

Specialty Chain

U.S. Tsubaki Specialty Chain

U.S. Tsubaki is the world leader in providing specialty chains for the most demanding applications. In addition to industry leading made-to-order capabilities, U.S. Tsubaki offers a number of “standard” specialty chains.

- **Lube-Free chain** — High quality lubricant is impregnated into the sintered metal bushings for applications where normal lubrication is not practical.
- **FX chain** — Increased clearance between pins and bushings allows for added chain flexibility with excellent durability.
- **Rollerless chain** — Designed and manufactured to withstand continued wearing.
- **Wrench chain** — Extra long pins serve as tension linkages to provide a secure hold for pipe wrenches.
- **Laminated Block chain** — Manufactured with 304 stainless steel, it directly replaces solid block chain in light load, low speed applications.
- **Agriculture chain** — With higher tensile strength, longer life, and smoother operation than malleable chains, U.S. Tsubaki offers MR and RF types for agriculture applications.



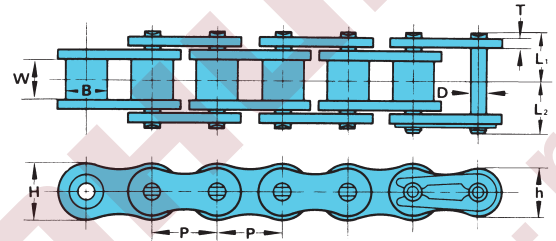
Lube-Free Chain



For use where normal lubrication is not practical, i.e., food processing equipment, packaging machines, printing and binding equipment, and textile machines.

High quality lubricant is impregnated into the sintered metal bushings. Joint movement between the pin and bushing releases the necessary volume of oil to the pin surface and other parts, thereby minimizing chain elongation and eliminating the risk of chain seizure from insufficient lubrication.

See our Drive Series LAMBDA® (page A-25) and Conveyor Series LAMBDA chains (page B-11) for additional specifications on other lube-free chains.



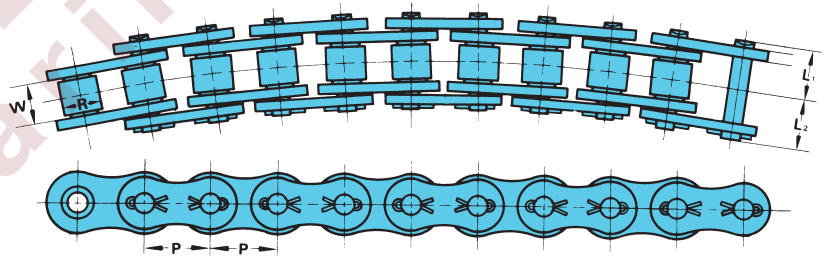
U.S. TSUBAKI	Pitch	Bushing Diameter	Width Between Inner Link Plates	Pin			Link Plate			Average Tensile Strength lbs.	Approx. Weight lbs./ft.
Chain No.	P	B	W	D	L ₁	L ₂	T	H	h		
RS40SL	.500	.312	.297	.156	.325	.392	.060	.472	.409	3,300	.43
RS50SL	.625	.400	.359	.200	.406	.472	.080	.591	.512	5,200	.70
RS60SL	.750	.469	.485	.234	.506	.581	.094	.713	.614	7,400	1.03

FX Chain

FX CHAINS

U.S. Tsubaki FX chains feature excellent durability and flexibility for tough applications such as in concrete mixers, earth moving equipment, and mining machines.

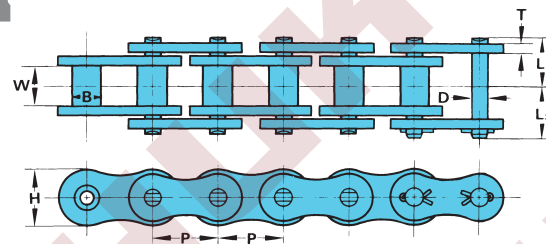
1. FX chains are interchangeable with ASME/ANSI standard chains and can operate on the same ASME/ANSI standard sprocket.
2. Increased clearance between pins and bushings allows the chains to accommodate a 4 inch lateral side bow and an 8 degree twist per 4 feet of chain.



U.S. TSUBAKI	Pitch	Roller Diameter	Width Between Roller Link Plates	Pin		Average Tensile Strength lbs.	Approx. Weight lbs./ft.
Chain No.	P	R	W	L ₁	L ₂		
RS100FX	1.250	.750	.750	.778	.900	24,000	2.51
RS120FX	1.500	.875	1.000	.980	1.138	34,000	3.69
RS140FX	1.750	1.000	1.000	1.059	1.248	46,000	5.00
RS160FX	2.000	1.125	1.250	1.254	1.451	58,000	6.53
RS180FX	2.250	1.406	1.406	1.404	1.671	72,000	8.69

Rollerless Chain

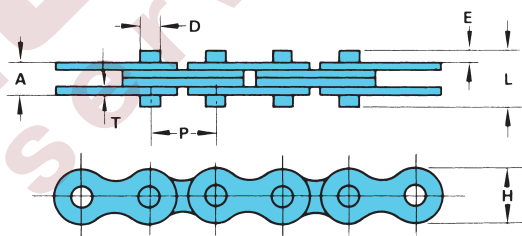
Rollerless chains are ideal for tension linkage applications and are designed and manufactured to withstand continual wearing action.



