



BORN TO RULE THE FOREST

Tsubaki of Canada Limited

1630 Drew Road, Mississauga, Ontario, CANADA L5S 1J6
Tel: 905-676-0400 Fax: 905-676-0904 Toll-Free: 800-263-7088
www.tsubaki.ca e-mail: info@tsubaki.ca

TCL-Forest2-E

Note: In accordance with the policy of Tsubaki of Canada Limited to consistently improve its products, the specifications in this catalogue are subject to change without notice. Please contact Tsubaki for current prices.

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2 0 1 3 F O R E S T R Y P R O D U C T S C A T A L O G U E



FORESTRY GRADE IS YOUR EXPECTATION.

To us this means providing products that meet some of the most demanding applications in the industry. Period. Shock load, fatigue limit, abrasion, extreme speed, maintenance-free are all demanding conditions that Tsubaki products excel at. Nobody has the range of products that meet Forestry grade that Tsubaki does. Drive chains, conveyor chains with attachment, Sharp Top chains, drag and mill chains, full range of sprockets, several types of bushings including Power Locks are all the products that suit the needs of Forestry.

You can rely on Tsubaki's experience in field and technical support to provide solutions you need to increase production and reduce cost. On-site training, application survey and trouble shooting, wear and failure analysis with recommendation are key services we provide to the Forestry industry.

Documented cost savings are proof that our products and sales effort can work for you. All of this catalogue's print date proven cost savings in the Forestry alone totaled \$748,759.60 US.

Tsubaki quality means Forestry Grade proven!



Products for the Forestry Industry

Drive Chains	
ASME (ANSI) Standard Drive Chain	6
SpeedMaster Drive Chain	8
Lambda Self-Lubricating Drive Chain	10
Curved Lambda Drive Chain	12
X-Lambda Self-Lubricating Drive Chain	13
Super Series Chain	14
HT Series Chain	16
Super-H Series Chain	17
Neptune Drive Chain	18
Sharp Top Chain	
Sharp Top Chain	20
Attachment Chains	
Conveyor Chain & Attachments Introduction	24
Trimmer Lug	26
Standard Attachment Chain Single Pitch	28
Standard Attachment Chain Double Pitch	30
Ordering Attachment Chains	33
81X Chain & 3939-B4	
81X Chain & 3939-B4	34
Welded Steel Chains	
Mill & Drag Chain Introduction	36
Offset Sidebar Mill Chain	37
Straight Sidebar Mill Chain	38
Mill Chain Attachments	39
Drag Chain	42
Drag Chain Attachments	43
Welded Steel Chain Technical Discussion	44
Engineered Class Chain Tool	46
Sprockets	
Made-To-Order Sprockets Introduction	48
Finished Bore Sprockets (Size 80-160)	50
Mill Chain Sprockets	68
Drag Chain Sprockets	78
Split Sprocket	79
Split Adjustable Sprocket	79
Idler Sprocket	79
Bushings	
Split Taper Bushings	80
Split Taper Hubs	82
"QD" Style Bushings	83
"XT" Style Bushings	84
"XT" Style Weld-on-Hubs	85
Power Transmission Components	
Power Locks	86
Shock Relays	88

Forestry Application Specific Product

Sawmill/Planer Layout	90
Sawmill Critical Applications	
Delimber	92
Log Unscrambler	93
Cross Cut Slasher	94
Debarker Infeed Conveyor/Debarker	95
Log Deck Bin and Infeed	96
Main Sawline Infeed Conveyor/Main Sawline/ Optimizer/Canter/Quad Canter	97
Edger	98
Trimmer	99
Scanner	100
Curved Conveyor	101
Drop Sorter	102
Planer	103
Stacker/Wrapping Machine/Forklift	104
Other Significant Forestry Applications	
Paper Mill	
Infloor Paper Roll Conveyor	106
Digester Conveyor	106
OSB Mill	
Rackdown Conveyor Before Press	106
Hardwood Flooring Mill	
End Groove Trimmer	107
MDF Mill	
MDF Cooler Chain	107
Biomass	
Ash Conveyor	107
Miscellaneous	
Technical Services	108

TSUBAKI ENVIRONMENTAL ACTION PLAN

With its focus on manufacturing, TSUBAKI takes a unique approach to the challenges of environmental conservation.

Principle

The TSUBAKI Group believes that environmental conservation is a critical challenge facing humanity. We will remain mindful of environment in all our operations and contribute to the world through our workmanship.

Environmental Policy

- We will acknowledge the environmental impact of our operations, products, and services. In the interests of environmental conservation, we will use our creativity to exhibit industry leadership in reducing our environmental load.
- We will create a management system for environmental conservation and will promote pollution control and continual improvement.
- We will strictly comply with environmental laws, rules, and regulations and will seek to develop good relationships with our stakeholders.
- Through environmental training and in-house public relations, we will work to enhance awareness of environmental conservation among all TSUBAKI Group employees.

When an environment in harmony with people and our planet really matters

We are applying the collective expertise of the TSUBAKI Group to an Environmental Action Plan that takes a global perspective.

Accredited with ISO 14001 Certification for Our Environmental Management System

- All TSUBAKI Group workplaces in Japan have acquired ISO 14001 certification; a growing number of TSUBAKI Group workplaces outside Japan are doing so as well.

Ongoing Efforts to Reduce Our Environmental Impact

- We are reducing CO₂ emissions resulting from our energy consumption.
- We are implementing recycling and waste-reduction initiatives.

Ensuring Strict Compliance with Environmental Laws and Regulations

- We are instituting a management system at all our workplaces to ensure full compliance with local laws and regulations.

Initiatives Targeting Eco-Friendly Products

- Our adoption of green procurement encompasses outsourcing of processing, production materials, and consumables.
- We incorporate environmentally friendly design into the product development stage.
- We are eliminating hazardous chemicals from our products.

Environmental Training, Public Relations and Other Initiatives

- We are enhancing our environmental website and are providing timely information about our operations.



Reducing CO₂ emissions with a highly efficient cogeneration system.



This heat exchange system cools our injection molding equipment with heat from an electrical generator.



Plastic Chain



Linisort-V



NEP Chain

Did you know that many of TSUBAKI's eco-friendly products are part of our daily lives?

Eco-Friendly Products

Reduce, Reuse and Recycle are the "three Rs" of environmental conservation. We develop products and technologies that contribute widely to environmental conservation.

Recyclable Plastic Chain

By collecting and recycling used plastic chains, we are promoting resource conservation and the adoption of recycling.

Linisort Sorting Systems

Linisort systems incorporate linear motors that provide silent, eco-friendly sorting. In addition to featuring a compact configuration, low weight, and low energy consumption, these systems are designed for environmentally friendly disassembly, part sorting, collecting and recycling.

Eco Chain Series

NEP chain is highly corrosion-resistant chain with a surface coating free from designated hazardous chemicals (RoHS Directive compliant). This product series also includes our Lambda Roller Chain, which offers superior oil-free and long-life characteristics; plastic roller chain, which features low-noise operation achieved with our proprietary engineering plastic technology, and stainless steel water processing chain, a field-proven product that has earned an excellent reputation after decades of successful use in wastewater treatment facilities throughout Japan.

Products for the Environmental Market

Water Treatment Facilities and Equipment

Our sewage treatment facilities and equipment help maintain the water quality in water treatment facilities throughout Japan.

Conveyors for the Environmental Market

Our conveyance devices for environmental facilities are used in applications such as waste incineration and processing of industrial waste, household refuse, and sludge. And with equipment provided by TSUBAKIMOTO Bulk Systems Corporation and TSUBAKIMOTO Mayfran Inc., we provide metal conveyance and coolant processing equipment for metal machining and processing applications. Clearly, our conveyor products are meeting the needs of the environmental market.

TSUBAKI GLOBAL NETWORK

Wherever you are in the world, our production and sales network is able to provide your business with the immediate support it needs.



U.S. Tsubaki, Inc. (UST)



Tsubaki of Canada Limited



Tsubakimoto Europe B.V.



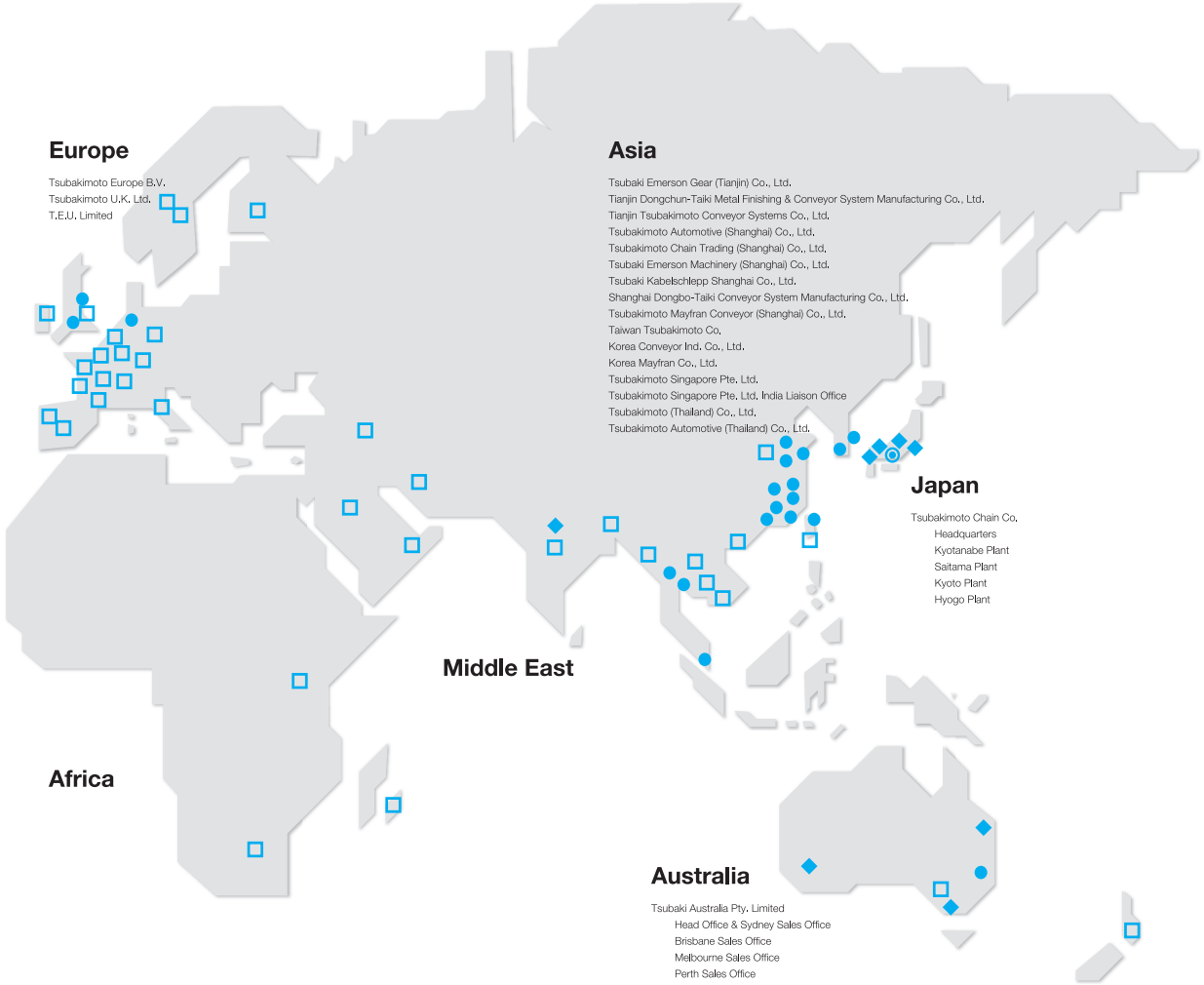
Korea Conveyor Ind. Co., Ltd.



Tsubakimoto Automotive (Shanghai) Co., Ltd.

A manufacturing infrastructure that lets you forget international borders—the large scale on which Tsubaki’s services operate makes sure your global business ventures are successful. Through 28 production centers and 35 Group companies worldwide, we will deliver full back-up and rapid response to your local needs anywhere on the globe.

- Headquarters
 - International Subsidiaries & Affiliates
 - ◆ Plants, Offices & Service Centers
 - Distributors*
- * Please contact your local Tsubaki representative for details on a distributor near you.



UST Portland Plant



UST Holyoke Plant



UST Sandusky Plant



UST Chicopee Plant



Tsubakimoto Singapore Pte. Ltd.



Tsubakimoto Automotive (Thailand) Co., Ltd.



Taiwan Tsubakimoto Co.



Tsubaki Australia Pty. Limited

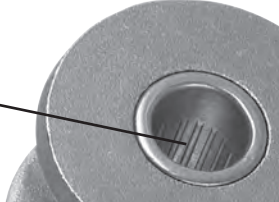
ASME (ANSI) STANDARD DRIVE CHAIN

When innovation really matters

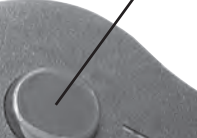
Tsubaki's Patented Ring Coining Generates Unsurpassed Connecting Link Strength



Tsubaki's Patented Lube Groove Bushing Extends Wear Life and Performance



Precision Riveting Process Helps to Withstand Side Load Impact



Long Lasting Solid Rollers Provide Greater Fatigue Life and Durability at High Speeds

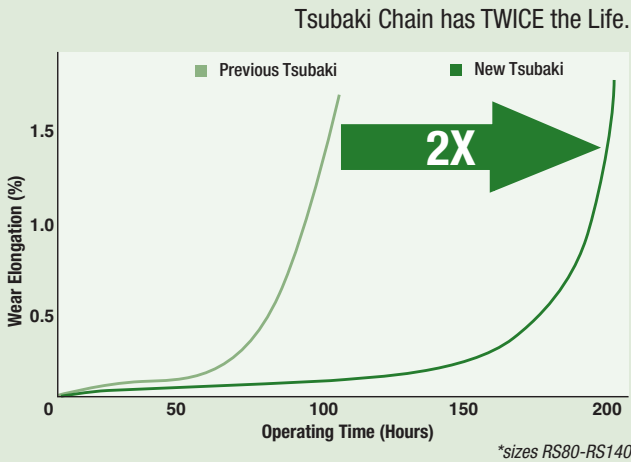


Wide Waist Link Plates Provide Tensile Strength and Maximum Allowable Load that Exceeds ASME (ANSI) Standards

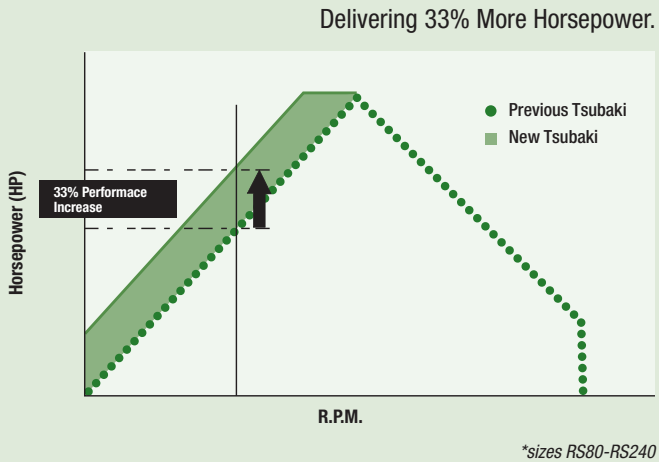


PERFORMAX™ BUSHINGS – THE SCIENCE BEHIND TSUBAKI.

2X Wear Life*



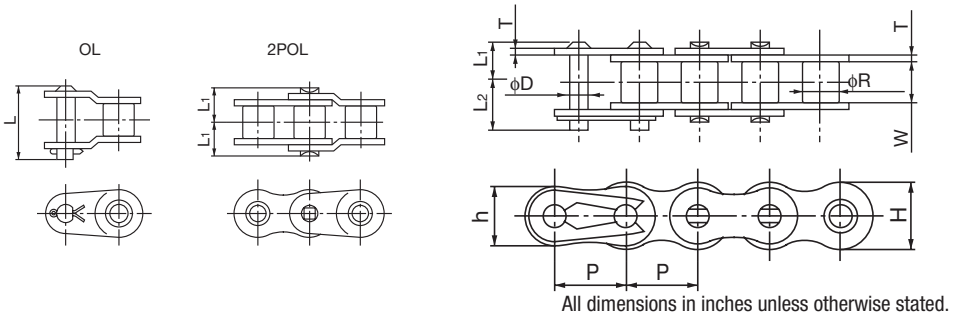
Improved Horsepower Rating*



Our Latest Innovation – Tsubaki PerforMax™ Bushings. Advanced technology allows us to combine the reliability of a solid bushing with our patented lube groove on the inner surface. Available in sizes RS80 to RS140, you get outstanding performance in your application.



RS Single Pitch



Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate			Pin					Transverse Pitch C	ASME (ANSI) Std. Minimum Tensile Strength (lbs.)	Tsubaki Minimum Tensile Strength (lbs.)	Tsubaki Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
				Thickness T	Height H	Height h	Dia, D	Length L ₁ +L ₂	Length L ₁	Length L ₂	Offset Pin Length L						
Single Strand																	
RS40	0.500	0.312	0.313	0.059	0.472	0.409	0.156	0.717	0.325	0.392	0.709	-	3,120	3,960	4,290	810	0.43
RS50	0.625	0.400	0.375	0.079	0.591	0.512	0.200	0.874	0.406	0.469	0.886	-	4,880	6,380	7,040	1,430	0.70
RS60	0.750	0.469	0.500	0.094	0.713	0.614	0.235	1.087	0.506	0.581	1.110	-	7,030	9,020	9,900	1,980	1.03
RS80	1.000	0.625	0.625	0.126	0.949	0.819	0.313	1.398	0.640	0.758	1.417	-	12,500	16,060	17,600	3,300	1.78
RS100	1.250	0.750	0.750	0.157	1.185	1.024	0.376	1.677	0.778	0.900	1.748	-	19,530	23,980	26,400	5,060	2.67
RS120	1.500	0.875	1.000	0.189	1.425	1.228	0.437	2.118	0.980	1.138	2.197	-	28,120	33,220	37,400	6,820	3.97
RS140	1.750	1.000	1.000	0.220	1.661	1.433	0.500	2.307	1.059	1.248	2.343	-	38,280	43,340	48,400	9,020	5.02
RS160	2.000	1.125	1.250	0.252	1.898	1.638	0.563	2.705	1.254	1.451	2.795	-	50,000	57,200	62,700	11,880	6.77
RS180	2.250	1.406	1.406	0.281	2.134	1.843	0.687	3.075	1.404	1.671	3.173	-	63,280	75,460	82,940	13,640	9.01
RS200	2.500	1.562	1.500	0.315	2.374	2.047	0.781	3.299	1.535	1.764	3.437	-	78,120	95,700	105,600	16,060	11.05
RS240	3.000	1.875	1.875	0.374	2.850	2.457	0.937	4.071	1.886	2.185	4.201	-	112,500	139,700	154,000	22,220	16.42
Double Strand																	
RS40-2	0.500	0.312	0.313	0.059	0.472	0.409	0.156	1.283	0.608	0.675	1.319	0.567	6,240	7,920	8,580	1,380	0.85
RS50-2	0.625	0.400	0.375	0.079	0.591	0.512	0.200	1.594	0.762	0.833	1.646	0.713	9,760	12,760	14,080	2,420	1.39
RS60-2	0.750	0.469	0.500	0.094	0.713	0.614	0.235	1.988	0.955	1.033	2.071	0.898	14,060	18,040	19,800	3,360	2.04
RS80-2	1.000	0.625	0.625	0.126	0.949	0.819	0.313	2.551	1.217	1.335	2.657	1.154	25,000	32,120	35,200	5,610	3.53
RS100-2	1.250	0.750	0.750	0.157	1.185	1.024	0.376	3.091	1.484	1.606	3.209	1.409	39,060	47,960	52,800	8,602	5.26
RS120-2	1.500	0.875	1.000	0.189	1.425	1.228	0.437	3.906	1.874	2.031	4.063	1.787	56,240	66,440	74,800	11,590	7.84
RS140-2	1.750	1.000	1.000	0.220	1.661	1.433	0.500	4.232	2.022	2.211	4.421	1.925	76,560	86,680	96,800	15,334	9.94
RS160-2	2.000	1.125	1.250	0.252	1.898	1.638	0.563	5.012	2.407	2.604	5.205	2.303	100,000	114,400	125,400	20,196	13.43
RS180-2	2.250	1.406	1.406	0.281	2.134	1.843	0.687	5.673	2.707	2.967	5.949	2.591	126,560	150,920	165,880	23,190	17.77
RS200-2	2.500	1.562	1.500	0.315	2.374	2.047	0.781	6.122	2.947	3.175	6.346	2.819	156,240	191,400	211,200	27,300	21.86
RS240-2	3.000	1.875	1.875	0.374	2.850	2.457	0.937	7.531	3.618	3.913	7.811	3.457	225,000	279,400	308,000	37,770	32.23
Triple Strand																	
RS40-3	0.500	0.312	0.313	0.059	0.472	0.409	0.156	1.843	0.892	0.951	1.886	0.567	9,360	11,880	12,870	2,040	1.28
RS50-3	0.625	0.400	0.375	0.079	0.591	0.512	0.200	2.307	1.118	1.189	2.358	0.713	14,640	19,140	21,120	3,580	2.07
RS60-3	0.750	0.469	0.500	0.094	0.713	0.614	0.235	2.906	1.404	1.502	2.972	0.898	21,090	27,060	29,700	4,950	3.04
RS80-3	1.000	0.625	0.625	0.126	0.949	0.819	0.313	3.705	1.795	1.909	3.815	1.154	37,500	48,180	52,800	8,250	5.29
RS100-3	1.250	0.750	0.750	0.157	1.185	1.024	0.376	4.504	2.191	2.313	4.618	1.409	58,590	71,940	79,200	12,650	7.89
RS120-3	1.500	0.875	1.000	0.189	1.425	1.228	0.437	5.701	2.772	2.929	5.850	1.787	84,360	99,660	112,200	17,050	11.75
RS140-3	1.750	1.000	1.000	0.220	1.661	1.433	0.500	6.165	2.986	3.179	6.350	1.925	114,840	130,020	145,200	22,550	14.87
RS160-3	2.000	1.125	1.250	0.252	1.898	1.638	0.563	7.319	3.561	3.758	7.508	2.303	150,000	171,600	188,100	29,700	20.11
RS180-3	2.250	1.406	1.406	0.281	2.134	1.843	0.687	8.276	4.004	4.272	8.539	2.591	189,840	226,578	288,420	34,100	25.61
RS200-3	2.500	1.562	1.500	0.315	2.374	2.047	0.781	8.945	4.360	4.585	9.173	2.819	234,360	287,100	316,800	40,150	32.84
RS240-3	3.000	1.875	1.875	0.374	2.850	2.457	0.937	10.984	5.348	5.636	11.272	3.457	337,500	419,100	462,000	55,550	47.97

Note: RS25, RS35, RS42 and RS43 are also available. All sizes available up to six strands. Spring clip type connecting links will be provided for RS25 to RS60 unless otherwise specified.

SPEEDMASTER DRIVE CHAIN

High speed and huge shock. These are some common operating conditions for Sawmill applications that roller chains need to deal with. Tsubaki's exclusive SpeedMaster chain features the best combination of heat treatment and materials to withstand the harsh conditions of every sawmill. Starting with a through-hardened pin to endure heavy shock loading, the pin is then specially coated to withstand the wear caused by high speeds and finished off with Shepherd's Crook Conn Link to withstand vibration. Finally the G7 solid lube-grooved bushing is employed to trap lubricant where it is needed most – bearing area between pin and bushing.

Altogether, SpeedMaster is simply the best chain for a sawmill's high-speed, heavy shock-loading applications.



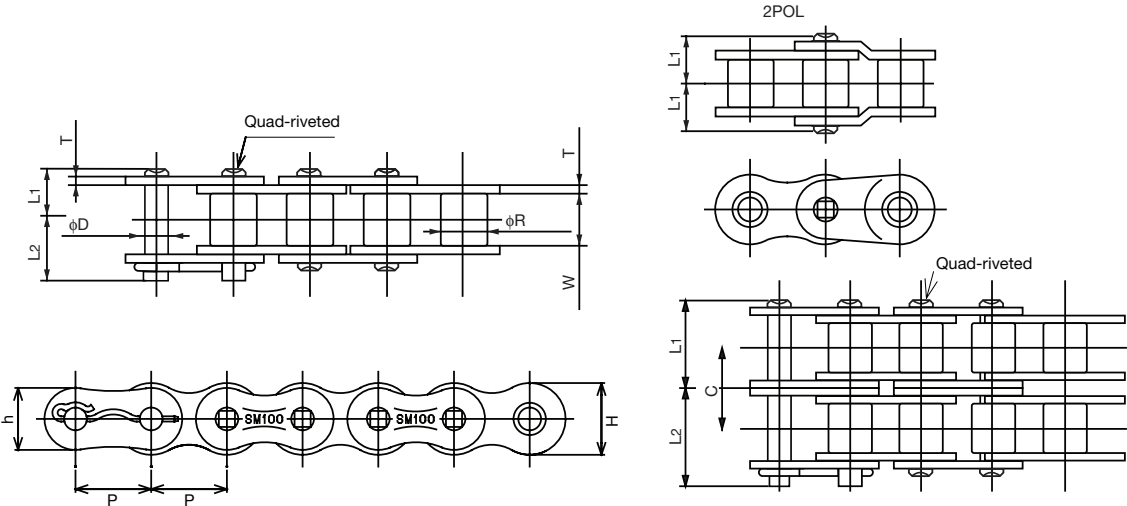
Performax Bushing
Solid Construction
Lube-Grooved Bushing



SpeedMaster Pin
Through-hardened for strength and specially plated to withstand wear



SpeedMaster



All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate			Pin				Transverse Pitch C	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)	Number of links per 10 feet
				Thickness T	Height H	Height h	Dia. D	Length L ₁ + L ₂	Length L ₁	Length L ₂					
Single Strand															
RS60SM	0.750	0.469	0.500	0.094	0.713	0.614	0.235	1.087	0.506	0.581	-	9,900	1,980	1.03	160
RS80SM	1.000	0.625	0.625	0.126	0.949	0.819	0.313	1.398	0.640	0.758	-	17,600	3,300	1.78	120
RS100SM	1.250	0.750	0.750	0.157	1.185	1.024	0.376	1.677	0.778	0.900	-	27,200	5,060	2.67	96
RS120SM	1.500	0.875	1.000	0.189	1.425	1.228	0.437	2.118	0.980	1.138	-	39,600	6,820	3.97	80
RS140SM	1.750	1.000	1.000	0.220	1.661	1.433	0.500	2.307	1.059	1.248	-	52,800	9,020	5.02	68
Double Strand															
RS60SM-2	0.750	0.469	0.500	0.094	0.713	0.614	0.235	1.988	0.955	1.033	0.898	19,800	3,360	2.04	160
RS80SM-2	1.000	0.625	0.625	0.126	0.949	0.819	0.313	2.551	1.217	1.335	1.154	35,200	5,610	3.53	120
RS100SM-2	1.250	0.750	0.750	0.157	1.185	1.024	0.376	3.091	1.484	1.606	1.409	47,400	8,602	5.26	96
RS120SM-2	1.500	0.875	1.000	0.189	1.425	1.228	0.437	3.906	1.874	2.031	1.787	79,200	11,590	7.84	80
RS140SM-2	1.750	1.000	1.000	0.220	1.661	1.433	0.500	4.232	2.022	2.211	1.925	105,600	15,334	9.94	68

Note: Horsepower ratings for SpeedMaster chain are the same as the identical size of Tsubaki RS Standard ASME (ANSI) roller chain

Application: Chip Conveyor Drive
Savings: \$4,926.00
Tsubaki solution: Critical drive in a confined remote location, replacement time is 3 hours. Speed and contamination. Installing SpeedMaster increased life from 7.5 to 29 months.

It really mattered to this Tsubaki customer

COST SAVINGS!

LAMBDA SELF-LUBRICATING DRIVE CHAIN

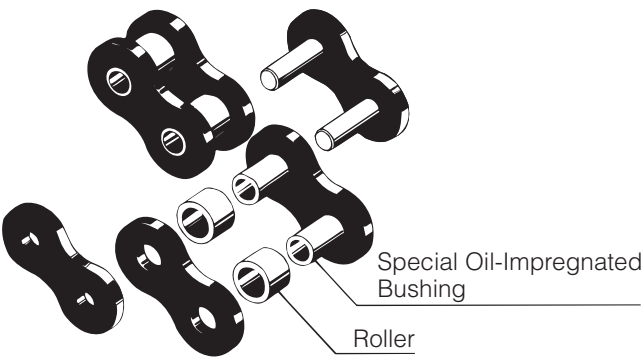
Application: Star Feeder
Savings: \$5,557.00
Tsubaki solution: Previous chain elongated due to lack of maintenance/lubrication. Chain failed causing downtime after 2 months. Self-lubricated Lambda lasted 30 months.

It really mattered to this Tsubaki customer

COST SAVINGS!

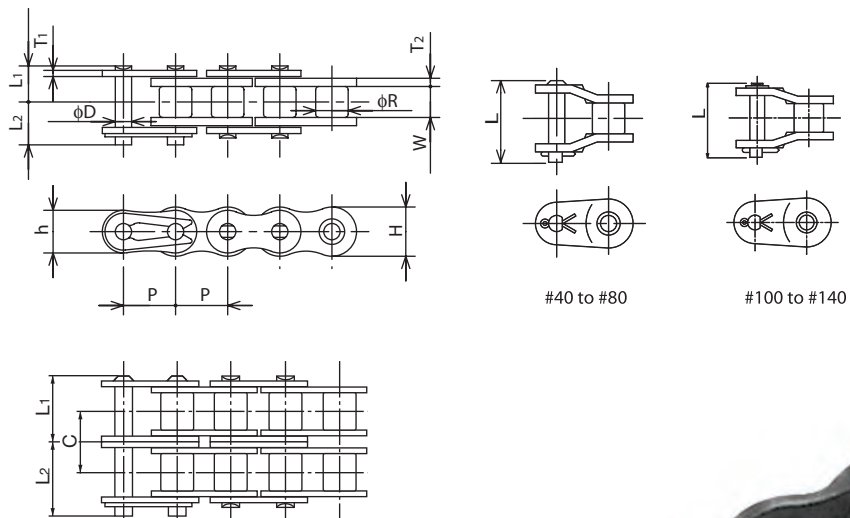
Lambda chain increases productivity and saves money.

- Reduce maintenance time.
- Eliminate product contamination.
- Reduce downtime.



Lambda Chain (Std.): Inner/Outer plates are black oxide
Lambda Chain (Nickel Plated): All nickel-plated (except bushings)

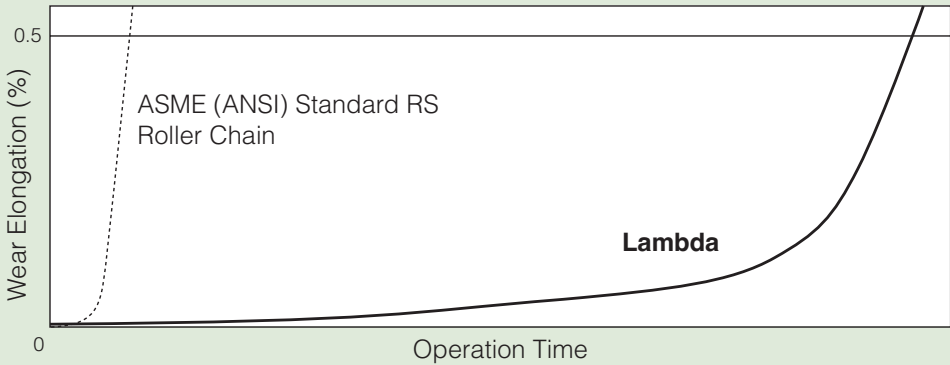
RS Single Pitch Lambda Drive Chain



Long life and low maintenance

Lambda chains use special oil-impregnated bushings to provide lubrication and to prolong wear life.

Ambient Temperature: -10°C to +60°C (+14°F to +140°F)



More than 14 times the wear elongation life of ASME (ANSI) Standard Roller Chain (N.B. #120 and #140 have 5 times the life of ASME (ANSI) Standard RS Drive Chain).

Interchangeable

Lambda chain is interchangeable with ASME (ANSI) standard drive chain. However, as the pins are longer than that of Standard RS Roller Chain, please make sure that there is no interference with the machine.

Operating Temperature

-10°C to +150°C
(+14°F to +302°F)

Sprocket

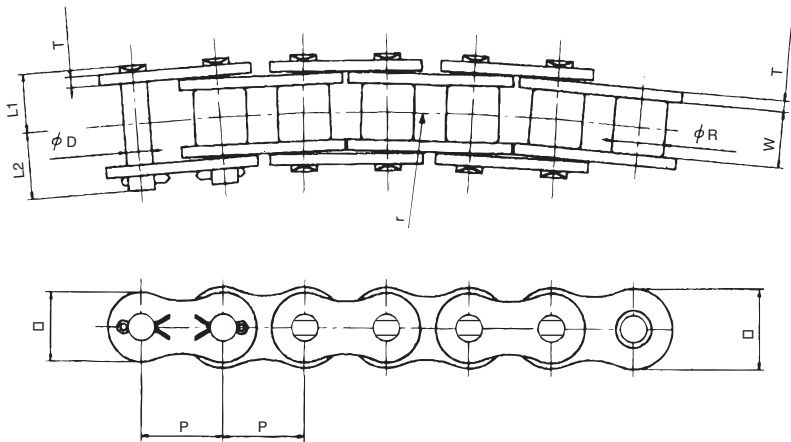
For single strand, ASME (ANSI) Standard Roller Chain can be used. For double strand, heavy sprockets must be used.

All dimensions in inches unless otherwise stated.

Carbon Steel Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate				Pin					Transverse Pitch C	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)	Maximum Allowable Speed (ft./min.)
				Thickness T1	Thickness T2	Height H	Height h	Dia. D	Length L ₁ +L ₂	Length L ₁	Length L ₂	Offset Pin Length L					
Single Strand																	
RSD40 LAMBDA	0.500	0.312	0.297	0.059	0.079	0.472	0.409	0.156	0.757	0.346	0.411	0.787	-	4,290	810	0.47	492
RSD50 LAMBDA	0.625	0.400	0.365	0.079	0.094	0.591	0.512	0.200	0.913	0.423	0.490	0.945	-	7,040	1,430	0.74	443
RSD60 LAMBDA	0.750	0.469	0.483	0.094	0.126	0.713	0.614	0.235	1.157	0.541	0.616	1.260	-	9,900	1,980	1.15	394
RSD80 LAMBDA	1.000	0.625	0.609	0.126	0.157	0.949	0.819	0.313	1.472	0.675	0.797	1.571	-	17,600	3,300	1.86	295
RSD100 LAMBDA	1.250	0.750	0.736	0.157	0.189	1.185	1.024	0.376	1.752	0.813	0.939	1.870	-	26,400	5,060	2.88	262
RSD120 LAMBDA	1.500	0.875	0.974	0.189	0.220	1.425	1.228	0.437	2.193	1.014	1.179	2.323	-	37,400	6,820	4.29	164
RSD140 LAMBDA	1.750	1.000	0.974	0.220	0.252	1.661	1.433	0.500	2.358	1.091	1.268	2.508	-	48,400	9,020	5.43	164
Double Strand (Heavy)																	
RSD40H 2 LAMBDA	0.500	0.312	0.297	0.079	0.079	0.472	0.409	0.156	1.443	0.689	0.754		0.645	8,580	1,380	0.94	492
RSD50H 2 LAMBDA	0.625	0.400	0.365	0.094	0.094	0.591	0.512	0.200	1.717	0.825	0.892		0.776	14,080	2,420	1.49	443
RSD60H 2 LAMBDA	0.750	0.469	0.483	0.126	0.126	0.713	0.614	0.235	2.244	1.085	1.159		1.028	19,800	3,370	2.30	394
RSD80H 2 LAMBDA	1.000	0.625	0.609	0.157	0.157	0.949	0.819	0.313	2.827	1.362	1.465		1.283	35,200	5,610	3.71	295
RSD100H 2 LAMBDA	1.250	0.750	0.736	0.189	0.189	1.185	1.024	0.376	3.362	1.628	1.734		1.535	52,800	8,600	5.76	262

CURVED LAMBDA SELF-LUBRICATING DRIVE CHAIN

Curved Lambda Drive Chain



All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Diameter R	Width Between Inner Link Plates W	Link Plate			Pin			Radius r	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approximate Weight (lbs./ft.)
				Thickness T	Height H	Height h	Length L ₁ +L ₂	Length L ₁	Length L ₂				
RS40CU-LAMBDA	0.500	0.312	0.313	0.059	0.472	0.409	0.717	0.333	0.384	16	2,770	420	0.41
RS50CU-LAMBDA	0.625	0.400	0.375	0.079	0.591	0.512	0.866	0.406	0.461	20	4,310	640	0.68
RS60CU-LAMBDA	0.750	0.469	0.500	0.094	0.713	0.614	1.083	0.510	0.573	24	6,250	900	0.94
RS80CU-LAMBDA	1.000	0.625	0.625	0.125	0.949	0.819	1.448	0.659	0.789	31.5	11,000	1,565	1.66

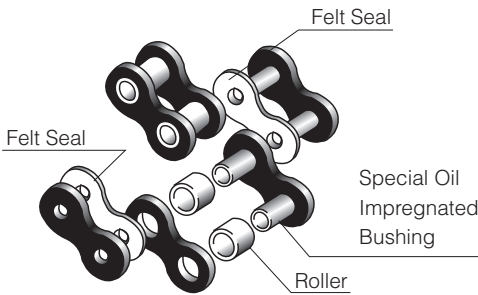
X-LAMBDA SELF-LUBRICATING DRIVE CHAIN

When cleanliness really matters

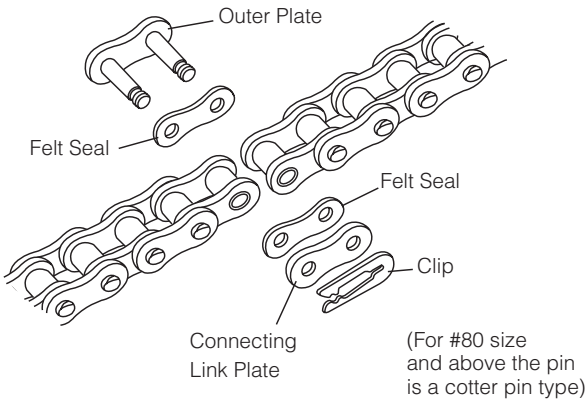
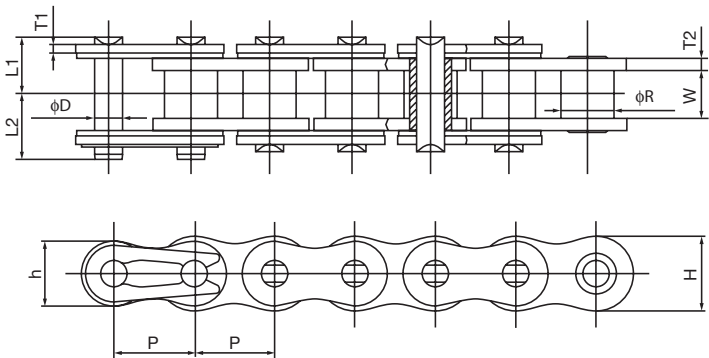
Longer (5X) Life than “Original” Lambda Roller Chain

X-Lambda features an oil-impregnated felt seal that provides more than 5 times the wear life of Lambda roller chain. (In-house comparison at -10°C to +60°C (+14°F to +140°F)).

Basic Construction



Inner/Outer Plates: Blackened



Attaching the connecting link



All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate				Pin				Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)	Maximum Allowable Speed (ft./min)
				Thickness T ₁	Thickness T ₂	Height H	Height h	Dia. D	Length L ₁ +L ₂	Length L ₁	Length L ₂				
RSD40 X LAMBDA	0.500	0.312	0.297	0.059	0.079	0.472	0.409	0.156	0.807	0.370	0.437	4,290	810	0.47	492
RSD50 X LAMBDA	0.625	0.400	0.365	0.079	0.094	0.591	0.512	0.200	0.965	0.449	0.516	7,040	1,430	0.74	443
RSD60 X LAMBDA	0.750	0.469	0.483	0.094	0.126	0.713	0.614	0.235	1.232	0.583	0.650	9,900	1,980	1.15	394
RSD80 X LAMBDA	1.000	0.625	0.609	0.126	0.157	0.949	0.819	0.313	1.543	0.720	0.823	17,600	3,300	1.86	295
RSD100 X LAMBDA	1.250	0.750	0.736	0.157	0.189	1.185	1.024	0.376	1.823	0.858	0.965	26,400	5,060	2.88	262
RSD120 X LAMBDA	1.500	0.875	0.974	0.189	0.220	1.425	1.228	0.437	2.262	1.051	1.211	37,400	6,820	4.29	164

Note: X-Lambda has no offset links.

SUPER SERIES CHAIN

Tsubaki offers SUPER Series roller chains for applications that exceed the capabilities of Tsubaki ASME (ANSI) Standard Roller Chain. These heavy duty conditions include the following:

- 1. Severe operating conditions such as heavy shock loads.
- 2. Where space to put the chain is limited. A SUPER Series Chain will often deliver the same tensile strength of a larger size of ASME (ANSI) Standard Roller Chain.
- 3. Operating conditions that require higher horsepower ratings, maximum allowable load and tensile strength.

