

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

#### Temperature and Lubrication

TSUBAKI ANSI 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 ANSI 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. 23 Basic Construction

### Advantages

TSUBAKI has enhanced the ANSI 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

ANSI LAMBDA Attachment chain is interchangeable with standard ANSI roller chains. 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.

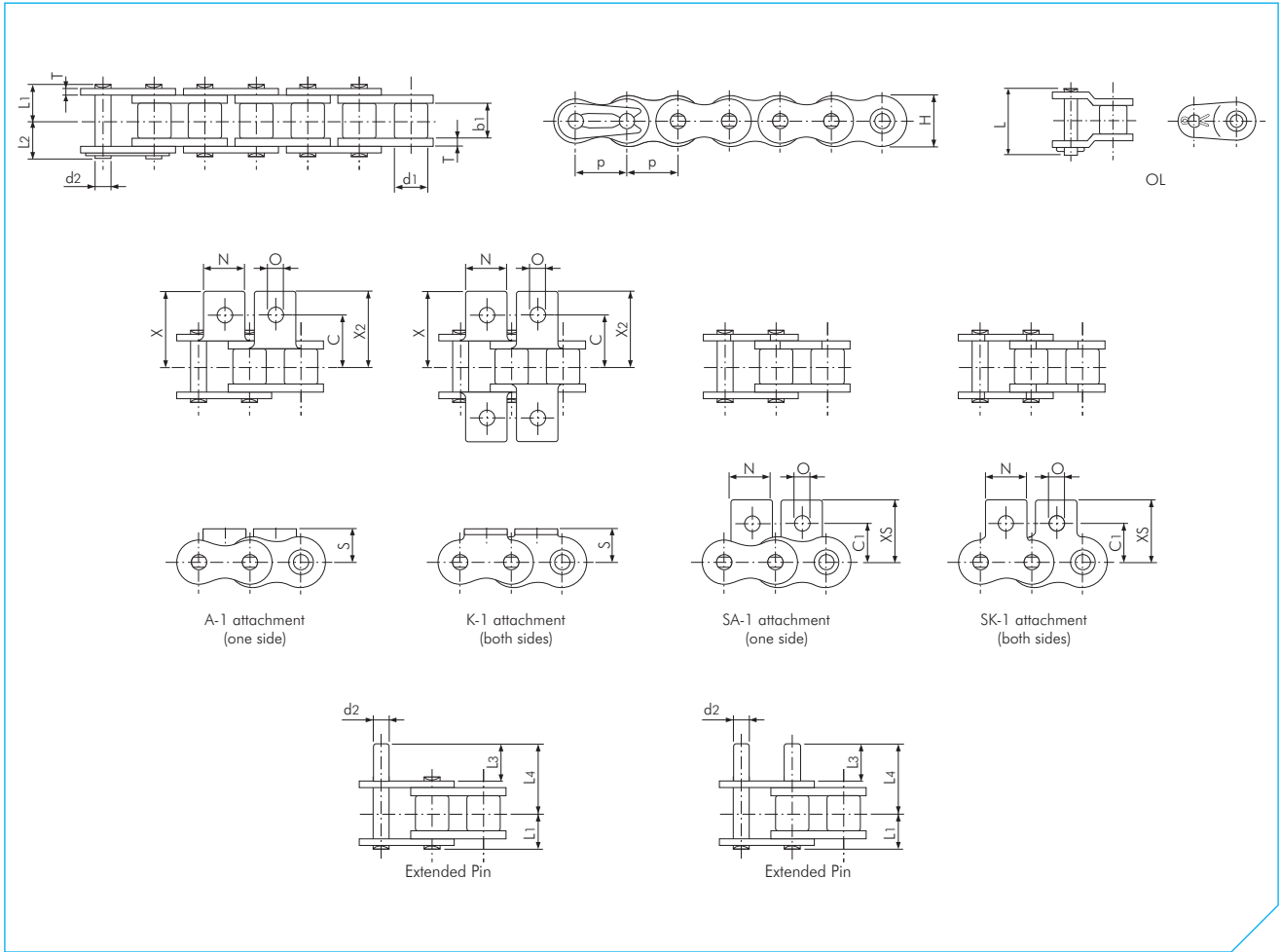
#### Standard Product Range

The product range for our standard LAMBDA attachment chains is:

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

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





## ANSI Single Pitch LAMBDA Chain

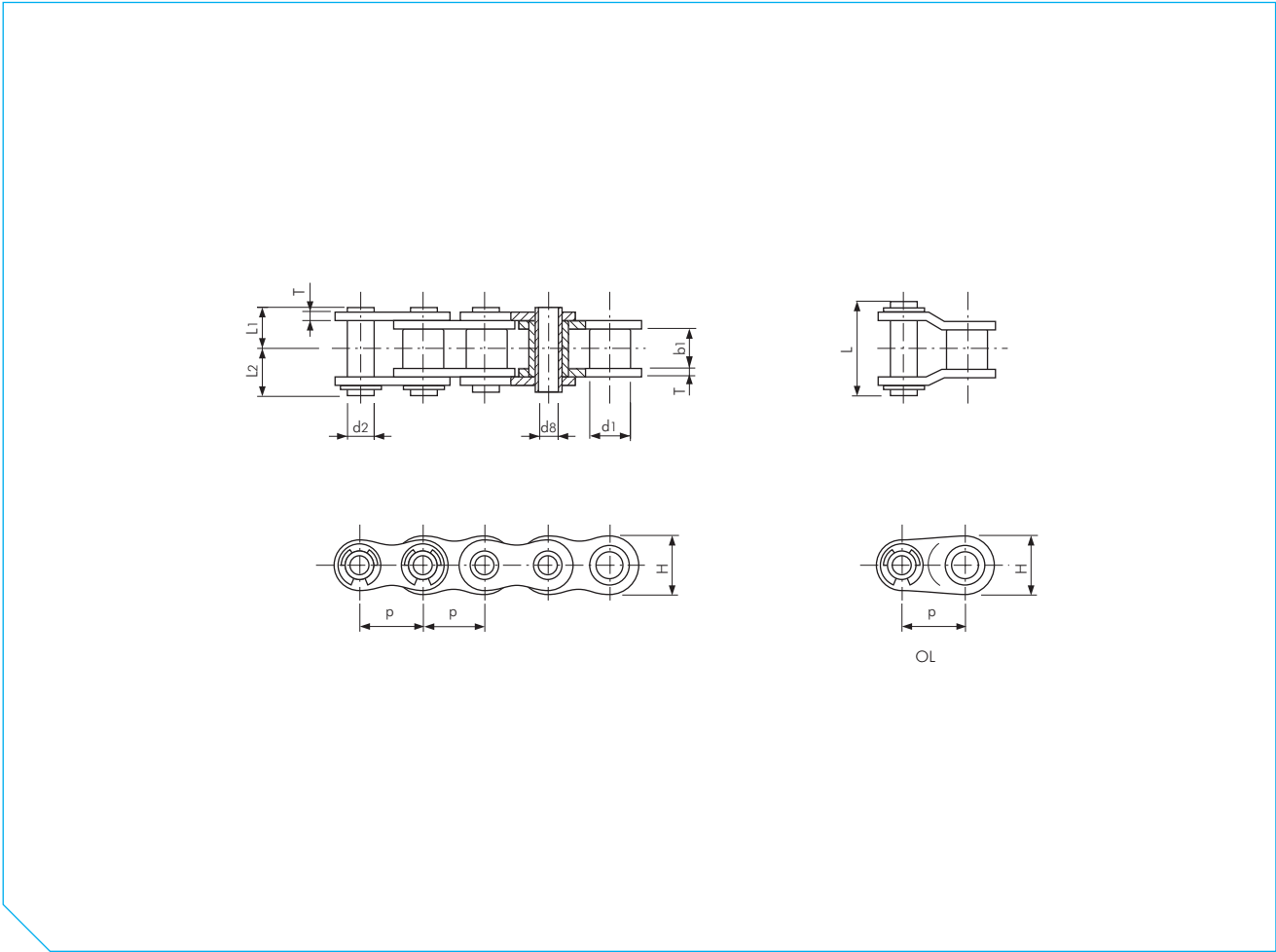
Dimensions in mm

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	Height H (max.)	
RS40-LMC	12.70 (1/2")	7.92	7.95	3.97	8.25	9.95	9.50	16.75	18.20	1.50	12.00	0.64
RS50-LMC	15.875 (5/8")	10.16	9.53	5.09	10.30	12.00	11.90	21.00	22.60	2.00	15.00	1.04
RS60-LMC	19.05 (3/4")	11.91	12.70	5.96	12.85	14.75	14.30	25.75	28.20	2.40	18.10	1.53
RS80-LMC	25.40 (1")	15.88	15.88	7.94	16.25	19.25	19.10	33.85	36.60	3.20	24.10	2.66

TSUBAKI Chain No.	Attachment Dimensions								Attachment Mass		
	C	C1	N	O	S	X	X2	XS	A SA kg/att.	K SK kg/att.	Ext. Pin kg/att.
RS40-LMC	12.70	12.70	9.50	3.60	8.00	17.80	17.80	17.40	0.002	0.004	0.001
RS50-LMC	15.90	15.90	12.70	5.20	10.30	23.40	23.40	23.05	0.003	0.006	0.002
RS60-LMC	19.05	18.30	15.90	5.20	11.90	28.20	28.20	26.85	0.007	0.014	0.003
RS80-LMC	25.40	24.60	19.10	6.80	15.90	36.60	36.60	35.45	0.013	0.026	0.007

**Note:**

1. Connecting links are clip type for sizes up to RS60-LMC, and cotter type for size RS80-LMC.
2. Drive and Conveyor series LAMBDA chains cannot be intercoupled or interchanged.
3. Standard ANSI sprockets can be used.
4. LAMBDA Conveyor Chain cannot be used as a drive chain. This chain is designed for conveyor applications where speeds are lower and center distances are larger than drive chain applications.
5. Special attachments are available on request.