U.S. TSUBAKI	Pitch	Bushing Diameter	Width Between Inner Link Plates	Pin			Link Plate		Average Tensile Strength lbs.	Approx. Weight lbs./ft.
Chain No.	P	B	W	D	L ₁	L ₂	T	H		
RS65	.750	.330	.500	.234	.506	.581	.094	.713	9,800	.81
RS85	1.000	.448	.625	.312	.640	.758	.125	.949	17,200	1.41
RS105	1.250	.533	.750	.375	.778	.900	.156	1.185	25,500	2.08
RS125	1.500	.627	1.000	.437	.980	1.138	.187	1.425	36,300	3.04

Wrench Chain

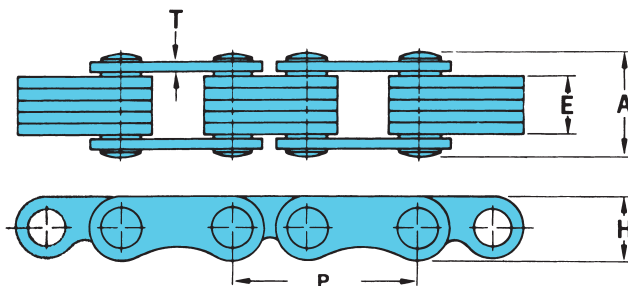
U.S. Tsubaki Wrench chains have extra long pins extending beyond both sides of the chain. They serve as tension linkages for holding pipes securely in pipe wrenches.



U.S. TSUBAKI	Pitch	Lacing	Pin			Link Plate		Width Over Link Plate	Average Tensile Strength lbs.	Approx. Weight lbs./ft.
Chain No.	P		D	L	E	T	H	A		
50WR	.625	2x2	.200	.559	.114	.080	.512	.331	6,750	.45
60WR	.750	2x2	.234	.787	.197	.094	.614	.394	9,000	.62

Laminated Block Chain

Laminated Block chain is used in light load, low speed applications. The chain is made entirely of 304 stainless steel. It is available in a variety of sizes, and it directly replaces Solid Block chain.



U.S. TSUBAKI Laminated Block Chain (304SS)	Pitch P	Block Width E	Link Plate T	Width A	Height H	Weight lbs./ft.
T502LSS	1.000	.188	.060	.375	.325	.3
T503LSS	1.000	.250	.060	.437	.325	.3
T504LSS	1.000	.312	.060	.562	.325	.4
T505LSS	1.000	.375	.060	.625	.325	.4
T506LSS	1.000	.500	.060	.750	.325	.5

Agriculture Chain

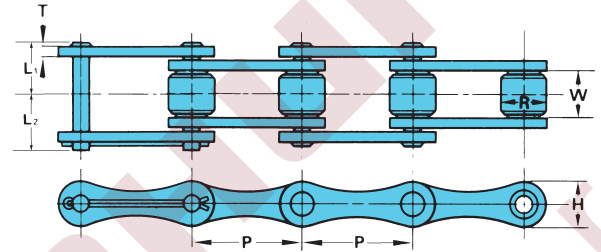
U.S. Tsubaki offers both MR type and RF type steel roller chains for agricultural applications.

MR type steel roller chains have been designed to replace malleable chains. These chains can be used with the existing sprockets for malleable chains.

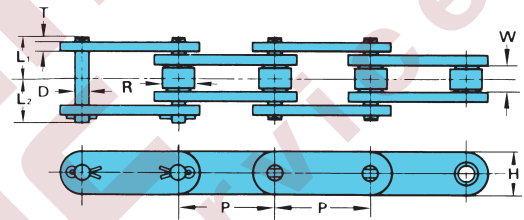
They have higher tensile strength, longer life, and provide smoother operation for drives and conveyors than malleable chains. U.S. Tsubaki MR type steel roller chains with various attachments can also be used for material handling operations.



U.S. Tsubaki RF type steel roller chains have greater wear resistance and higher tensile strength than MR type steel roller chains.



MR TYPE



RF TYPE

U.S. TSUBAKI	Pitch	Roller Diameter	Width Between Roller link Plates	Pin			Link Plate		Min. Tensile Strength lbs.	Approx. Weight lbs./ft.
	Chain No.	P	R	W	D	L ₁	L ₂	T		
MR32	1.150	.450	.625	.175	.514	.569	.060	.500	1,980	.50
MR42	1.375	.562	.750	.275	.663	.750	.098	.750	6,600	1.08
MR52	1.500	.600	.875	.225	.724	.819	.098	.640	4,400	1.06
MR55	1.630	.700	.875	.225	.724	.819	.098	.650	6,380	1.10
MR45	1.630	.600	.875	.225	.724	.819	.098	.650	4,400	.97
MR62	1.650	.750	1.000	.225	.789	.817	.098	.660	6,380	1.26
CA550	1.630	.661	.795	.281	.683	.821	.106	.787	11,200	1.31
CA620	1.654	.696	.984	.281	.829	.951	.125	.787	11,200	1.60

See page B-28 for attachment specifications.