SUPER Series

The dimensions of this series are identical to those of ASME (ANSI) Standard roller chain. The special design of the SUPER series link plates delivers exceptional performance. The pitch holes are critically formed and drifted to improve their allowable tension by 25%-30% and the pins are through-hardened for greater shock resistance. SUPER series chains offer horsepower ratings 30% greater than the

equivalent size of ASME (ANSI) Standard chain. SUPER series chains can be used to replace the next larger size of ASME (ANSI) Standard chain, making it ideal for applications where space is limited.

HT Series

HT Series chains provide a (15%-30%) greater ultimate tensile strength over ASME (ANSI) Standard roller chain by using through-hardened pins and link plates of the next larger ASME (ANSI) Standard chain sizes. HT Series chains also provide a greater shock load resistance. HT Series chains also provide a greater shock load resistance and are best suited for low operating speeds – up to 165 ft./sec.

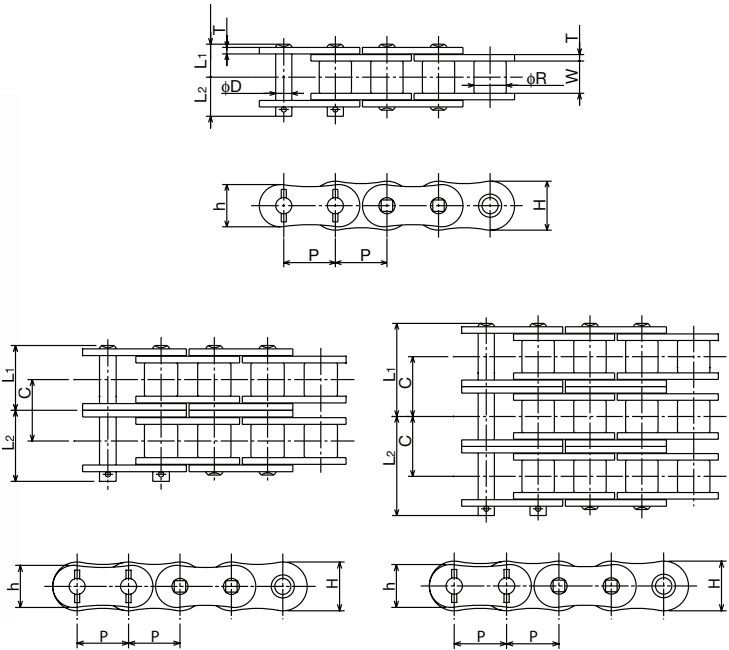
SUPER-H Series

The thickness of SUPER-H series link plates is the same as the next larger size of SUPER series chain. The pins are also through-hardened which provides a 13% greater ultimate tensile strength and 6% greater allowable tension than SUPER series chain. SUPER-H series chains can be used to replace the next largest size of ASME (ANSI) Standard chain, making it ideal for applications where space is limited. It is best suited for low speed operating conditions – up to 165 ft./sec.

Application: Outdoor Log Skinner at a Boardmill
Savings: \$16,057.00
Tsubaki solution: Original installation used standard drive chain. High loads caused failure after only 2.5 months. Chain section was done by Tsubaki selecting Super120-2 resulting in 6.5 months life.

It really mattered to this Tsubaki customer

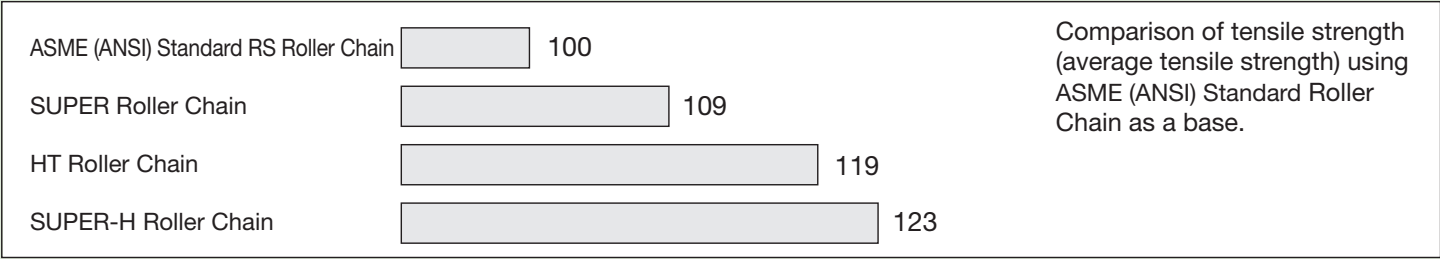
Super Series Chain



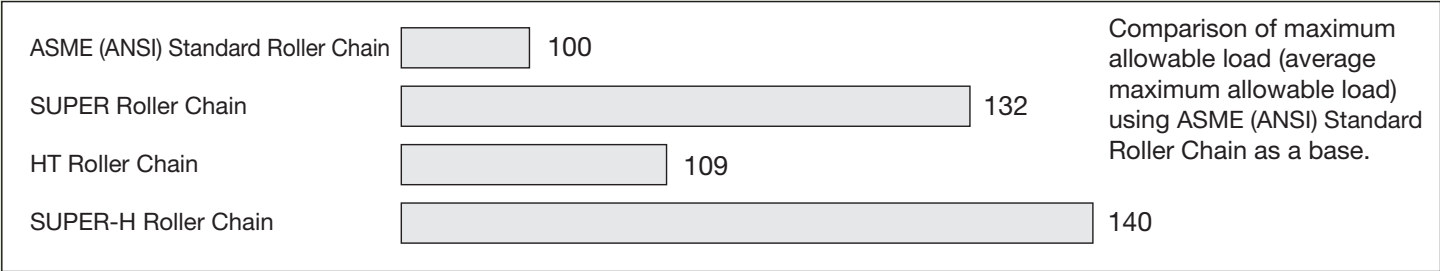
All dimensions in inches unless otherwise stated.

Comparison of Tensile Strength and Maximum Allowable Load

Tensile Strength Comparison



Maximum Allowable Load Comparison



Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate			Pin				Transverse Pitch C	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
				Thickness T	Height H	Height h	Dia. D	Length L ₁ + L ₂	Length L ₁	Length L ₂				
Single Strand														
SUPER80	1.000	0.625	0.625	0.126	0.949	0.819	0.313	1.398	0.640	0.758	-	19,140	4,180	1.9
SUPER100	1.250	0.750	0.750	0.157	1.185	1.024	0.376	1.677	0.778	0.900	-	28,600	6,820	2.9
SUPER120	1.500	0.875	1.000	0.189	1.425	1.228	0.437	2.118	0.980	1.138	-	41,800	8,800	4.2
SUPER140	1.750	1.000	1.000	0.220	1.661	1.433	0.500	2.307	1.059	1.248	-	55,000	12,100	5.4
SUPER160	2.000	1.125	1.250	0.252	1.898	1.638	0.563	2.705	1.254	1.451	-	70,400	15,840	7.2
SUPER200	2.500	1.562	1.500	0.315	2.374	2.047	0.781	3.299	1.535	1.764	-	113,300	21,120	11.8
SUPER240	3.000	1.875	1.875	0.374	2.850	2.457	0.937	4.071	1.886	2.185	-	165,000	29,700	17.2
Double Strand														
SUPER80-2	1.000	0.625	0.625	0.126	0.949	0.819	0.313	2.551	1.217	1.335	1.154	38,280	7,106	3.8
SUPER100-2	1.250	0.750	0.750	0.157	1.185	1.024	0.376	3.091	1.484	1.606	1.409	57,200	11,594	5.6
SUPER120-2	1.500	0.875	1.000	0.189	1.425	1.228	0.437	3.906	1.874	2.031	1.787	83,600	14,990	8.3
SUPER140-2	1.750	1.000	1.000	0.220	1.661	1.433	0.500	4.232	2.022	2.211	1.925	110,000	20,570	10.7
SUPER160-2	2.000	1.125	1.250	0.252	1.898	1.638	0.563	5.012	2.407	2.604	2.303	140,800	26,928	14.4
SUPER200-2	2.500	1.562	1.500	0.315	2.374	2.047	0.781	6.122	2.947	3.175	2.819	226,600	35,904	23.4
SUPER240-2	3.000	1.875	1.875	0.374	2.850	2.457	0.937	7.531	3.618	3.913	3.457	330,000	50,490	34.0
Triple Strand														
SUPER80-3	1.000	0.625	0.625	0.126	0.949	0.819	0.313	3.705	1.795	1.909	1.154	57,420	10,450	5.6
SUPER100-3	1.250	0.750	0.750	0.157	1.185	1.024	0.376	4.504	2.191	2.313	1.409	85,800	17,050	8.4
SUPER120-3	1.500	0.875	1.000	0.189	1.425	1.228	0.437	5.701	2.772	2.929	1.787	125,400	22,000	12.5
SUPER140-3	1.750	1.000	1.000	0.220	1.661	1.433	0.500	6.165	2.986	3.179	1.925	165,000	30,250	16.0
SUPER160-3	2.000	1.125	1.250	0.252	1.898	1.638	0.563	7.319	3.561	3.758	2.303	211,200	39,600	21.5
SUPER200-3	2.500	1.562	1.500	0.315	2.374	2.047	0.781	8.720	4.360	4.585	2.819	339,900	52,800	35.1
SUPER240-3	3.000	1.875	1.875	0.374	2.850	2.457	0.937	10.697	5.348	5.636	3.457	495,000	74,250	51.0

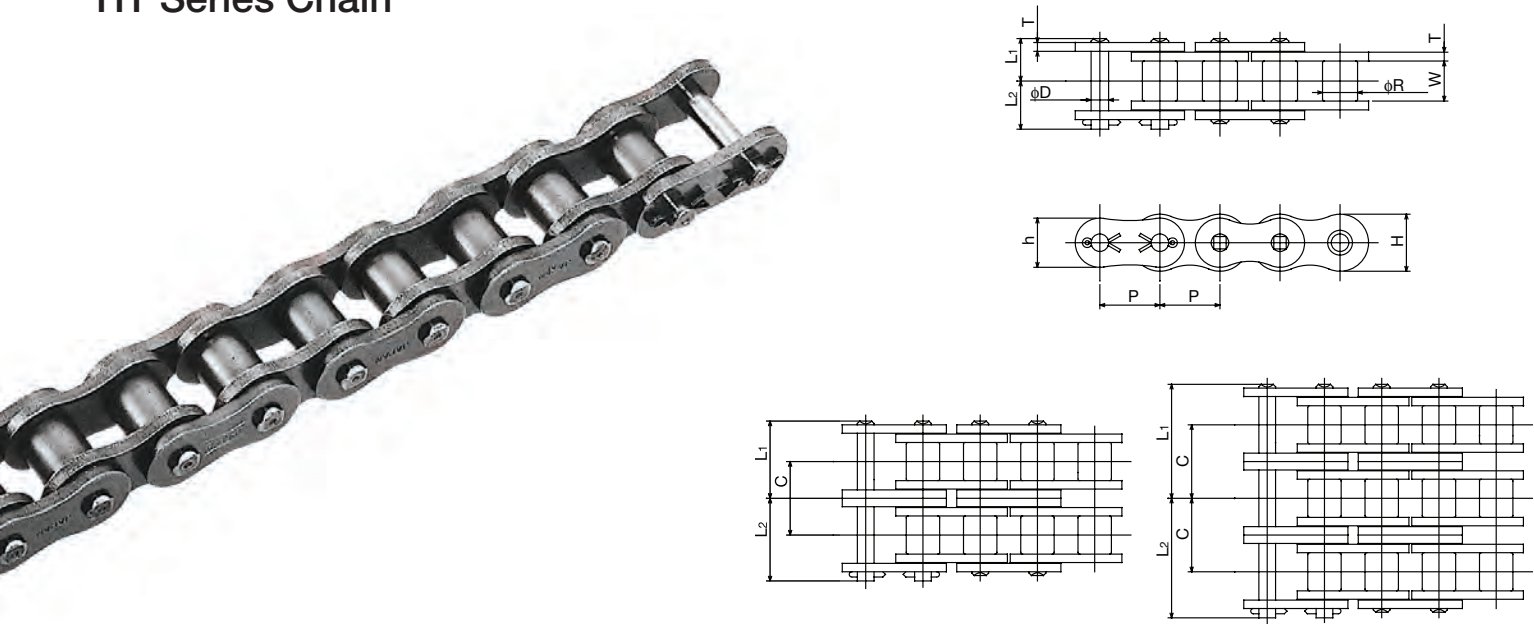
Notes:
1. Four pitch offset link is available for single strand.
2. Riveted type chain will be provided unless otherwise specified. Roll pin type chain will be provided upon requested.
3. Semi press-fit type connecting links will be supplied.

HT SERIES CHAIN

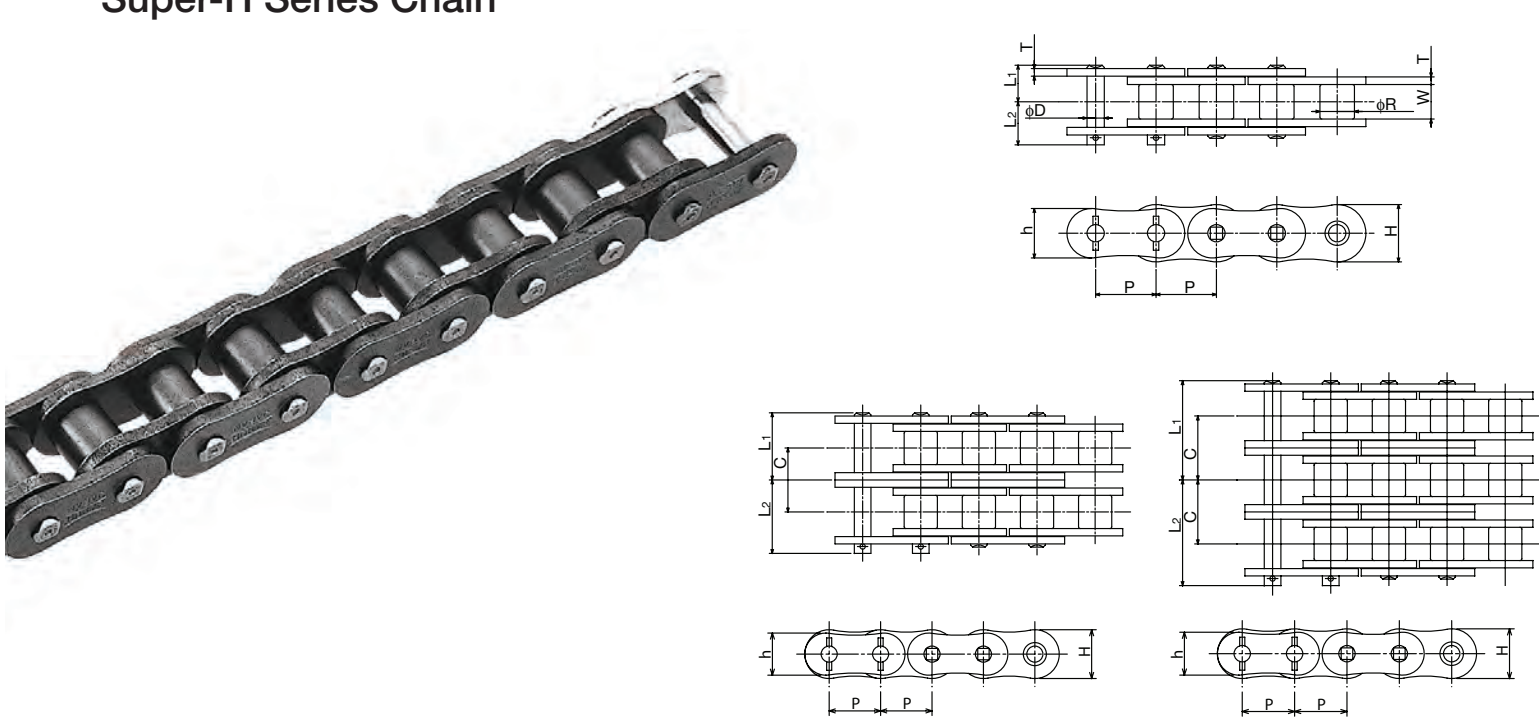
SUPER-H
SERIES CHAIN

When strength really matters

HT Series Chain



Super-H Series Chain



All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate			Pin			Transverse Pitch C	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)	
				Thickness T	Height H	Height h	Dia. D	Length L1 + L2	Length L1					Length L2
Single Strand														
SUPER80H	1.000	0.625	0.625	0.157	0.949	0.819	0.313	1.543	0.720	0.823	-	22,000	4,620	2.2
SUPER100H	1.250	0.750	0.750	0.189	1.185	1.024	0.376	1.823	0.858	0.965	-	32,560	7,260	3.3
SUPER120H	1.500	0.875	1.000	0.220	1.425	1.228	0.437	2.264	1.061	1.203	-	44,000	9,460	4.7
SUPER140H	1.750	1.000	1.000	0.252	1.661	1.433	0.500	2.441	1.138	1.303	-	57,200	12,760	6.0
SUPER160H	2.000	1.125	1.250	0.281	1.898	1.638	0.563	2.851	1.337	1.514	-	72,600	16,500	7.9
SUPER200H	2.500	1.500	1.500	0.374	2.374	2.047	0.781	3.583	1.689	1.894	-	134,200	22,400	13.2
SUPER240H	3.000	1.875	1.875	0.500	2.850	2.457	0.937	4.610	2.157	2.453	-	206,800	31,240	20.5
Double Strand														
SUPER80H-2	1.000	0.625	0.625	0.157	0.949	0.819	0.313	2.823	1.358	1.465	1.283	44,000	7,854	4.4
SUPER100H-2	1.250	0.750	0.750	0.189	1.185	1.024	0.376	3.366	1.630	1.736	1.539	65,120	12,342	6.4
SUPER120H-2	1.500	0.875	1.000	0.220	1.425	1.228	0.437	4.179	2.014	2.165	1.925	88,000	16,082	9.1
SUPER140H-2	1.750	1.000	1.000	0.252	1.661	1.433	0.500	4.506	2.163	2.343	2.055	114,400	21,692	11.7
SUPER160H-2	2.000	1.125	1.250	0.281	1.898	1.638	0.563	5.295	2.555	2.740	2.437	145,200	28,050	15.4
SUPER200H-2	2.500	1.562	1.500	0.374	2.374	2.047	0.781	6.667	3.230	3.437	3.083	268,400	38,080	25.9
SUPER240H-2	3.000	1.875	1.875	0.500	2.850	2.457	0.937	8.591	4.146	4.445	3.984	413,600	53,108	40.2
Triple Strand														
SUPER80H-3	1.000	0.625	0.625	0.157	0.949	0.819	0.313	4.106	1.998	2.108	1.283	66,000	11,550	6.6
SUPER100H-3	1.250	0.750	0.750	0.189	1.185	1.024	0.376	4.904	2.400	2.504	1.539	97,680	18,150	9.6
SUPER120H-3	1.500	0.875	1.000	0.220	1.425	1.228	0.437	6.086	2.954	3.132	1.925	132,000	23,650	13.6
SUPER140H-3	1.750	1.000	1.000	0.252	1.661	1.433	0.500	6.547	3.191	3.356	2.055	171,600	31,900	17.4
SUPER160H-3	2.000	1.125	1.250	0.281	1.898	1.638	0.563	7.711	3.756	3.955	2.437	217,800	41,250	23.0
SUPER200H-3	2.500	1.562	1.500	0.374	2.374	2.047	0.781	9.743	4.761	4.982	3.083	402,600	56,000	38.5
SUPER240H-3	3.000	1.875	1.875	0.500	2.850	2.457	0.937	12.544	6.105	6.439	3.984	620,400	78,100	59.9

Notes:
1. Riveted type chain will be provided unless otherwise specified. Cottered type chain is available upon request.
2. Semi press-fit connecting links will be supplied as standard. Slip-fit connecting links are also available upon request.

All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate			Pin				Transverse Pitch C	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
				Thickness T	Height H	Height h	Dia. D	Length L ₁ + L ₂	Length L ₁	Length L ₂				
Single Strand														
SUPER80H	1.000	0.625	0.625	0.157	0.949	0.819	0.313	1.543	0.720	0.823	-	22,000	4,620	2.2
SUPER100H	1.250	0.750	0.750	0.189	1.185	1.024	0.376	1.823	0.858	0.965	-	32,560	7,260	3.3
SUPER120H	1.500	0.875	1.000	0.220	1.425	1.228	0.437	2.264	1.061	1.203	-	44,000	9,460	4.7
SUPER140H	1.750	1.000	1.000	0.252	1.661	1.433	0.500	2.441	1.138	1.303	-	57,200	12,760	6.0
SUPER160H	2.000	1.125	1.250	0.281	1.898	1.638	0.563	2.851	1.337	1.514	-	72,600	16,500	7.9
SUPER200H	2.500	1.500	1.500	0.374	2.374	2.047	0.781	3.583	1.689	1.894	-	134,200	22,400	13.2
SUPER240H	3.000	1.875	1.875	0.500	2.850	2.457	0.937	4.610	2.157	2.453	-	206,800	31,240	20.5
Double Strand														
SUPER80H-2	1.000	0.625	0.625	0.157	0.949	0.819	0.313	2.823	1.358	1.465	1.283	44,000	7,854	4.4
SUPER100H-2	1.250	0.750	0.750	0.189	1.185	1.024	0.376	3.366	1.630	1.736	1.539	65,120	12,342	6.4
SUPER120H-2	1.500	0.875	1.000	0.220	1.425	1.228	0.437	4.179	2.014	2.165	1.925	88,000	16,082	9.1
SUPER140H-2	1.750	1.000	1.000	0.252	1.661	1.433	0.500	4.506	2.163	2.343	2.055	114,400	21,692	11.7
SUPER160H-2	2.000	1.125	1.250	0.281	1.898	1.638	0.563	5.295	2.555	2.740	2.437	145,200	28,050	15.4
SUPER200H-2	2.500	1.562	1.500	0.374	2.374	2.047	0.781	6.667	3.230	3.437	3.083	268,400	38,080	25.9
SUPER240H-2	3.000	1.875	1.875	0.500	2.850	2.457	0.937	8.591	4.146	4.445	3.984	413,600	53,108	40.2
Triple Strand														
SUPER80H-3	1.000	0.625	0.625	0.157	0.949	0.819	0.313	4.106	1.998	2.108	1.283	66,000	11,550	6.6
SUPER100H-3	1.250	0.750	0.750	0.189	1.185	1.024	0.376	4.904	2.400	2.504	1.539	97,680	18,150	9.6
SUPER120H-3	1.500	0.875	1.000	0.220	1.425	1.228	0.437	6.086	2.954	3.132	1.925	132,000	23,650	13.6
SUPER140H-3	1.750	1.000	1.000	0.252	1.661	1.433	0.500	6.547	3.191	3.356	2.055	171,600	31,900	17.4
SUPER160H-3	2.000	1.125	1.250	0.281	1.898	1.638	0.563	7.711	3.756	3.955	2.437	217,800	41,250	23.0
SUPER200H-3	2.500	1.562	1.500	0.374	2.374	2.047	0.781	9.743	4.761	4.982	3.083	402,600	56,000	38.5
SUPER240H-3	3.000	1.875	1.875	0.500	2.850	2.457	0.937	12.544	6.105	6.439	3.984	620,400	78,100	59.9

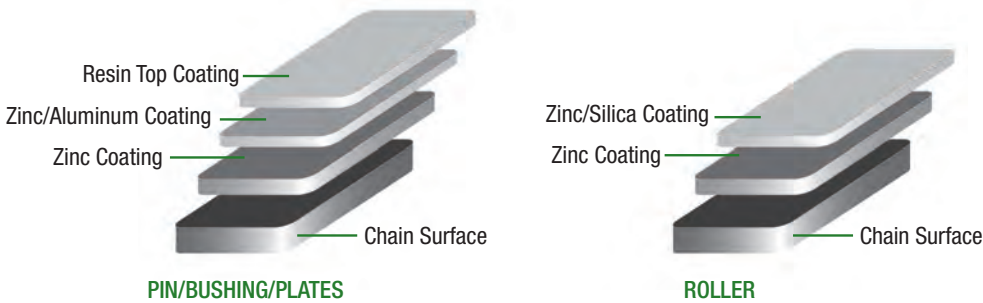
Notes:
1. Offset links are not available.
2. Riveted type chain will be provided unless otherwise specified. Roll pin type chain will be provided upon request.
3. Semi press-fit type connecting links will be supplied.

NEPTUNE DRIVE CHAIN

When durability really matters

NEP: The Science Behind Tsubaki

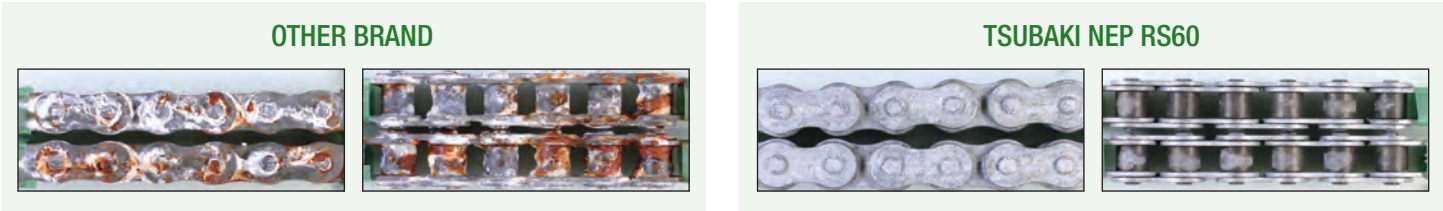
Neptune Chain provides corrosion protection that works better and lasts longer than ever before. Tsubaki's exclusive NEP coating process is a multi-layer anti-corrosive shield that provides "best-in-class" protection.



Operating temperature range is between -10°C~+150°C.

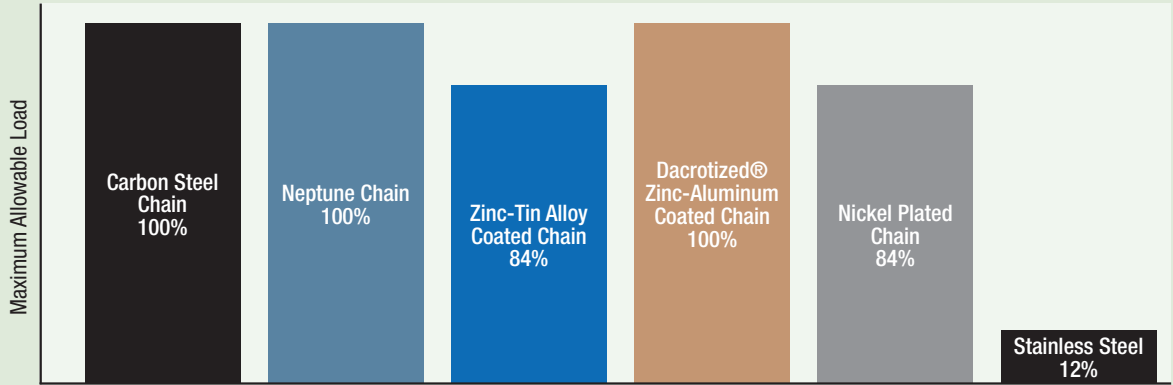
Longer Lasting

THE RESULT OF SALT SPRAY TESTING – 500 HOURS



Tougher Than The Rest

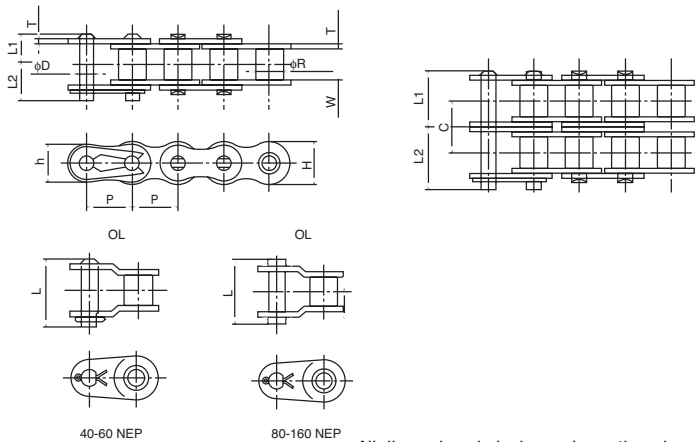
- Neptune's innovative coating process avoids the use of high temperatures which can contribute to weakening of the chain's components.
- Neptune has the same load ratings as Tsubaki carbon steel chain, ensuring maximum performance.



Note: The high temperature coating process that is used on Dacrotized® coated chain causes the chain to lose about 6% of its tensile strength.

Neptune

Anti-Corrosive Drive Chain



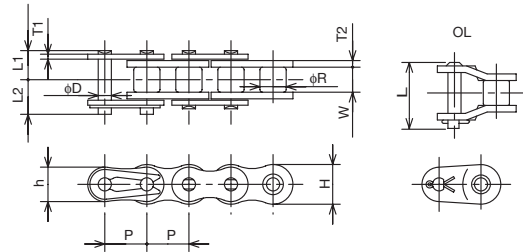
All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Dia. D	Width Between Inner Link Plates W	Link Plate			Pin					Transverse Pitch C	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)	Number of links per 10 feet
				Thickness T	Height H	Height h	Dia. D	Length L ₁ +L ₂	Length L ₁	Length L ₂	Offset Pin Length L					
Single Strand																
60NEP	0.750	0.469	0.500	0.094	0.713	0.614	0.235	1.087	0.506	0.581	1.110	-	9,900	1,980	1.03	160
80NEP	1.000	0.625	0.625	0.126	0.949	0.819	0.313	1.398	0.640	0.758	1.504	-	17,600	3,300	1.78	120
100NEP	1.250	0.750	0.750	0.157	1.185	1.024	0.376	1.677	0.778	0.900	1.799	-	26,400	5,060	2.67	96
120NEP	1.500	0.875	1.000	0.189	1.425	1.228	0.437	2.118	0.980	1.138	2.276	-	37,400	6,820	3.98	80
140NEP	1.750	1.000	1.000	0.220	1.661	1.433	0.500	2.307	1.059	1.248	2.496	-	48,400	9,020	5.02	68
Double Strand																
60NEP-2	0.750	0.469	0.500	0.094	0.713	0.614	0.235	1.988	0.955	1.033	2.071	0.898	19,800	3,360	2.04	160
80NEP-2	1.000	0.625	0.625	0.126	0.949	0.819	0.313	2.551	1.217	1.335	2.657	1.154	35,200	5,610	3.53	120
100NEP-2	1.250	0.750	0.750	0.157	1.185	1.024	0.376	3.091	1.484	1.606	3.209	1.409	52,800	8,602	5.26	96
120NEP-2	1.500	0.875	1.000	0.189	1.425	1.228	0.437	3.906	1.874	2.031	4.063	1.787	74,800	11,590	7.84	80
140NEP-2	1.750	1.000	1.000	0.220	1.661	1.433	0.500	4.232	2.022	2.211	4.421	1.925	96,800	15,334	9.94	68

Neptune Lambda Drive Chain

Anti-Corrosive Self-Lubricating Drive Chain

Lambda chain uses special oil impregnated bushings to provide lubrication and to prolong wear life.



All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate				Pin					Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)	Number of links per 10 feet	Maximum Allowable Speed (ft./min.)
				Thickness T ₁	Thickness T ₂	Height H	Height h	Dia. D	Length L ₁ +L ₂	Length L ₁	Length L ₂	Offset Pin Length L					
RS60 NEP LAMBDA	0.750	0.469	0.483	0.094	0.126	0.713	0.614	0.235	1.159	0.539	0.620	1.260	9,900	1,980	1.15	160	394
RS80NEP LAMBDA	1.000	0.625	0.609	0.126	0.157	0.949	0.819	0.313	1.472	0.675	0.797	1.571	17,600	3,300	1.86	120	295
RS100NEP LAMBDA	1.250	0.750	0.736	0.157	0.189	1.185	1.024	0.376	1.752	0.813	0.939	1.870	26,400	5,060	2.88	96	262
RS120NEP LAMBDA	1.500	0.875	0.974	0.189	0.220	1.425	1.228	0.437	2.193	1.014	1.179	2.323	37,400	6,820	4.29	80	164
RS140NEP LAMBDA	1.750	1.000	0.974	0.220	0.252	1.661	1.433	0.500	2.358	1.091	1.268	2.508	48,400	9,020	5.43	68	164



Sharp Top Chains
An essential component in the primary and secondary breakdown of a sawmill operation. You need premium performance to resist high wear and shock loads. Tsubaki has created the perfect specification to exceed your expectation.

Common Problem:
Worn Tips

Solution:
Induction Hardened Tips
Worn tips are a major cause for chain replacement. Tsubaki's new design results in a 20% increase in wear resistance without compromising strength, offered as standard. Expect more from Tsubaki.

NEW!

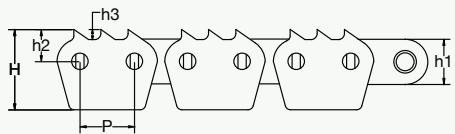


SHARP TOP CHAIN

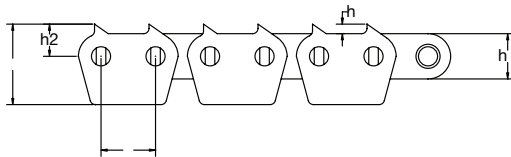
When grip really matters

NEW!

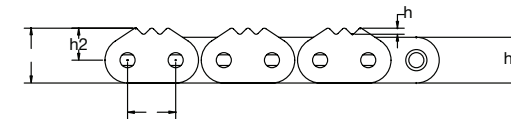
RF32B STYLE
Size: RF32B



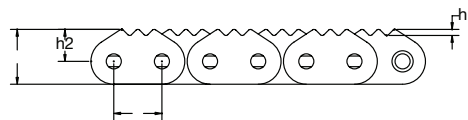
RF32B STYLE
Size: RF32B



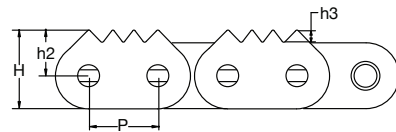
ST STYLE
Sizes: 60, 80,
100, 120



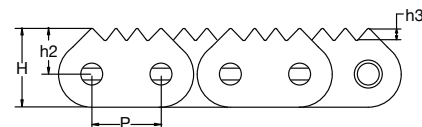
ST-ALL STYLE
Sizes: 60, 80



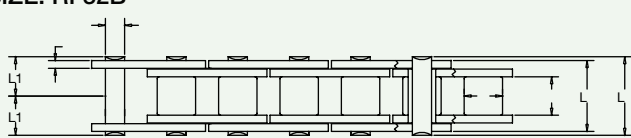
ST-4P STYLE
Size: 80



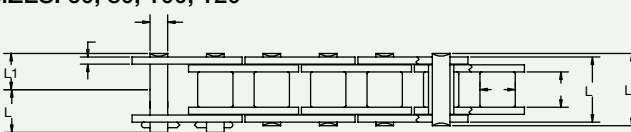
ST-4P ALL STYLE
Size: 80



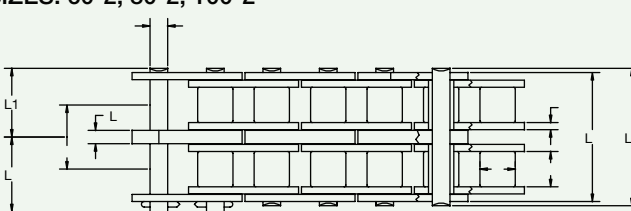
SIZE: RF32B



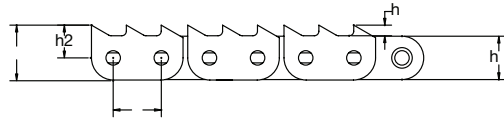
SIZES: 60, 80, 100, 120



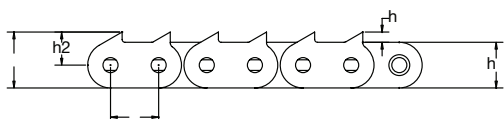
SIZES: 60-2, 80-2, 100-2



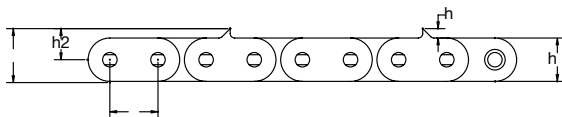
SL STYLE (RF100)
Size: 100



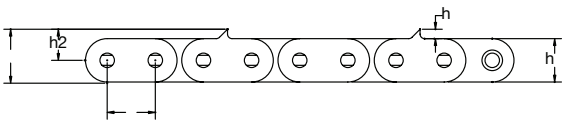
SL STYLE (RF80)
Size: 80



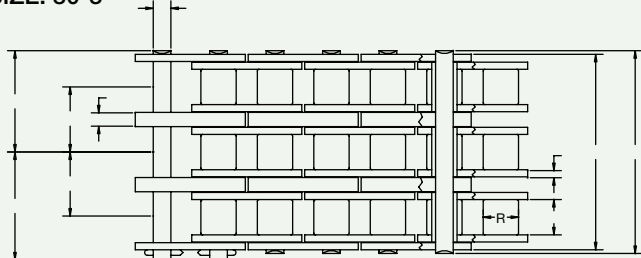
P4P-AD STYLE (shown here) and P8P-AD STYLE
(as above except point on every 8th pitch)
Sizes: 80, 100



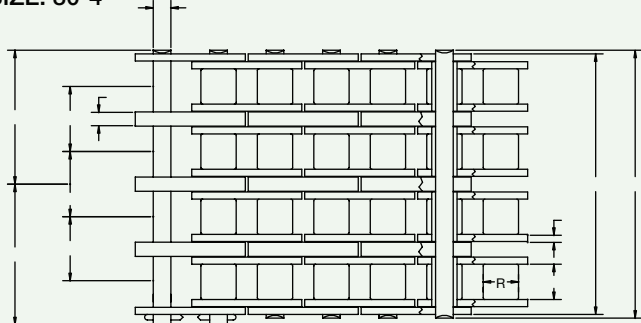
P4P-SD STYLE
Sizes: 80,100



SIZE: 80-3



SIZE: 80-4



Sharp Top Chain Specifications

All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate						Pin						Transverse Pitch C	Approx. Weight (lbs./ft.)
				Thickness T	Middle Link Plate Thickness MLP	Height H	Height h ₁	Height h ₂	Tooth Height h ₃	Dia. D	Length L ₁ +L ₂	Length L ₁	Length L ₂	Riveted Pin Length (L ₁ x 2) L ₃	Length Ref. L ₄		
2 straight points on every second pitch & extended flat side bar																	
RF32B-1-SL-2P	2.000	1.150	1.220	0.248	-	2.953	1.661	1.181	0.807	0.701	-	1.264	-	2.305	2.305	-	
RF32B-1-SL-2P-NAR	2.000	1.150	0.900	0.220	-	2.953	1.661	1.181	0.807	0.701	-	1.020	-	2.137	2.137	-	
3 straight points on every second pitch & extended flat side bar																	
RF32B-1-SL-3P	2.000	1.150	1.220	0.248	-	2.953	1.661	1.181	0.807	0.701	-	1.264	-	2.305	2.305	-	
3 straight points on every second pitch																	
60-1-ST	0.750	0.469	0.500	0.094	-	0.854	0.713	0.498	0.094	0.235	1.087	0.506	0.581	1.012	0.898	-	1.23
60-2-ST	0.750	0.469	0.500	0.094	0.188	0.854	0.713	0.498	0.094	0.235	1.988	0.955	1.033	1.910	1.794	0.898	2.28
80-1-ST	1.000	0.625	0.625	0.126	-	1.143	0.949	0.669	0.177	0.313	1.398	0.640	0.758	1.280	1.138	-	2.14
80-2-ST	1.000	0.625	0.625	0.126	0.236	1.143	0.949	0.669	0.177	0.313	2.540	1.217	1.323	2.434	2.276	1.138	4.21
80-3-ST	1.000	0.625	0.625	0.126	0.252	1.143	0.949	0.669	0.177	0.313	3.704	1.795	1.909	3.590	3.459	1.154	6.36
80-4-ST	1.000	0.625	0.625	0.126	0.252	1.143	0.949	0.669	0.177	0.313	4.862	2.372	2.490	4.744	4.612	1.154	8.47
100-1-ST	1.250	0.750	0.750	0.157	-	1.319	1.126	0.756	0.126	0.376	1.678	0.778	0.900	1.556	1.408	-	3.05
100-2-ST	1.250	0.750	0.750	0.157	0.315	1.319	1.126	0.756	0.126	0.376	3.090	1.484	1.606	2.968	2.818	1.409	6.02
120-1-ST	1.500	0.875	1.000	0.189	-	1.583	1.354	0.906	0.126	0.437	2.118	0.980	1.138	1.960	1.789	-	4.46
3 straight points on every pitch																	
60-1-ST-ALL	0.750	0.469	0.500	0.094	-	0.854	-	0.498	0.094	0.235	1.087	0.506	0.581	1.012	0.898	-	1.26
80-2-ST-ALL	1.000	0.625	0.625	0.126	0.236	1.143	-	0.669	0.177	0.313	2.540	1.217	1.323	2.434	2.276	1.138	4.34
80-3-ST-ALL	1.000	0.625	0.625	0.126	0.252	1.143	-	0.669	0.177	0.313	3.704	1.795	1.909	3.590	3.459	1.154	6.55
80-4-ST-ALL	1.000	0.625	0.625	0.126	0.252	1.143	-	0.669	0.177	0.313	4.862	2.372	2.490	4.744	4.612	1.154	8.73
4 straight points on every second pitch																	
80-1-ST-4P	1.000	0.625	0.625	0.126	-	1.143	0.949	0.669	0.189	0.313	1.398	0.640	0.758	1.280	1.154	-	2.14
80-2-ST-4P	1.000	0.625	0.625	0.126	0.236	1.143	0.949	0.669	0.189	0.313	2.551	1.217	1.335	2.430	2.307	1.154	4.21
80-3-ST-4P	1.000	0.625	0.625	0.126	0.252	1.143	0.949	0.669	0.189	0.313	3.704	1.795	1.909	3.590	3.461	1.154	6.36
4 straight points on every pitch																	
80-2-ST-ALL-4P	1.000	0.625	0.625	0.126	0.252	1.143	-	0.669	0.189	0.313	2.551	1.217	1.335	2.430	2.307	1.154	4.34
80-2-ST-ALL-4P-HD	1.000	0.625	0.625	0.252	0.252	1.143	-	0.669	0.189	0.313	2.807	1.346	1.461	2.692	2.559	1.154	4.9
80-3-ST-ALL-4P	1.000	0.625	0.625	0.126	0.252	1.143	-	0.669	0.189	0.313	3.704	1.795	1.909	3.590	3.461	1.154	6.55
80-4-ST-ALL-4P	1.000	0.625	0.625	0.126	0.252	1.143	-	0.669	0.189	0.313	4.862	2.372	2.490	4.744	4.614	1.154	8.73
3 slasher points on every second pitch																	
100-1-SL-LP	1.250	0.750	0.750	0.157	-	1.425	1.126	0.850	0.299	0.376	1.678	0.778	0.900	1.556	1.408	-	3.14
100-2-SL-LP	1.250	0.750	0.750	0.157	0.315	1.425	1.126	0.850	0.299	0.376	3.090	1.484	1.606	2.968	2.818	1.409	6.2
100-2-SL-HP	1.250	0.750	0.750	0.157	0.315	1.638	1.126	1.063	0.512	0.376	3.090	1.484	1.606	2.968	2.818	1.409	6.64
2 slasher points on every second pitch																	
80-1-SL	1.000	0.625	0.625	0.126	-	1.161	0.949	0.667	0.212	0.313	1.460	0.671	0.789	1.342	1.216	-	2.32
80-2-SL	1.000	0.625	0.625	0.126	0.236	1.161	0.949	0.667	0.212	0.313	2.590	1.236	1.354	2.472	2.276	1.138	4.35
1 opposite slant point on every 4th pitch																	
100-2-P4P-AD	1.250	0.750	0.750	0.157	0.315	1.370	1.126	0.807	0.244	0.376	3.090	1.484	1.606	2.968	2.818	1.409	5.88
1 opposite slant point on every 8th pitch																	
80-2-P8P-AD	1.000	0.625	0.625	0.126	0.236	1.184	0.949	0.709	0.235	0.313	2.540	1.217	1.323	2.434	2.276	1.138	4.09
1 right slant point on every 4th pitch																	
100-2-P4P-SD	1.250	0.750	0.750	0.157	0.315	1.370	1.126	0.807	0.244	0.376	3.090	1.484	1.606	2.968	2.818	1.409	5.88

INTRODUCTION TO CONVEYOR CHAIN & ATTACHMENTS

When selection really matters

Attachment Chains add functionality to standard roller chain for conveying objects. Attachments are simple additions to the standard roller chain that allow fixtures to be secured to pull, push, transfer, carry, or otherwise move your lumber.

