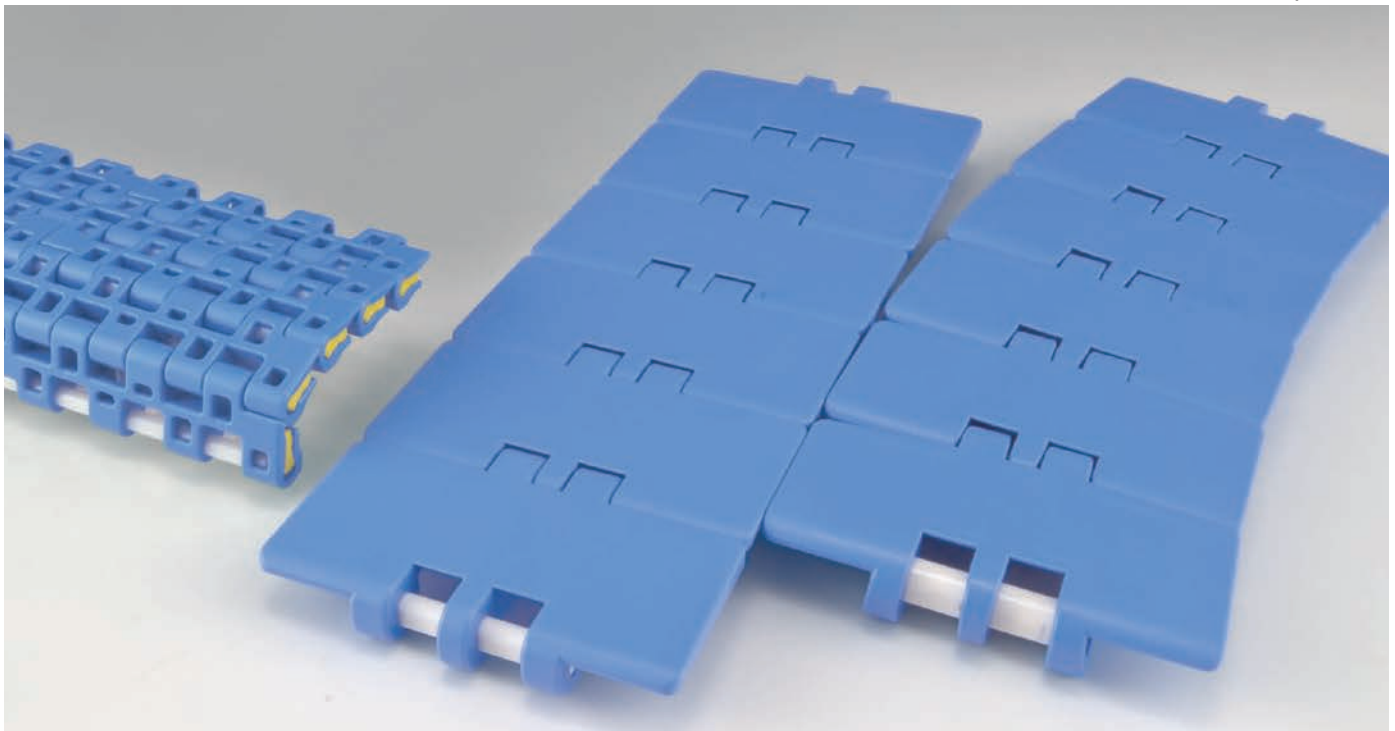


TSUBAKI PLASTIC TOP CHAIN ALF ADVANCED LOW FRICTION / WEAR RESISTANT SERIES

Top Chain



**Tsubaki Offers a Superb Material!
A New Approach to Dry Running!**

Advantages of ALF Advanced Low Friction / Wear Resistant Chain

- Tsubaki has developed a unique original material compounded with silicone lubricant for use in dry running applications.
- The ALF series can dramatically reduce wear powder on the sliding surfaces of UHMW-PE wearstrips in dry running applications, while maintaining the lowest coefficient of friction compared with other plastic chains.

■ Applications

We recommend the following applications, mainly on beverage production lines where you want to reduce the use of lubricants.

