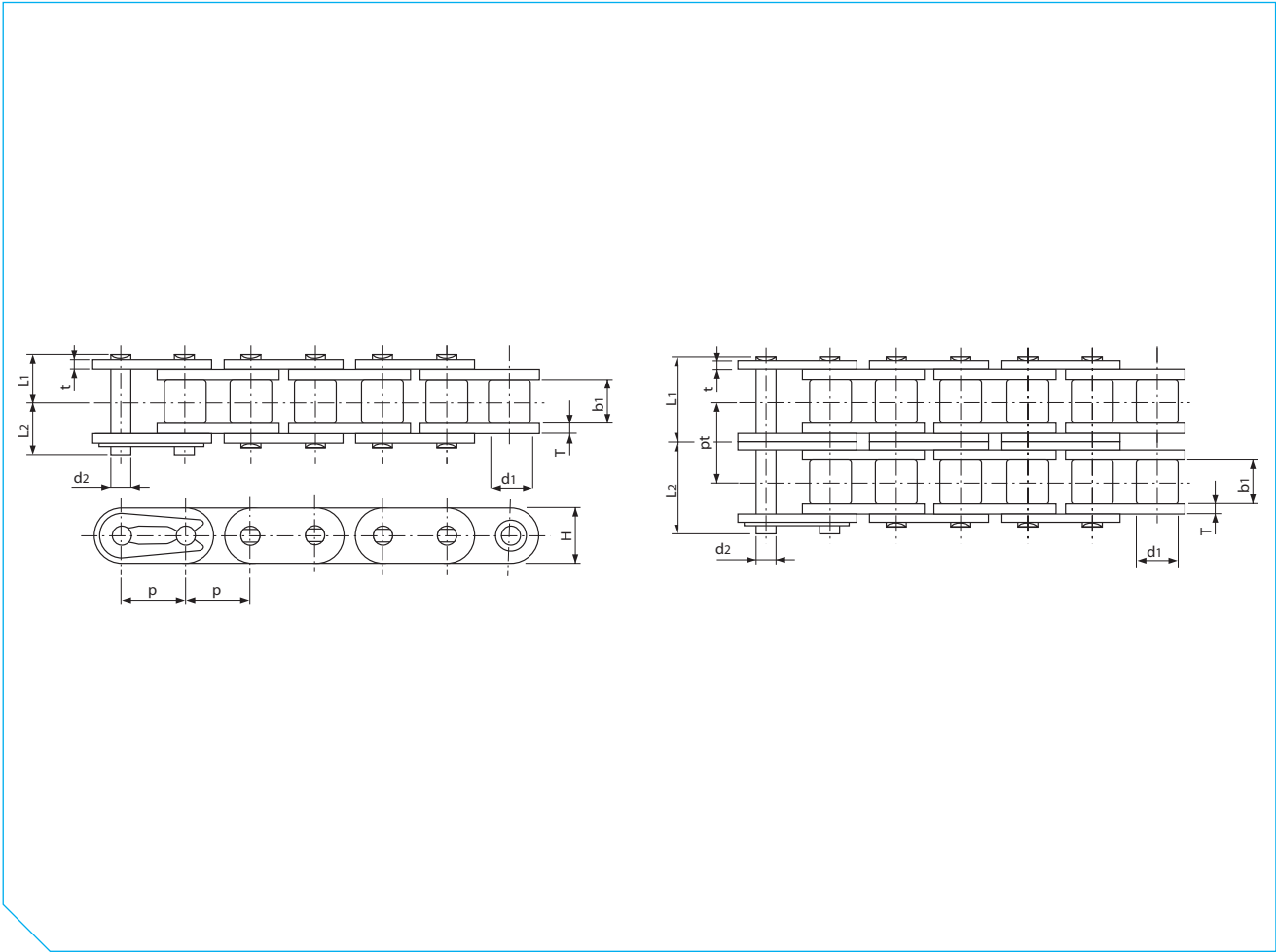
Dimensions in mm

| TSUBAKI Chain No. | Pitch p | Roller Diameter d1 | Inner Width b1 | Pin | | | | | | Link Plate | | | Approx. Mass kg/m |
|-------------------|---------------|-----------------------|-------------------|----------------|--------------|--------------|--------------|--------------|-------------|----------------|----------------|--------------------|----------------------|
| | | | | Diameter d2 | Length L1 | Length L2 | Length L3 | Length L4 | Length L | Thickness T | Thickness t | Height H (max.) | |
| RS08B-LM | 12.70 (1/2") | 8.51 | 7.75 | 4.45 | 8.40 | 10.00 | 14.70 | 22.20 | 18.60 | 1.60 | 1.60 | 11.80 | 0.70 |
| RS10B-LM | 15.875 (5/8") | 10.16 | 9.65 | 5.08 | 9.55 | 11.25 | 17.80 | 26.15 | 20.80 | 1.50 | 1.50 | 14.70 | 0.95 |
| RS12B-LM | 19.05 (3/4") | 12.07 | 11.68 | 5.72 | 11.10 | 13.00 | 20.80 | 30.60 | 24.40 | 1.80 | 1.80 | 16.10 | 1.25 |
| RS16B-LM | 25.40 (1") | 15.88 | 17.02 | 8.28 | 17.75 | 19.95 | 33.20 | 49.35 | 41.10 | 4.00 | 3.20 | 21.00 | 2.70 |

| TSUBAKI Chain No. | Attachment Dimensions | | | | | | | | | | | | | | | Attachment Mass | | | | | |
|-------------------|-----------------------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-----------------|-----------------|-----------------|-------------------|-------------------|---------------------|
| | C | C1 | C2 | C3 | KW | N | NW | O | O1 | S | S1 | X | X1 | X2 | XS | XS1 | A SA kg/att. | K SK kg/att. | WA WSA kg/att. | WK WSK kg/att. | Ext. Pin kg/att. |
| RS08B-LM | 11.90 | 12.70 | 12.70 | 13.10 | 12.70 | 11.40 | 24.60 | 4.20 | 4.90 | 8.90 | 8.90 | 19.05 | 20.30 | 17.15 | 19.30 | 20.70 | 0.002 | 0.004 | 0.005 | 0.010 | 0.001 |
| RS10B-LM | 15.90 | 15.90 | 15.90 | 16.60 | 15.90 | 12.70 | 30.00 | 5.00 | 5.00 | 10.20 | 10.20 | 22.25 | 22.85 | 20.60 | 22.90 | 23.60 | 0.003 | 0.006 | 0.006 | 0.012 | 0.002 |