Chain Type	Size	Attachments			Delivery		
Single Pitch: Standard Lambda	40	K1	WA1 WK1 WSA1 WSK1	WA2 WK2 WSA2 WSK2	1 Week* up to 200 ft. Rush assembly service available, contact your Tsubaki distributor for details.		
	50	SA1					
	60	SK1					
	80	D1					
	100	D3					
Double Pitch, Standard Roller: Standard Lambda	C2040	A1 K1 SA1 SK1 D1 D3	A2 K2 SA2 SK2				
	C2050						
	C2060H						
	C2080H						
	C2100H						
	C2120H						
Double Pitch, Large Roller: Standard Lambda	C2042						
	C2052						
	C2062H						
	C2082H						
	C2102H						
	C2122H						

**Subject to stock availability and prior sale.*

Made-To-Order Attachments

Whether you need to push, carry, pull, drag, drop or position, trust Tsubaki to fabricate and assemble your MTO attachments.

Special Pusher



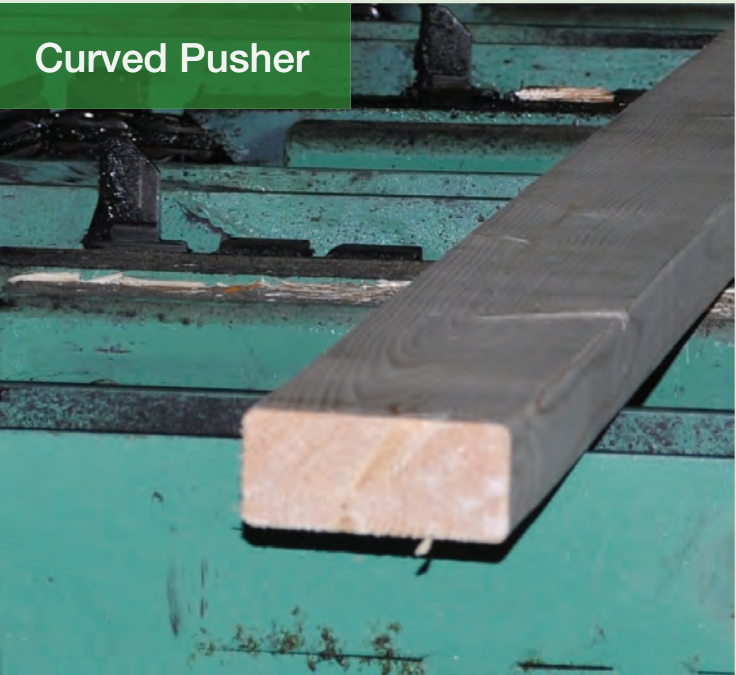
Trimmer Lug



SK2 attachment
with plastic fixture



Curved Pusher

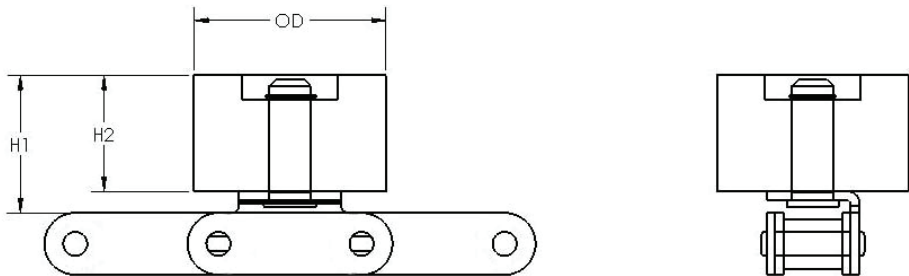


Trimmer Lug

Trimmer Lugs are used to convey sawn wood through the scanner, trimmer and several other operations in a sawmill. Tsubaki is pleased to offer two types of Trimmer Attachment: the traditional welded type (WTL) and the new quick change style (QTL).

- Modular pin design for quick roller replacement.
- Attachment is on a connecting link for quick change out and repair. No need to weld.
- Standardize operations and reduce inventory on replacement parts.

QTL Modular Pin Style Trimmer Lug*

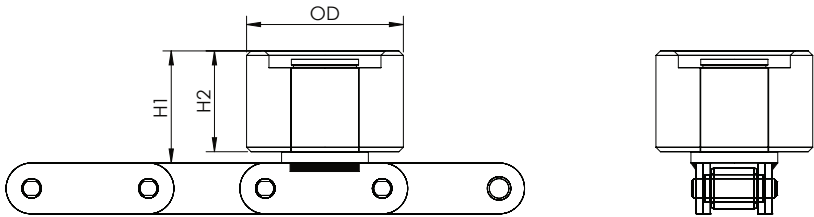


All dimensions in inches unless otherwise stated.

	H ₁	H ₂	OD
81X	2.500	2.113	3.500

*Patent pending.

WTL Welded Style Trimmer Lug



All dimensions in inches unless otherwise stated.

	Roller Style A			Roller Style B		
	H ₁	H ₂	OD	H ₁	H ₂	OD
81X	2.75	2.50	2.75	2.50	2.25	3.50
C2100H	2.75	2.50	2.75	2.50	2.25	3.50
C2080H	2.75	2.50	2.75	2.50	2.25	3.50

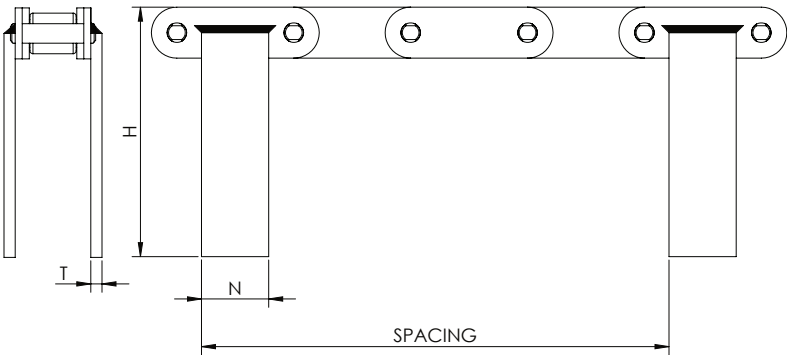
Note: Trimmer Lug will be welded on to the pin link or roller link depending on spacing requirements. Specify standard dimensions (OD or A) when ordering. Tsubaki also offers various sizes of trimmer lug weld-on attachments. Contact Tsubaki for more information.

NEW
DESIGN!

81XPQTLA10L260PMT
How To Order:

How To Order Sell Sheet			
Example	Description		
81X	Chain Size		
P	Tier	Blank	Econo
		P	Premium
		L	Lambda
QTL	Attachment Type	QTL	Quick Trimmer Lug (Modular Pin Style)
		WTL	Welded Trimmer Lug
A	Roller Type	A	See page 26
		B	See page 26
10L	Attachment Spacing	xxL	Every xxL Link (e.g. 10L = every 10th link) Note: (1) If spacing is even, attachment is supplied on the pin link unless otherwise instructed. If spacing is odd, attachment alternates on the pin link and roller link. In the case of QTL attachment odd spacing will be supplied on the pin link using an offset link.
260P	Length	Blank	Supply in 10ft strands
		xxP	xx Pitch Strands (e.g. 260P = 260P Strand) Note: (1) Total chain length should be divisible by the attachment spacing. (2) Chain will be supplied in suitable lengths for shipping with a conn link at each section.
MT	Option	MT – Matched and Tagged Strands – Recommended for all multi-strand timed applications. E.g. Scanner, Trimmer, Drop Sorter	

Welded Pusher



Dimension	Description
Height, H	Total height from top of chain to bottom of attachment
Thickness, T	Thickness of attachment
Width, N	Attachment width
Spacing	Attachment spacing: May be supplied in number of pitches or links or as dimension shown above.

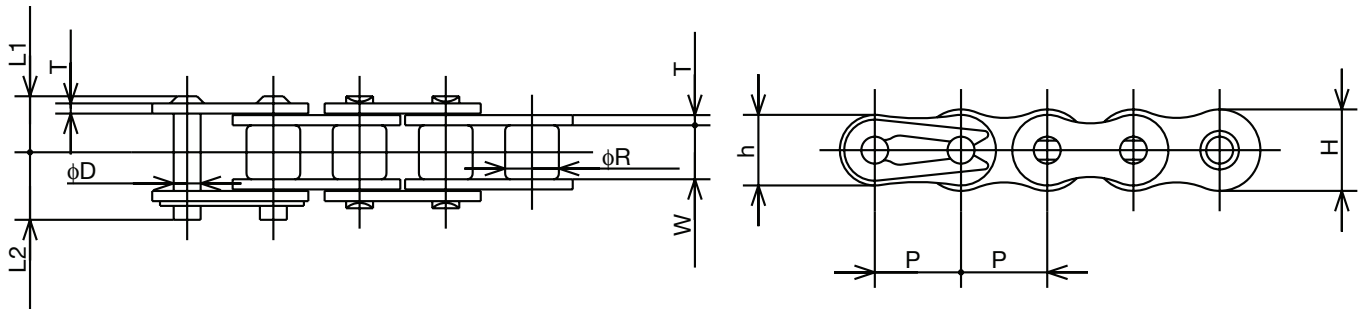
STANDARD ATTACHMENT CHAIN

When expedience really matters

RS Single Pitch

Standard Attachment Chain

Tsubaki RS single pitch roller chains may be adapted to conveying applications by the addition of attachments. The standard attachment types include bent or straight type attachments on one or both sides, extended pin and wide contour attachments. Tsubaki stocks a wide variety of assembled chain and components.



All dimensions in inches unless otherwise stated.

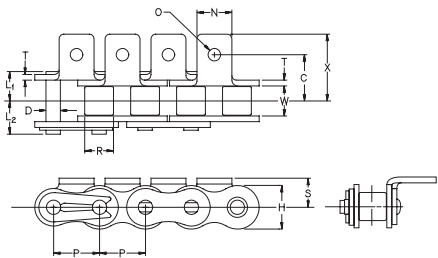
Chain Number	Pitch P	Roller Dia. R	Width Between Inner Link Plates W	Link Plate			Pin				Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	App. Weight (lbs./ft.)
				Thickness T	Height H	Height h	Dia. D	Length L ₁ +L ₂	Length L ₁	Length L ₂			
RS40	0.500	0.312	0.313	0.060	0.472	0.409	0.156	0.717	0.325	0.392	3,740	590	0.43
RS50	0.625	0.400	0.375	0.080	0.591	0.512	0.200	0.878	0.406	0.472	6,160	970	0.70
RS60	0.750	0.469	0.500	0.094	0.713	0.614	0.235	1.087	0.506	0.581	9,020	1,410	1.03
RS80	1.000	0.625	0.625	0.126	0.949	0.819	0.313	1.398	0.640	0.758	15,400	2,400	1.78
RS100	1.250	0.750	0.750	0.157	1.185	1.024	0.376	1.677	0.778	0.900	24,200	3,830	2.67
RS120	1.500	0.875	1.000	0.187	1.425	1.228	0.437	2.118	0.980	1.138	34,000	5,380	3.97
RS140	1.750	1.000	1.000	0.221	1.661	1.433	0.500	2.307	1.059	1.248	45,900	7,280	5.02
RS160	2.000	1.125	1.250	0.250	1.898	1.638	0.562	2.705	1.254	1.451	58,000	9,190	6.77

Note: Spring clip type connecting links will be provided for RS25 to RS60 unless otherwise specified.

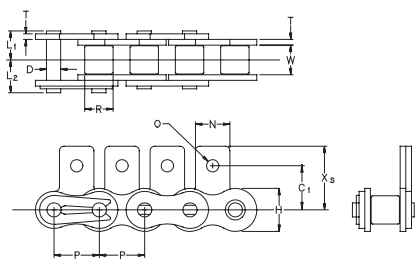
RS Single Pitch

Standard Attachment Chain

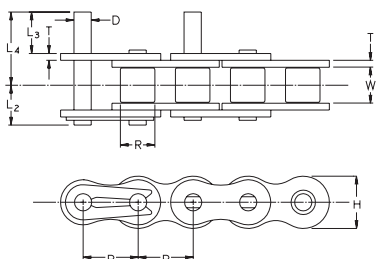
A-1 Attachment



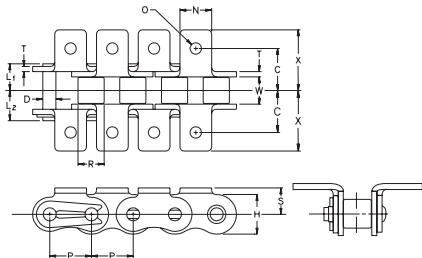
SA-1 Attachment



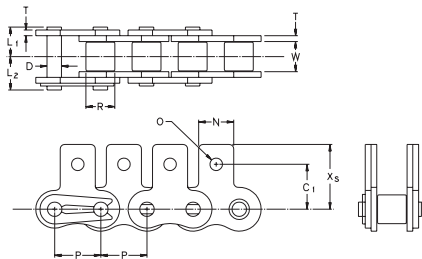
D-1 Attachment



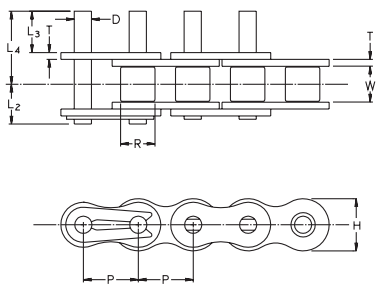
K-1 Attachment



SK-1 Attachment



D-3 Attachment



All dimensions in inches unless otherwise stated.

Chain Number	Attachment Dimensions									Additional Wt. per Attach. (lbs.)		
	A	A	A	A	A	A	A	A	A	A Attach.	Attach.	D Attach.
RS40	.	.	.	.	.	.	.	.	.	.	.	.
RS50	.	.	.	.	.	.	.	.	.	.	.	.
RS60	.	.	.	.	.	.	.	.	.	.	.	.
RS80	.	.	.	.	.	.	.	.	.	.	.	.
RS100	.	.	.	.	.	.	.	.	.	.	.	.
RS120	.	.	.	.	.	.	.	.	.	.	.	.
RS140	.	.	.	.	.	.	.	.	.	.	.	.
RS160	.	.	.	.	.	.	.	.	.	.	.	.

STANDARD ATTACHMENT CHAIN

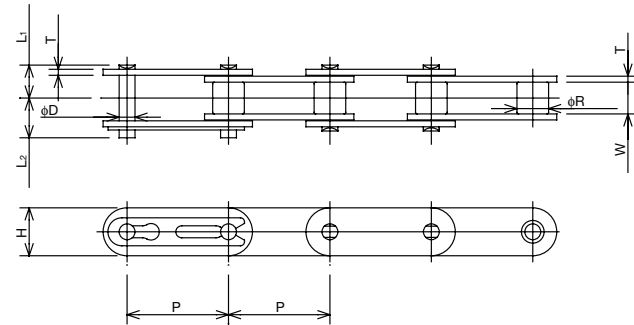
Double Pitch

Standard Attachment Chain

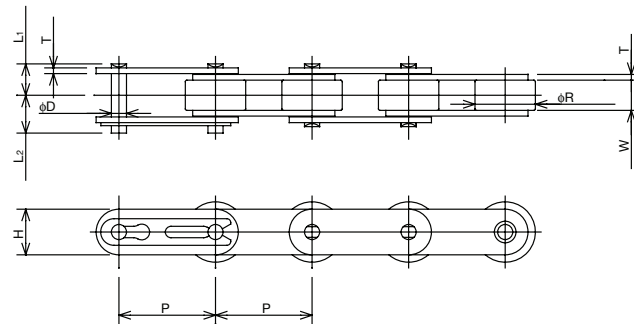
Tsubaki double pitch roller chain may be adapted to conveying applications by the addition of attachments. The standard attachment types include bent or straight type attachments on one or both sides, extended pin and wide contour attachments. Tsubaki stocks a wide variety of assembled chain and components.



Standard Roller Type



Oversize Roller Type



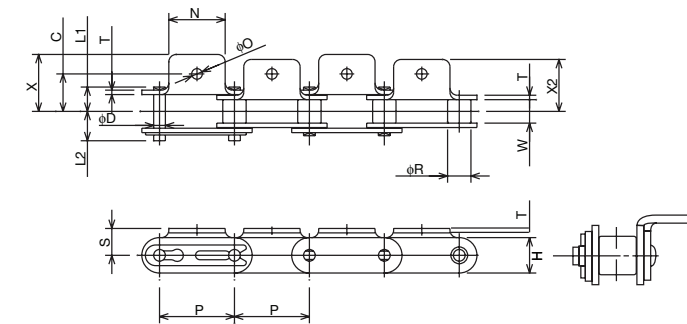
All dimensions in inches unless otherwise stated.

[illegible]

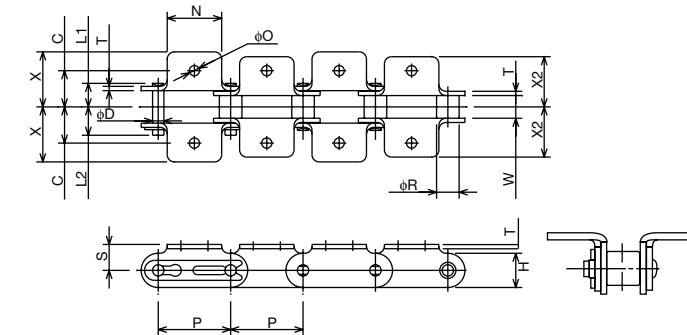
Double Pitch

Standard Attachment Chain

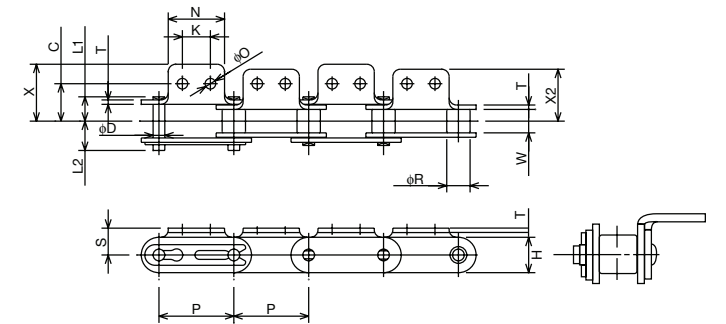
A-1 Attachment



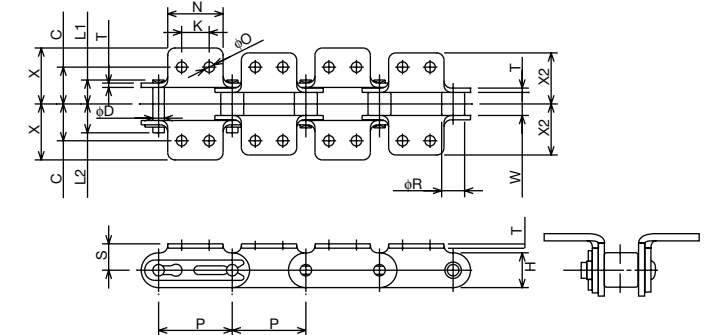
K-1 Attachment



A-2 Attachment



K-2 Attachment



All dimensions in inches unless otherwise stated.

Chain Number	A-1, A-2, K-1 and K-2 Attachment Dimensions							Additional Wt. per Attach. (lbs.)	
		A ₂	A ₁	K ₁	K ₂	K		A Attachment	K Attachment
2	. .	. .	. .	. .	. .	. .	.1 1	. .	. 1
2	. .	. .	. 2	. .	. .	. .	.2	. 1	. 2
2	1.2	1.11	. .	. .	. .	1.12	.2	. .	. .
2	1. 2	1. 1	1. .	. 2	. 2	1. .	.2	. .	.1 1
21	1. .	1. .	1. 1	. 22	. .	1. .	. .	.1 2	.2
212	2. .	2.1 2	1. 2	1. .	1.12	2.2	. .	.221	. 1
21	. .	2 .	2 2	1 .	1 .	. .	1 .	. .	. .

STANDARD ATTACHMENT CHAIN

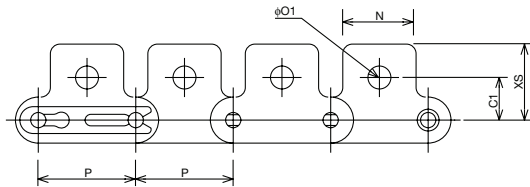
ORDERING ATTACHMENT CHAIN IS EASY!

When value really matters

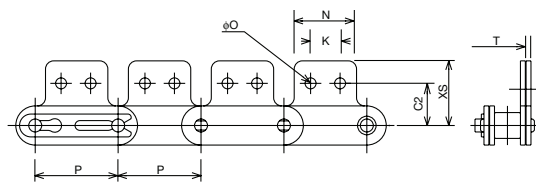
Double Pitch

Standard Attachment Chain

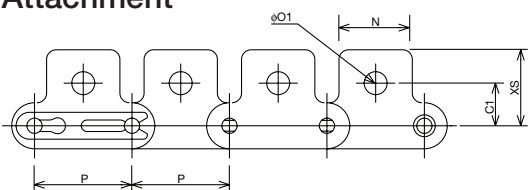
SA-1 Attachment



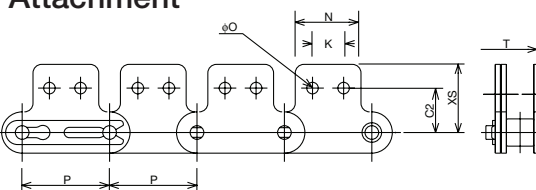
SA-2 Attachment



SK-1 Attachment



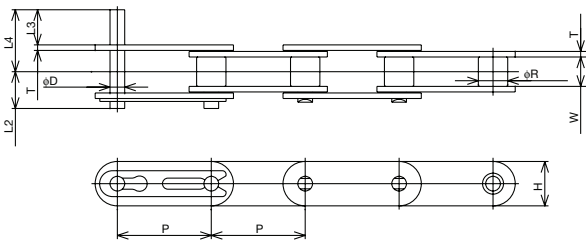
SK-2 Attachment



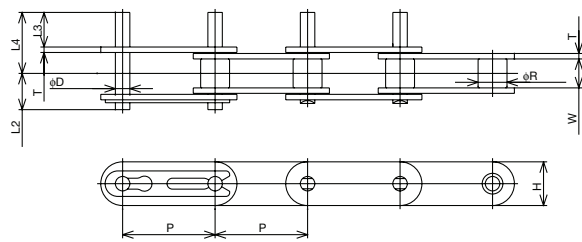
All dimensions in inches unless otherwise stated.

Chain Number	SA-1, SA-2, SK-1 and SK-2 Attachment Dimensions								Additional Wt. per Attach. (lbs.)	
	S	1	2	K	2	1	2	1	SA Attachment	SK Attachment
2	.	.	.	.	. 2	. 2	.	.	.	. 1
2	.	.	. 2	.	.	. 2	.	.	. 1	. 2
2	1.2	.	.	.	1.12	. 2	.	.12	.	.
2	1.	.	1.	. 2	1.	. 2	.	.1	.	.1 1
21	1.	1.12	1.2	.	1.	. 2	.	.1	.1 2	. 2
212	2. 1	1. 12	1.	1.12	2.2	.	.	.21	.221	. 1
21	.	1.	2.	1.	.	. 1	. 1	.2 1	.	.

D-1 Attachment



D-3 Attachment



All dimensions in inches unless otherwise stated.

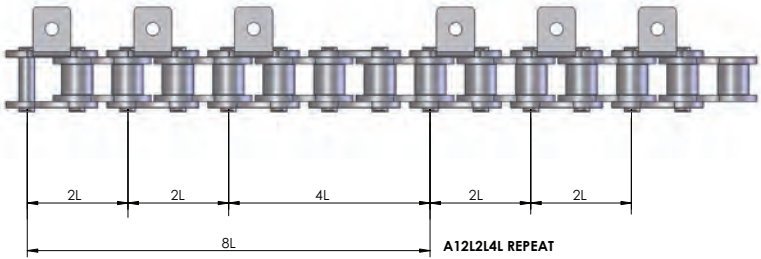
Chain Number	D Attachment Dimensions			Additional Wt. per Attach. (lbs.)	
	D	L ₃	L ₄	D-1 Attachment	D-3 Attachment
C2040	0.156	0.374	0.663	0.002	0.004
C2050	0.200	0.469	0.833	0.004	0.008
C2060H	0.234	0.563	1.083	0.007	0.014
C2080H	0.312	0.752	1.401	0.015	0.030
C2100H	0.375	0.937	1.687	0.026	0.052
C2120H	0.437	1.125	2.062	0.044	0.088
C2160H	0.562	1.500	2.718	0.099	0.198

To order attachment chain, please provide the following:

- 1) Size of chain (40, 50, C2062H)
- 2) Material
- 3) Rivet or Cotter Pin construction
- 4) Type of attachment
- 5) Spacing of attachment

Attachment spacing is counted as being the number of links (both inside and outside) up to and including the next attachment. In the non-standard spacing example to the right, initial spacing is every 2nd (2L) and then every 4th (4L). Each repeating section is 8 pitches (8L).

- 6) Overall length of chain



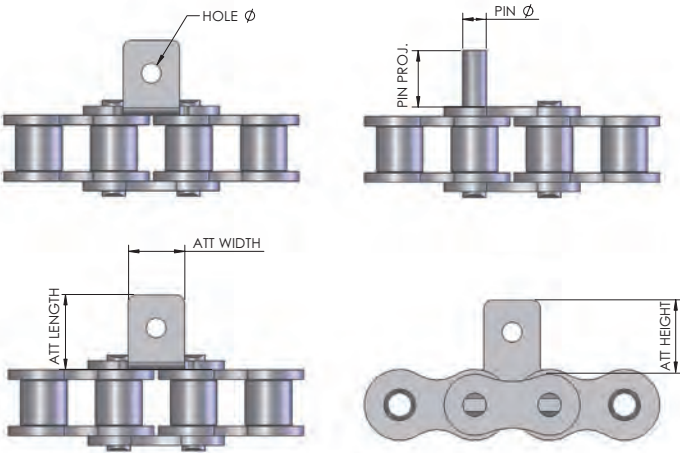
All standard attachment chain orders are to be confirmed with a schematic for the customer's review.

ASME (ANSI) Special Attachments

In addition to providing standard attachment chain, Tsubaki of Canada can modify existing attachments to match your requirements. An example of this could be a shorter-than-standard pin or a larger hole diameter. If modifying standard attachments, delivery can be 1-2 weeks depending on the quantity.

When specifying non-standard attachments, information required is:

- tab length, width and possibly height
- hole diameter and type of hole (threaded, countersunk)
- pin diameter, projection (extension) length, type of end (threaded, circlip groove)



All non-standard attachment quotes will be accompanied by a drawing for customer approval.

IF YOU DON'T SEE WHAT YOU ARE LOOKING FOR – ASK TSUBAKI!

81X CHAIN & 3939-B4

When choice really matters



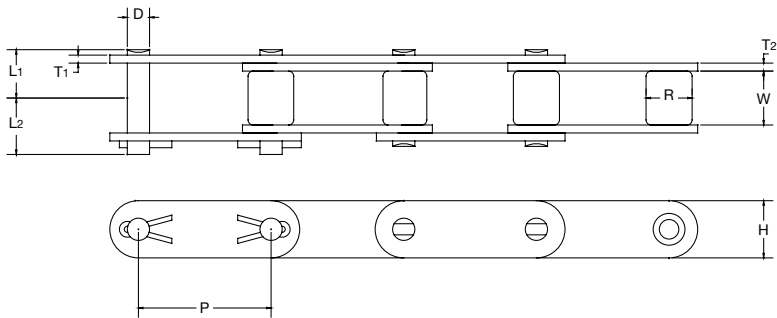
The Many Faces of 81X

Why choose one over the other? 81X is at the heart of every modern sawmill operation. This versatile chain is available in many grades of quality. At Tsubaki we are proud to offer three tiered levels of 81X quality:

Tier	Key Features	Key Applications
81X Econo	An economical version that meets the general need of non-timed sawmill applications.	Non-Timed Conveyors: • Transfers
81X Premium	Building upon the strength of the 81X design, Premium offers better performance on multi-strand timed conveyors where relative length tolerance and rate of stretch is critical. • Improved material & heat treatment • Precision and consistency of fabrication & assembly	Multi-strand Timed Conveyors: • Scanner • Trimmer • Drop Sorter
81X Lambda ¹	Oil impregnated sintered metal bushing for lube-free operation. • 7-14 times longer life than unlubricated chain • Same precision of material, heat treatment, fabrication and assembly as 81X Premium.	Multi-strand Timed Conveyors: • Drop Sorter • Trimmer • Scanner • Any application where contamination of the product must be avoided

¹ Note that 81X Lambda chain has a slighter wider profile than Premium or Econo.

81X Chain

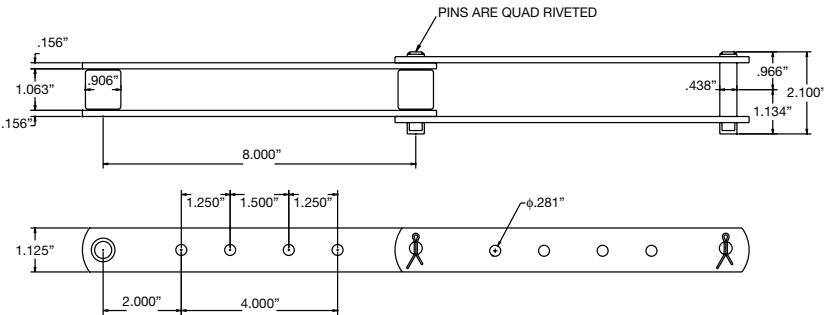


All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Roller Diameter R	Width Between Inner Link Plates W	Link Plate			Pin				Average Tensile Strength (lbs.)	Approx. Weight (lbs./ft.)
				Thickness T ₁	Thickness T ₂	Height H	Diameter D	Length L ₁ + L ₂	Length L ₁	Length L ₂		
81X Econo	2.609	0.906	1.060	0.157	0.157	1.125	0.437	2.063	0.951	1.112	24,000	2.42
81X Premium	2.609	0.906	1.060	0.157	0.157	1.125	0.437	2.063	0.951	1.112	24,000	2.42
81XHD Econo	2.609	0.906	1.060	0.220	0.315	1.260	0.437	2.536	1.181	1.355	42,000	4.12
81XHD Premium	2.609	0.906	1.060	0.220	0.315	1.260	0.437	2.536	1.181	1.355	42,000	4.12
81X Lambda	2.609	0.906	1.060	0.157	0.189	1.125	0.437	2.146	0.998	1.148	24,000	2.42
81XSS	2.609	0.906	1.060	0.157	0.157	1.125	0.437	2.063	0.951	1.112	11,000	2.42

3939-B4

3939-B4 chain is an 8” pitch version of 81X chain and is used for lumber conveying. It is typically used in drop sorter applications. Lumber is conveyed using J-bar attachments on the chain. Tsubaki can install the J-bars on the chain. Tsubaki can also supply sprockets to work with 3939-B4 chain. Please contact Tsubaki Technical Support for more information.



INTRODUCTION TO MILL & DRAG CHAIN

One of the backbones of forestry operations, **Welded Steel Chain** operates in some of the most demanding applications. The inherent design provides high tensile and fatigue strength. This brute of a chain must withstand high shock loading, provide resistance to abrasive material and operate in extreme temperatures and climates. Building upon the basic design, **Tsubaki's Welded Steel Sidebars and Barrels** are shot peened for additional fatigue strength. Pins are precision fit for a superior press fit into the side bar.

Precision Press Fit Pins

Increase wear resistance

Shot Peened Sidebars and Barrels

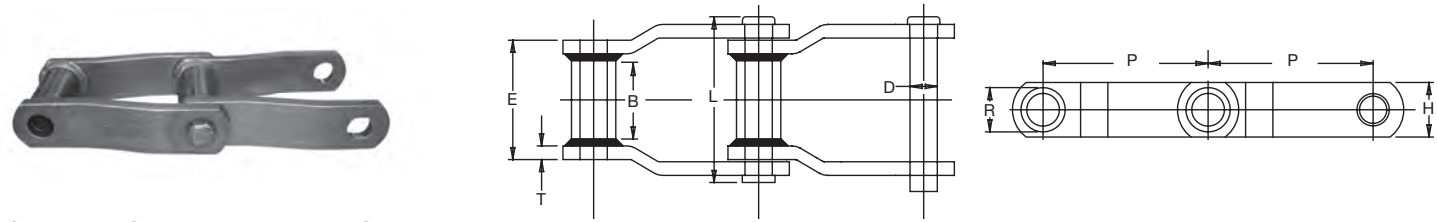
Provide additional fatigue strength

Application: Chip Truck Dumper
Savings: \$18,047.00
Tsubaki solution: After the first year of operation, only 1 link of Tsubaki was taken out vs. 4 links of the previous competitor install over that time period. Full life resulted in 27 months vs. 19 with less maintenance costs.

It really mattered to this Tsubaki customer

COST SAVINGS!

OFFSET SIDEBAR MILL CHAIN



Offset Sidebar Mill Chains

All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Sidebars		Pin Dia. D	Chain Width		Effective Distance Between Welds B	Barrel Dia. R	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
		Thickness T	Height H		Overall L	Length of Bearing E					
WR-78	2.609	0.250	1.25	0.50	3.00	2.00	1.00	0.84	30,000	4,500	4.2
WH-78	2.609	0.250	1.25	0.50	3.00	2.00	1.00	0.84	33,000	5,500	4.2
WR-78-4	4.000	0.250	1.25	0.50	3.00	2.00	1.00	0.84	30,000	4,500	3.5
WR-82	3.075	0.250	1.25	0.56	3.24	2.25	1.13	1.00	30,000	5,000	5.0
WH-82	3.075	0.250	1.25	0.56	3.24	2.25	1.13	1.00	36,000	6,000	5.0
*WR-124IBR	4.000	0.375	1.50	0.75	4.25	2.75	1.50	1.25	50,400	8,200	8.0
WH-124	4.000	0.375	1.50	0.75	4.25	2.75	1.50	1.25	57,000	9,500	8.0
WR-111	4.760	0.375	1.75	0.75	4.80	3.36	2.25	1.25	50,400	9,500	9.2
WH-111	4.760	0.375	1.75	0.75	4.80	3.36	2.25	1.25	60,200	12,000	9.2
WR-106	6.000	0.375	1.50	0.75	4.25	2.75	1.50	1.25	50,400	8,200	6.6
WH-106	6.000	0.375	1.50	0.75	4.25	2.75	1.50	1.25	60,250	12,000	6.6
WR-110	6.000	0.375	1.50	0.75	4.81	3.00	1.88	1.25	46,000	6,800	6.6
WH-110	6.000	0.375	1.50	0.75	4.81	3.00	1.88	1.25	60,000	12,000	6.6
WR-132	6.050	0.500	2.00	1.00	6.14	4.41	2.75	1.75	85,500	14,100	14.2
WH-132	6.050	0.500	2.00	1.00	6.14	4.41	2.75	1.75	122,000	20,300	14.2
WR-150	6.050	0.500	2.50	1.00	6.50	4.41	3.00	1.75	100,000	19,000	17.1
WH-150	6.050	0.500	2.50	1.00	6.50	4.41	3.00	1.75	122,000	20,300	17.1
WR-155	6.050	0.625	2.50	1.13	6.41	4.63	2.75	1.75	148,000	22,000	19.8
WH-155	6.050	0.625	2.50	1.13	6.41	4.63	2.75	1.75	185,000	29,000	19.8

*WR124IBR is produced standard with extended wear life pin.

Extra Heavy Duty Offset Sidebar Mill Chains

All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Sidebars		Pin Dia. D	Chain Width		Effective Distance Between Welds B	Barrel Dia. R	Average Tensile Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
		Thickness T	Height H		Overall L	Length of Bearing E					
WR-78XHD	2.636	0.38	1.25	0.56	3.37	2.00	1.00	1.00	40,000	5,000	6.2
WH-78XHD	2.636	0.38	1.25	0.56	3.37	2.00	1.00	1.00	54,000	6,000	6.2
WR-82XHD	3.075	0.38	1.50	0.75	3.75	2.38	1.13	1.25	32,500	8,400	8.5
WH-82XHD	3.075	0.38	1.50	0.75	3.75	2.38	1.13	1.25	57,100	9,500	8.5
WR-124XHD	4.063	0.50	2.00	1.00	4.87	3.00	1.50	1.75	85,500	14,200	14.8
WH-124XHD	4.063	0.50	2.00	1.00	4.87	3.00	1.50	1.75	122,000	20,400	14.8
WR-106XHD	6.050	0.50	2.00	1.00	4.87	3.00	1.50	1.75	85,000	14,200	12.2
WH-106XHD	6.050	0.50	2.00	1.00	4.87	3.00	1.50	1.75	122,000	20,400	12.2
WR-132XHD	6.050	0.63	2.00	1.00	6.75	4.67	2.75	1.75	120,000	20,000	16.5
WH-132XHD	6.050	0.63	2.00	1.00	6.75	4.67	2.75	1.75	123,650	20,400	16.5

Notes:

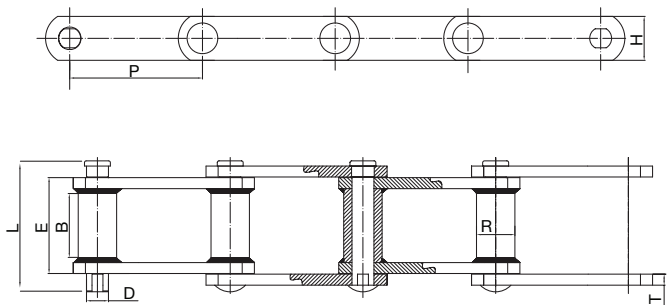
1. WR: Offset sidebar style, with heat treated rivets.
2. WH: Offset sidebar series, with all parts heat treated.
3. WRXHD: Offset sidebar extra heavy duty series, with heat-treated rivets.