- Processes in which you can't use lubricants: Caser lines
- Processes that use dry lubricants: Inspection lines before caser lines
- Accumulating conveyors, processes involving high-speed single-row conveyors: Single filers, inspection lines, printing lines



Plastic Top Chain (Straight Running: TTP)

Tsubaki Model No.	Connecting Pin	Link Color	Max. Allowable Load kN{kgf}	Approx. Mass kg/m	Max. Allowable Speed m/min		Operating Temperature Range °C
					With Lube	No Lube	
TTP826-ALF	Stainless Steel Pin	Light Blue	0.83{85}	0.9	100	50	-20 to (60) 80
TTP1143-ALF				1.0			
TTP826P-ALF				0.65			
TTP1143P-ALF	Plastic Pin			0.8			

Plastic Top Chain (Sideliflexing: TTUP)

Tsubaki Model No.	Connecting Pin	Link Color	Max. Allowable Load kN{kgf}	Approx. Mass kg/m	Max. Allowable Speed m/min		Operating Temperature Range °C
					With Lube	No Lube	
TTUP826-ALF	Stainless Steel Pin	Light Blue	1.08{110}	1.0	100	50	-20 to (60) 80
TTUP1143-ALF				1.1			
TTUP826P-ALF				0.7			
TTUP1143P-ALF	Plastic Pin		0.88{90}	0.8			

- Note: 1. The above models are standard. Please contact a Tsubaki representative for other models, which may be made to order.
 2. ALF series plastic chains other than those listed above are also available. The chain configuration and plastic pin color are the same as on Tsubaki ULF chains.
 3. Operating temperature of (60) is for plastic pin chains in wet conditions.

Model Numbering

Chain Type | Plate Width | Plastic Pin | Chain Material

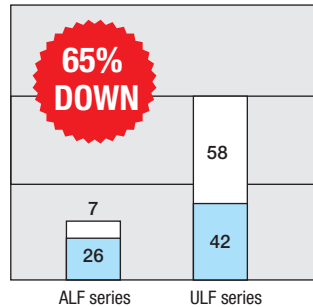
TTP 826 P — ALF

(826 = 82.6 mm)
 • Add "P" for plastic pin type.
 • Fill the spaces between characters.

Comparison between ALF and ULF Wear Volume

Chain type: TTP826
 Chain speed: 60 m/min
 Weight: 5 kg
 Wearstrip: PR-PH520-W (UHMW-PE)
 Normal temperature
 Dry conditions

□ Rail wear
 ■ Chain wear



- The graph shows in-house test results. Wear volume is compared, with ULF chain represented as 100.
- Compared with the Tsubaki ULF series, the ALF series can significantly reduce wear powder on wearstrips. If you need to reduce wear powder even more, we recommend using Tsubaki wear-resistant PLF wearstrips.

Notification to Change to ALF from ULF Series

- As of June 2017, the ALF series incorporates ULF series Plastic Top chains, plastic modular chains, and plastic block chains.
- Please contact us if you have any inquiries regarding the ULF series after the change.



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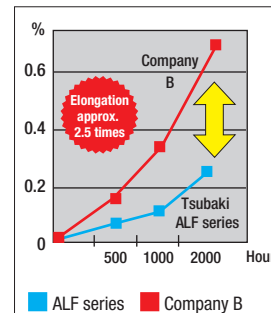
The Tsubaki Eco Link logo is used only on products that satisfy the standards for environmental friendliness set by the Tsubaki Group.

Comparison with Other Brands

The following graph shows in-house test results.

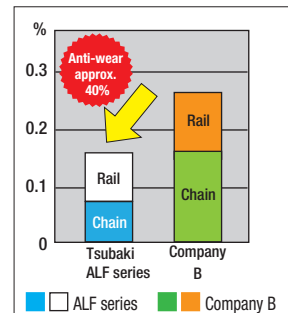
Chain: TTP826-ALF
 Chain speed: 120 m/min; Weight: 5kg
 Low friction wear resistant wearstrip:
 PR-PH520-PLF
 Normal temperature; Dry conditions

Note:
 Company B: New ultra-low friction chain, polyacetal links
 Company B-recommended new anti-wear rails



Comparison of Elongation

The Tsubaki ALF series promises a service life around **2.5 times** longer than that of company B's comparable product.



Chain and Rail Wear Volume Comparison

Compared with company B's product, the Tsubaki ALF series offers around **40% reduced** wear.

Note:

- ALF series plastic chains and PLF series plastic rails contain silicone-based lubricant. They should therefore not be used for printing processes or in situations where silicone would have a harmful effect.
- When replacing existing chains with ALF series chains, we also recommend replacing the rails simultaneously.
- When using the ALF series, please use Tsubaki high-rotation return rollers or return rollers with a 60 mm outside diameter (i.e., a high inner/outer diameter ratio).

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This product has been granted a patent in the United States.

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