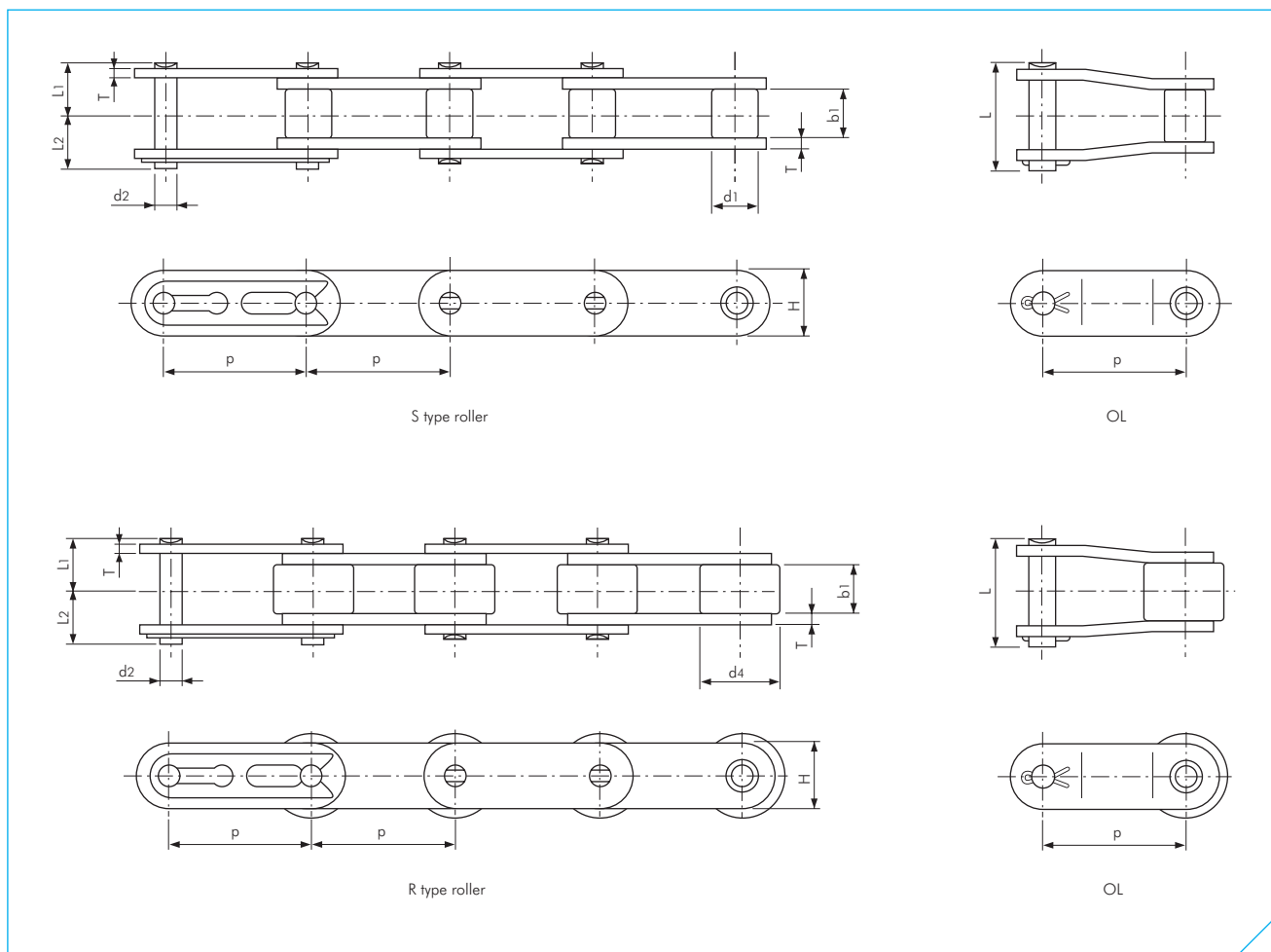


## ANSI Single Pitch LAMBDA Hollow Pin (HP) Chain

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Bush Diameter d1	Inner Width b1	Pin					Link Plate		Approx. Mass kg/m
				Diameter d2	Hollow Pin d8	Length L1	Length L2	Length L	Thickness T	Height H (max.)	
RS40-LMC-HP	12.70 (1/2")	7.92	7.95	5.68	4.00	8.00	9.50	19.10	1.50	12.00	0.53
RS50-LMC-HP	15.875 (5/8")	10.16	9.53	7.22	5.12	10.05	11.65	23.40	2.00	15.00	0.86
RS60-LMC-HP	19.05 (3/4")	11.91	12.70	8.38	5.99	12.55	14.25	28.70	2.40	18.10	1.27

Note:  
 1. ANSI LMC-HP chain is rollerless chain (only bush).



## ANSI Double Pitch LAMBDA Chain

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Inner Width b1	Roller		Pin			Link Plate		Approx. Mass		
			S Roller d1	R Roller d4	Diameter d2	Length L1	Length L2	Length L	Thickness T	Height H	S Roller kg/m	R Roller kg/m
RF2040-LMC	25.40 (1")	7.95	7.92	15.88	3.97	8.25	9.95	18.20	1.50	12.00	0.51	0.87
RF2050-LMC	31.75 (1 1/4")	9.53	10.16	19.05	5.09	10.30	12.00	22.60	2.00	15.00	0.84	1.30
RF2060-LMC	38.10 (1 1/2")	12.70	11.91	22.23	5.96	14.55	16.55	31.50	3.20	17.20	1.51	2.19

**Note:**

1. Connecting links are clip type.
2. LAMBDA Conveyor Chain cannot be used as a drive chain. This chain is designed for conveyor applications where speeds are lower and center distances are larger than drive chain applications.
3. Special attachments are available on request.
4. Chain with S type roller is indicated as RF2040S-LMC.
5. Chain with R type roller is indicated as RF2040R-LMC.