4. WHXHD: Offset sidebar extra heavy duty series, with all parts heat treated.
5. If extended wear life pin is required Tsubaki can supply IBR or IBRS as an option for all chain on this page.
6. Riveted type connecting pins are supplied as standard cottered upon request.

STRAIGHT SIDE BAR MILL CHAIN

MILL CHAIN ATTACHMENTS

When consistency really matters



Straight Sidebar Mill Chains

All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Sidebars		Pin Dia. D	Chain Width		Effective Distance Between Welds B	Barrel Dia. R	Ultimate Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
		Thickness T	Height H		Overall L	Length of Bearing E					
WRC-78	2.609	0.25	1.25	0.50	3.00	2.00	1.00	0.84	27,000	4,500	4.3
WRC-131	3.075	0.38	1.50	0.75	3.56	2.24	1.13	1.25	50,400	8,400	8.4
WHC-131	3.075	0.38	1.50	0.75	3.56	2.24	1.13	1.25	57,000	8,400	8.4
WRC-124	4.000	0.38	1.50	0.75	4.25	2.75	1.50	1.25	50,400	8,400	7.8
WRC-111	4.760	0.38	1.75	0.75	4.81	3.38	1.75	1.25	50,400	8,400	8.0
WRC-110	6.000	0.38	1.50	0.75	4.25	2.75	1.50	1.25	50,400	8,400	7.2
WHC-132IBR	6.050	0.50	2.00	1.00	6.50	4.41	2.75	1.75	121,800	14,100	14.1
WRC-150	6.050	0.50	2.50	1.00	6.50	4.41	2.75	1.75	120,000	19,000	16.3

Extra Heavy Duty Straight Sidebar Mill Chains

All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Sidebars		Pin Dia. D	Chain Width		Effective Distance Between Welds B	Barrel Dia. R	Ultimate Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
		Thickness T	Height H		Overall L	Length of Bearing E					
WRC-82XHD	3.075	0.38	1.50	0.75	3.75	2.40	1.13	1.25	50,400	8,400	8.5
WRC-124XHD	4.063	0.50	2.00	1.00	4.88	3.00	1.50	1.75	85,000	14,200	14.6
WRC-110XHD	6.050	0.50	2.00	1.00	4.88	3.00	1.50	1.63	85,000	14,200	11.8
WRC-132XHD	6.050	0.63	2.00	1.00	6.75	4.66	3.13	1.63	120,000	20,000	15.3

- Notes:
1. WRC: Straight sidebar style, with heat treated rivets.
2. WHC: Straight sidebar series, with all parts heat treated.
3. WRCXHD: Straight sidebar extra heavy duty series, with heat treated rivets.
4. WHCXHD: Straight sidebar extra heavy duty series, with all parts heat treated.

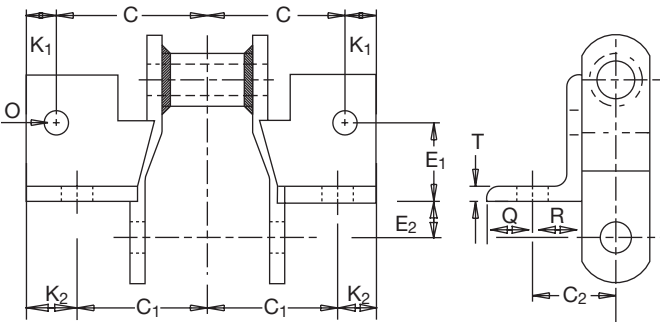
All dimensions in inches unless otherwise stated.

K-1 ATTACHMENT							
Chain Number	C	J	N	O	S	T	X
WR-78	2.00	1.25	1.25	0.38	0.88	0.25	0.50
WR-78XHD	2.00	1.25	1.25	0.38	0.88	0.25	0.50
WR-82	2.38	1.50	1.75	0.38	0.88	0.25	0.63
WR-82XHD	2.38	1.50	1.75	0.38	1.13	0.38	0.63
WR-124	2.63	2.00	1.75	0.38	1.13	0.38	0.63
WR-124XHD	2.63	2.00	1.75	0.50	1.50	0.50	0.75
WR-111	3.13	2.13	1.75	0.38	1.25	0.38	0.63
WR-132	3.75	3.00	2.00	0.50	1.50	0.50	0.88
WR-132XHD	3.75	3.00	2.00	0.50	1.50	0.50	0.88

All dimensions in inches unless otherwise stated.

K-2 ATTACHMENT								
Chain Number	C	J ₂	N	K	O	S	T	X
WR-78	2.00	0.81	2.13	1.13	0.38	0.88	0.25	0.50
WR-78XHD	2.00	0.81	2.13	1.13	0.38	0.88	0.25	0.50
WR-82	2.13	0.50	2.25	1.25	0.38	0.88	0.25	0.63
WR-82XHD	2.38	0.50	2.25	1.25	0.38	1.13	0.38	0.63
WR-124	2.63	0.88	3.00	1.94	0.38	1.13	0.38	0.63
WR-124XHD	2.63	0.88	4.00	1.94	0.50	1.50	0.50	0.75
WR-111	3.13	1.00	4.00	2.31	0.38	1.25	0.38	0.75
WR-132	3.75	1.63	4.25	2.75	0.50	1.50	0.50	0.75
WR-132XHD	3.75	1.63	4.25	2.75	0.50	1.50	0.50	0.88
WR-150	3.75	1.63	4.25	2.75	0.50	1.75	0.50	0.88

F-4 Attachment



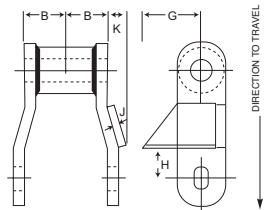
All dimensions in inches unless otherwise stated.

Chain Number	C ₂	E ₂	T	K ₁	K ₂	C	E ₁	Q	R	C ₁	O	Approx. Weight (lbs./ft.)
WR-78	1.75	1.00	0.25	0.50	0.88	2.25	0.94	0.63	1.18	1.88	0.38	8.3
WR-78XHD	1.75	1.00	0.25	0.50	0.88	2.25	0.94	0.63	1.18	1.88	0.38	9.9
WR-82	1.81	1.25	0.25	0.44	0.88	2.50	1.13	0.81	1.19	2.06	0.38	8.9
WR-82XHD	2.06	1.25	0.38	0.50	1.06	2.50	1.13	1.06	1.19	2.06	0.38	12.5
WR-124	2.06	1.16	0.38	0.50	1.06	2.63	1.06	1.06	1.31	2.06	0.38	11.6

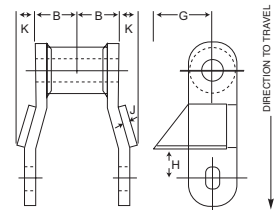
MILL CHAIN ATTACHMENTS

When option really matters

R2 Attachment
(WR-78, WR-78XHD & WR-82 only)



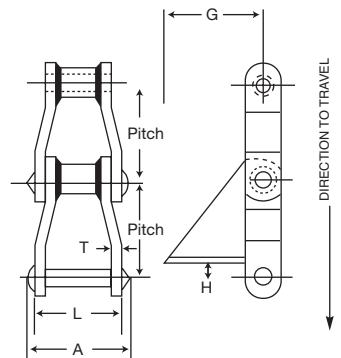
RR-2 Attachment



All dimensions in inches unless otherwise stated.

						Approx. Wt. (lbs/ft)	
Chain Number	B	G	H	J	K	R2	RR-2
WR-78	1.00	1.56	1.00	0.25	0.50	4.4	4.8
WR-78XHD	1.13	1.56	1.00	0.38	0.63	7.5	8.0
WR-82	1.13	1.75	0.81	0.25	0.50	6.0	6.5
WR-82XHD	1.19	2.06	0.81	0.38	0.75	-	8.5
WR-124	1.38	1.88	1.50	0.38	0.75	-	9.3
WR-132	2.20	2.50	1.50	0.50	0.88	-	16.0

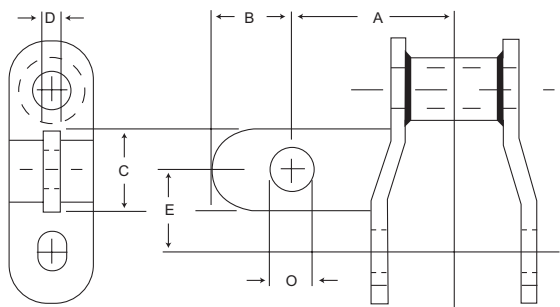
S1 Attachment



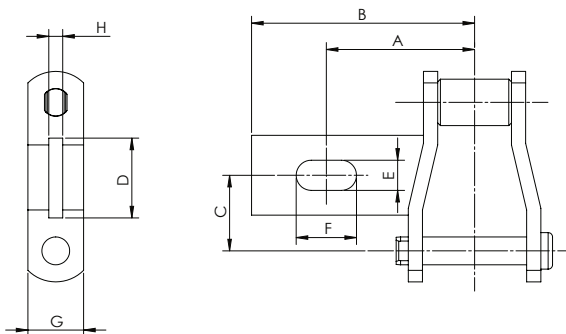
All dimensions in inches unless otherwise stated.

Chain Number	A	G	H	L	T	Approx. weight (lbs./ft.)
WR-124	4.25	3.75	1.00	3.63	0.38	17.4
WR-111	4.81	4.00	1.00	4.19	0.38	18.3
WR-106	4.25	3.75	1.00	3.63	0.38	16.1
WR-124XHD	4.88	3.75	1.28	4.13	0.50	26.0
WR-132	6.25	5.00	1.28	5.28	0.50	18.0
WR-150	6.25	5.50	1.28	5.28	0.50	20.0

A22 Attachment



A22 Slotted Attachment

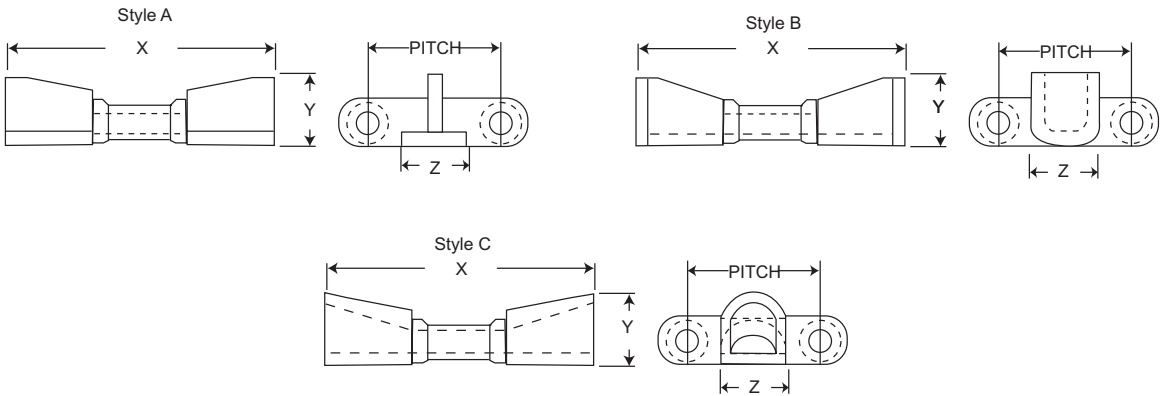


All dimensions in inches unless otherwise stated.

A22 Attachment							A22 Slotted Attachment								
Chain Number	A	B	C	D	E	O	Chain Number	A	B	C	D	E	F	G	H
WR-78	2.000	0.63	1.25	0.25	1.25	0.44	WR-124	4	5 15/16	1 3/4	2	13/16	1 1/2	1 1/2	1/2
WR-78XHD	2.125	0.75	1.25	0.38	1.25	0.44	WR-124XHD	4 1/8	6 1/16	1 3/4	2	13/16	1 1/2	2	1/2
WR-124	3.000	0.88	1.75	0.38	2.00	0.56	WR-132	4 1/2	6 1/4	3	2	13/16	1 1/2	2	1/2
WR-124XHD	3.125	1.00	1.75	0.50	2.00	0.56	WR-132XHD	4 5/8	6 3/8	3	2 1/2	13/16	1 1/4	2	1/2
WR-132	4.250	1.00	1.75	0.50	3.00	0.81	All items are also available in "H" Series, fully heat treated, and/or plus "IBR"/"IBRS" induction hardened options.								
WR-132XHD	4.250	1.00	2.00	0.63	3.00	0.81									

Tabular dimensions and weights are approximate and non-binding. Design improvements may result in variations to published figures. Verification is recommended.

Log Cradle Attachments



All dimensions in inches unless otherwise stated.

Chain Number	Pitch	Style A			Style B			Style C			Special Style C		
		X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
WR-124	4.00	8.00	2.50	2.50	8.00	2.50	2.25	8.00	2.25	3.50	11.00	2.94	3.00
WR-111	4.76	8.50	2.25	1.75	8.50	3.00	2.25	8.50	2.25	3.50	11.00	2.94	3.00
WR-124XHD	4.05	8.50	3.00	2.50	8.50	3.00	2.50	8.50	3.00	3.00	11.00	3.75	3.00
WR-106	6.00	8.00	2.25	3.00	8.00	2.25	2.25	8.00	2.25	3.50	11.63	2.94	3.50
WR-132	6.05	11.00	3.00	3.00	11.00	3.00	3.25	11.00	3.00	3.50	13.00	3.50	3.50
WR-132XHD	6.05	11.25	3.00	3.00	11.25	3.00	3.00	11.63	3.00	3.50	13.63	3.25	3.50

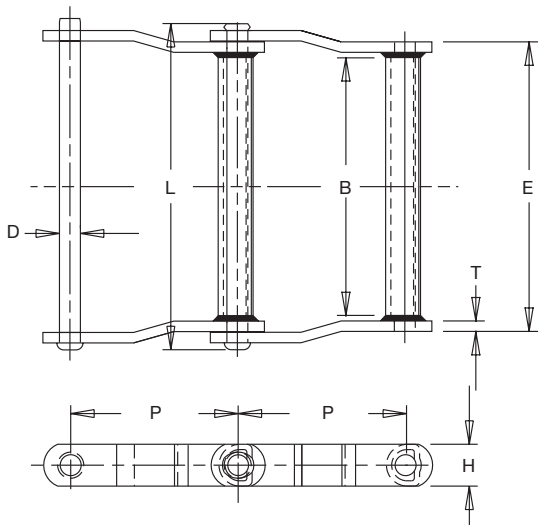
DRAG CHAIN

DRAG CHAIN
ATTACHMENTS

When versatility really matters

Drag Chains move very heavy loads.

They provide efficient and economical service when used in drag conveyor applications such as those involving chips and sawdust. Like Mill Chains, Drag Chains combine strength, precision, impact resistance and wear resistance. This versatile and economical chain is built to withstand punishing shock loads and abrasive conditions to provide longer wear life in your operation.



All dimensions in inches unless otherwise stated.

Drag Chain

Chain Number	Pitch P	Sidebars		Pin Dia. D	Chain Width		Effective Distance Between Welds B	Ultimate Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
		Thickness T	Height H		Overall L	Length of Bearing E				
WD-102	5.000	0.38	1.50	0.75	9.25	7.75	6.38	51,000	10,200	12.1
WDH-104	6.000	0.38	1.50	0.75	6.75	5.34	4.13	51,000	10,200	10.1
WD-110	6.000	0.38	1.50	0.75	11.75	10.22	9.00	51,000	10,200	12.7
WDH-110	6.000	0.38	1.50	0.75	11.75	10.22	9.00	56,000	8,000	12.7
WDH-112	8.000	0.38	1.50	0.75	11.75	10.22	9.00	56,000	10,200	10.4
WD-116	8.000	0.38	1.75	0.75	15.50	14.13	13.00	51,000	10,200	14.8
WD-118	8.000	0.50	2.00	* 0.88	16.63	14.88	13.25	70,000	14,000	18.7
WD-120	6.000	0.50	2.00	* 0.88	12.00	10.25	8.75	70,800	14,000	18.4
WD-122	8.000	0.50	2.00	* 0.88	12.00	10.25	8.75	70,000	14,000	15.3
WD-480	8.000	0.50	2.00	* 0.88	14.50	12.75	11.00	70,000	14,000	20.0
WDH-480	8.000	0.50	2.00	* 0.88	14.50	12.75	11.00	85,000	17,286	20.0
† WDRS480-TH	8.000	0.50	2.00	1.00	14.50	12.75	11.00	85,000	17,100	20.0
WD-580	8.000	0.50	2.00	1.00	14.50	12.75	11.00	70,000	10,000	20.0

*Also available in 1" pin diameter.

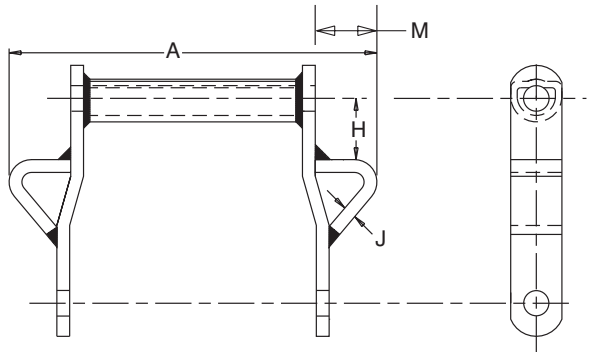
Heavy Duty and “Thick barrel” Style Drag Chain

All dimensions in inches unless otherwise stated.

Chain Number	Pitch P	Sidebars		Pin Dia. D	Chain Width		Effective Distance Between Welds B	Ultimate Strength (lbs.)	Maximum Allowable Load (lbs.)	Approx. Weight (lbs./ft.)
		Thickness T	Height H		Overall L	Length of Bearing E				
WD-120XHD	6.000	0.63	2.00	1.00	12.75	10.50	8.75	122,000	24,000	22.5
WD-118XHD	8.000	0.63	2.00	1.00	17.38	15.13	11.00	122,000	24,000	22.5
WD-122XHD	8.000	0.63	2.00	1.00	12.75	10.50	8.75	122,000	24,000	19.5
WD-480XHD	8.000	0.63	2.00	1.00	15.25	13.00	11.00	122,000	24,000	21.0
† WDRS480XHD-TH	8.000	0.63	2.00	1.00	15.25	13.00	11.00	122,000	24,000	23.0

†-“Thick barrel” style

Folded Wing Attachment



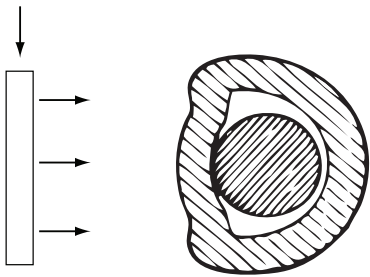
All dimensions in inches unless otherwise stated.

Chain Number	A *	H	J	M
WD-102	14.50	1.50	0.38	3.25
WD-104	12.00	2.25	0.38	3.38
WD-110	17.00	2.25	0.38	3.38
WD-112	17.00	2.25	0.38	3.38
WD-113	17.00	2.25	0.38	3.38
WD-116	22.00	2.50	0.38	3.94
WD-118	22.00	2.50	0.50	3.56
WD-120	17.00	2.50	0.50	3.38
WD-122	17.00	2.50	0.50	3.38
WD-480	22.00	2.50	0.50	4.63
WD-120XHD	17.25	2.50	0.50	3.25
WD-118XHD	22.25	2.50	0.50	3.44
WD-480XHD	22.25	2.50	0.50	4.50

*The nominal dimension is shown in the chart.
Please specify exact width required when order is placed.

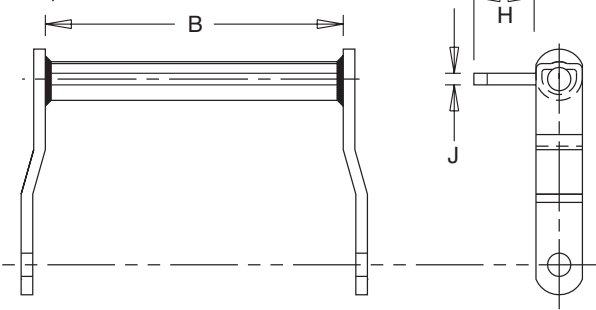
C1/2, C1, C-3 and C-4 Attachments

C-1/2 Attachments



End view of drag chain barrel
C-1/2 is welded to barrel face.

C-1, C-3 and C-4 Attachments



All dimensions in inches unless otherwise stated.

Chain Number	C-1/2*			C-1			C-3			C-4		
	B	J	H	B	J	H	B	J	H	B	J	H
WD-102	6.75	0.38	1.50	6.75	0.38	1.50	6.75	0.38	1.75	6.75	0.38	3.00
WD-104	4.50	0.38	1.50	4.50	0.38	1.50	4.50	0.38	1.75	4.50	0.38	3.00
WD-110	9.25	0.38	1.50	9.25	0.38	1.50	9.25	0.38	1.75	9.25	0.38	3.00
WD-112	9.25	0.38	1.50	9.25	0.38	1.50	9.25	0.38	1.75	9.25	0.38	3.00
WD-113	9.00	0.50	1.50	9.00	0.50	1.75	9.00	0.50	1.75	9.00	0.50	4.00
WD-116	13.00	0.38	1.75	13.00	0.38	1.75	13.00	0.38	1.75	13.00	0.38	4.00
WD-118	13.50	0.50	2.00	13.50	0.50	1.75	13.50	0.50	2.00	13.50	0.50	4.00
WD-120	9.00	0.50	2.00	9.00	0.50	1.75	9.00	0.50	2.00	9.00	0.50	4.00
WD-122	9.00	0.50	2.00	9.00	0.50	1.75	9.00	0.50	2.00	9.00	0.50	4.00
WD-480	11.50	0.50	2.00	11.50	0.50	1.75	11.50	0.50	2.00	11.50	0.50	4.00

*Note: C-1/2 attachments are welded on front barrel. C-1, C-3, C-4 attachments are welded on top of barrel. C-1/2 attachments do not extend above sidebar height.

WELDED STEEL CHAIN TECHNICAL DISCUSSION

Application: Outdoor Chip Conveyor
Savings: \$16,300.00
Tsubaki solution: Downtime savings were realized on this outdoor conveyor with Tsubaki life resulting in 14 months compared to previous brand at 6 months.

It really mattered to this Tsubaki customer

COST SAVINGS!

STRENGTH

Why/when do you use 1" pin for drag chain vs standard (.88)?

A larger diameter pin will decrease the bearing pressure of the same chain as the forces are spread over a larger surface. This allows the chain to withstand larger loads over the same chain footprint. Basically, a larger pin will allow larger tensions and loads to be transmitted by the same chain over a smaller pin diameter.

Why go with Thick barrel?

Thick barrel has the same strength as the WDH480 base chain except that it comes complete with a thicker barrel. This added thickness provides extra strength, resistance to crushing forces and additional life as the barrel will have more material to wear through.

CORROSION

What options are available to eliminate corrosion?

Welded steel chains are generally used in very demanding applications. These applications are often outdoors, creating an environment conducive to corrosion. In order to eliminate corrosion, a plating or coating can be used to prevent and/or reduce the rate of corrosion. Tsubaki's ACC (Anti-Corrosion Coating) can be applied to assembled chain to maximize the life of your chains.

WEAR

Why/when use IBR, IBRS?

IBR/IBRS (Induction Hardened Barrels & Rivets, Sideplates) is a heat treatment that will give a chain increased wear properties. The parts are initially through hardened and then induction hardened to a higher hardness, which will allow the parts to wear longer in abrasive conditions.

What is considered the proper direction of travel open end or closed end and why?

There is no rule for the proper direction of chain travel. For interference concerns, the barrel end should be run first so that if the chain contacts something, it will be pushed out of the way rather than pulled in and potentially jam the chain or damage the chain and/or other parts. For wear concerns, it is recommended that the open end be run first. This causes a reduction in sprocket wear as the motion between the chain and sprocket tooth is reduced. The wear is reduced by restricting the joint articulation to the pin-barrel, which is best able to withstand this type of wear.

Should conveyor troughs be flared and what are the benefits?

Conveyor troughs should be flared so that the chain will enter and exit the conveyor smoothly. This will avoid the chain wearing unevenly and/or getting jammed on any part of the entry or exit of the conveyor.

What are the advantages of full face sprockets vs. A plates?

Advantage of full face sprockets over "A" style is that they support the chain and its attachments over a greater surface area of the barrel. This ensures that the stress of the load is not concentrated in a smaller area of the chain and can help reduce fatigue-type failures on the barrels.

What is the recommended clearance between trough and wing attachments?

It is best to have no more than a 1/2" clearance between the inside trough edge and the outer edge of a chain. This includes any attachment that has been welded to the chain. Ensure that the chain and trough are aligned and that the chain does not move from side to side under normal operating conditions.

INSTALLATION

Can Tsubaki chain be joined with another manufacturer's chain?

Tsubaki WSC chain is interchangeable with other manufacturers of WSC. It is best to use the same manufacturer's rivet and corresponding sidebars for assurance of a premium fit.

How can I speed up and facilitate chain assembly and disassembly?

Tsubaki of Canada manufactures a specifically designed tool, the ECCT, for easy assembly and disassembly while in the field. See page 46 for details.

When my chain starts stretching and needs changing, what else should I check?

Upon changing the chain it is best to change the sprocket at the same time to ensure that all components wear evenly. Putting a new chain on used sprockets, even if they look to be in fair condition, can have adverse effects on the new chain's lifespan. While the chain is off of the conveyor, it is recommended to check all points of the infrastructure, troughs, beds, sprocket teeth/alignment and take-up systems to ensure all parts are in good working order.

What is the maximum recommended elongation for mill/drag chains?

2% - 3% elongation is where the chain should be replaced. Of course, elaborate take-up systems can be adjusted to ensure a chain can be run even longer but wear of individual components such as the pin and barrel will surpass an acceptable wear limit and the chain's load ratings will be compromised. In addition, if the chain is sliding in a trough and the sidebar height is reduced by 5% or more, the chain should be replaced.





Tsubaki has a better way to assemble and disassemble your valuable chain.

When you have to assemble and disassemble engineering class chain in a mission critical environment, time is of the essence. You want to get back into operation without delay. But why risk damage to chain or personal injury by attacking the job with a blunt instrument? Nobody knows more about chain than Tsubaki and that includes service and maintenance, of course. That's why we have developed a patented ECCT tool. A portable tool designed to get that tough job done fast, precise, safe and without damaging your valuable chain, thereby jeopardizing the application. Put your hammer down and reach for the Tsubaki ECCT tool the next time you need to assemble or disassemble chain. That job has just become a lot easier and safer.

Sample of chain sizes that are suitable are as follows:

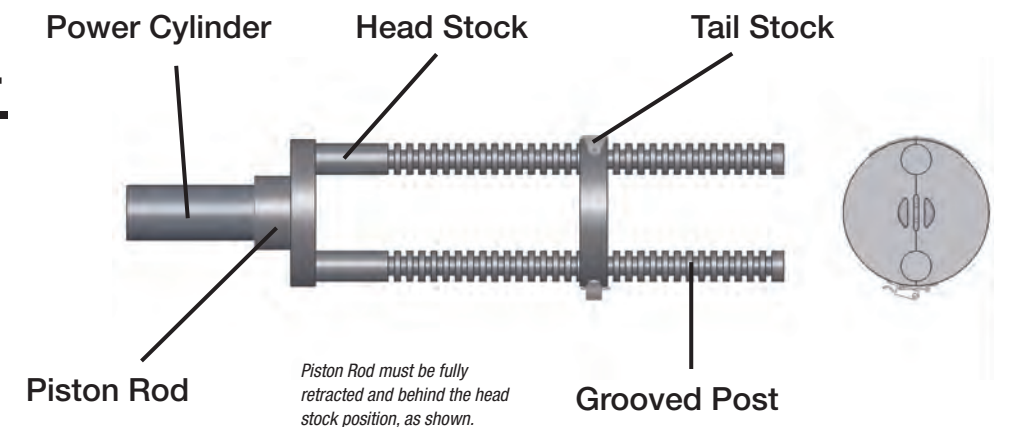
Mill Chain:
82, 124, 111, 106, 110, 132

Drag Chain:
102, 104, 110, 112, 116, 480

Standard:
CC5

No Impact. Just 5 easy steps with ECCT.

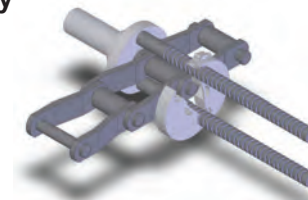
Below are the basic steps for using the Tsubaki ECCT. Complete instructions are included with the tool.



- 1** Start with the ECCT Tool aligned so that the posts are in the vertical position with one post directly over top of the other post.

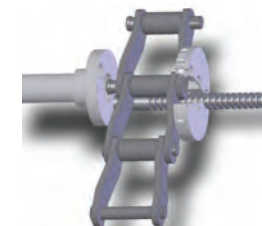
2 Disassembly/Assembly

- a) To disassemble, grind off peened end of the chain pin. Open the tail end stock and adjust along the posts as needed to the appropriate position for the chain that you wish to disassemble. It is not critical that the chain be tight to the head and tail stocks as the piston rod will move out to meet the chain. 1/2"-1" space is recommended. To continue disassembly, go to Step 3.



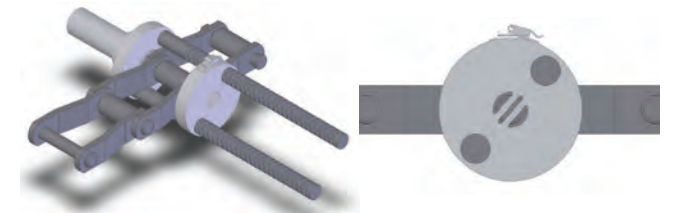
Open tail stock and adjust to the chain width

- b) To assemble, loosely install the pin into the chain, open the tail stock and adjust along the posts to the appropriate position for the chain that you wish to assemble. It is not critical that the chain be tight to the head and tail stocks as the piston rod will move out to meet the pin. To continue assembly go to Step 3.



Ensure that there is enough room to adjust the chain pin position as needed

- 3** Rotate the entire ECCT tool until the top and bottom posts contact the chain at the top and bottom as shown below.



4 Disassembly/Assembly

- a) To disassemble, continue applying pressure until the pin breaks the press fit on the chain. You will hear "pop or breaking" sounds when this happens. Ensure that the pin has broken the press fit completely. To continue disassembling chain, go to step 5.
- b) To assemble, continue to apply pressure until pin seats completely into the chain. There should be no gap between pin head and link plate. To continue assembling go to Step 5.

- 5** Release the hydraulic pressure, returning the piston rod to the relaxed position. Open the tail stock and remove the chain.



SPROCKETS

When quality really matters

Tsubaki Precision Manufacturing

Seamless excellence from concept to market.
Largest sprocket manufacturing facility in Canada.

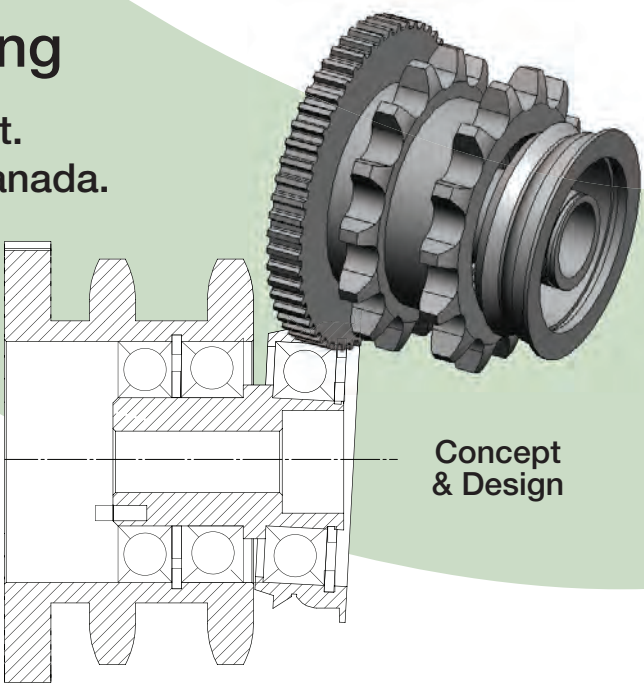
These are the concepts we live:

Dantotsu, a better than best mentality to produce the utmost in quality.

Kaizen, a total company involvement focusing on continuous workplace improvement.

5S, workplace management to improve safety, increase worker efficiency, and to achieve a sense of pride and ownership.

ISO, 9001-2008 registered.



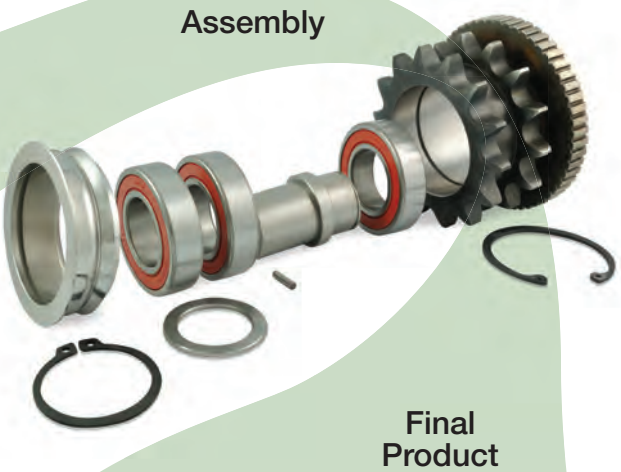
Concept
& Design



Raw
Materials
Maximize material
suitability

In
Process
Precision
& Accuracy

Final
Component
Quality
& Reliability



Assembly

Final
Product



Sprocket Options

- Bore Options – Plain, Finished, Bushing Style including Split Taper, QD and Taper Lock, Keyless Locking Device/Power Lock, Spline, Idler including bronze, bearing, plastic, hex bore, square bore.
- Material – Carbon, Stainless, Alloy, Quench & Tempered (QT), Plastic.
- Styles – Roller Chain & Engineered Class.
- Value Added Options – Mud Relief, Wear Indicator, Adjustable, Encoder mounting holes, encoder flags, Integrate separate components (sprocket-clutch), lubrication holes and grooves.
- Construction Options – Split Segmental Rim

Wear Indicators

Sprocket wear is one of the leading causes of premature chain failure. When you can't waste valuable machine time inspecting sprockets, trust Tsubaki wear indicators to remove the guesswork.

Patent information: Canada 2429302, USA 7018313

Timing Pulley Options

- Aluminum, Steel, Stainless
- Poly-Chain GT2™, HTD, Trapezoid
- Zinc Plating, Brass Pulley

*Poly-Chain GT2™ is a trademark of the Gates Corporation.



Capacities & Machining Centres

- Local manufacturing means rapid turnaround of your unique products and requirements.
- Raw material sourcing
 - Local daily delivery of plate and bar
 - Forged ring
- Turning
- Milling
- Cutting
 - Machining
- Hobber
- Gasher
 - Flame Cut
- Slotting & Broaching
 - Spline
 - Keyway
- Heat Treat
 - Induction
 - Flame
 - Tempering & Quenching
- Finishing
 - Paint/Powder Coat/Oxide/Plate/Vibra-Finish



Design

- Design from sample
- Design Studies – Mechanical property testing
- Prototype development
- Understands your need for unique and custom design
- 3D Modeling (SolidWorks) software. Can be integrated into your assembly drawing.

Reliability

- The assurance that your unique designs will be manufactured to order.

Engineering Support

- Improvement to current design
 - Optimization of material selection
 - Value added additions
 - Review of geometry and profile to suit application requirement
- Engineering report using 3rd party analysis
- Reverse Engineering

Inventory Support

- Tsubaki will stock to suit your blanket order requirements.
 - Draw inventory as your product requires
 - Peace of mind security: assurance that your inventory will be available when you need it
- Tap into Tsubaki's global supply chain network and resources.

NO. 80 FINISHED BORE 1" PITCH

NO. 80 MULTIPLE STRAND 1" PITCH

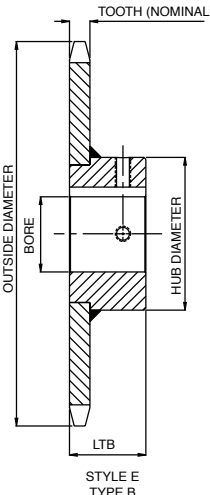
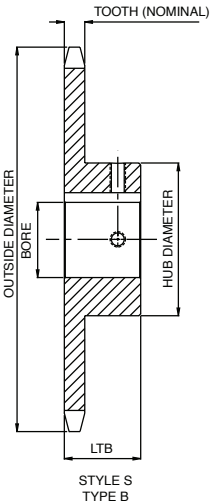
When experience really matters

All dimensions in inches unless otherwise stated.

No. Teeth	Catalogue Number	Style	Sprocket Diameters 1" Pitch			Stock finished bores (including keyway and 2 set screws)
			Outside Dia.	Pitch Dia.	Caliper Dia.	
9	H80B9F	S	3.348	2.924	2.254	1 11⁄8 13⁄16 1¼
10	H80B10F	S	3.678	3.236	2.611	1 11⁄8 13⁄16 1¼
11	H80B11F	S	4.006	3.550	2.888	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8*
12	H80B12F	S	4.332	3.864	3.239	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾
13	H80B13F	S	4.657	4.179	3.523	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16*
14	H80B14F	S	4.981	4.494	3.869	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16*
15	H80B15F	S	5.304	4.810	4.158	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16
16	H80B16F	E	5.627	5.126	4.501	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16
17	H80B17F	E	5.949	5.442	4.794	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16
18	H80B18F	E	6.271	5.759	5.134	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16
19	H80B19F	E	6.593	6.076	5.430	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16
20	H80B20F	E	6.914	6.392	5.767	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
21	H80B21F	E	7.235	6.710	6.066	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
22	H80B22F	E	7.555	7.027	6.402	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
23	H80B23F	E	7.876	7.344	6.702	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
24	H80B24F	E	8.196	7.661	7.036	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
25	H80B25F	E	8.526	7.979	7.338	1 11⁄8 13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
26	H80B26F	E	8.836	8.296	7.671	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
27	H80B27F	E	9.156	8.614	7.974	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
28	H80B28F	E	9.475	8.931	8.306	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
29	H80B29F	E	9.795	9.249	8.611	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
30	H80B30F	E	10.114	9.567	8.942	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
31	80B31F	E	10.434	9.884	9.247	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
32	80B32F	E	10.753	10.202	9.577	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
33	80B33F	E	11.073	10.520	9.883	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
34	80B34F	E	11.392	10.838	10.213	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
35	80B35F	E	11.711	11.156	10.520	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
36	80B36F	E	12.030	11.474	10.849	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
37	80B37F	E	12.349	11.792	11.156	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
38	80B38F	E	12.668	12.110	11.485	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
39	80B39F	E	12.987	12.428	11.792	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
40	80B40F	E	13.306	12.746	12.121	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
41	80B41F	E	13.625	13.064	12.429	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
42	80B42F	E	13.944	13.382	12.757	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
43	80B43F	E	14.263	13.700	13.065	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
44	80B44F	E	14.582	14.018	13.393	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
45	80B45F	E	14.901	14.336	13.702	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
46	80B46F	E	15.219	14.654	14.029	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
47	80B47F	E	15.538	14.972	14.338	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
48	80B48F	E	15.857	15.290	14.665	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
49	80B49F	E	16.176	15.608	14.975	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
50	80B50F	E	16.495	15.926	15.301	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
51	80B51F	E	16.813	16.244	15.611	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
52	80B52F	E	17.132	16.562	15.937	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
53	80B53F	E	17.451	16.880	16.248	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
54	80B54F	E	17.769	17.198	16.573	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
55	80B55F	E	18.088	17.516	16.884	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
56	80B56F	E	18.407	17.835	17.210	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
57	80B57F	E	18.725	18.153	17.521	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
58	80B58F	E	19.044	18.471	17.846	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
59	80B59F	E	19.363	18.789	18.157	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16
60	80B60F	E	19.681	19.107	18.482	13⁄16 1¼ 13⁄16 17⁄16 1½ 15⁄8 1¾ 115⁄16 2 23⁄16 27⁄16 215⁄16

Hub diameters may vary to suit bore sizes. All finished bore sprockets are manufactured with keyway centerline of tooth.

* Indicates set screw at 90° and 180° from keyway.



Dimensional Data	
Single Strand Chain	80
Size	80
Pitch	1.000"
Chain Inside Width	0.625"
Roller Diameter	0.625"
Nominal Tooth Width	0.575"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

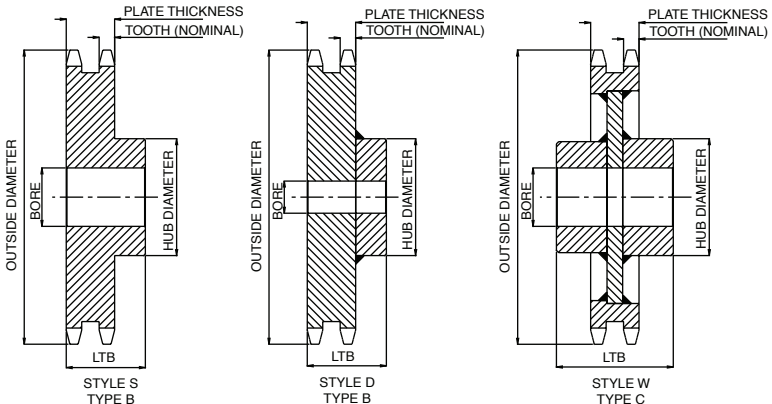
Sprockets with catalogue numbers that begin with "H" have hardened teeth (Rockwell C35 minimum).