| RS12B-LM | 19.05 | 22.20 | 17.45 | 17.60 | 19.10 | 16.50 | 34.80 | 7.10 | 5.50 | 13.50 | 11.40 | 29.85 | 25.65 | 27.80 | 32.05 | 25.75 | 0.006 | 0.012 | 0.009 | 0.018 | 0.003 |
| RS16B-LM | 23.80 | 23.90 | 28.60 | 26.00 | 25.40 | 24.30 | 46.00 | 6.70 | 8.10 | 15.20 | 15.90 | 37.35 | 39.25 | 34.40 | 34.10 | 36.70 | 0.014 | 0.028 | 0.030 | 0.060 | 0.008 |

Note:

1. Connecting links are clip type.
2. Warning: previous generations of Lambda chain cannot be connected with the above chains due to different dimensions.



BS Single Pitch LAMBDA RF Chain

Dimensions in mm

| TSUBAKI Chain No. | Pitch p | Roller Diameter d1 | Inner Width b1 | Pin | | | Link Plate | | | Transverse Pitch pt | Approx. Mass kg/m |
|-------------------|---------------|--------------------|----------------|-------------|-----------|-----------|-------------|-------------|----------|---------------------|-------------------|
| | | | | Diameter d2 | Length L1 | Length L2 | Thickness T | Thickness t | Height H | | |
| RF08B-LM-1 | 12.70 (1/2") | 8.51 | 7.75 | 4.45 | 8.40 | 10.00 | 1.60 | 1.60 | 12.00 | - | 0.70 |
| RF08B-LM-2 | | | | | 15.30 | 16.90 | | | | 13.92 | 1.40 |
| RF10B-LM-1 | 15.875 (5/8") | 10.16 | 9.65 | 5.08 | 9.55 | 11.25 | 1.50 | 1.50 | 14.70 | - | 0.95 |
| RF10B-LM-2 | | | | | 17.85 | 19.55 | | | | 16.59 | 1.90 |
| RF12B-LM-1 | 19.05 (3/4") | 12.07 | 11.68 | 5.72 | 11.10 | 13.00 | 1.80 | 1.70 | 16.10 | - | 1.25 |
| RF12B-LM-2 | | | | | 20.85 | 22.75 | | | | 19.46 | 2.60 |
| RF16B-LM-1 | 25.40 (1") | 15.88 | 17.02 | 8.28 | 17.75 | 19.95 | 4.00 | 3.20 | 24.00 | - | 2.70 |
| RF16B-LM-2 | | | | | 33.55 | 35.75 | | | | 31.88 | 5.60 |

Note:

1. Connecting links are clip type.
2. Intermediate plate of RF08B-LM-2 chain is a solid plate.