All dimensions in inches unless otherwise stated.

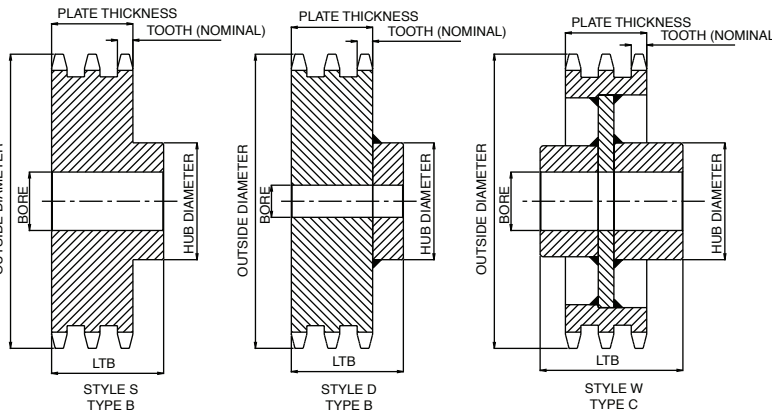
Sprocket Diameters 1" Pitch					80-2 Double Strand (Type B and C)							80-3 Triple Strand (Type B and C)						
No. Teeth	Outside Dia.	Pitch Dia.	Caliper Dia.	Stock Bore	Catalogue Number	Type	Style	†Max Bore	*Hub Diameter	LTB	Weight (lbs.)	Catalogue Number	Type	Style	†Max Bore	*Hub Diameter	LTB	Weight (lbs.)
10	3.678	3.236	2.611	1	HD80B10	B	S	1⅜	2⅞ C	2¾	3.50							
11	4.006	3.550	2.888	1	HD80B11	B	S	1⅞	2⅜	2½	3.90	HT80B11	B	S	1⅞	2⅜	3⅝	5.7
12	4.332	3.864	3.239	1	HD80B12	B	S	1⅞	2⅞	2½	4.90	HT80B12	B	S	1⅞	2⅞	3⅝	7.2
13	4.657	4.179	3.523	1	HD80B13	B	S	2	3⅜	2½	6.10	HT80B13	B	S	2	3⅜	3⅝	8.9
14	4.981	4.494	3.869	1	HD80B14	B	S	2¼	3⅞	2½	7.30	HT80B14	B	S	2¼	3⅞	3⅝	10.7
15	5.304	4.810	4.158	1	HD80B15	B	S	2½	3⅞	2½	8.70	HT80B15	B	S	2½	3⅞	3⅝	12.7
16	5.627	5.126	4.501	1	HD80B16	B	S	2¾	4	2¾	11.10	HT80B16	B	S	2¾	4	3⅞	15.8
17	5.949	5.442	4.794	1	HD80B17	B	S	2⅞	4⅞	2¾	12.80	HT80B17	B	S	2⅞	4⅞	3⅞	18.3
18	6.271	5.759	5.134	1	HD80B18	B	S	3⅞	4⅞	2¾	14.60	HT80B18	B	S	3⅞	4⅞	3⅞	20.9
19	6.593	6.076	5.430	1	HD80B19	B	S	3⅞	4⅞	2¾	16.60	HT80B19	B	S	3⅞	4⅞	3⅞	23.8
20	6.914	6.392	5.767	1	HD80B20	B	S	3⅞	5	2¾	18.20	HT80B20	B	S	3⅞	5	3⅞	26.2
21	7.235	6.710	6.066	1	HD80B21	B	S	3⅞	5	2¾	19.60	HT80B21	B	S	3⅞	5	3⅞	28.6
22	7.560	7.027	6.402	1	HD80B22	B	S	3⅞	5	2¾	21.00	HT80B22	B	S	3⅞	5	3⅞	31.0
23	7.880	7.344	6.702	1	HD80B23	B	S	3⅞	5	2¾	22.80	HT80B23	B	S	3⅞	5	3⅞	34.0
24	8.196	7.661	7.036	1⅞	HD80B24	B	S	3⅞	5	2¾	24.70	HT80B24	B	S	3⅞	5	3⅞	34.6
25	8.520	7.979	7.338	1⅞	HD80B25	B	S	3⅞	5	2¾	28.30	HT80B25	B	S	3¾	5½	4¼	41.0
30	10.114	9.567	8.942	1⅞	HD80B30	B	S	3¾	5½	3	39.50	HT80B30	B	S	3¾	5½	4¼	52.2
36	12.030	11.471	10.849	1⅞	D80B36	B	D	3¾	5½	3⅞	55.10	T80B36	B	D	3¾	5½	4¼	75.1
45	14.901	14.366	13.702	1⅞	D80B45	B	D	3¾	5½	3⅞	85.80	T80C45	C	W	4	6	4½	90.2
48	15.857	15.290	14.665	1⅞	D80C48	C	W	3¾	5½	3¾	68.30	T80C48	C	W	4	6	4½	99.6
60	19.681	19.107	18.482	1⅞	D80C60	C	W	3¾	5½	3¾	91.20	T80C60	C	W	4	6	4½	131.1
80	26.052	25.471	24.846	1⅞	D80C80	C	W	4	6	4	142.80	T80C80	C	W	4	6	4½	192.1

† Dimensions shown allow for standard keyway with set screw at 90°.
C There is a recessed groove in the hub to allow for chain clearance.
* Hub diameter may vary to suit bore size.

Double Strand



Triple Strand



NO. 80 “QD” STYLE 1" PITCH

NO. 80 SINGLE SPLIT TAPER 1" PITCH

When experience really matters

All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B												
1" Pitch																
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	Type	Style	Bushing	Max. Bore	Hub Diameter	LTB	X	Y	L	F	Weight (lbs.)	
11	4.006	3.550	2.888	H80SH11	B	S	SH	1 ⁵ / ₁₆	2 ¹ / ₁₆	1 ³ / ₁₆	1 ³ / ₁₆	1 ³ / ₁₆	1 ⁹ / ₃₂	2 ¹¹ / ₁₆	1.1	
12	4.332	3.864	3.239	H80SH12	B	S	SH	1 ⁵ / ₁₆	2 ³ / ₄	1 ³ / ₁₆	1 ³ / ₁₆	1 ³ / ₁₆	1 ⁹ / ₃₂	2 ¹¹ / ₁₆	1.3	
13	4.657	4.179	3.523	H80SDS13	B	S	SDS	2	3 ³ / ₁₆	3 ⁴ / ₁₆	1 ⁷ / ₁₆	1 ⁷ / ₁₆	4 ³ / ₆₄	3 ³ / ₁₆	1.5	
14	4.981	4.494	3.869	H80SDS14	B	S	SDS	2	3 ³ / ₁₆	3 ⁴ / ₁₆	1 ⁷ / ₁₆	1 ⁷ / ₁₆	4 ³ / ₆₄	3 ³ / ₁₆	1.8	
15	5.304	4.810	4.158	H80SK15	B	S	SK	2 ⁵ / ₁₆	3 ⁷ / ₁₆	1 ¹ / ₄	2 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹⁵ / ₆₄	3 ⁷ / ₁₆	2.5	
16	5.627	5.126	4.501	H80SK16	B	S	SK	2 ⁵ / ₁₆	4 ¹ / ₈	1 ¹ / ₄	2 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹⁵ / ₆₄	3 ⁷ / ₁₆	3.2	
17	5.949	5.442	4.794	H80SK17	B	S	SK	2 ⁵ / ₁₆	4 ³ / ₈	1 ¹ / ₄	2 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹⁵ / ₆₄	3 ⁷ / ₁₆	3.9	
18	6.271	5.759	5.134	H80SK18	B	S	SK	2 ⁵ / ₁₆	4 ³ / ₈	1 ¹ / ₄	2 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹⁵ / ₆₄	3 ⁷ / ₁₆	4.4	
19	6.593	6.076	5.430	H80SK19	B	S	SK	2 ⁵ / ₁₆	4 ³ / ₈	1 ¹ / ₄	2 ¹ / ₁₆	2 ¹ / ₁₆	1 ¹⁵ / ₆₄	3 ⁷ / ₁₆	4.7	
20	6.914	6.392	5.767	H80SF20	B	S	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	5.6	
21	7.235	6.710	6.066	H80SF21	B	S	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	6.1	
22	7.555	7.027	6.402	H80SF22	B	S	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	6.6	
23	7.876	7.344	6.702	H80SF23	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	7.3	
24	8.196	7.661	7.036	H80SF24	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	7.8	
25	8.526	7.979	7.338	H80SF25	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	8.4	
26	8.836	8.296	7.671	H80SF26	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	8.8	
27	9.156	8.614	7.974	H80SF27	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	9.9	
28	9.475	8.931	8.306	H80SF28	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	10.3	
30	10.114	9.567	8.942	H80SF30	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	11.6	
32	10.753	10.202	9.577	80SF32	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	13.3	
33	11.073	10.520	9.833	80SF33	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	13.5	
34	11.392	10.838	10.213	80SF34	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	15.0	
35	11.711	11.156	10.520	80SF35	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	15.7	
36	12.030	11.474	10.849	80SF36	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	16.7	
40	13.306	12.746	12.121	80SF40	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	20.7	
42	13.944	13.382	12.757	80SF42	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	22.6	
45	14.901	14.336	13.702	80SF45	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	25.0	
48	15.857	15.290	14.665	80SF48	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	29.3	
54	17.769	17.198	16.573	80SF54	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	36.6	
60	19.681	19.107	18.482	80SF60	B	E	SF	2 ¹⁵ / ₁₆	5	1 ¹ / ₄	2 ¹ / ₈	2 ¹ / ₈	1 ²³ / ₆₄	4 ⁵ / ₈	45.7	
70	22.867	22.289	21.664	80E70	C	E	E	3 ¹ / ₂	6 ¹ / ₄	1 ⁵ / ₈	2 ⁵ / ₈	2 ¹⁵ / ₁₆	7 ⁵ / ₈	6	61.9	
72	23.504	22.926	22.301	80E72	C	E	E	3 ¹ / ₂	6 ¹ / ₄	1 ⁵ / ₈	2 ⁵ / ₈	2 ¹⁵ / ₁₆	7 ⁵ / ₈	6	63.0	
80	26.052	25.471	24.846	80E80	C	E	E	3 ¹ / ₂	6 ¹ / ₄	1 ⁵ / ₈	2 ⁵ / ₈	2 ¹⁵ / ₁₆	7 ⁵ / ₈	6	80.0	
84	27.326	26.744	26.119	80E84	C	E	E	3 ¹ / ₂	6 ¹ / ₄	1 ⁵ / ₈	2 ⁵ / ₈	2 ¹⁵ / ₁₆	7 ⁵ / ₈	6	91.0	
96	31.147	30.563	29.938	80E96	C	E	E	3 ¹ / ₂	6 ¹ / ₄	1 ⁵ / ₈	2 ⁵ / ₈	2 ¹⁵ / ₁₆	7 ⁵ / ₈	6	116.0	
112	36.241	35.655	35.030	80F112	C	E	F	3 ¹⁵ / ₁₆	7	2 ¹ / ₂	3 ⁵ / ₈	4	1	6 ⁵ / ₈	170.0	

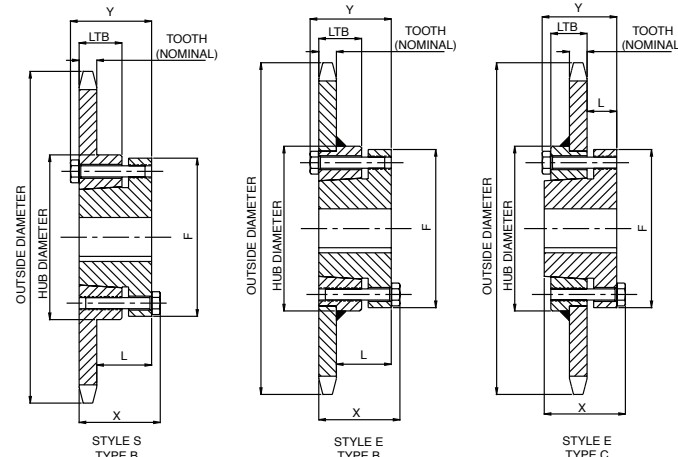
Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

“QD” Style Bushings				
Bore Range (inches)				
Bushing	Standard Keyway	Shallow Keyway	Without Keyway	Weight (lbs.)
SH	1/2 - 1 1/8	1 1/16 - 1 5/16	1 11/16	0.7
SDS	1/2 - 2	1 11/16 - 1 5/16	2	1.0
SK	1/2 - 2 5/8	2 3/16 - 2 1/2	2 5/8 - 2 5/8	2.1
SF	1/2 - 2 15/16	2 5/16 - 2 15/16	2 13/16 - 2 15/16	3.1
E	7/8 - 3 1/2	2 15/16 - 3 1/2	-	7.1
F	1 - 4	3 5/16 - 3 15/16	4	8.7

Dimensional Data	
Single Strand Chain	80
Size	80
Pitch	1.000"
Chain Inside Width	0.625"
Roller Diameter	0.625"
Nominal Tooth Width	0.575"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

Sprockets with catalogue numbers that begin with “H” have hardened teeth (Rockwell C35 minimum).



Dimensional Data	
Single Strand Chain	80
Size	80
Pitch	1.000"
Chain Inside Width	0.625"
Roller Diameter	0.625"
Nom. Tooth Width	0.575"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

Sprockets with catalogue numbers that begin with “H” have hardened teeth (Rockwell C35 minimum).

All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B										
1" Pitch														
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	Style	Hub	LTB	LTB Bushing (L)	OL	P	M	C	H	Weight (lbs.)
10	3.678	3.236	2.611	H80H10	H1	3	1 1/2	1 1/4	2 3/32	1 21/64	0.575	21/32	2 1/2	1.2
11	4.006	3.550	2.888	H80H11	H1	3	1 1/2	1 1/4	1 1/2	3/4	0.575	1/16	2 1/2	1.3
11	4.006	3.550	2.888	H80P11	P1	4	1 1/2	1 15/16	2 11/32	1 17/32	0.575	5/32	3	1.6
12	4.332	3.864	3.239	H80P12	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	2.0
13	4.657	4.179	3.523	H80P13	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	2.4
14	4.981	4.494	3.869	H80P14	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	2.6
14	4.981	4.494	3.869	H80Q14	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	3 7/8	2.9
15	5.305	4.810	4.158	H80P15	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	3.0
15	5.305	4.810	4.158	H80Q15	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	3 7/8	3.4
16	5.627	5.126	4.501	H80P16	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	3.5
16	5.627	5.126	4.501	H80Q16	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	3 7/8	4.6
17	5.950	5.442	4.794	H80P17	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	3.8
17	5.950	5.442	4.794	H80Q17	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	3 7/8	5.3
18	6.271	5.759	5.134	H80P18	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	4.4
18	6.271	5.759	5.134	H80Q18	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	6.0
19	6.593	6.076	5.430	H80P19	P1	4	1 5/16	1 15/16	2 3/16	1 3/8	0.575	-	3	4.9
19	6.593	6.076	5.430	H80Q19	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	6.5
20	6.914	6.392	5.767	H80Q20	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	7.0
21	7.235	6.710	6.066	H80Q21	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	7.3
22	7.555	7.027	6.402	H80Q22	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	8.2
23	7.876	7.344	6.702	H80Q23	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	8.8
24	8.196	7.661	7.036	H80Q24	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	9.1
25	8.516	7.979	7.338	H80Q25	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	9.6
26	8.836	8.296	7.671	H80Q26	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	10.6
27	9.156	8.614	7.974	H80Q27	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	10.9
28	9.475	8.931	8.306	H80Q28	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	12.4
29	9.795	9.249	8.611	H80Q29	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	12.6
30	10.114	9.567	8.942	H80Q30	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	13.4
31	10.434	9.884	9.247	80Q31	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	13.9
32	10.753	10.202	9.577	80Q32	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	14.8
33	11.072	10.520	9.883	80Q33	Q1	4	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	15.5

NO. 80 SINGLE SPLIT
TAPER 1" PITCH

NO. 80 DOUBLE SPLIT
TAPER 1" PITCH

When experience really matters

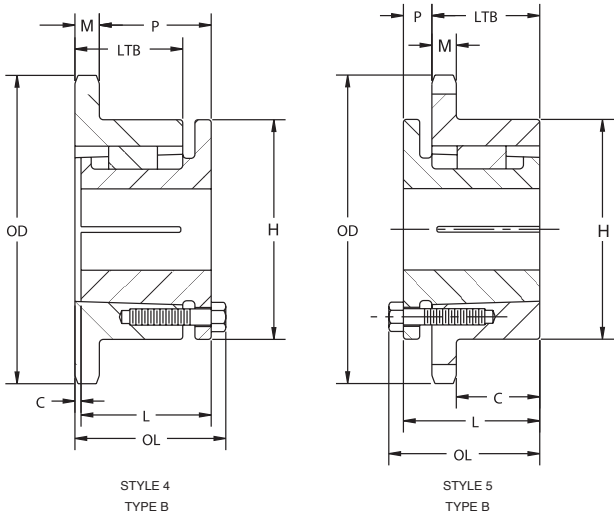
All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B										
1" Pitch				LTB										Weight (lbs.)
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	Style	Hub	LTB	Bushing (L)	OL	P	M	C	H	
34	11.392	10.838	10.213	80Q34	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	16.3
35	11.711	11.156	10.520	80Q35	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	17.8
36	12.030	11.474	10.849	80Q36	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	18.1
36	12.030	11.474	10.849	80R36	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	19.5
37	12.349	11.792	11.156	80Q37	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	18.5
38	12.668	12.110	11.485	80Q38	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	20.0
39	12.987	12.428	11.792	80R39	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	22.8
40	13.306	12.746	12.121	80Q40	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	21.9
40	13.306	12.746	12.121	80R40	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	23.4
41	13.625	13.064	12.429	80R41	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	23.9
42	13.944	13.382	12.757	80Q42	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	23.8
42	13.944	13.382	12.757	80R42	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	25.4
44	14.582	14.018	13.393	80R44	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	27.2
45	14.901	14.336	13.702	80Q45	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	27.8
45	14.901	14.336	13.702	80R45	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	28.5
47	15.538	14.972	14.338	80R47	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	31.0
48	15.857	15.290	14.665	80Q48	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	30.8
48	15.857	15.290	14.665	80R48	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	32.3
50	16.495	15.926	15.301	80R50	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	35.1
54	17.769	17.198	16.573	80Q54	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	38.5
54	17.769	17.198	16.573	80R54	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	40.8
56	18.407	17.835	17.210	80R56	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	44.0
60	19.681	19.107	18.482	80Q60	4	Q1	1 3/4	2 1/2	2 25/32	1 15/16	0.575	-	4 1/2	46.8
60	19.681	19.107	18.482	80R60	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	47.3
70	22.867	22.289	21.664	80Q70	4	Q1	1 3/4	2 1/2	2 25/32	2 5/16	0.575	-	4 1/2	60.0
70	22.867	22.289	21.664	80R70	4	R1	2	2 7/8	3 5/32	2 5/16	0.575	-	5 3/4	63.5
72	23.504	22.926	22.301	80Q72	4	Q1	1 3/4	2 1/2	2 25/32	2 5/16	0.575	-	4 1/2	67.5
72	23.504	22.926	22.301	80R72	5	R1	2	2 7/8	3 5/32	7/8	0.575	1 7/16	5 3/4	69.4
80	26.052	25.471	24.846	80R80	5	R1	2	2 7/8	3 5/32	7/8	0.575	1 7/16	5 3/4	85.0
84	27.326	26.744	26.119	80R84	5	R1	2	2 7/8	3 5/32	7/8	0.575	1 7/16	5 3/4	90.0
96	31.147	30.563	29.938	80R96	5	R1	2	2 7/8	3 5/32	7/8	0.575	1 7/16	5 3/4	110.0
112	36.241	35.655	35.030	80S112	5	S1	3 5/16	4 3/8	4 3/4	1 1/8	0.575	2 3/4	6 3/4	165.0

Construction may not be exactly as shown. Solid or welded construction for sprockets may be substituted. Minor envelope variations may occur. Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

Dimensional Data	
Single Strand Chain	80
Size	80
Pitch	1.000"
Chain Inside Width	0.625"
Roller Diameter	0.625"
Nom. Tooth Width	0.575"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



All dimensions in inches unless otherwise stated.

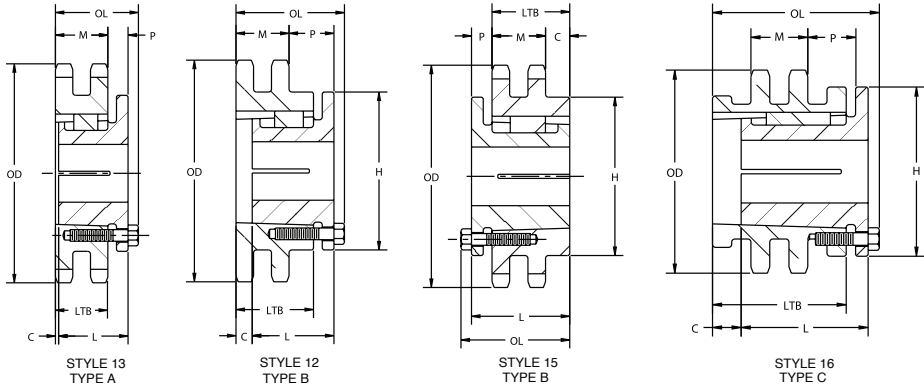
Sprocket Diameters				Type A, B and C											
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	1" Pitch										Weight (lbs.)
					Type	Style	Hub	LTB	Bushing (L)				OL	P	
13	4.657	4.179	3.523	HD80P13	A	13	P1	1.71	1 15/16	2 19/32	5/8	1.710	13/32	-	3.6
14	4.981	4.494	3.869	HD80Q14	C	16	Q2	2 3/4	3 1/2	4 5/8	1 3/4	1.710	27/32	4 1/2	5.4
15	5.305	4.810	4.158	HD80Q15	B	12	Q2	2 3/4	3 1/2	3 25/32	1 3/4	1.710	-	3 7/8	5.4
16	5.627	5.126	4.501	HD80Q16	A	13	Q1	1 3/4	2 1/2	2 25/32	3/4	1.710	-	-	4.8
17	5.950	5.442	4.794	HD80Q17	A	13	Q1	1 3/4	2 1/2	2 25/32	3/4	1.710	-	-	6.0
18	6.271	5.759	5.134	HD80Q18	A	13	Q1	1 3/4	2 1/2	2 25/32	3/4	1.710	-	-	7.3
19	6.593	6.076	5.430	HD80Q19	A	13	Q1	1 3/4	2 1/2	2 25/32	3/4	1.710	-	-	8.5
20	6.914	6.392	5.767	HD80R20	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 1/4	7.8
21	7.235	6.710	6.066	HD80R21	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 1/4	9.4
22	7.555	7.027	6.402	HD80R22	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	10.8
23	7.876	7.344	6.702	HD80R23	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	12.3
24	8.196	7.661	7.036	HD80R24	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	14.1
25	8.516	7.979	7.338	HD80R25	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	15.8
26	8.836	8.296	7.671	HD80R26	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	18.1
27	9.156	8.614	7.974	HD80R27	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	20.4
28	9.475	8.931	8.306	HD80R28	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	22.7
30	10.114	9.567	8.942	HD80R30	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	26.8
36	12.030	11.471	10.849	D80R36	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	41.6
42	13.944	13.382	12.757	D80R42	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	58.0
45	14.901	14.366	13.702	D80R45	B	12	R1	2	2 7/8	3 5/32	1 5/32	1.710	-	5 3/4	68.0
48	15.857	15.290	14.665	D80R48	B	15	R2	4	4 7/8	5 5/32	7/8	1.710	2 9/32	5 3/4	86.0
52	17.132	16.562	15.937	D80R52	B	15	R2	4	4 7/8	5 5/32	7/8	1.710	2 9/32	5 3/4	103.0
54	17.769	17.198	16.573	D80R54	B	15	R2	4	4 7/8	5 5/32	7/8	1.710	2 9/32	5 3/4	111.0
60	19.681	19.107	18.482	D80R60	B	15	R2	4	4 7/8	5 5/32	7/8	1.710	2 9/32	5 3/4	135.0
68	22.230	21.653	21.028	D80R68	B	15	R2	4	4 7/8	5 5/32	7/8	1.710	2 9/32	5 3/4	176.0
72	23.504	22.926	22.301	D80R72	B	15	R2	4	4 7/8	5 5/32	7/8	1.710	2 9/32	5 3/4	198.0
76	24.778	24.198	23.573	D80U76	B	15	U0	3 3/4	5 1/4	5 23/32	1 1/2	1.710	2 1/32	8 1/2	219.0
95	30.828	30.245	29.616	D80U95	B	15	U0	3 3/4	5 1/4	5 23/32	1 1/2	1.710	2 1/32	8 1/2	342.0

Construction may not be exactly as shown. Solid or welded construction for sprockets may be substituted. Minor envelope variations may occur. Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

Dimensional Data	
Double Strand Chain	80
Size	80-2
Pitch	1.000"
Chain Inside Width	0.625"
Roller Diameter	0.625"
Nominal Tooth Width	0.557"
Plate Thickness	1.710"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

Sprockets with catalogue numbers that begin with "H" have hardened teeth (Rockwell C35 minimum).



NO. 100 FINISHED BORE 1 1/4" PITCH

NO. 100 MULTIPLE STRAND 1 1/4" PITCH

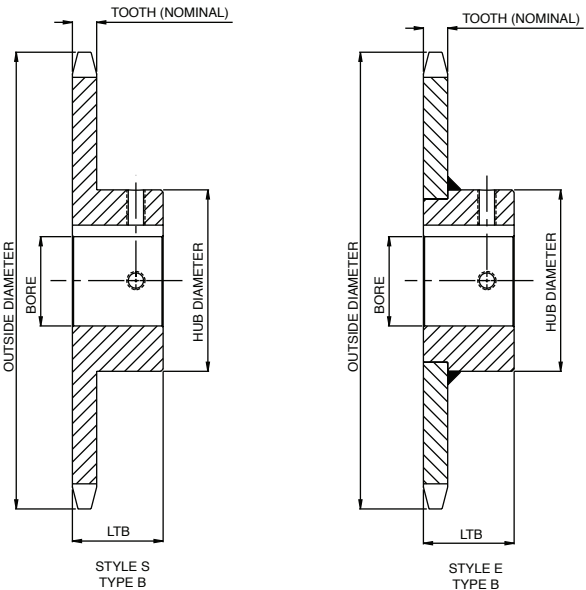
When experience really matters

All dimensions in inches unless otherwise stated.

Sprocket Diameters						Stock finished bores (including keyway and 2 set screws)					
No. of Teeth	Catalogue Number	Style	Outside Diameter	Pitch Diameter	Caliper Diameter						
1 1/4" Pitch											
8	H100B8F	S	3.770	3.266	2.516	1	1 3/16	1 1/4			
9	H100B9F	S	4.185	3.655	2.849	1	1 3/16	1 1/4	1 7/16		
10	H100B10F	S	4.598	4.045	3.295	1	1 3/16	1 1/4	1 7/16		
11	H100B11F	S	5.008	4.438	3.642	1	1 3/16	1 1/4	1 7/16	1 15/16	2 2 3/16
12	H100B12F	S	5.415	4.830	4.080	1	1 3/16	1 1/4	1 7/16	1 15/16	2 2 3/16
13	H100B13F	S	5.821	5.224	4.435	1	1 3/16	1 1/4	1 7/16	1 15/16	2 2 3/16
14	H100B14F	S	6.226	5.618	4.868			1 1/4	1 7/16	1 15/16	2 2 3/16
15	H100B15F	E	6.630	6.013	5.229			1 1/4	1 7/16	1 15/16	2 2 3/16
16	H100B16F	E	7.034	6.408	5.658			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
17	H100B17F	E	7.436	6.803	6.024			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
18	H100B18F	E	7.839	7.199	6.449			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
19	H100B19F	E	8.241	7.595	6.819			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
20	H100B20F	E	8.643	7.990	7.240			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
21	H100B21F	E	9.044	8.388	7.613			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
22	H100B22F	E	9.444	8.784	8.034			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
23	H100B23F	E	9.845	9.180	8.409			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
24	H100B24F	E	10.245	9.576	8.826			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16
25	H100B25F	E	10.645	9.974	9.204			1 1/4	1 7/16	1 15/16	2 2 3/16 2 7/16 2 15/16

Hub diameters may vary to suit bore sizes. All finished bore sprockets are manufactured with keyway centerline of tooth.

Dimensional Data	
Single Strand Chain	100
Size	100
Pitch	1.250"
Chain Inside Width	0.750"
Roller Diameter	0.750"
Nominal Tooth Width	0.692"



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

All dimensions in inches unless otherwise stated.

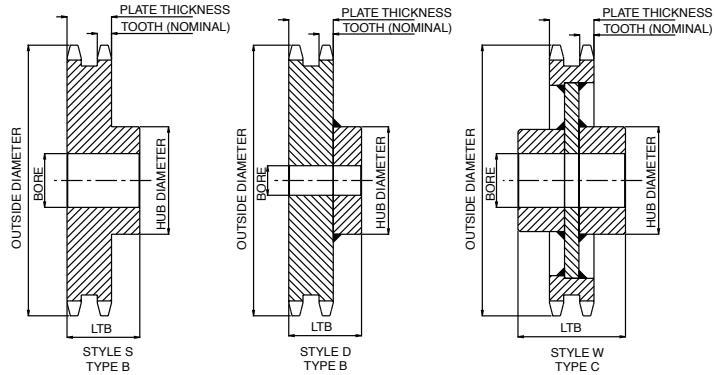
Sprocket Diameters					100-2							100-3						
1 1/4" Pitch					Double Strand (Type B and C)							Triple Strand (Type B and C)						
No. Teeth	Outside Dia.	Pitch Dia.	Caliper Dia.	Stock Bore	Catalogue Number	Type	Style	†Max Bore	*Hub Diameter	LTB	Weight (lbs.)	Catalogue Number	Type	Style	†Max Bore	*Hub Diameter	LTB	Weight (lbs.)
9	4.185	3.655	2.849	1	HD100B9	B	S	1 1/2	2 5/16	2 7/8	4.4							
10	4.598	4.045	3.295	1	HD100B10	B	S	1 3/4	2 11/16	2 7/8	6.0							
11	5.008	4.438	3.642	1	HD100B11	B	S	2 1/8	3 1/8	2 7/8	7.8	HT100B11	B	S	2 1/8	3 1/8	4 1/4	11.5
12	5.415	4.830	4.080	1 1/8	HD100B12	B	S	2 1/4	3 3/8	2 7/8	9.3	HT100B12	B	S	2 1/4	3 3/8	4 1/4	13.6
13	5.821	5.224	4.435	1 1/8	HD100B13	B	S	2 1/2	3 3/4	2 7/8	11.3	HT100B13	B	S	2 1/2	3 3/4	4 1/4	16.7
14	6.226	5.618	4.868	1 1/8	HD100B14	B	S	2 3/4	4 3/16	2 7/8	13.6	HT100B14	B	S	2 3/4	4 3/16	4 1/4	20.2
15	6.630	6.013	5.229	1 1/4	HD100B15	B	S	3 1/8	4 9/16	3 1/8	16.8	HT100B15	B	S	3 1/8	4 9/16	4 1/2	27.5
16	7.034	6.408	5.658	1 1/4	HD100B16	B	S	3 3/16	5	3 1/8	19.7	HT100B16	B	S	3 3/16	5	4 1/2	32.0
17	7.436	6.803	6.024	1 1/4	HD100B17	B	S	3 1/2	5 1/4	3 1/8	22.5	HT100B17	B	S	3 1/2	5 1/4	4 1/2	36.3
18	7.839	7.199	6.449	1 1/4	HD100B18	B	S	3 1/2	5 1/4	3 1/8	24.8	HT100B18	B	S	3 1/2	5 1/4	4 3/4	41.8
19	8.241	7.595	6.819	1 1/4	HD100B19	B	S	3 3/4	5 1/2	3 1/8	29.4	HT100B19	B	D	3 3/4	5 1/2	4 3/4	46.5
20	8.643	7.990	7.240	1 1/4	HD100B20	B	S	3 3/4	5 1/2	3 3/8	32.0	HT100B20	B	D	3 3/4	5 1/2	4 3/4	51.0
21	9.044	8.388	7.613	1 1/4	HD100B21	B	S	3 3/4	5 1/2	3 3/8	34.8	HT100B21	B	D	3 3/4	5 1/2	4 3/4	55.8
22	9.444	8.784	8.034	1 1/4	HD100B22	B	D	3 3/4	5 1/2	3 3/8	37.2	HT100B22	B	D	3 3/4	5 1/2	4 3/4	60.8
23	9.845	9.180	8.409	1 1/4	HD100B23	B	D	3 3/4	5 1/2	3 3/8	40.3	HT100B23	B	D	3 3/4	5 1/2	4 3/4	66.0
24	10.245	9.576	8.826	1 1/4	HD100B24	B	D	3 3/4	5 1/2	3 3/8	43.4	HT100B24	B	D	3 3/4	5 1/2	4 3/4	71.6
25	10.645	9.974	9.204	1 1/4	HD100B25	B	D	3 3/4	5 1/2	3 3/8	46.7	HT100B25	B	D	3 3/4	5 1/2	4 3/4	77.3
26	11.045	10.370	9.620	1 1/4	HD100B26	B	D	3 3/4	5 1/2	3 3/8	50.2	HT100B26	B	D	3 3/4	5 1/2	4 3/4	83.2
30	12.643	11.959	11.209	1 1/4	HD100B30	B	D	3 3/4	5 1/2	3 3/8	65.4	HT100B30	B	D	3 3/4	5 1/2	4 3/4	109.7
35	14.639	13.945	13.181	1 5/8	D100C35	C	W	4	6	4 1/2	88.0	T100C35	C	W	4	6	5	122.7
36	15.038	14.343	13.593	1 5/8	D100C36	C	W	4	6	4 1/2	90.8	T100C36	C	W	4	6	5	137.4
45	18.626	17.920	17.159	1 5/8	D100C45	C	W	4	6	4 1/2	117.7	T100C45	C	W	4	6	5	180.1
60	24.601	23.884	23.134	2	D100C60	C	W	5	7 1/2	5	193.1	T100C60	C	W	5	7 1/2	5	279.7
70	28.584	27.861	27.111	2	D100C70	C	W	5	7 1/2	5	235.0	T100C70	C	W	5	7 1/2	5	343.1
80	32.565	31.839	31.089	2	D100C80	C	W	5	7 1/2	5	281.8	T100C80	C	W	5	7 1/2	5	413.0

† Dimensions shown allow for standard keyway with set screw at 90°.
* Hub diameter may vary to suit bore size.

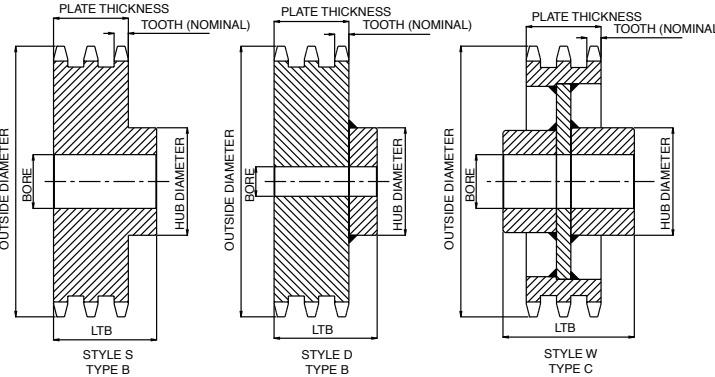
Dimensional Data	
Double Strand Chain	100
Size	100-2
Pitch	1.250"
Chain Inside Width	0.750"
Roller Diameter	0.750"
Nominal Tooth Width	0.669"
Plate Thickness	2.077"
Triple Strand Chain	100
Size	100-3
Pitch	1.250"
Chain Inside Width	0.750"
Roller Diameter	0.750"
Nominal Tooth Width	0.669"
Plate Thickness	3.485"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

Double Strand



Triple Strand



NO. 100 “QD” STYLE 1 1/4" PITCH

NO. 100 SINGLE SPLIT
TAPER 1 1/4" PITCH

When experience really matters

All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B, B ₁ and C											
1¼" Pitch				Catalogue Number	Type	Style	Bushing	Max. Bore	Hub Diameter	LTB	X	Y	L	F	Weight (lbs.)
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter												
11	5.008	4.438	3.642	H100SDS11	B	S	SDS	2	3⅜	¾	17/16	17/16	⅞	3⅜	1.9
12	5.415	4.830	4.080	H100SDS12	B	S	SDS	2	3½	¾	17/16	17/16	⅞	3⅜	2.4
13	5.821	5.224	4.435	H100SK13	B	S	SK	2⅝	315/16	1¼	21/16	21/16	19/64	3⅞	3.3
14	6.226	5.618	4.868	H100SK14	B	S	SK	2⅝	4¼	1¼	21/16	21/16	19/64	3⅞	4.2
15	6.630	6.013	5.229	H100SF15	B	S	SF	215/16	4⅝	1¼	21/8	21/8	115/64	4⅝	4.8
16	7.034	6.408	5.658	H100SF16	B	S	SF	215/16	5	1¼	21/8	21/8	115/64	4⅝	5.9
17	7.436	6.803	6.024	H100SF17	B	S	SF	215/16	5	1¼	21/8	21/8	115/64	4⅝	6.6
18	7.839	7.199	6.449	H100E18	B ₁	S	E	3⅜	515/16	1⅝	2⅝	215/16	113/16	6	8.9
19	8.241	7.595	6.819	H100E19	B ₁	S	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	9.9
20	8.643	7.990	7.240	H100E20	B ₁	S	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	11.4
21	9.044	8.388	7.613	H100E21	B ₁	S	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	12.5
22	9.444	8.784	8.034	H100E22	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	13.3
23	9.845	9.180	8.409	H100E23	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	15.2
24	10.245	9.576	8.826	H100E24	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	16.1
25	10.645	9.974	9.204	H100E25	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	17.0
26	11.045	10.370	9.620	H100E26	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	17.5
27	11.445	10.768	9.999	H100E27	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	19.6
28	11.844	11.164	10.414	H100E28	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	19.9
30	12.643	11.959	11.209	H100E30	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	24.1
32	13.441	12.753	12.003	100E32	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	26.0
35	14.639	13.945	13.181	100E35	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	29.4
36	15.038	14.343	13.593	100E36	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	31.7
40	16.633	15.933	15.183	100E40	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	38.2
42	17.430	16.728	15.978	100E42	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	41.8
45	18.626	17.920	17.159	100E45	B ₁	E	E	3⅜	6¼	1⅝	2⅝	215/16	113/16	6	48.4
48	19.821	19.113	18.363	100E48	B ₁	E	E	3½	6¼	1⅝	2⅝	215/16	113/16	6	56.0
54	22.211	21.498	20.748	100E54	C	E	E	3½	6¼	1⅝	2⅝	215/16	7/8	6	69.0
60	24.601	23.884	23.134	100E60	C	E	E	3½	6¼	1⅝	2⅝	215/16	7/8	6	86.0
70	28.584	27.861	27.111	100F70	C	E	F	315/16	7	2½	3⅝	4	1	6⅝	122.0
72	29.380	28.657	27.908	100F72	C	E	F	315/16	7	2½	3⅝	4	1	6⅝	129.0
80	32.565	31.839	31.089	100F80	C	E	F	315/16	7	2½	3⅝	4	1	6⅝	161.0
84	34.158	33.430	32.680	100F84	C	E	F	315/16	7	2½	3⅝	4	1	6⅝	171.0

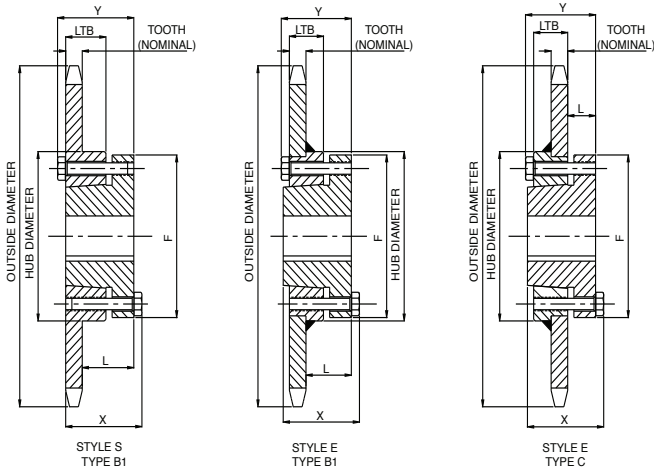
Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

“QD” Style Bushings				
Bushing	Bore Range (inches)			Weight (lbs.)
	Standard Keyway	Shallow Keyway	Without Keyway	
SDS	1/2 - 2	1 11/16 - 1 15/16	2	0.8
SK	1/2 - 2 5/8	2 3/16 - 2 1/2	2 9/16 - 2 5/8	0.7
SF	1/2 - 2 15/16	2 5/16 - 2 15/16	2 3/16 - 2 15/16	1.0
E	7/8 - 3 1/2	2 15/16 - 3 1/2	-	2.1
F	1 - 4	3 5/16 - 3 15/16	4	3.1

Dimensional Data

Single Strand Chain 100
Size 100
Pitch 1.250"
Chain Inside Width 0.750"
Roller Diameter 0.750"
Nominal Tooth Width 0.692"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

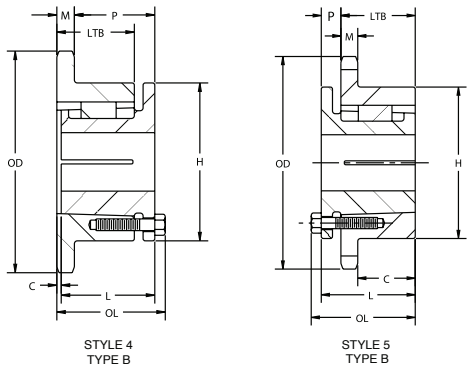


Dimensional Data

Single Strand Chain 100
Size 100
Pitch 1.250"
Chain Inside Width 0.750"
Roller Diameter 0.750"
Nominal Tooth Width 0.692"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

Sprockets with catalogue numbers that begin with “H” have hardened teeth (Rockwell C35 minimum).



All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B										
1 1/4" Pitch				Catalogue Number	Style	Hub	LTB	LTB Bushing (L)				C	H	Weight (lbs.)
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter					OL	P	M				
11	5.007	4.438	3.642	H100P11	4	P1	1 5/16	1 3/16	2 3/16	1 1/4	0.692	-	3	2.8
12	5.415	4.830	4.080	H100Q12	4	Q1	1 3/4	2 1/2	2 27/32	1 7/8	0.692	1/16	3 7/8	3.5
13	5.821	5.224	4.435	H100Q13	4	Q1	1 3/4	2 1/2	2 27/32	1 7/8	0.692	1/16	3 7/8	4.3
14	6.227	5.618	4.868	H100Q14	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	3 7/8	5.6
15	6.631	6.013	5.229	H100Q15	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	6.6
16	7.034	6.408	5.658	H100Q16	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	7.4
17	7.437	6.803	6.024	H100Q17	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	8.2
18	7.839	7.199	6.449	H100Q18	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	9.0
19	8.241	7.595	6.819	H100Q19	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	9.8
20	8.642	7.990	7.240	H100Q20	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	10.9
21	9.043	8.388	7.613	H100Q21	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	11.8
21	9.043	8.388	7.613	H100R21	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	12.1
22	9.444	8.784	8.034	H100Q22	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	12.6
23	9.844	9.180	8.409	H100Q23	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	13.8
24	10.245	9.576	8.826	H100Q24	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	15.4
24	10.245	9.576	8.826	H100R24	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	15.6
25	10.645	9.974	9.204	H100Q25	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	16.0
25	10.645	9.974	9.204	H100R25	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	16.5
26	11.045	10.370	9.620	H100Q26	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	17.3
26	11.045	10.370	9.620	H100R26	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	17.9
27	11.444	10.768	9.999	H100Q27	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	18.0
27	11.444	10.768	9.999	H100R27	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	18.5
28	11.844	11.164	10.414	H100Q28	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	19.6
28	11.844	11.164	10.414	H100R28	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	20.1
30	12.643	11.959	11.209	H100Q30	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	22.4
30	12.643	11.959	11.209	H100R30	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	22.9
32	13.441	12.753	12.003	100Q32	4	Q1	1 3/4	2 1/2	2 25/32	1 13/16	0.692	-	4 1/2	25.3
32	13.441	12.753	12.003	100R32	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	26.5
35	14.639	13.945	13.181	100R35	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	30.2
40	16.633	15.933	15.183	100R40	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	40.9
42	17.430	16.728	15.978	100R42	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	44.3
45	18.626	17.920	17.159	100R45	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	50.5
48	19.821	19.113	18.363	100R48	4	R1	2	2 7/8	3 5/32	2 3/16	0.692	-	5 3/4	57.5
54	22.212	21.498	20.748	100R54	5	R1	2	2 7/8	3 5/32	7/8	0.692	1 5/16	5 3/4	69.0
60	24.601	23.884	23.134	100R60	5	R1	2	2 7/8	3 5/32	7/8	0.692	1 5/16	5 3/4	84.0
70	28.583	27.861	27.111	100R70	5	R1	2	2 7/8	3 5/32	7/8	0.692	1 5/16	5 3/4	104.0

NO. 100 DOUBLE SPLIT
TAPER 1 1/4" PITCH

NO. 120 “QD”
STYLE 1 1/2" PITCH

When experience really matters

All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B and C											
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	Type	Style	Hub	LTB Bushing						Weight (lbs.)	
								L	OL	P	M	C	H		
11	5.007	4.438	3.642	HD100P11	A	14	P1	2.077	1 15/16	2 15/16	5/8	2.077	3/4	-	4.7
12	5.415	4.830	4.080	HD100Q12	B	12	Q2	2 17/32	3 1/2	4 7/32	1 55/64	2.077	7/16	4	5.9
13	5.821	5.224	4.435	HD100Q13	B	12	Q2	2 17/32	3 1/2	4 7/32	1 55/64	2.077	7/16	4	7.9
14	6.227	5.618	4.868	HD100Q14	A	14	Q1	2.077	2 1/2	3 3/32	3/4	2.077	5/16	-	7.4
15	6.631	6.013	5.229	HD100Q15	A	14	Q1	2.077	2 1/2	3 3/32	3/4	2.077	5/16	-	9.1
16	7.034	6.408	5.658	HD100Q16	A	14	Q1	2.077	2 1/2	3 3/32	3/4	2.077	5/16	-	10.9
17	7.437	6.803	6.024	HD100R17	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	10.0
18	7.839	7.199	6.449	HD100R18	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	12.3
19	8.241	7.595	6.819	HD100R19	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	14.9
20	8.642	7.990	7.240	HD100R20	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	17.4
21	9.043	8.388	7.613	HD100R21	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	20.3
22	9.444	8.784	8.034	HD100R22	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	22.8
24	10.245	9.576	8.826	HD100R24	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	29.5
35	14.639	13.945	13.181	D100R35	A	14	R1	2.077	2 7/8	3 7/32	7/8	2.077	1/16	-	76.8
45	18.626	17.920	17.159	D100S45	B	15	S1	3 5/16	4 3/4	4 3/4	1 1/16	2.077	1 15/64	6 3/4	138.0
60	24.601	23.884	23.134	D100S60	B	15	S1	3 5/16	4 3/4	4 3/4	1 1/16	2.077	1 15/64	6 3/4	251.0
70	28.583	27.861	27.111	D100S70	C	18	S2	5 11/16	6 3/4	7 1/8	2 3/16	2.077	2 1/4	6 3/4	358.0
80	32.565	31.839	31.089	D100S80	C	18	S2	5 11/16	6 3/4	7 1/8	2 3/16	2.077	2 1/4	6 3/4	431.0

Construction may not be exactly as shown. Solid or welded construction for sprockets may be substituted. Minor envelope variations may occur. Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

Dimensional Data

Double Strand Chain 100

Size 100-2

Pitch 1.250"

Chain Inside Width 0.750"

Roller Diameter 0.750"

Nominal Tooth Width 0.669"

Plate Thickness 2.077"



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Sprockets with catalogue numbers that begin with “H” have hardened teeth (Rockwell C35 minimum).

All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B, B ₁ and C											
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	Type	Style	Bushing	Max. Bore	Hub Diameter	LTB					Weight (lbs.)
										X	Y	L	F		
12	6.498	5.796	4.921	H120SF12	B	S	SF	2 15/16	4 3/8	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	4.6
13	6.986	6.269	5.347	H120SF13	B	S	SF	2 15/16	4 5/8	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	5.9
14	7.472	6.741	5.866	H120SF14	B	S	SF	2 15/16	5	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	7.3
15	7.956	7.215	6.300	H120SF15	B	S	SF	2 15/16	5	1 1/4	2 3/16	2 3/16	1 1/64	4 5/8	8.1
16	8.441	7.689	6.814	H120E16	B ₁	S	E	3 1/2	6 1/8	1 5/8	2 5/8	2 15/16	1 1/16	6	10.9
17	8.924	8.163	7.254	H120E17	B ₁	S	E	3 1/2	6 1/8	1 5/8	2 5/8	2 15/16	1 1/16	6	12.1
18	9.407	8.639	7.764	H120E18	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	14.7
19	9.890	9.114	8.207	H120E19	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	15.8
20	10.371	9.588	8.713	H120E20	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	18.8
21	10.853	10.065	9.161	H120E21	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	19.3
22	11.333	10.541	9.666	H120E22	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	21.8
23	11.814	11.016	10.115	H120E23	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	23.3
24	12.294	11.492	10.617	H120E24	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	25.7
25	12.774	11.969	11.070	H120E25	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	27.2
26	13.254	12.444	11.569	H120E26	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	30.3
28	14.213	13.397	12.522	H120E28	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	35.2
30	15.171	14.351	13.476	H120E30	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 1/16	6	39.3
32	16.130	15.303	14.428	120F32	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	50.9
35	17.567	16.734	15.842	120F35	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	63.2
36	18.045	17.211	16.336	120F36	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	65.0
40	19.959	19.119	18.244	120F40	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	77.0
42	20.916	20.073	19.198	120F42	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	90.0
45	22.352	21.504	20.615	120F45	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	95.0
48	23.786	22.935	22.060	120F48	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	109.0
54	26.654	25.797	24.922	120F54	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	135.0
60	29.522	28.661	27.786	120J60	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	172.0
70	34.301	33.434	32.559	120J70	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	231.0
80	39.078	38.207	37.332	120J80	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	313.0

Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

“QD” Style Bushings				
Bushing	Bore Range (inches)			Weight (lbs.)
	Standard Keyway	Shallow Keyway	Without Keyway	
SF	1/2 - 2 15/16	2 5/16 - 2 15/16	2 13/16 - 2 15/16	1.0
E	7/8 - 3 1/2	2 15/16 - 3 1/2	-	2.1
F	1 - 4	3 5/16 - 3 15/16	4	3.1
J	1 1/2 - 4 1/2	3 7/8 - 4 9/16	-	16.8

Dimensional Data

Single Strand Chain 120

Size 120

Pitch 1.500"

Chain Inside Width 1.000"

Roller Diameter 0.875"

Nominal Tooth Width 0.924"

60

61

NO. 120 SINGLE SPLIT
TAPER 1 1/2" PITCH

NO. 120 DOUBLE SPLIT
TAPER 1 1/2" PITCH

When experience really matters

All dimensions in inches unless otherwise stated.

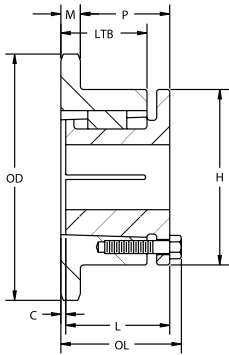
Sprocket Diameters				Type B and C												
		1 1/2" Pitch		LTB Bushing (L)												Weight (lbs.)
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	Type	Style	Hub	LTB	OL	P	M	C	H			
11	6.009	5.325	4.395	H120Q11	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	3 7/8	4.8	
12	6.498	5.796	4.921	H120Q12	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	3 7/8	6.3	
13	6.986	6.269	5.347	H120Q13	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	4 1/2	7.9	
14	7.472	6.741	5.866	H120Q14	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	4 1/2	9.2	
15	7.957	7.215	6.300	H120Q15	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	4 1/2	10.4	
16	8.441	7.689	6.814	H120Q16	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	4 1/2	12.0	
16	8.441	7.689	6.814	H120R16	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	12.2	
17	8.924	8.163	7.254	H120Q17	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	4 1/2	13.9	
17	8.924	8.163	7.254	H120R17	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	13.7	
18	9.407	8.639	7.764	H120Q18	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	4 1/2	15.0	
18	9.407	8.639	7.764	H120R18	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	15.2	
19	9.889	9.114	8.207	H120R19	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	16.9	
20	10.371	9.588	8.713	H120R20	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	18.8	
21	10.852	10.065	9.161	H120R21	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	20.7	
22	11.333	10.541	9.666	H120R22	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	22.5	
23	11.813	11.016	10.115	H120R23	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	24.3	
24	12.294	11.492	10.617	H120R24	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	27.1	
25	12.774	11.969	11.070	H120R25	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	29.1	
26	13.254	12.444	11.569	H120R26	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	33.3	
28	14.213	13.397	12.522	H120R28	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	38.0	
30	15.172	14.351	13.476	H120R30	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	43.3	
32	16.130	15.303	14.428	120R32	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	49.4	
35	17.566	16.734	15.842	120R35	C	6	R2	4	4 7/8	5 5/32	1 15/16	0.924	2	5 3/4	68.0	
36	18.045	17.211	16.336	120R36	C	6	R2	4	4 7/8	5 5/32	1 15/16	0.924	2	5 3/4	72.0	
40	19.959	19.119	18.244	120R40	C	6	R2	4	4 7/8	5 5/32	1 15/16	0.924	2	5 3/4	82.0	
40	19.959	19.119	18.244	120S40	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	83.0	
42	20.916	20.073	19.198	120S42	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	90.0	
45	22.351	21.504	20.615	120R45	C	6	R2	4	4 7/8	5 5/32	1 15/16	0.924	2	5 3/4	102.0	
45	22.351	21.504	20.615	120S45	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	100.0	
48	23.786	22.935	22.060	120S48	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	111.0	
54	26.654	25.797	24.922	120S54	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	138.0	
60	29.522	28.661	27.786	120R60	C	6	R2	4	4 7/8	5 5/32	1 15/16	0.924	2	5 3/4	179.0	
60	29.522	28.661	27.786	120S60	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	180.0	
70	34.300	33.434	32.559	120R70	C	6	R2	4	4 7/8	5 5/32	1 15/16	0.924	2	5 3/4	148.0	
70	34.300	33.434	32.559	120S70	B	5	S2	5 11/16	6 3/4	7 1/8	2 15/16	0.924	2 7/8	6 3/4	167.0	
80	39.078	38.207	37.332	120R80	C	6	R2	4	4 7/8	5 5/32	1 15/16	0.924	2	5 3/4	291.0	
80	39.078	38.207	37.332	120S80	C	6	S2	5 11/16	6 3/4	7 1/8	2 15/16	0.924	2 7/8	6 3/4	305.0	

Construction may not be exactly as shown. Solid or welded construction for sprockets may be substituted. Minor envelope variations may occur. Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

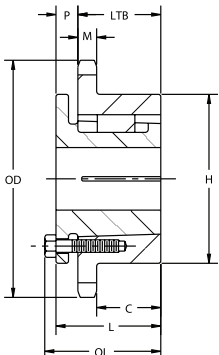
Dimensional Data	
Single Strand Chain	120
Size	120
Pitch	1.500"
Chain Inside Width	1.000"
Roller Diameter	0.875"
Nominal Tooth Width	0.924"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

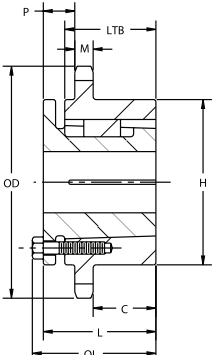
Sprockets with catalogue numbers that begin with "H" have hardened teeth (Rockwell C35 minimum).



STYLE 4
TYPE B



STYLE 5
TYPE B



STYLE 6
TYPE C

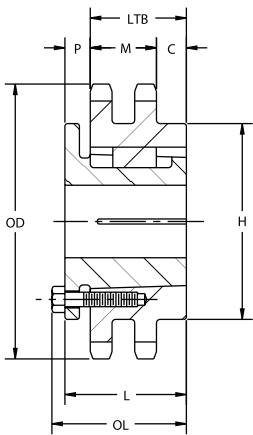
All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B and C											
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	LTB Bushing										
					Type	Style	Hub	LTB	(L)	OL	P	M	C	H	Weight
15	7.957	7.215	6.3	HD120R15	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	22
17	8.924	8.163	7.254	HD120R17	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	31
18	9.407	8.639	7.764	HD120R18	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	35
19	9.889	9.114	8.207	HD120R19	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	41
22	11.333	10.541	9.666	HD120R22	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	57
22	11.333	10.541	9.666	HD120S22	B	15	S1	3 5/16	4 3/8	4 3/4	1 1/16	2.683	5/8	6 3/4	57
23	11.813	11.016	10.115	HD120R23	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	64
24	12.294	11.492	10.617	HD120R24	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	70
25	12.774	11.969	11.07	HD120R25	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	77
26	13.254	12.444	11.569	HD120R26	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	84
26	13.254	12.444	11.569	HD120S26	B	15	S1	3 5/16	4 3/8	4 3/4	1 1/16	2.683	5/8	6 3/4	84
28	14.213	13.397	12.522	HD120R28	A	14	R1	2 11/16	2 7/8	3 13/16	7/8	2.683	-	-	99
30	15.172	14.351	13.476	HD120S30	B	15	S1	3 5/16	4 3/8	4 3/4	1 1/16	2.683	5/8	6 3/4	105
35	17.566	16.734	15.842	D120S35	B	15	S1	3 5/16	4 3/8	4 3/4	1 1/16	2.683	5/8	6 3/4	148
45	22.351	21.504	20.615	D120S45	C	18	S2	5 11/16	6 3/4	7 1/8	2 7/32	2.683	1 27/32	6 3/4	268
60	29.522	28.661	27.786	D120U60	B	15	U0	3 3/4	5 1/4	5 23/32	19/32	2.683	1 9/32	8 1/2	183

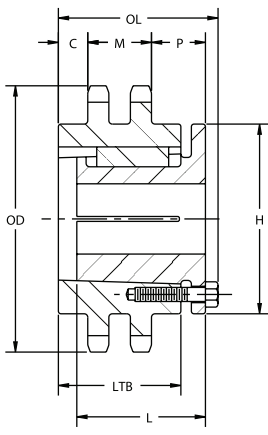
Construction may not be exactly as shown. Solid or welded construction for sprockets may be substituted. Minor envelope variations may occur. Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

Dimensional Data	
Double Strand Chain	120
Size	120-2
Pitch	1.500"
Chain Inside Width	1.000"
Roller Diameter	0.875"
Nominal Tooth Width	0.894"
Plate Thickness	2.683"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



STYLE 15
TYPE B



STYLE 18
TYPE C

NO. 140 “QD” STYLE 1 3/4" PITCH

NO. 140 SPLIT
TAPER 1 3/4" PITCH

When experience really matters

All dimensions in inches unless otherwise stated.

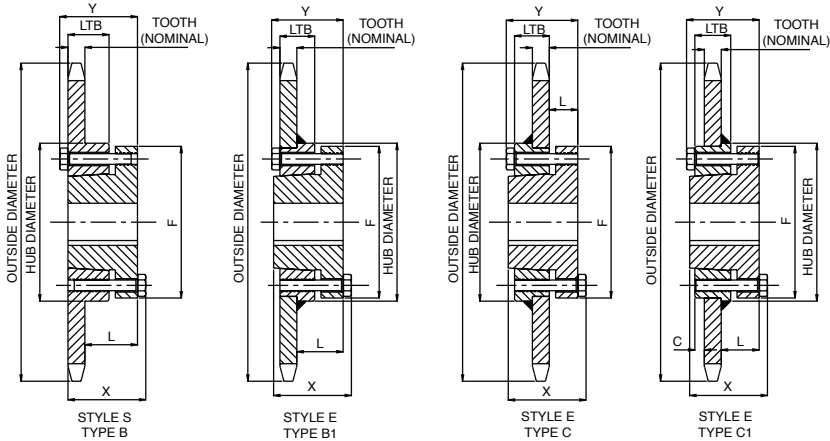
Sprocket Diameters				Type B, B ₁ , C and C ₁											
1 3/4" Pitch				Catalogue Number	Type	Style	Bushing	Max. Bore	Hub Diameter	LTB	X	Y	L	F	Weight (lbs.)
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter												
11	7.011	6.213	5.148	140SF11	B	S	SF	2 15/16	4 7/16	1 1/4	2 3/16	2 3/16	1 1/4	4 5/8	5.5
12	7.581	6.762	5.762	140SF12	B	S	SF	2 15/16	4 7/8	1 1/4	2 3/16	2 3/16	1 1/4	4 5/8	7.2
13	8.150	7.313	6.259	140SF13	B	S	SF	2 15/16	5	1 1/4	2 3/16	2 3/16	1 1/4	4 5/8	8.9
14	8.717	7.865	6.865	140E14	B ₁	S	E	3 1/2	6 1/8	1 5/8	2 5/8	2 15/16	1 5/8	6	11.6
15	9.282	8.418	7.371	140E15	B ₁	S	E	3 1/2	6 1/8	1 5/8	2 5/8	2 15/16	1 5/8	6	13.4
16	9.847	8.971	7.971	140E16	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 5/8	6	15.5
17	10.411	9.524	8.483	140E17	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 5/8	6	17.5
18	10.974	10.078	9.078	140E18	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 5/8	6	20.3
19	11.538	10.633	9.596	140E19	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 5/8	6	21.0
20	12.100	11.186	10.186	140E20	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 5/8	6	24.4
21	12.661	11.743	10.709	140E21	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 5/8	6	27.2
22	13.221	12.297	11.297	140E22	B ₁	E	E	3 1/2	6 1/4	1 5/8	2 5/8	2 15/16	1 5/8	6	29.4
23	13.783	12.852	11.822	140F23	B ₁	E	F	3 15/16	7	2 1/2	3 5/8	4	2 5/8	6 5/8	36.9
24	14.343	13.407	12.407	140F24	B ₁	E	F	3 15/16	7	2 1/2	3 5/8	4	2 5/8	6 5/8	41.1
25	14.903	13.963	12.935	140F25	B ₁	E	F	3 15/16	7	2 1/2	3 5/8	4	2 5/8	6 5/8	42.6
26	15.463	14.518	13.518	140F26	B ₁	E	F	3 15/16	7	2 1/2	3 5/8	4	2 5/8	6 5/8	46.7
30	17.700	16.742	15.742	140F30	B ₁	E	F	3 15/16	7	2 1/2	3 5/8	4	2 5/8	6 5/8	50.6
35	20.494	19.523	18.503	140F35	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	75.0
36	21.053	20.080	19.080	140F36	C	E	F	3 15/16	7	2 1/2	3 5/8	4	1	6 5/8	79.0
40	23.286	22.306	21.306	140J40	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	105.0
45	26.077	25.088	24.072	140J45	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	140.1
48	27.750	26.758	25.758	140J48	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	148.0
54	31.096	30.097	29.097	140J54	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	178.0
60	34.442	33.437	32.437	140J60	C	E	J	4 7/16	8	3 3/16	4 1/2	5	1 3/16	7 1/4	234.0
70	40.017	39.006	38.006	140M70	C ₁	E	M	5 1/2	10	5 3/16	6 3/4	6 3/4	2 29/32	9	239.0
80	45.591	44.574	43.574	140M80	C ₁	E	M	5 1/2	10	5 3/16	6 3/4	6 3/4	2 29/32	9	432.0

Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

“QD” Style Bushings				
Bushing	Bore Range (inches)			Weight (lbs.)
	Standard Keyway	Shallow Keyway	Without Keyway	
SF	1/2 - 2 15/16	2 5/16 - 2 15/16	2 13/16 - 2 15/16	1.0
E	7/8 - 3 1/2	2 15/16 - 3 1/2	-	2.1
F	1 - 4	3 5/16 - 3 15/16	4	3.1
J	1 1/2 - 4 1/2	3 7/8 - 4 9/16	-	16.8
M	2 - 5 1/2	4 3/4 - 3 1/2	-	56.0

Dimensional Data	
Single Strand Chain	140
Size	140
Pitch	1.750"
Chain Inside Width	1.000"
Roller Diameter	1.000"
Nominal Tooth Width	0.924"

If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Dimensional Data	
Single Strand Chain	140
Size	140
Pitch	1.750"
Chain Inside Width	1.000"
Roller Diameter	1.000"
Nominal Tooth Width	0.924"

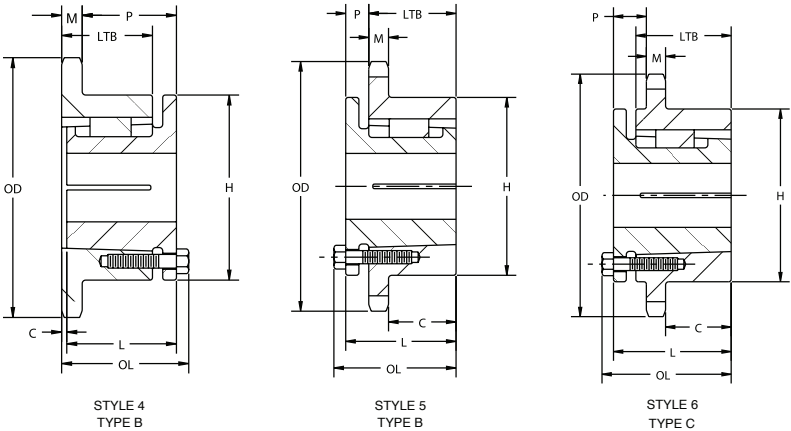
If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

Sprockets with catalogue numbers that begin with “H” have hardened teeth (Rockwell C35 minimum).

All dimensions in inches unless otherwise stated.

Sprocket Diameters					Type B and C										
1 3/4" Pitch					LTB										
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter	Catalogue Number	Type	Style	Hub	LTB	Bushing (L)	OL	P	M	C	H	Weight (lbs.)
11	7.010	6.213	5.148	H140Q11	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	3 7/8	6.4
12	7.581	6.762	5.762	H140Q12	B	4	Q1	1 3/4	2 1/2	2 25/32	1 9/16	0.924	-	4 1/2	9.0
13	8.150	7.313	6.259	H140R13	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 13/16	11.1
14	8.717	7.865	6.865	H140R14	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	12.6
15	9.283	8.418	7.371	H140R15	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	14.7
16	9.848	8.971	7.971	H140R16	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	16.5
17	10.412	9.524	8.483	H140R17	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	18.5
18	10.975	10.078	9.078	H140R18	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	20.5
19	11.537	10.633	9.596	H140R19	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	23.0
20	12.099	11.186	10.186	H140R20	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	25.4
21	12.660	11.743	10.709	H140R21	B	4	R1	2	2 7/8	3 5/32	1 15/16	0.924	-	5 3/4	27.8
22	13.222	12.297	11.297	H140R22	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	32.5
23	13.782	12.852	11.822	H140R23	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	36.0
24	14.343	13.407	12.407	H140R24	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	37.6
25	14.903	13.963	12.935	H140R25	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	40.3
26	15.463	14.518	13.518	H140R26	B	5	R1	2	2 7/8	3 5/32	7/8	0.924	1 1/16	5 3/4	44.0
30	17.700	16.742	15.742	H140R30	C	5	R2	4	4 7/8	5 5/32	7/8	0.924	2	5 3/4	68.0
35	20.494	19.523	18.503	140R35	C	6	R2	4	4 7/8	5 5/32	7/8	0.924	2	5 3/4	88.0
36	21.053	20.080	19.080	140R36	C	6	R2	4	4 7/8	5 5/32	7/8	0.924	2	5 3/4	90.0
36	21.053	20.080	19.080	140S36	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	89.0
40	23.286	22.306	21.306	140R40	C	6	R2	4	4 7/8	5 5/32	7/8	0.924	2	5 3/4	109.0
40	23.286	22.306	21.306	140S40	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	107.0
45	26.076	25.088	24.072	140S45	B	5	S1	3 5/16	4 3/8	4 3/4	1 1/16	0.924	2 3/8	6 3/4	132.0
48	27.750	26.758	25.758	140S48	C	6	S2	5 11/16	6 3/4	7 1/2	2 15/16	0.924	2 7/8	6 3/4	169.0
54	31.096	30.097	29.097	140S54	C	6	S2	5 11/16	6 3/4	7 1/2	2 15/16	0.924	2 7/8	6 3/4	208.0
60	34.442	33.437	32.437	140S60	C	6	S2	5 11/16	6 3/4	7 1/2	2 15/16	0.924	2 7/8	6 3/4	230.0
70	40.017	39.006	38.006	140S70	C	6	S2	5 11/16	6 3/4	7 1/2	2 15/16	0.924	2 7/8	6 3/4	311.0
80	45.590	44.574	43.574	140S80	C	6	S2	5 11/16	6 3/4	7 1/2	2 15/16	0.924	2 7/8	6 3/4	242.0

Construction may not be exactly as shown. Solid or welded construction for sprockets may be substituted. Minor envelope variations may occur. Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.



NO. 160 “QD” STYLE 2" PITCH

NO. 160 SPLIT
TAPER 2" PITCH

When experience really matters

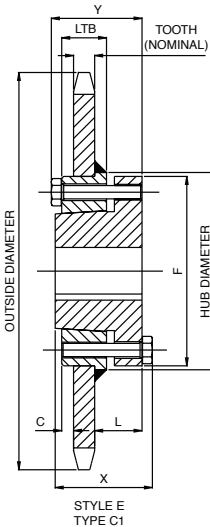
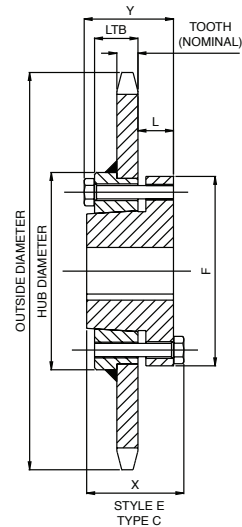
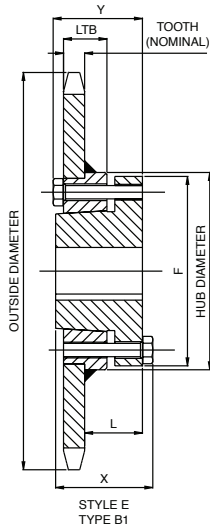
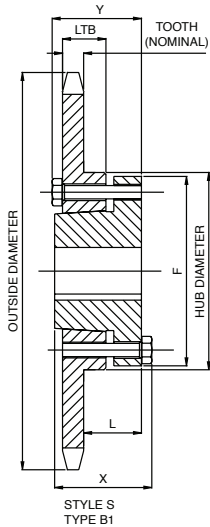
All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B ₁ , C and C ₁											
2" Pitch				Catalogue Number	Type	Style	Bushing	Max. Bore	Hub Diameter	LTB	X	Y	L	F	Weight (lbs.)
No. Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter												
12	8.664	7.728	6.603	160E12	B ₁	S	E	3½	5⅞	1⅝	2⅝	2⅞	1⅞	6	11.2
13	9.314	8.358	7.171	160E13	B ₁	S	E	3½	6¼	1⅝	2⅝	2⅞	1⅞	6	14.2
14	9.962	8.988	7.863	160E14	B ₁	S	E	3½	6¼	1⅝	2⅝	2⅞	1⅞	6	17.4
15	10.608	9.620	8.442	160F15	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	24.7
16	11.254	10.252	9.127	160F16	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	29.0
17	11.898	10.844	9.713	160F17	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	30.7
18	12.542	11.518	10.393	160F18	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	33.8
19	13.186	12.152	10.985	160F19	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	37.9
20	13.828	12.784	11.659	160F20	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	43.0
21	14.470	13.420	12.256	160F21	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	45.9
22	15.110	14.054	12.929	160F22	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	51.1
23	15.752	14.688	13.529	160F23	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	54.8
24	16.392	15.322	14.197	160F24	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	60.4
25	17.032	15.958	14.801	160F25	B ₁	E	F	3⅞	7	2½	3⅝	4	2⅞	6⅝	64.6
26	17.672	16.592	15.467	160J26	C	E	J	4⅞	8	3⅞	4½	5	1⅞	7¼	77.0
28	18.950	17.862	16.737	160J28	C	E	J	4⅞	8	3⅞	4½	5	1⅞	7¼	86.0
30	20.228	19.134	18.009	160J30	C	E	J	4⅞	8	3⅞	4½	5	1⅞	7¼	110.0
35	23.422	22.312	21.164	160J35	C	E	J	4⅞	8	3⅞	4½	5	1⅞	7¼	131.0
40	26.612	25.492	24.367	160M40	C ₁	E	M	5½	10	5⅞	6¾	6¾	1⅞ ₃₂	9	196.0
45	29.802	28.672	27.529	160M45	C ₁	E	M	5½	10	5⅞	6¾	6¾	1⅞ ₃₂	9	237.0
54	35.538	34.396	33.271	160M54	C ₁	E	M	5½	10	5⅞	6¾	6¾	1⅞ ₃₂	9	325.0
60	39.362	38.214	37.089	160M60	C ₁	E	M	5½	10	5⅞	6¾	6¾	1⅞ ₃₂	9	378.0
70	45.734	44.578	43.453	160M70	C ₁	E	M	5½	10	5⅞	6¾	6¾	1⅞ ₃₂	9	505.0
80	52.104	50.942	49.817	160M80	C ₁	E	M	5½	10	5⅞	6¾	6¾	1⅞ ₃₂	9	671.0

Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.

“QD” Style Bushings				
Bushing	Bore Range (inches)			Weight (lbs.)
	Standard Keyway	Shallow Keyway	Without Keyway	
E	7/8 - 3 1/2	2 15/16 - 3 1/2	-	2.1
F	1 - 4	3 5/16 - 3 15/16	4	3.1
J	1 1/2 - 4 1/2	3 7/8 - 4 9/16	-	16.8
M	2 - 5 1/2	4 3/4 - 3 1/2	-	56.0

Dimensional Data	
Single Strand Chain	160
Size	160
Pitch	2.000"
Chain Inside Width	1.250"
Roller Diameter	1.125"
Nominal Tooth Width	1.156"



Dimensional Data

Single Strand Chain	160
Size	160
Pitch	2.000"
Chain Inside Width	1.250"
Roller Diameter	1.125"
Nominal Tooth Width	1.156"

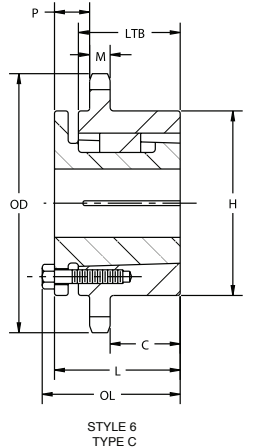
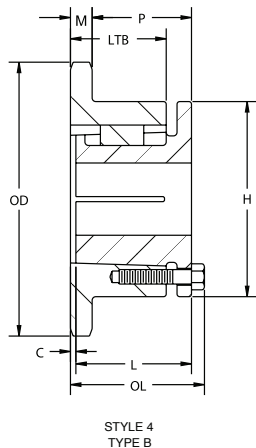
If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

Sprockets with catalogue numbers that begin with “H” have hardened teeth (Rockwell C35 minimum).

All dimensions in inches unless otherwise stated.

Sprocket Diameters				Type B and C											
2" Pitch				Catalogue Number	Type	Style	Hub	LTB Bushing					Weight (lbs.)		
No. of Teeth	Outside Diameter	Pitch Diameter	Caliper Diameter					LTB (L)	OL	P	M	C		H	
11	8.011	7.100	5.902	H160R11	B	4	R1	2 1/4	2 7/8	3 13/32	1 31/32	1.156	1/4	5 13/16	10.8
12	8.664	7.728	6.603	H160R12	B	4	R1	2 1/4	2 7/8	3 13/32	1 31/32	1.156	1/4	5 3/4	14.2
13	9.314	8.358	7.171	H160R13	B	4	R1	2	2 7/8	3 5/32	1 23/32	1.156	-	5 3/4	15.5
14	9.963	8.988	7.863	H160R14	B	4	R1	2	2 7/8	3 5/32	1 23/32	1.156	-	5 3/4	18.5
15	10.609	9.620	8.442	H160R15	B	4	R1	2	2 7/8	3 5/32	1 23/32	1.156	-	5 3/4	21.6
16	11.255	10.252	9.127	H160R16	B	4	R1	2	2 7/8	3 5/32	1 23/32	1.156	-	5 3/4	25.0
17	11.899	10.844	9.713	H160R17	B	4	R1	2	2 7/8	3 5/32	1 23/32	1.156	-	5 3/4	28.0
18	12.543	11.518	10.393	H160R18	B	4	R1	2	2 7/8	3 5/32	1 23/32	1.156	-	5 3/4	31.9
19	13.185	12.152	10.985	H160R19	B	4	R1	2	2 7/8	3 5/32	1 23/32	1.156	-	5 3/4	35.9
20	13.828	12.784	11.659	H160R20	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	51.0
21	14.469	13.420	12.256	H160R21	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	56.0
22	15.110	14.054	12.929	H160R22	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	60.0
23	15.751	14.688	13.529	H160R23	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	65.0
24	16.392	15.322	14.197	H160R24	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	71.5
25	17.032	15.958	14.801	H160R25	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	74.0
26	17.671	16.592	15.467	H160R26	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	79.0
26	17.671	16.592	15.467	H160S26	C	6	S2	5 11/16	6 3/4	7 1/8	2 23/32	1.156	2 7/8	6 3/4	78.0
28	18.950	17.862	16.737	H160R28	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	99.8
28	18.950	17.862	16.737	H160S28	C	6	S2	5 11/16	6 3/4	7 1/8	2 23/32	1.156	2 7/8	6 3/4	98.7
30	20.229	19.134	18.009	H160R30	C	6	R2	4	4 7/8	5 3/32	1 23/32	1.156	2	5 3/4	115.0
30	20.229	19.134	18.009	H160S30	C	6	S2	5 11/16	6 3/4	7 1/8	2 23/32	1.156	2 7/8	6 3/4	114.0
35	23.422	22.312	21.164	160S35	C	6	S2	5 11/16	6 3/4	7 1/8	2 23/32	1.156	2 7/8	6 3/4	150.0
40	26.612	25.492	24.367	160S40	C	6	S2	5 11/16	6 3/4	7 1/8	2 23/32	1.156	2 7/8	6 3/4	165.0
45	29.801	28.672	27.529	160S45	C	6	S2	5 11/16	6 3/4	7 1/8	2 23/32	1.156	2 7/8	6 3/4	204.0
60	39.362	38.214	37.089	160U60	C	6	U0	3 3/4	5 1/4	5 25/32	1 21/32	1.156	1 15/16	8 1/2	354.0
70	45.733	44.578	43.453	160U70	C	6	U0	3 3/4	5 1/4	5 25/32	1 21/32	1.156	1 15/16	8 1/2	308.0
80	52.103	50.942	49.817	160U80	C	6	U1	5 5/8	7 1/8	7 19/32	2 19/32	1.156	2 7/8	8 1/2	394.0

Construction may not be exactly as shown. Solid or welded construction for sprockets may be substituted. Minor envelope variations may occur. Other bushing sizes and mounting directions available. Specify bushing size and mounting direction (hub or plate side) when ordering.



MILL CHAIN SPROCKETS

When toughness really matters

WH78/WR78 2.609" Pitch / 0.840" Barrel Diameter / *1" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	0.94	78A8	9	78B8	15	78C8	20	2.75	6.82
9	1.25	78A9	11	78B9	20	78C9	28	3.19	7.63
10	1.25	78A10	14	78B10	23	78C10	31	3.19	8.44
11	1.25	78A11	17	78B11	26	78C11	34	3.19	9.26
12	1.25	78A12	20	78B12	29	78C12	37	3.19	10.08
13	1.50	78A13	23	78B13	34	78C13	44	3.44	10.90
14	1.50	78A14	27	78B14	36	78C14	45	3.44	11.72
15	1.50	78A15	31	78B15	41	78C15	51	3.44	12.55
16	1.50	78A16	35	78B16	46	78C16	56	3.44	13.37
17	1.50	78A17	39	78B17	53	78C17	67	3.44	14.20
18	1.50	78A18	44	78B18	67	78C18	90	3.94	15.03
19	1.50	78A19	49	78B19	72	78C19	95	3.94	15.85
20	1.50	78A20	54	78B20	78	78C20	101	3.94	16.68
21	1.50	78A21	60	78B21	83	78C21	106	3.94	17.51
22	1.50	78A22	66	78B22	89	78C22	112	3.94	18.33
23	1.50	78A23	72	78B23	95	78C23	118	3.94	19.16
24	1.50	78A24	78	78B24	101	78C24	124	3.94	19.99
25	1.50	78A25	85	78B25	108	78C25	131	3.94	20.82
26	1.50	78A26	91	78B26	115	78C26	138	3.94	21.65
27	1.50	78A27	99	78B27	122	78C27	145	3.94	22.47
28	1.50	78A28	106	78B28	129	78C28	152	3.94	23.30
29	1.50	78A29	114	78B29	137	78C29	160	3.94	24.13
30	1.50	78A30	122	78B30	145	78C30	168	3.94	24.96
32	1.50	78A32	138	78B32	162	78C32	185	3.94	26.62
35	1.50	78A35	165	78B35	189	78C35	212	3.94	29.11

*7/8" plate thickness is available upon request. Please specify plate thickness when placing order.

WH78XHD/WR78XHD 2.636" Pitch / 1" Barrel Diameter / 1" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	0.94	78XHDA8	10	78XHDB8	13	78XHDC8	15	2.44	6.89
9	1.25	78XHDA9	13	78XHDB9	18	78XHDC9	23	2.99	7.71
10	1.25	78XHDA10	16	78XHDB10	21	78XHDC10	26	3.19	8.53
12	1.25	78XHDA12	23	78XHDB12	28	78XHDC12	33	3.19	10.19
14	1.50	78XHDA14	31	78XHDB14	38	78XHDC14	45	3.44	11.85
15	1.50	78XHDA15	35	78XHDB15	42	78XHDC15	49	3.44	12.68
16	1.50	78XHDA16	40	78XHDB16	47	78XHDC16	54	3.44	13.51
17	1.50	78XHDA17	45	78XHDB17	52	78XHDC17	59	3.44	14.35
18	1.50	78XHDA18	50	78XHDB18	63	78XHDC18	75	3.94	15.18
20	1.50	78XHDA20	62	78XHDB20	74	78XHDC20	86	3.94	16.85



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

81X 2.609" Pitch / 0.906" Barrel Diameter / 0.875" Plate Thickness

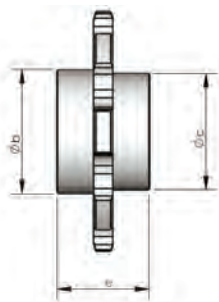
All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	0.94	81XA8	8	81XB8	11	81XC8	14	2.44	6.82
9	1.25	81XA9	10	81XB9	13	81XC9	16	2.94	7.63
10	1.25	81XA10	12	81XB10	18	81XC10	23	3.19	8.44
11	1.25	81XA11	14	81XB11	20	81XC11	25	3.19	9.26
12	1.25	81XA12	17	81XB12	23	81XC12	28	3.19	10.08
13	1.50	81XA13	23	81XB13	36	81XC13	49	3.44	10.90
14	1.50	81XA14	27	81XB14	40	81XC14	53	3.44	11.73
15	1.50	81XA15	31	81XB15	45	81XC15	58	3.44	12.55
16	1.50	81XA16	35	81XB16	49	81XC16	62	3.44	13.37
17	1.50	81XA17	39	81XB17	53	81XC17	66	3.44	14.20
18	1.50	81XA18	44	81XB18	67	81XC18	89	3.94	15.03
19	1.50	81XA19	49	81XB19	72	81XC19	94	3.94	15.85
20	1.50	81XA20	54	81XB20	77	81XC20	99	3.94	16.68
21	1.50	81XA21	60	81XB21	83	81XC21	105	3.94	17.51
22	1.50	81XA22	66	81XB22	89	81XC22	111	3.94	18.33
23	1.50	81XA23	72	81XB23	95	81XC23	117	3.94	19.16
24	1.50	81XA24	78	81XB24	101	81XC24	123	3.94	19.99
25	1.50	81XA25	84	81XB25	107	81XC25	130	3.94	20.82
26	1.50	81XA26	92	81XB26	114	81XC26	136	3.94	21.65
27	1.50	81XA27	98	81XB27	121	81XC27	144	3.94	22.47
28	1.50	81XA28	106	81XB28	129	81XC28	151	3.94	23.30
29	1.50	81XA29	113	81XB29	136	81XC29	158	3.94	24.13
30	1.50	81XA30	121	81XB30	144	81XC30	166	3.94	24.96
32	1.50	81XA32	138	81XB32	161	81XC32	183	3.94	26.62
35	1.50	81XA35	165	81XB35	188	81XC35	210	3.94	29.11

2.609" pitch						
Hub	Finished bore range	Hub O.D.			Hub length	
		B style	C style		B style	C style
			Major	Minor		
		a	b	c	d	e
B or C style solid hubs						
(BC)N102	1.7/16 - 2.15/16	5.250	5.250	5.125	1.500	3.875
(BC)N103	1.15/16 - 3.7/16	5.500	5.500	5.375	1.687	4.250
(BC)N104	1.15/16 - 3.15/16	6.500	6.500	6.375	2.062	5.000
B or C style split hubs						
S(C)N2	1.7/16 - 1.15/16	4.375	4.375	4.250	1.250	3.500
S(C)N3	1.15/16 - 2.7/8	6.000	6.000	5.875	1.375	3.750
S(C)N4	2.15/16 - 3.7/16	7.625	7.625	7.500	1.500	4.000
S(C)N5	3.15/16	9.250	9.250	9.125	2.000	5.000



B STYLE



C STYLE

WH82/WR82 3.075" Pitch / 1" Barrel Diameter / 1.125" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.25	82A8	16	82B8	24	82C8	32	3.19	8.04
9	1.25	82A9	20	82B9	28	82C9	36	3.19	8.99
10	1.25	82A10	25	82B10	33	82C10	40	3.19	9.95
11	1.25	82A11	30	82B11	38	82C11	45	3.19	10.92
12	1.25	82A12	35	82B12	38	82C12	41	3.19	11.88
13	1.50	82A13	41	82B13	51	82C13	60	3.44	12.85
14	1.50	82A14	48	82B14	58	82C14	67	3.44	13.82
15	1.50	82A15	55	82B15	65	82C15	74	3.44	14.79
16	1.50	82A16	62	82B16	72	82C16	81	3.44	15.76
17	1.50	82A17	70	82B17	91	82C17	112	3.44	16.74
18	1.50	82A18	79	82B18	106	82C18	132	3.94	17.71
19	1.50	82A19	88	82B19	115	82C19	141	3.94	18.68
20	1.50	82A20	97	82B20	124	82C20	150	3.94	19.66
21	1.50	82A21	107	82B21	134	82C21	160	3.94	20.63
22	1.50	82A22	117	82B22	144	82C22	170	3.94	21.61
23	1.50	82A23	128	82B23	155	82C23	181	3.94	22.58
24	1.50	82A24	139	82B24	166	82C24	193	3.94	23.56
25	1.50	82A25	151	82B25	183	82C25	214	4.44	24.54
26	1.50	82A26	163	82B26	195	82C26	226	4.44	25.51
27	1.50	82A27	176	82B27	208	82C27	239	4.44	26.49
28	1.50	82A28	189	82B28	221	82C28	252	4.44	27.46
29	1.50	82A29	203	82B29	235	82C29	266	4.44	28.44
30	1.50	82A30	217	82B30	249	82C30	280	4.44	29.42

WH82XHD/WR82XHD 3.075" Pitch / 1.250" Barrel Diameter / 1.125" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.25	82XHDA8	16	82XHDB8	24	82XHDC8	32	3.19	8.04
9	1.25	82XHDA9	20	82XHDB9	28	82XHDC9	36	3.19	8.99
10	1.25	82XHDA10	25	82XHDB10	33	82XHDC10	40	3.19	9.95
11	1.25	82XHDA11	30	82XHDB11	38	82XHDC11	45	3.19	10.92
12	1.25	82XHDA12	35	82XHDB12	38	82XHDC12	41	3.19	11.88
14	1.50	82XHDA14	48	82XHDB14	58	82XHDC14	67	3.44	13.82
15	1.50	82XHDA15	55	82XHDB15	65	82XHDC15	74	3.44	14.79
16	1.50	82XHDA16	62	82XHDB16	72	82XHDC16	81	3.44	15.76
17	1.50	82XHDA17	70	82XHDB17	91	82XHDC17	112	3.44	16.74
18	1.50	82XHDA18	79	82XHDB18	106	82XHDC18	132	3.94	17.71
20	1.50	82XHDA20	97	82XHDB20	124	82XHDC20	150	3.94	19.66
21	1.50	82XHDA21	107	82XHDB21	134	82XHDC21	160	3.94	20.63
22	1.50	82XHDA22	117	82XHDB22	144	82XHDC22	170	3.94	21.61
24	1.50	82XHDA24	139	82XHDB24	166	82XHDC24	193	3.94	23.56
25	1.50	82XHDA25	151	82XHDB25	183	82XHDC25	214	4.44	24.54
28	1.50	82XHDA28	186	82XHDB28	221	82XHDC28	252	4.44	27.46
30	1.50	82XHDA30	217	82XHDB30	249	82XHDC30	280	4.44	29.42

WH78-4 3.075" Pitch / 1" Barrel Diameter / 1.125" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	78-4A8	24	78-4B8	38	78-4C8	52	3.44	10.45
9	1.50	78-4A9	30	78-4B9	44	78-4C9	58	3.44	11.70
10	1.50	78-4A10	37	78-4B10	51	78-4C10	65	3.44	12.94
12	1.50	78-4A12	53	78-4B12	76	78-4C12	99	3.94	15.46
14	1.50	78-4A14	72	78-4B14	95	78-4C14	118	3.94	17.98
15	1.50	78-4A15	82	78-4B15	106	78-4C15	129	3.94	19.24
16	1.50	78-4A16	94	78-4B16	117	78-4C16	140	3.94	20.50
17	1.50	78-4A17	106	78-4B17	134	78-4C17	161	4.19	21.77
18	1.50	78-4A18	118	78-4B18	146	78-4C18	173	4.19	23.04
20	1.50	78-4A20	146	78-4B20	174	78-4C20	201	4.19	25.57

 If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.

 Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

 Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

WH124/WR124

4" Pitch / 1.25" Barrel Diameter / 1.50" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	124A8	30	124B8	40	124C8	49	3.44	10.45
9	1.50	124A9	38	124B9	47	124C9	56	3.44	11.70
10	1.50	124A10	47	124B10	56	124C10	65	3.44	12.94
11	1.50	124A11	56	124B11	73	124C11	89	3.94	14.20
12	1.50	124A12	67	124B12	83	124C12	99	3.94	15.46
13	1.50	124A13	78	124B13	95	124C13	111	3.94	16.71
14	1.50	124A14	90	124B14	107	124C14	123	3.94	17.98
15	1.50	124A15	103	124B15	120	124C15	136	3.94	19.24
16	1.50	124A16	117	124B16	134	124C16	150	3.94	20.50
17	1.50	124A17	132	124B17	160	124C17	187	4.19	21.77
18	1.50	124A18	148	124B18	176	124C18	203	4.19	23.04
19	1.50	124A19	165	124B19	193	124C19	220	4.19	24.30
20	1.50	124A20	182	124B20	210	124C20	237	4.19	25.57
21	1.50	124A21	201	124B21	233	124C21	265	4.44	26.84
22	1.50	124A22	220	124B22	253	124C22	285	4.44	28.11
24	1.50	124A24	262	124B24	294	124C24	326	4.44	30.65
25	1.50	124A25	284	124B25	316	124C25	348	4.44	31.92
26	1.50	124A26	307	124B26	346	124C26	384	4.94	33.19
28	1.50	124A28	356	124B28	395	124C28	433	4.94	35.73
30	1.50	124A30	408	124B30	447	124C30	485	4.94	38.27



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

WH124XHD/WR124XHD

4.063" Pitch / 1.75" Barrel Diameter / 1.50" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	124XHDA8	38	124XHDB8	53	124XHDC8	68	3.94	10.62
9	1.50	124XHDA9	47	124XHDB9	63	124XHDC9	78	3.94	11.88
10	1.50	124XHDA10	58	124XHDB10	73	124XHDC10	88	3.94	13.15
11	1.50	124XHDA11	70	124XHDB11	85	124XHDC11	100	3.94	14.42
12	1.50	124XHDA12	82	124XHDB12	106	124XHDC12	129	4.44	15.70
13	1.50	124XHDA13	96	124XHDB13	120	124XHDC13	143	4.44	16.98
14	1.50	124XHDA14	112	124XHDB14	135	124XHDC14	158	4.44	18.26
15	1.50	124XHDA15	128	124XHDB15	151	124XHDC15	174	4.44	19.54
16	1.50	124XHDA16	145	124XHDB16	168	124XHDC16	191	4.44	20.83
17	1.50	124XHDA17	163	124XHDB17	206	124XHDC17	248	5.44	22.11
18	1.50	124XHDA18	183	124XHDB18	226	124XHDC18	268	5.44	23.40
19	1.50	124XHDA19	204	124XHDB19	246	124XHDC19	288	5.44	24.69
20	1.50	124XHDA20	226	124XHDB20	268	124XHDC20	310	5.44	25.97
21	1.50	124XHDA21	249	124XHDB21	291	124XHDC21	333	5.44	27.26
22	1.50	124XHDA22	273	124XHDB22	315	124XHDC22	357	5.44	28.55
24	1.50	124XHDA24	324	124XHDB24	367	124XHDC24	409	5.44	31.13
25	1.50	124XHDA25	352	124XHDB25	394	124XHDC25	436	5.44	32.42
26	1.50	124XHDA26	380	124XHDB26	424	124XHDC26	468	5.44	33.71
28	1.50	124XHDA28	440	124XHDB28	485	124XHDC28	529	5.44	36.29
30	1.50	124XHDA30	505	124XHDB30	550	124XHDC30	594	5.44	38.87



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

WH111 4.760" Pitch / 1.25" Barrel Diameter / 2.25" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	111A8	78	111B8	99	111C8	119	4.44	12.44
9	1.50	111A9	97	111B9	118	111C9	138	4.44	13.92
10	1.50	111A10	119	111B10	140	111C10	160	4.44	15.40
11	1.50	111A11	143	111B11	164	111C11	184	4.44	16.90
12	1.50	111A12	170	111B12	191	111C12	211	4.44	18.39
13	1.50	111A13	198	111B13	225	111C13	251	5.44	19.89
14	1.50	111A14	230	111B14	256	111C14	282	5.44	21.39
15	1.50	111A15	263	111B15	289	111C15	315	5.44	22.89
16	1.50	111A16	299	111B16	325	111C16	351	5.44	24.40
17	1.50	111A17	336	111B17	381	111C17	425	5.44	25.91
18	1.50	111A18	377	111B18	421	111C18	465	5.44	27.41
19	1.50	111A19	420	111B19	464	111C19	508	5.44	28.92
20	1.50	111A20	464	111B20	509	111C20	553	5.44	30.43
21	1.50	111A21	512	111B21	556	111C21	600	5.44	31.94
22	1.50	111A22	561	111B22	606	111C22	650	5.44	33.45
24	1.50	111A24	667	111B24	712	111C24	756	5.44	36.47
25	1.50	111A25	724	111B25	768	111C25	812	5.44	37.98
28	1.50	111A28	607	111B28	801	111C28	995	5.44	42.51
30	1.50	111A30	1040	111B30	1099	111C30	1157	5.94	45.54

WH106/WR106 6" Pitch / 1.25" Barrel Diameter / 1.50" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	106A8	69	106B8	93	106C8	117	4.44	15.68
9	1.50	106A9	86	106B9	111	106C9	135	4.44	17.54
10	1.50	106A10	105	106B10	131	106C10	157	4.44	19.42
11	1.50	106A11	126	106B11	160	106C11	193	5.44	21.30
12	1.50	106A12	150	106B12	183	106C12	216	5.44	23.18
13	1.50	106A13	210	106B13	254	106C13	298	5.44	25.07
14	1.50	106A14	243	106B14	287	106C14	331	5.44	26.96
15	1.50	106A15	278	106B15	323	106C15	367	5.44	28.86
16	1.50	106A16	316	106B16	361	106C16	405	5.44	30.76
17	1.50	106A17	357	106B17	401	106C17	445	5.44	32.65
18	1.50	106A18	399	106B18	443	106C18	487	5.44	34.55
19	1.50	106A19	445	106B19	489	106C19	533	5.44	36.45
20	1.50	106A20	210	106B20	239	106C20	267	5.44	38.36
21	1.50	106A21	243	106B21	272	106C21	300	5.94	40.26
22	1.50	106A22	278	106B22	307	106C22	335	5.94	42.16
24	1.50	106A24	316	106B24	345	106C24	373	5.94	45.97

WH106XHD/WR106XHD 6.050" Pitch / 1.75" Barrel Diameter / 1.50" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	106XHDA8	83	106XHDB8	110	106XHDC8	137	5.44	15.81
9	1.50	106XHDA9	105	106XHDB9	132	106XHDC9	158	5.44	17.69
10	1.50	106XHDA10	128	106XHDB10	155	106XHDC10	182	5.44	19.58
11	1.50	106XHDA11	154	106XHDB11	193	106XHDC11	232	5.94	21.47
12	1.50	106XHDA12	183	106XHDB12	222	106XHDC12	260	5.94	23.38
14	1.50	106XHDA14	247	106XHDB14	286	106XHDC14	325	5.94	27.19
15	1.50	106XHDA15	283	106XHDB15	322	106XHDC15	361	5.94	29.10
16	1.50	106XHDA16	322	106XHDB16	376	106XHDC16	429	6.50	31.01
18	1.50	106XHDA18	406	106XHDB18	460	106XHDC18	513	6.50	34.84
20	1.50	106XHDA20	500	106XHDB20	554	106XHDC20	608	6.50	38.67



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

WH132/WR132 6.050" Pitch / 1.75" Barrel Diameter / 2.75" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	132A8	153	132B8	179	132C8	205	5.44	15.81
9	1.50	132A9	192	132B9	218	132C9	244	5.44	17.69
10	1.50	132A10	235	132B10	261	132C10	287	5.44	19.58
11	1.50	132A11	283	132B11	318	132C11	352	5.94	21.47
12	1.50	132A12	335	132B12	370	132C12	404	5.94	23.38
13	1.50	132A13	392	132B13	427	132C13	461	5.94	25.28
14	1.50	132A14	453	132B14	488	132C14	522	5.94	27.19
15	1.50	132A15	519	132B15	554	132C15	588	5.94	29.10
16	1.50	132A16	590	132B16	644	132C16	697	6.50	31.01

WH132XHD/WR132XHD 6.050" Pitch / 1.75" Barrel Diameter / 2.75" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	132XHDA8	153	132XHDB8	201	132XHDC8	248	5.44	15.81
9	1.50	132XHDA9	191	132XHDB9	239	132XHDC9	287	5.44	17.69
10	1.50	132XHDA10	235	132XHDB10	283	132XHDC10	330	5.44	19.58
11	1.50	132XHDA11	283	132XHDB11	343	132XHDC11	403	5.94	21.47
12	1.50	132XHDA12	335	132XHDB12	396	132XHDC12	456	5.94	23.38
13	1.50	132XHDA13	392	132XHDB13	453	132XHDC13	513	5.94	25.28
14	1.50	132XHDA14	453	132XHDB14	514	132XHDC14	574	5.94	27.19
15	1.50	132XHDA15	519	132XHDB15	580	132XHDC15	640	5.94	29.10
16	1.50	132XHDA16	589	132XHDB16	664	132XHDC16	739	6.50	31.01



Lightening holes available on request for most sprockets.



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

WH155 6.050" Pitch / 1.75" Barrel Diameter / 2.75" Plate Thickness

All dimensions in inches unless otherwise stated.

Number of Teeth	Stock Bore	Type A		Type B		Type C		Type B and C	
		Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Catalogue Number	Approx. Weight (lbs.)	Maximum Bore	Pitch Diameter
8	1.50	155A8	153	155B8	220	155C8	287	5.94	15.81
9	1.50	155A9	192	155B9	227	155C9	261	5.94	17.69
10	1.50	155A10	235	155B10	270	155C10	304	5.94	19.58
11	1.50	155A11	283	155B11	337	155C11	390	6.50	21.47
12	1.50	155A12	335	155B12	389	155C12	443	6.50	23.38
13	1.50	155A13	392	155B13	446	155C13	500	6.50	25.28
14	1.50	155A14	453	155B14	507	155C14	561	6.50	27.19
15	1.50	155A15	519	155B15	573	155C15	627	6.50	29.10
16	1.50	155A16	590	155B16	644	155C16	697	6.50	31.01



Lightening holes available on request for most sprockets.



If the sprocket needed is not listed above, please contact Tsubaki for made-to-order custom sprockets.



Mill chain sprockets can be supplied with A, B or C idlers with 1 or 2 urethane bushings (split or solid construction) and 1 or 2 bearings.

DRAG CHAIN SPROCKETS

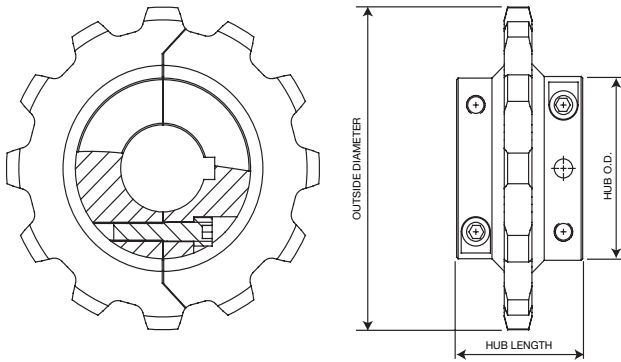


Sprocket Number	Pitch	Tooth Face	No. of Teeth	Catalogue Number	Maximum Bore	Pitch Diameter
WD-102	5.000	6.375	6	WD-102-6	3.9375	10.00
			8	WD-102-8	5.9375	13.07
			9	WD-102-9	5.9375	14.62
			10	WD-102-10	5.9375	16.18
			12	WD-102-12	5.9375	19.32
			13	WD-102-13	5.9375	20.89
WD-104	6.000	4.125	8	WD-104-8	4.9375	15.68
			9	WD-104-9	5.9375	17.54
			10	WD-104-10	5.9375	19.42
			11	WD-104-11	5.9375	21.30
WD-110 and WD-113	6.000	9.000	6	WD-110-113-6	4.4375	12.00
			8	WD-110-113-8	5.9375	15.68
			9	WD-110-113-9	5.9375	17.54
			10	WD-110-113-10	5.9375	19.42
			11	WD-110-113-11	5.9375	21.30
WD-112	8.000	9.000	7	WD-112-7	4.9375	18.44
			8	WD-112-8	5.9375	20.90
			9	WD-112-9	5.9375	23.39
WD-116	8.000	13.000	7	WD-116-7	5.4375	18.44
			8	WD-116-8	5.9375	20.90
			9	WD-116-9	5.9375	23.39
WD-118	8.000	13.000	7	WD-118-7	5.4375	18.44
			8	WD-118-8	5.9375	20.90
			9	WD-118-9	5.9375	23.39
WD-120	6.000	8.750	6	WD-120-6	5.9375	12.00
			8	WD-120-8	5.9375	15.68
			11	WD-120-11	5.9375	21.30
WD-122	8.000	8.750	6	WD-122-6	5.4375	16.00
			7	WD-122-7	5.4375	18.44
			9	WD-122-9	5.9375	23.39
WD-480	8.000	11.000	6	WD-480-6	5.4375	16.00
			7	WD-480-7	5.4375	18.44
			8	WD-480-8	5.9375	20.90
			9	WD-480-9	5.9375	23.39
			11	WD-480-11	5.9375	28.40

SPLIT & IDLER SPROCKETS

When efficiency really matters

SPLIT SPROCKET



All dimensions in inches unless otherwise stated.

Hub Number	Available Finished Bore Sizes	Hub Outside Diameter	Hub Length	Bolts	Weight (lbs.)
SCT-3	1 7/16, 1 15/16, 2 3/16, 2 7/16	6	4 3/4	5/8 x 3	34
SCT-4	2 15/16, 3 7/16	7 1/4	5 1/8	3/4 x 3 1/4	46
SCT-6	3 15/16	9 1/4	6	1 x 4 1/2	86

Chart shows finished bores only. Hubs can also be supplied with urethane and bronze bushings.

SPLIT ADJUSTABLE SPROCKET

- Fast and accurate sprocket tooth/chain roller positioning at installation, or when a chain is forced off the sprockets due to jam-ups.
- Fast and simple rim replacement when rim is worn out.
- Split hub adjustable sprockets are ideal for applications with long shafts running 2 or more strands of chain.

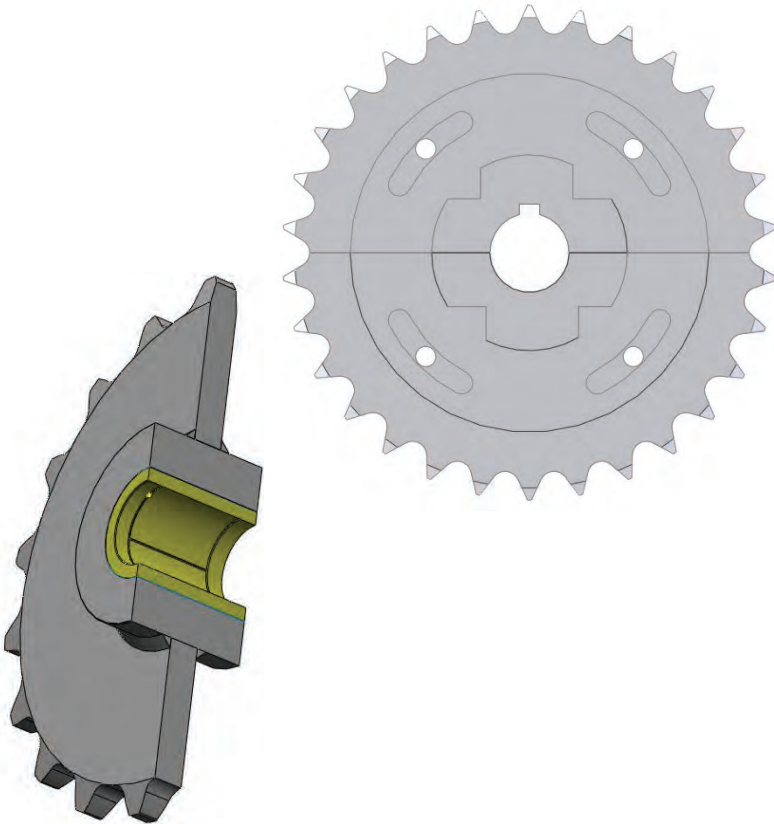
IDLER SPROCKET

Tsubaki offers a variety of different types of idler sprockets to fit a variety of applications, including the following standard types:

- Ball Bearing Idlers
- Needle Bearing Idlers
- Non-Metallic Idlers (Nylon/Nyloil, Delrin, Urethane and other bushed idlers using custom materials)

Bronze Bush

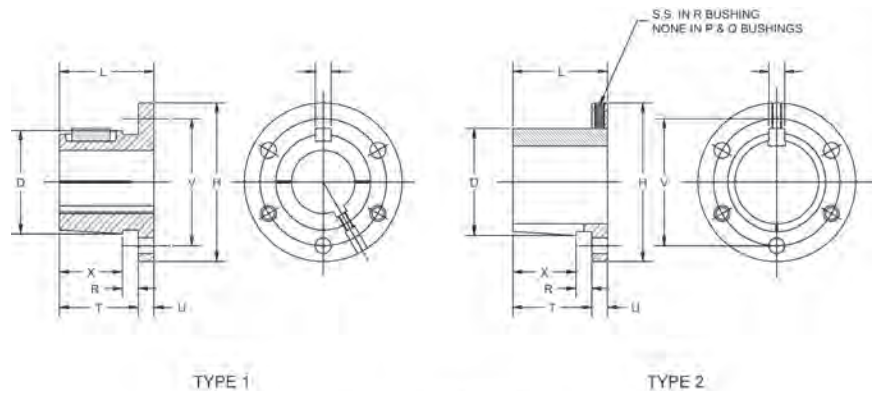
- Under 2" uses self lube bronze bushing materials
- Over 2" uses grease port drilled in hub to spiral bronze bush



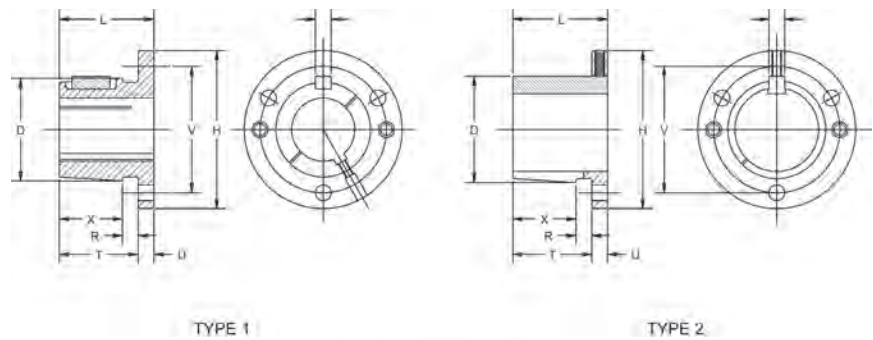
SPLIT TAPER BUSHINGS

When compatibility really matters

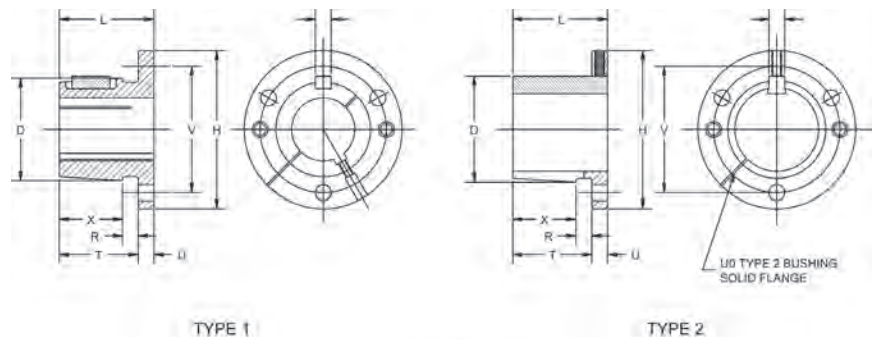
B, P, Q & R Bushings



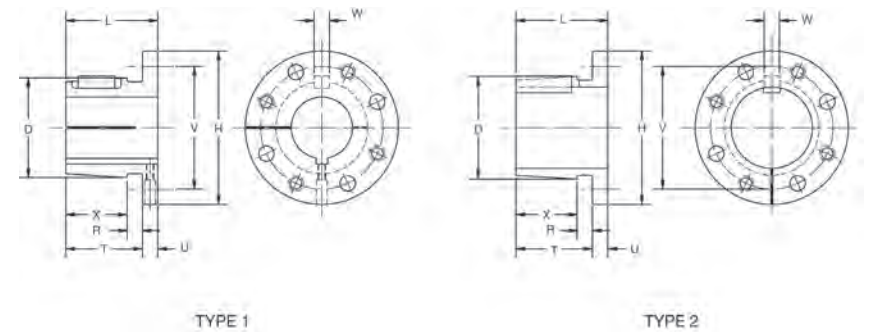
S Bushings



U Bushings



W Bushings



ASME (ANSI) Split Taper Bushings

All dimensions in inches unless otherwise stated.

Hub Number	Dimensions										Bore Range		Cap Screws		Approx. Weight (lbs.)	Wrench Torque in. lbs.
	L	U	T	D		H	V	W	X	R	Type 1	Type 2	No.	Size		
				Large End	Small End											
G1	1	1/4	3/4	1.1720	1.1330	2	1 9/16	-	5/8	1/8	3/8 - 15/16	1	2	1/4 x 5/8	0.5	95
H1	1 1/4	1/4	1	1.6250	1.5700	2 1/2	2	-	7/8	1/8	3/8 - 1 3/8	1 7/16 - 1 1/2	2	1/4 x 3/4	0.8	95
P1	1 15/16	13/32	1 17/32	1.9375	1.8555	3	2 7/16	3/8	1 5/16	7/32	1/2 - 1 7/16	1 1/2 - 1 3/4	3	5/16 x 1	1.3	192
P2	2 15/16	13/32	2 17/32	1.9375	1.7930	3	2 7/16	3/8	2 5/16	7/32	3/4 - 1 7/16	1 1/2 - 1 3/4	3	5/16 x 1	1.5	192
B	1 15/16	1/2	1 7/16	2.6250	2.5567	3 11/16	3 1/8	1/2	1 3/16	1/4	1/2 - 1 15/16	2 - 2 7/16	3	5/16 x 1 1/4	1.8	192
Q1	2 1/2	17/32	1 31/32	2.8750	2.7657	4 1/8	3 3/8	1/2	1 3/4	7/32	3/4 - 2 1/16	2 1/8 - 2 11/16	3	3/8 x 1 1/4	3.5	348
Q2	3 1/2	17/32	2 31/32	2.8750	2.7032	4 1/8	3 3/8	1/2	2 3/4	7/32	1 - 2 1/16	2 1/8 - 2 5/8	3	3/8 x 1 1/4	4.5	348
R1	2 7/8	5/8	2 1/4	4.0000	3.8750	5 3/8	4 5/8	3/4	2	1/4	1 1/8 - 2 13/16	2 7/8 - 3 3/4	3	3/8 x 1 3/4	7.5	348
R2	4 7/8	5/8	4 1/4	4.0000	3.7500	5 3/8	4 5/8	3/4	4	1/4	1 3/8 - 2 13/16	2 7/8 - 3 5/8	3	3/8 x 1 3/4	11	348
S1	4 3/8	3/4	3 5/8	4.6250	4.4180	6 3/8	5 3/8	3/4	3 5/16	5/16	1 11/16 - 3 3/16	3 1/4 - 4 1/4	3	1/2 x 2 1/4	14	840
S2	6 3/4	3/4	6	4.6250	4.2696	6 3/8	5 3/8	3/4	5 11/16	5/16	1 7/8 - 3 3/16	3 1/4 - 4 3/16	3	1/2 - 2 1/4	19	840
U0	5 1/4	1 1/16	4 3/16	6.0000	5.7656	8 3/8	7	1 1/4	3 3/4	7/16	2 3/8 - 3 1/16	-	3	5/8 x 2 3/4	30	1680
U0	4 15/16	3/4	4 3/16	6.0000	5.7656	8 3/8	7	1 1/4	3 3/4	7/16	3 1/4 - 4 1/4	4 3/8 - 5 1/2	3	5/8 x 2 3/4	27	1680
U1	7 1/8	1 1/16	6 1/16	6.0000	5.6485	8 3/8	7	1 1/4	5 5/8	7/16	2 3/8 - 4 1/4	4 3/8 - 5 1/2	3	5/8 x 2 3/4	40	1680
U2	10 1/8	1 1/16	9 1/16	6.0000	5.4610	8 3/8	7	1 1/4	5 5/8	7/16	2 7/16 - 4 1/4	4 3/8 - 5	3	5/8 x 2 3/4	50	1680
W1	8 1/4	1 7/16	6 13/16	8.5000	6.1018	12 1/2	10	1 1/4	6 3/8	7/16	3 3/8 - 6 3/16	6 1/4 - 7 7/16	4	3/4 x 3	104	3000
W2	11 1/4	1 7/16	9 13/16	8.5000	7.9144	12 1/2	10	1 1/4	9 3/8	7/16	3 3/8 - 6 3/16	6 1/4 - 7 7/16	4	3/4 x 3	133	3000

Metric Split Taper Bushings

All dimensions in inches unless otherwise stated.

Bore Range	14	15	16	18	19	20	22	24	25	28	30	32	35	36	38
Keyway (mm)	5 x 5	5 x 5	5 x 5	6 x 6	6 x 6	6 x 6	6 x 6	8 x 7	8 x 7	8 x 7	8 x 7	10 x 8	10 x 8	10 x 8	10 x 8
G	X		X	X	X	X	X	X	X						
H	X		X	X	X	X	X	X	X	X	X	X	X	X	X
P1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B				X	X	X	X	X	X	X	X	X	X	X	X
Q1				X	X	X	X	X	X	X	X	X	X	X	X
R1										X	X	X	X	X	X
R2													X	X	X

Note - X denotes that the Split Taper Bushing is also available with metric bore size/keyway. All metric bores are supplied with imperial threads. All bushings can be supplied in steel, stainless steel and other materials. Consult Tsubaki for more details.

Metric Split Taper Bushings

All dimensions in inches unless otherwise stated.

Bore Range	39	40	42	45	48	50	55	60	65	70	75	80	85	90	95
Keyway (mm)	12 x 8	12 x 8	12 x 8	14 x 9	14 x 9	14 x 9	16 x 10	18 x 11	18 x 11	20 x 12	20 x 12	22 x 14	22 x 14	25 x 14	25 x 14
G															
H															
P1	X	X	X												
B	X	X	X	X	X	X	X	X	X						
Q1	X	X	X	X	X	X	X	X	X	X					
R1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
S1			X	X	X	X	X	X	X	X	X	X	X	X	X

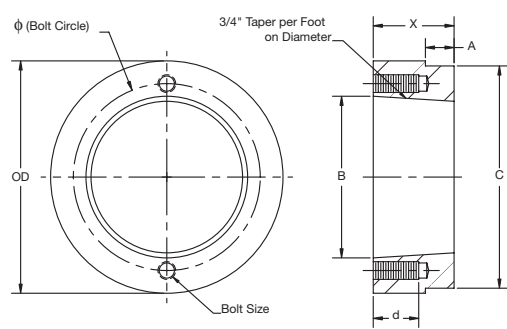
Note - X denotes that the Split Taper Bushing is also available with metric bore size/keyway. All metric bores are supplied with imperial threads. All bushings can be supplied in steel, stainless steel and other materials. Consult Tsubaki for more details.

SPLIT TAPER HUBS

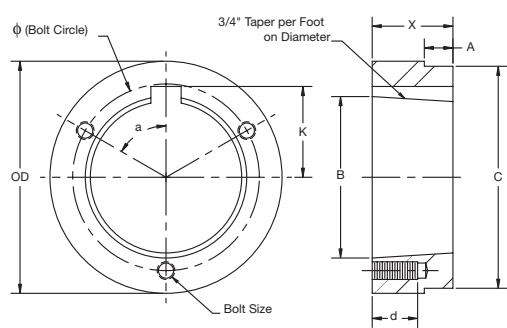
Tsubaki offers a complete line of Split Taper style weld-on hubs for insertion and welding to produce “B” style sprockets, sheaves and other applications without hub protrusion. To provide greater strength for this type of shaft locking mechanism and reduce heat distortion caused by welding, these hubs are dimensionally the same as our sprocket items. Special dimension hubs are available on a Made-to-Order basis. All Tsubaki hubs are made from steel bar stock (not powdered or sintered metal). The Split Taper style weld-on hubs listed below include appropriate tapered bores and mounting holes.

All dimensions in inches unless otherwise stated.

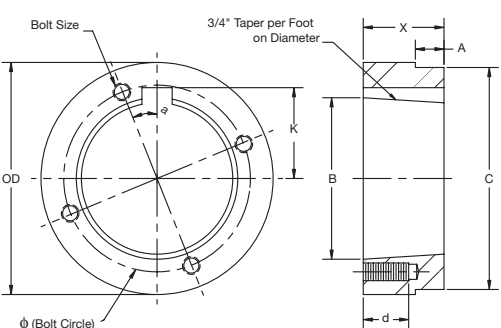
Hub	Bushing										Tapped Holes			Weight (lbs.)
		O.D.	A	B	C	K	V	W	X	a(°)	d	No.	Size	
G1W	G	2	0.174	1.168	1.875	-	1 9/16	-	5/8	-	5/8	2	1/4 - 20	0.4
H1W	H	2 1/2	0.174	1.621	2.375	-	2	-	7/8	-	7/8	2	1/4 - 20	0.6
P1W	P1	3	0.292	1.9375	2.875	1 3/32	2 7/16	3/8	1 5/16	60	5/8	3	5/16 - 18	1.4
P2W	P2	3	1.100	1.9375	2.875	1 3/32	2 7/16	3/8	2 5/16	60	5/8	3	5/16 - 18	2.5
B1W	B	3 7/8	0.292	2.623	3.750	1 7/16	3 1/8	1/2	1 5/16	60	13/16	3	5/16 - 18	2.3
B2W	B	4 1/2	0.709	2.623	4.375	1 7/16	3 1/8	1/2	1 3/4	60	13/16	3	5/16 - 18	4.7
Q1W	Q1	4 1/2	0.709	2.875	4.375	1 9/16	3 3/8	1/2	1 3/4	60	7/8	3	3/8 - 16	4.4
Q2W	Q2	4 1/2	1.606	2.875	4.375	1 9/16	3 3/8	1/2	2 3/4	60	7/8	3	3/8 - 16	6.9
R1W	R1	5 3/4	0.709	4.000	5.625	2 3/16	4 5/8	3/4	2	60	1 1/8	3	3/8 - 16	7.3
R2W	R2	5 3/4	1.606	4.000	5.625	2 3/16	4 5/8	3/4	4	60	1 1/8	3	3/8 - 16	15
S1W	S1	6 3/4	0.946	4.625	6.500	2 9/16	5 3/8	3/4	3 5/16	60	1 5/8	3	1/2 - 13	17
S2W	S2	6 3/4	2.963	4.625	6.500	2 9/16	5 3/8	3/4	5 11/16	60	1 5/8	3	1/2 - 13	30
U0W	U0	8 1/2	2.000	6.000	8.250	3 1/4	7	1 1/4	3 3/4	60	2	3	5/8 - 11	32
U1W	U1	8 1/2	2.963	6.000	8.250	3 1/4	7	1 1/4	5 5/8	60	1 3/4	3	5/8 - 11	45
U2W	U2	8 1/2	6.016	6.000	8.250	3 1/4	7	1 1/4	8 5/8	60	1 3/4	3	5/8 - 11	69
W1W	W1	12 1/2	2.963	8.500	12.250	4 9/16	10	1 1/4	6 3/8	22 1/2	1 3/4	4	3/4 - 10	130



For Bushings □ and □



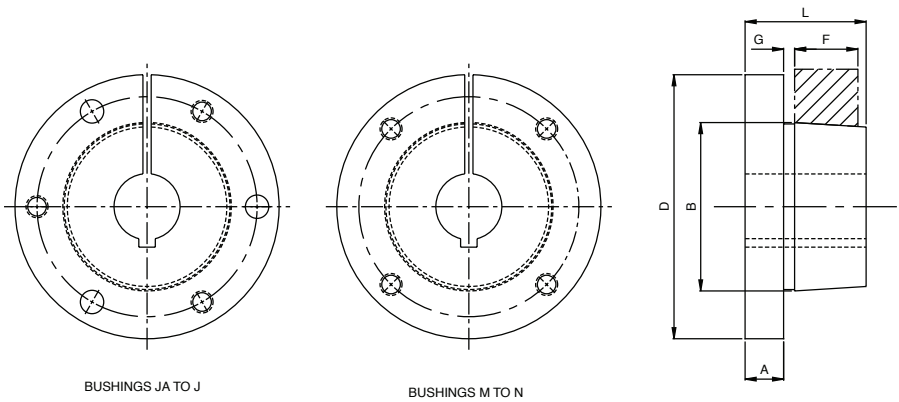
For Bushings P, B, Q, R, S, and U



For Bushing W

“QD” STYLE BUSHING

When compatibility really matters



BUSHINGS JA TO J

BUSHINGS M TO N

ASME (ANSI) “QD” Style Bushings

All dimensions in inches unless otherwise stated.

Bushing	A	B	D	F	G	L	j Bolt Circle	Cap Screws Required	Standard Keyway	Shallow Keyway	Without Keyway	Weight (lbs.)
JA	5/16	1 3/8	2	9/16	1/8	1	1 21/32	(3) #10 x 1	1/2—1	1 1/16—1 3/16	1 1/4	0.8
SH	7/16	1 7/8	2 5/8	3/4	1/8	1 5/16	2 1/4	(3) 1/4 x 1 3/8	1/2—1 3/8	1 7/16—1 5/8	1 11/16	0.7
SDS	7/16	2 3/16	3 3/16	3/4	1/8	1 5/16	2 11/16	(3) 1/4 x 1 3/8	1/2—1 11/16	1 3/4—1 15/16	2	1.0
SD	7/16	2 9/16	3 9/16	1 1/4	1/8	1 13/16	2 11/16	(3) 1/4 x 1 7/8	1/2—1 11/16	1 3/4—1 15/16	2	1.0
SK	9/16	2 13/16	3 7/8	1 1/4	7/32	1 15/16	3 5/16	(3) 5/16 x 2	1/2—2 1/8	2 3/16—2 1/2	2 9/16—2 5/8	2.1
SF	5/8	3 1/8	4 5/8	1 1/4	7/32	2 1/16	3 7/8	(3) 3/8 x 2	1/2—2 5/16	2 3/8—2 13/16	2 13/16—2 15/16	3.1
E	7/8	3 53/64	6	1 5/8	1/4	2 3/4	5	(3) 1/2 x 2 3/4	7/8—2 7/8	2 15/16—3 1/2	—	2.1
F	1	4 7/16	6 5/8	2 1/2	11/32	3 3/4	5 5/8	(3) 9/16 x 3 5/8	1—3 1/4	3 3/16—3 15/16	4	3.1
J	1 1/8	5 5/64	7 1/4	3 3/16	3/8	4 5/8	6 1/4	(3) 5/8 x 4 1/2	1 1/2—3 7/8	3 15/16—4 1/2	—	16.8
M	1 1/4	6 1/2	9	5 3/16	13/32	6 3/4	7 7/8	(4) 3/4 x 6 3/4	2—4 3/4	4 7/8—5 1/2	—	56.0
N	1 1/2	7	10	6 1/4	9/16	8 1/8	8 1/2	(4) 7/8 x 8	2 7/16—5 1/8	5 3/16—5 1/2	—	68.0

All bushings can be supplied in steel, stainless steel and other materials. Consult Tsubaki for more details.
j Available Upon Request

Metric “QD” Style Bushings

All dimensions in inches unless otherwise stated.

Bore Range	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70	75	80	85	90	95	100
Keyway (mm)	8x3.3	8x3.3	8x3.3	8x3.3	10x3.3	10x3.3	10x3.3	12x3.3	12x3.3	14x3.3	14x3.3	14x3.3	16x4.3	18x4.4	18x4.4	20x4.9	20x4.9	22x5.4	22x5.4	25x5.4	25x5.4	28x6.4
Bushing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SDS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SK	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SF	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
F	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
J	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Note - X denotes that the QD Bushing is also available with metric bore size keyway.
All metric bores are supplied with imperial threads.
All bushings can be supplied in steel, stainless steel and other materials. Consult Tsubaki for more details.

“XT” STYLE BUSHINGS

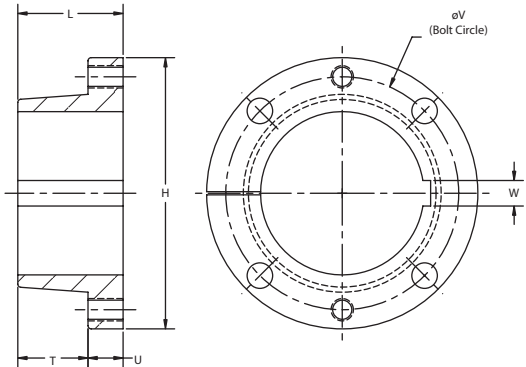
“XT” style bushings have been designed specifically for conveyor pulley applications. They offer improved holding power and ease of installation and removal compared to other bushing types. “XT” style bushings are available for all the major types and sizes of conveyor pulleys.

All dimensions in inches unless otherwise stated.

Bushing Number	Dimensions						Bore Range	Cap Screws		Approximate Weight (lbs.)	Wrench Torque (in. lbs.)
	L	U	T	H	V	W		Number	Size		
XTB15	1 1/8	3/8	3/4	2 7/8	2 7/16	3/16 1/4 3/8	5/8, 3/4, 7/8 1, 1 1/8, 1 3/16, 1 1/4 1 7/16, 1 1/2	4	1/4 x 1	0.7	95
XTB20	1 13/32	15/32	15/16	3 3/4	3 3/16	3/16 1/4 3/8 1/2	3/4 1, 1 3/16, 1 1/4 1 7/16, 1 1/2, 1 11/16 1 15/16, 2	4	5/16 x 1 1/4	1.5	200
XTB25	1 7/8	5/8	1 1/4	4 7/16	3 3/4	1/4 3/8 1/2 5/8	1, 1 3/16, 1 1/4 1 7/16, 1 1/2, 1 11/16 1 15/16, 2, 2 3/16 2 7/16	4	3/8 x 1 3/4	2.6	350
XTB30	2 1/16	11/16	1 3/8	5 5/16	4 9/16	3/8 1/2 5/8 3/4	1 7/16, 1 1/2 1 15/16, 2 3/16 2 7/16, 2 11/16 2 15/16	4	7/16 x 1 1/2	4.2	550
XTB35	2 15/32	25/32	1 11/16	6 5/16	5 7/16	1/2 5/8 3/4 7/8	1 15/16, 2 3/16 2 7/16, 2 11/16 2 15/16 3 7/16	4	1/2 x 1 3/4	7.4	840
XTB40	2 13/16	7/8	1 15/16	7 1/8	6 1/8	5/8 3/4 7/8 1	2 7/16 2 15/16 3 7/16 3 15/16	4	9/16 x 2	10.5	1,200
XTB45	3 5/16	15/16	2 3/8	8	6 7/8	7/8 1 1	3 7/16 3 15/16 4 7/16	4	5/8 x 2 1/4	14.8	1,680
XTB50	3 3/4	1	2 3/4	10 1/8	8 5/16	1 1 1 1/4	3 15/16, 4 7/16 4 15/16	4	3/4 x 2 1/2	27.8	3,000
XTB60	4 1/8	1 1/8	3	11 15/16	9 7/8	1 1/4 1 1/2	5 7/16, 5 1/2 5 15/16, 6	4	7/8 x 2 1/2	42.8	4,800
XTB70	4 11/16	1 5/16	3 3/8	13 15/16	11 9/16	1 1/2 1 3/4	6 7/16, 6 1/2 6 15/16, 7	4	1 x 3	66.3	7,200
XTB80	5 1/8	1 3/8	3 3/4	15 5/8	12 7/8	1 3/4 2	7 1/2 7 15/16, 8	4	1 1/8 x 3 1/2	85.7	9,000
XTB100	6 3/16	1 9/16	4 5/8	17 15/16	15 9/16	2 2 1/2	8 1/2, 9 9 7/16, 9 1/2, 10	6	1 1/8 x 3 1/2	146.0	9,000
XTB120	7 1/16	1 3/4	5 15/16	20 5/8	18 3/16	2 1/2 3	10 1/2, 11 11 1/2, 12	8	1 1/8 x 3 1/2	216.0	9,000

Features:

- Self seating
- Reduced end disc pre-stressing
- Minimal axial shaft movement
- Equally spaced bolts for uniform draw-up
- Capscrew torque-storing capacity is maximized by the flange
- Full length engagement with the hub
- Full size keys in maximum bushing bore sizes 50 and larger



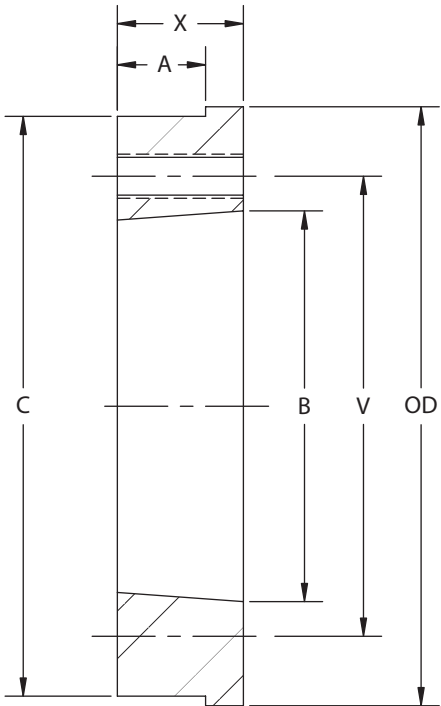
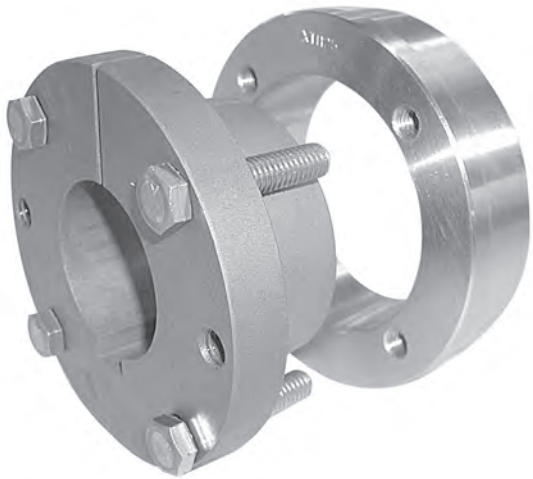
“XT” STYLE WELD-ON HUBS

When compatibility really matters

Tsubaki offers a complete line of “XT” style weld-on hubs for insertion and welding. Special dimensional hubs are available per your specifications on a Made-to-Order basis. All Tsubaki hubs are made from steel bar stock (not powdered or sintered metal). The “XT” style weld-on hubs listed below include appropriate tapered bores and mounting holes.

All dimensions in inches unless otherwise stated.

Hub Number	Bushing Used	O.D.	A	Dimensions			V	X	Tapped Holes		Weight (lbs.)
				B	C				No.	Size	
XTH15	XTB15	3.190	7/16	2.000	2.875		27/16	5/8	4	1/4 - 20UNC	0.7
XTH20	XTB20	4.065	9/16	2.688	3.813		33/16	13/16	4	5/16 - 18UNC	1.5
XTH25	XTB25	4.690	13/16	3.188	4.375		33/4	1 1/8	4	3/8 - 16UNC	2.6
XTH30	XTB30	5.940	7/8	3.875	5.750		49/16	1 1/4	4	7/16 - 14UNC	4.1
XTH35	XTB35	6.565	1 1/16	4.688	6.345		57/16	1 1/2	4	1/2 - 13UNC	6.6
XTH40	XTB40	7.562	1 1/4	5.313	7.250		61/8	1 3/4	4	9/16 - 12UNC	11
XTH45	XTB45	8.315	1 1/2	5.938	8.000		67/8	2 1/8	4	5/8 - 11UNC	15
XTH50	XTB50	9.940	1 3/4	7.250	9.563		85/16	2 1/2	4	3/4 - 10UNC	25
XTH60	XTB60	11.690	1 15/16	8.625	11.250		97/8	2 3/4	4	7/8 - 9UNC	36
XTH70	XTB70	13.627	23/16	10.000	13.188		119/16	3 1/8	4	1 - 8UNC	58
XTH80	XTB80	14.940	27/16	11.125	14.625		127/8	3 7/16	4	1 1/8 - 7UNC	76
XTH100	XTB100	17.940	3	13.688	17.500		159/16	4 1/8	6	1 1/8 - 7UNC	122
XTH120	XTB120	20.940	3 1/2	16.188	20.500		1813/16	4 13/16	8	1 1/8 - 7UNC	189



Features:

- Self seating
- Reduced end disc pre-stressing
- Minimal axial shaft movement
- Equally spaced bolts for uniform draw-up
- Capscrew torque-storing capacity is maximized by the flange
- Full length engagement with the hub
- Full size keys in maximum bushing bore sizes 50 and larger

POWER-LOCKS

When easy installation really matters

Tsubaki Power-lock Features and Benefits:

- 1. Well-engineered, adjustable and affordable device that solves engineering and maintenance difficulties associated with other connection alternatives.
- 2. Shaft-to-hub friction connection that relies on concentric surface pressure to affix gears, sprockets and other drive components to a motor-driven shaft, thus allowing easy attachment of shaft to hub without the time and money spent on machining or extra assembly labour.

- 3. Eliminates problems with keyway connections and limitations for QD and tapered bushings.
- 4. Frictional, keyless system that enables transmission of high-torque and axial loads, and accomodates reversing, dynamic or shock loading.
- 5. Tsubaki Power-Locks can be used in such common applications as the connection of timing pulleys, sheaves, conveyor pulleys, indexing applications, sprockets, gears, cams, levers, motors and hydraulics, clutches and brakes and flange couplings.

Available in both Inch and Metric sizes in a variety of styles.



AS Inch and Metric Series Power-Lock

Multi-purpose locking devices available in stainless steel and electroless nickel-plated finish, in addition to standard models.
Bore range: 0.75" to 12" (19mm to 300mm)
Also available in larger sizes. Please contact Tsubaki.



AD Metric Series Power-Lock

Capable of transmitting 1.5 to 3 times the AS Series rated torque capacity. Suitable for applications requiring very high torque.
Bore range: 0.75" to 12" (19mm to 300mm)



KE Inch Series Power-Lock

Suitable for small shafts with a wide range of tolerances (m6, k6, js6, h6~h10).
Available in stainless steel and electroless nickel-plated KP models.
Bore range: 0.1875" to 4" (5mm to 100mm)



AE Metric Series Power-Lock

Simply constructed units with only an inner and an outer ring with a few locking bolts.
Bore range: 19mm to 150mm



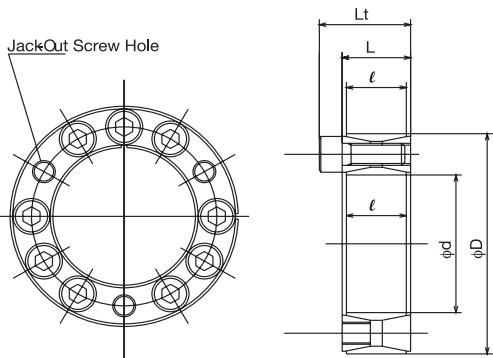
EL Metric Series Power-Lock

Although these shaft-hub locking devices cannot connect independently, they require minimum installation space and offer compact design configurations.
Bore range: 10mm to 150mm

AS Inch Series Power-Lock

Specification Table

d = inside diameter of Power-Lock and outside diameter of the shaft.
T₁ = machining tolerances for shaft.
D = outer diameter of Power-Lock and hub counter bore inside diameter.
T₂ = machining tolerances for hub counter bore (D).
ℓ, L, Lt = width dimensions after tightening of the screws.
F = maximum transmissible axial force.
M_t = maximum transmissible torque.
pH = contact pressure between Power-Lock and hub bore.
pS = contact pressure between Power-Lock and shaft.
M_A = required tightening torque per locking screw.
D_N = Minimum hub outside diameter for single Power-Lock installation (K₃=0.6) and is based on Y.P. 32,000 psi hub material.
For other hub materials, calculate the hub o.d. per the Selection Guide.



All dimensions in inches unless otherwise stated.

Model Number	Power Lock Dimensions							Max. F (lbf)	Max. M _t (ft-lb)	Pressures		Locking Screws			Minimum Hub Dia. D _N
	d	T ₁	D	T ₂	ℓ	L	Lt			pH (psi)	pS (psi)	Qty.	Size (mm)	M _A (ft-lb)	
PL 3/4	0.750		1.850		0.709	0.787	1.024	5,940	188	12,370	30,290	6	M6 x 18	12	2,345
PL 7/8	0.875	+0	1.850	-0	0.709	0.787	1.024	5,940	217	12,370	26,020	6	M6 x 18	12	2,345
PL1	1.000	-0.0013	1.969	+0.0013	0.709	0.787	1.024	7,480	318	14,650	29,010	8	M6 x 18	12	2,615
PL1 1/8	1.125		2.165		0.709	0.787	1.024	7,480	354	13,370	25,450	8	M6 x 18	12	2,790
PL1 3/16	1.188		2.159		0.709	0.819	1.055	7,480	376	13,370	24,320	8	M6 x 18	12	2,790
PL1 1/4	1.250		2.362		0.709	0.787	1.024	9,460	499	15,360	29,010	10	M6 x 18	12	3,180
PL1 3/8	1.375		2.365		0.709	0.773	1.009	9,460	550	15,360	26,310	10	M6 x 18	12	3,185
PL1 7/16	1.438		2.559		0.709	0.787	1.024	10,560	637	15,500	27,730	11	M6 x 18	12	3,455
PL1 1/2	1.500	-0.0015	2.559	+0.0015	0.709	0.787	1.024	10,560	658	15,500	26,590	11	M6 x 18	12	3,455
PL1 5/8	1.625		2.953		0.827	0.945	1.260	15,840	1,085	17,490	31,570	9	M8 x 22	30	4,155
PL1 11/16	1.688		2.953		0.827	0.945	1.260	15,840	1,122	17,490	30,480	9	M8 x 22	30	4,155
PL1 3/4	1.750		2.953		0.827	0.945	1.260	15,840	1,164	17,490	29,940	9	M8 x 22	30	4,155
PL1 7/8	1.875		3.150		0.827	0.945	1.260	15,840	1,244	16,350	27,440	9	M8 x 22	30	4,325
PL1 15/16	1.938		3.150		0.827	0.945	1.260	15,840	1,287	16,350	26,590	9	M8 x 22	30	4,325
PL2	2.000		3.346		0.827	0.945	1.260	19,360	1,627	18,910	31,570	11	M8 x 22	30	4,850
PL2 1/8	2.125		3.346		0.827	0.945	1.260	19,360	1,729	18,910	29,360	11	M8 x 22	30	4,850
PL2 3/16	2.188		3.543		0.827	0.945	1.260	19,360	1,779	17,780	28,870	11	M8 x 22	30	5,015
PL2 1/4	2.250		3.543		0.827	0.945	1.260	19,360	1,827	17,780	28,070	11	M8 x 22	30	5,015
PL2 3/8	2.375		3.531		0.827	1.008	1.323	19,360	1,931	17,780	26,590	11	M8 x 22	30	4,995
PL2 7/16	2.438	+0	3.740	-0	0.827	0.945	1.260	21,120	2,170	18,340	28,010	12	M8 x 22	30	5,355
PL2 1/2	2.500	-0.0018	3.740	+0.0018	0.827	0.945	1.260	21,120	2,228	18,340	27,300	12	M8 x 22	30	5,355
PL2 9/16	2.563		3.737		0.827	0.962	1.277	21,120	2,278	18,340	26,730	12	M8 x 22	30	5,350
PL2 5/8	2.625		4.337		0.984	1.073	1.467	31,020	3,400	19,340	31,940	11	M10 x 25	60	6,345
PL2 11/16	2.688		4.337		0.984	1.073	1.467	31,020	3,480	19,340	31,200	11	M10 x 25	60	6,345
PL2 3/4	2.750		4.337		0.984	1.073	1.467	31,020	3,537	19,340	30,430	11	M10 x 25	60	6,345
PL2 7/8	2.875		4.528		0.984	1.102	1.496	31,020	3,732	18,490	29,150	11	M10 x 25	60	6,505
PL2 15/16	2.938		4.528		0.984	1.102	1.496	31,020	3,812	18,490	28,580	11	M10 x 25	60	6,505
PL3	3.000		4.724		0.984	1.102	1.496	31,020	3,855	17,780	28,010	11	M10 x 25	60	6,685
PL3 3/8	3.375		4.921		0.984	1.102	1.496	33,660	4,745	18,630	27,160	12	M10 x 25	60	7,090
PL3 7/16	3.438		5.118		0.984	1.102	1.496	33,660	4,846	17,920	26,730	12	M10 x 25	60	7,260
PL3 1/2	3.500		5.118		0.984	1.102	1.496	33,660	4,933	17,920	26,160	12	M10 x 25	60	7,260
PL3 3/4	3.750	+0	5.305	-0	0.984	1.151	1.544	36,520	5,729	18,770	26,590	13	M10 x 25	60	7,665
PL3 15/16	3.938	-0.0021	5.708	+0.0021	1.142	1.302	1.774	45,100	7,378	18,490	26,730	11	M12 x 30	105	8,200
PL4	4.000		5.843		1.142	1.299	1.772	45,100	7,522	18,060	26,310	11	M12 x 30	105	8,315
PL4 7/16	4.438		6.496		1.142	1.299	1.772	49,280	9,114	17,780	25,880	12	M12 x 30	105	9,190
PL4 1/2	4.500		6.496		1.142	1.299	1.772	49,280	9,258	17,780	25,000	12	M12 x 30	105	9,190
PL4 15/16	4.938		7.087		1.339	1.496	1.969	61,600	12,730	17,350	24,890	15	M12 x 35	105	9,935
PL5	5.000		7.087		1.339	1.496	1.969	61,600	12,870	17,350	24,600	15	M12 x 35	105	9,935
PL5 1/2	5.500	+0	7.492	-0	1.339	1.438	1.910	65,560	15,120	17,490	23,750	16	M12 x 35	105	10,535
PL6	6.000	-0.0025	8.268	+0.0025	1.399	1.496	1.969	77,880	19,530	18,770	25,580	19	M12 x 35	105	11,945
PL6 1/2	6.500		8.858		1.575	1.732	2.283	90,200	24,450	17,210	23,460	16	M14 x 40	167	12,380
PL7	7.000		9.252		1.575	1.732	2.283	95,700	27,990	17,490	23,180	17	M14 x 40	167	13,010
PL7 1/2	7.500		9.823		1.890	2.144	2.695	112,640	35,220	16,210	21,330	20	M14 x 45	167	13,445
PL7 7/8	7.875		10.235		1.890	2.052	2.603	118,360	38,910	16,350	21,190	21	M14 x 45	167	14,050
PL8	8.000	+0	10.504	-0	1.890	2.047	2.598	118,360	39,560	15,930	20,900	21	M14 x 45	167	14,295
PL8 1/2	8.500	-0.0028	11.220	+0.0028	2.008	2.205	2.835	141,020	50,050	16,640	22,040	18	M16 x 50	257	15,436
PL9	9.000		11.669		2.008	2.205	2.835	141,020	53,020	15,930	20,760	18	M16 x 50	257	15,880
PL9 1/2	9.500		12.154		2.008	2.205	2.835	156,640	62,200	17,210	21,900	20	M16 x 50	257	16,985
PL10	10.000		12.795		2.008	2.205	2.835	180,180	75,220	18,770	23,890	23	M16 x 50	257	18,485
PL10 1/2	10.500		13.319		2.008	2.205	2.835	180,180	78,840	18,060	22,750	23	M16 x 50	257	18,950
PL11	11.000	+0	14.000	-0	2.402	2.482	3.191	207,240	95,480	16,500	20,900	22	M18 x 60	351	19,277
PL11 13/16	11.813	-0.0032	14.762	-0.0032	2.402	2.606	3.314	224,400	111,400	17,060	21,330	24	M18 x 60	351	20,565

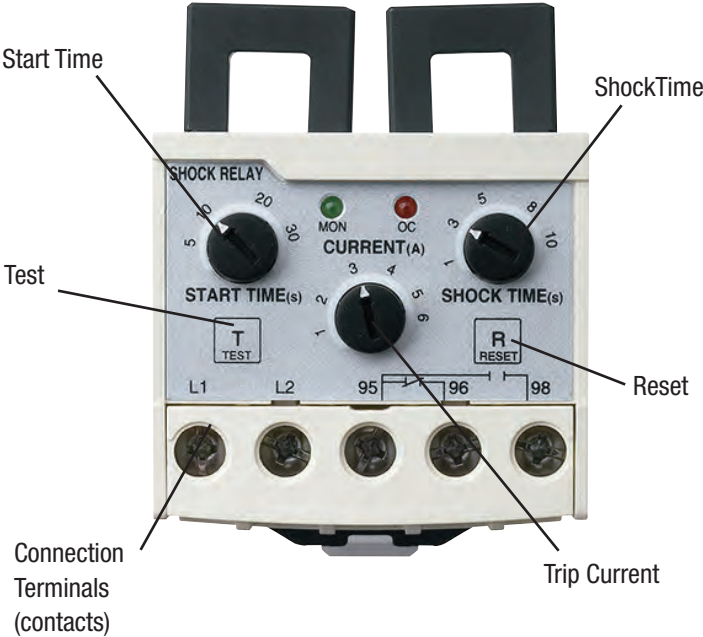
At Tsubaki, our commitment is to bring you the highest value in the industry today. Period.

And as a full line supplier of power transmission products, this commitment extends to our complete line of Shock Relay products as well.

Protect your equipment and investment with Tsubaki shock relays and external current transformers. Unexpected shock loads can damage chains, drives, gears, turbines – entire mechanical assemblies. That means high maintenance, costly repairs and expensive downtime.

Simply put, when the shock relay detects a problem, it acts like an electronic shear pin that shuts down the line – quickly, safely and securely. That means big savings in both time and money.

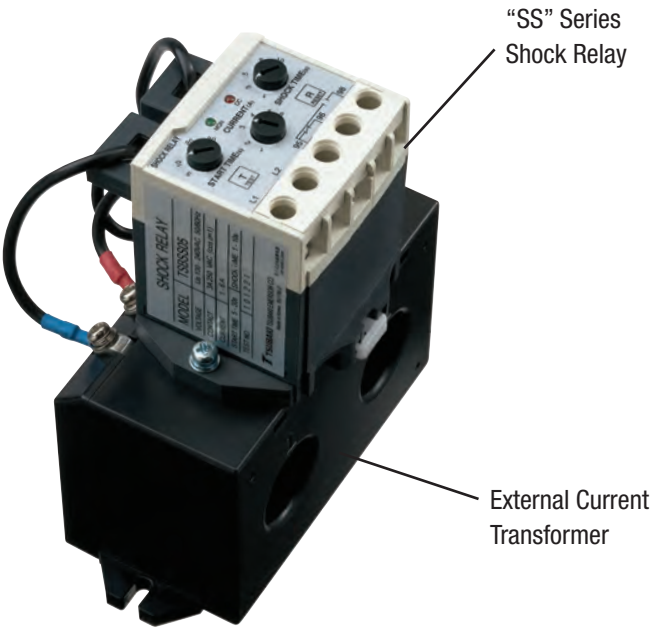
After the problem is corrected, the shock relay is reset at the touch of a button. No tear down is required. That means improved efficiency and reduced downtime.



“SS” Series Shock Relay Plus External Current Transformer

Model Numbers: TSBSS100, TSBSS200 and TSBSS300

The external current transformer is wired together with the “SS” series shock relay to provide overload protection for applications using large motors – typically over 100A.



Standard Specification

Standard Usage			TSBSS05	TSBSS30	TSBSS60	TSBSS100	TSBSS200	TSBSS300
	Load current (current setting range) *3		0.5~5A	3~30A	5~60A	10~100A	20~200A	30~300A
	Applicable motor capacity	200V class	0.08hp - 1.5hp	2hp - 7.5hp	10hp - 15hp	20hp - 25hp	30hp - 50hp	60hp - 100hp
		400V class	0.27hp - 3hp	5hp - 15hp	20hp - 30hp	40hp - 60hp	75hp - 120hp	150hp - 175hp*4
	Work environment	Ambient temperature	-20°C~60°C					
		Ambient humidity	45-85%RH; no condensation					
		Vibration	Less than 5.9m/s²					
		Altitude	Less than 1000m					
Ambient atmosphere		No corrosive gas, dust						
Unit model No.		TSBSS05	TSBSS30	TSBSS60	TSBSS05	TSBSS05	TSBSS05	
Current setting accuracy		10% (full scale)						
Unit Parts	Set time range	Start time *3	0.2~30s					
		Shock time *3	0.2~10s					
	Operation power source (L1-L2)		AC90~250V, 50/60Hz					
	Maximum motor circuit voltage		AC600V, 50/60Hz					
	Current detection system		Two-phase CT system					
	Output Relay *1	Self-holding	Includes self-holding					
		Normal state	At start up there is a 0.5s delay, then the output relay engages					
		At the time of trip	When it trips or the power is shut off, the output relay is not engaged					
		Contact capacity	1c contact, AC250V 3A (in the case of a resistance load)					
		Min. applicable load *2	DC10V, 10mA					
		Reset method	Press the RESET button or cut the operation power					
	Output relay life span	Mechanical	100,000,000 times					
		Electrical	100,000 times					
	Test functions		internal circuit and output relay operation check					
	Withstand voltage	Between the circuit & case	AC2000V, 60Hz, 1 minute (power supply circuit and contact circuit)					
		Between contacts	AC1000V, 60Hz, 1 minute					
		Between circuit	AC2000V, 60Hz, 1 minute (power supply circuit and contact circuit)					
	Gross mass		0.2kg (not including external CT)					
	Power consumption	When AC110V	2.7VA (0.35W)					
		When AC200V	11.0VA (1.2W)					
	DIN rail mounting		0			X		
cUL		0			X			
CE		0			X			
External CT Portion	External CT Model No.		Not needed			TSB2CT100	TSB2CT200	TSB2CT300
	Rated primary current		-			100A	200A	300A
	Rated secondary current		-			5A		
	Rated load		-			5VA		
	Mass		-			0.5kg		

Notes: *1. During normal operation the ouput relay is ON, and when the Shock Relay operates it is OFF.
*2. When directly inputting output relay contact into the programmable controller (PLC), be aware that a minute electric current can cause contact failure.
As for the input to PLC, it is recommended to drive the relay coil for minute current by relay signal of Shock Relay at first, then input this relay contact to PLC.
*3. Current and time setting ranges can be set within the warranty range, but not the upper or lower level of setting volume.
*4. When motor size is over 175hp, please contact Tsubaki.

Digital Display Shock Relay & External Current Transformer
Model Number: TSBED

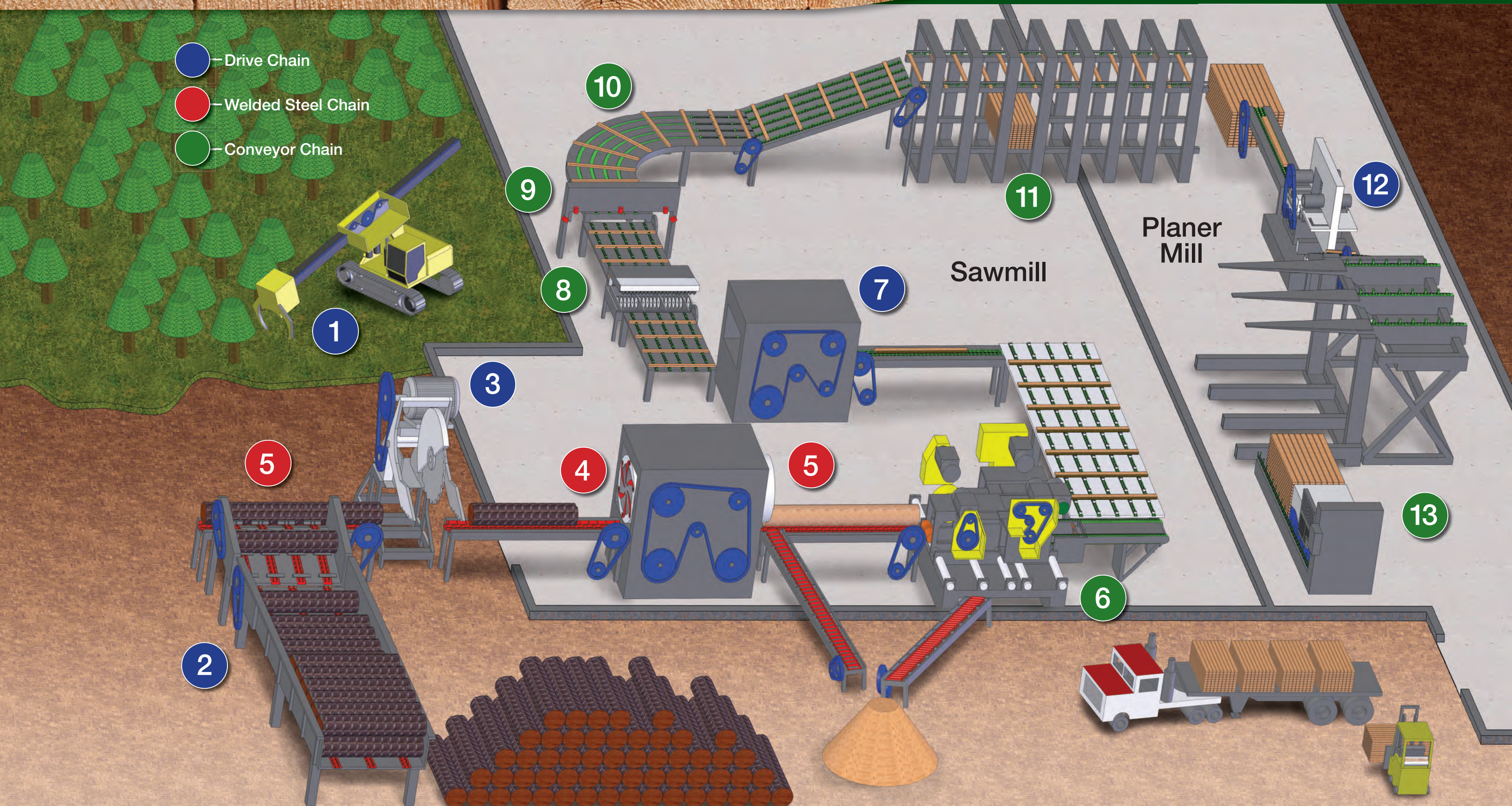


SAWMILL/PLANER MILL LAYOUT

Application		Challenge	Products			
			Tsubaki Solution			WSC (Welded steel chain)
			Chain Family	Chain Product	Sprockets	
1	Delimber	Impact load from operating conditions.	Tsubaki Standard Premium G7 Chain	RS120-2 cott, RS140-2 cott	Usually 11,12 or 16T with high hardness and as per drawing.	
2	Log Unscrambler	Log diameter varies from mill to mill, operating overload and jam-ups are common. Sand/grit conditions can lead to abrasion on WSC.	Super Series Roller Chain	RS100HT to 200HT	Remote and need quick changout – use Split Style. Forward/backward operation can result in keyway backlash – use Powerlock.	WR82XHD, WR124(XHD), WR132(XHD) Consider IBR for abrasive resistance.
3	Cross Cut Slasher	Remote access, Lambda offers maintenance-free operation.	Lambda Roller Chain	RSD100Lambda to RSD140Lambda	Remote and need quick change – use Split Style.	WR124(XHD), WR132(XHD)
4	Debarker Infeed Conveyor	Start/stop operation that is required by the operator which places demanding and varying loads on the drive chain.	Super Series Roller Chain	RS80HT to RS160HT single and multi strand.	For quick changeout – use Split Style. Forward/backward operation can result in keyway backlash – use Powerlock.	WD(H)104, 110, 120. WH124(XHD) with C cradle attachment.
	Debarker	For Ring Debarkers. Shock load from crooked logs. High speed operation.	Super Series Roller Chain	RS80HT to RS160HT single and multi strand.		WD(RS)480(XHD), also sizes 104, 110, 120 and 132. With or without wing attachments.
			SpeedMaster	RS80SM to RS160SM single and multi strand.	Knife jam-up can require back/forth operation which can cause keyway backlash – use Powerlock.	
		For Drum Debarkers. General operation overload and/or high impact.	Super Series Roller Chain	Super120 to Super160-3RB		
5	Log Deck Bin and Infeed	Access can be confined. Lambda offers maintenance-free operation.	Lambda Roller Chain	RSD100Lambda to RSD140Lambda		Log deck infeed: WHC124, 132 (IBR) Log deck: H78B camelback, WH 78, 82. WDH110, 111. WH(C) 124, 132. WH124XHD. CC5riv.
6	Main Sawline Infeed Conveyor Main Sawline Optimizer Canter Quad Canter	For Sharp Top Chain tip wear can be the limiting factor.	SpeedMaster	RS80SM to RS100SM	Quality hardened teeth.	WD(H)(RS)110, 480(XHD). Can be supplied with wing attachments.
			Sharp Top Chain	RF32B Sharp Top		
7	Edger	For Drive Chain high speed makes lubrication difficult. Lots of articulation increases wear.	SpeedMaster	RS80SM to 140SM	Quality hardened teeth. Misalignment is a common issue that reduces Sprocket life.	WD(H)(RS)110, 480(XHD). Can be supplied with wing attachments.
		For Sharp Top Chain tip wear can be the limiting factor.	Sharp Top Chain	RS80ST to RS120ST, 3 or 4 point, single or multi strand.	Quality hardened teeth.	
8	Trimmer	Relative length difference between strands is critical for proper operation. Lambda is used to increase consistent life of all strands. Limited surface contact can result in insufficient weld. Press fit is the correct construction.	81XPremium, 81XLambda, C2060H C2080H	Tsubaki quick change press fit Trimmer Lugs	Adjustable Sprockets that can be supplied as split for convenience and quick changeout.	WD(H)(RS)110, 480(XHD). Can be supplied with wing attachments.
9	Scanner	Relative length difference between strands is critical for proper operation. Lambda is used to increase consistent life of all strands.	81XPremium, 81XLambda, C2060H C2080H	SK1 or Tsubaki quick change press fit Trimmer Lug attachment every 8, 10 or 12 links.	Adjustable Sprockets that can be supplied as split for convenience and quick changeout.	
10	Curved Conveyor	Variable strand wear due to cycle difference.	RS and Lambda Curved Chain	RS80CU or RSD80CULambda c/w WSAO attachment		
11	Drop Sorter	Can only accept minimal elongation for proper indexing operation. Lambda increases wear life.	Premium Conveyor Chain. Lambda.	C2100H, C2100HLambda, 81X, 81X Lambda, 3939-B4	Quality hardened teeth. Split and adjustable at the head.	
		Maintenance-free operation.	Lambda	RSD100 to 140Lambda		
12	Planer	For Drive Chain high speed makes lubrication difficult. Lots of articulation increases wear.	SpeedMaster	RS80SM to RS140SM	Quality hardened teeth. Misalignment is a common issue that reduces Sprocket life.	
13	Stacker	Shock load.	Super Series Roller Chain or Leaf Chain	RS80HT to 140HT, BL1066	For quick changeout – use Split Style.	
	Wrapping Machine	Marking of product reduces grade and/or results in product loss.	Premium Conveyor Chain. Lambda.	81XLambda		
	Forklift		Leaf Chain	BL 844,866,1066		



FORESTRY'S
CRITICAL
APPLICATIONS



DELIMBER

LOG
UNSCRAMBLER

Application: Log Unscrambler **Savings:** \$55,700.00
Tsubaki solution: Tsubaki 200HT was selected to replace an original design using standard chain, increasing the life from 1 to 13 months.

It really mattered to this Tsubaki customer

COST SAVINGS!

Challenge	
Impact loads from harsh operating conditions are common with Delimber operations.	
Solution	Typical size range for this application
Drive chain: Tsubaki standard premium grade chain complete with G7 feature of PerforMax lube-grooved bushings and ring coined connecting links.	RS120-2 cott to RS140-2 cott
Sprockets: Premium Tsubaki sprockets with high carbon 1030 or 1045 material allow for a consistent hardened tooth that is a necessity for the demands of this application.	



RS 140-2 Chain

Power-lock
Sprocket



Split
Sprocket



Challenge	
Log diameter varies from mill to mill. Operating overload and jam-ups are common.	
Sand and grit conditions can lead to abrasion on mill chains.	
Solution	Typical size range for this application
Drive chain: HT chain provides up to 30% greater ultimate tensile strength over standard roller chain.	RS100HT to RS160HT
Mill Chain: IBR (induction hardened barrels and rivets) for abrasive resistance.	WR82XHD, WR124(XHD), WR132(XHD)
Sprockets: Remote access and the need for quick changeout can be solved by split design mill chain sprockets.	
Forward/backward operation can result in keyway backlash. The use of Powerlock sprockets eliminates the need for a keyway.	



HT Chain



CROSS CUT SLASHER

DEBARKER INFEED
CONVEYOR/DEBARKER

When strength really matters

Split
Sprocket



Lambda
Chain



Challenge	
Remote access.	
Solution	Typical size range for this application
Drive chain: Lambda chain offers maintenance-free operation.	RSD100Lambda to RSD140Lambda
Mill chain	WR124(XHD), WR132(XHD)
Sprockets: Remote access and the need for quick changeout can be solved by split design sprockets.	

Challenge – Debarker Infeed conveyor	
Start/stop operation is required by the operator. This places demanding and varying loads on the drive chain.	
Solution	Typical size range for this application
Drive chain: HT chain provides up to 30% greater ultimate tensile strength over standard roller chain.	RS80HT to RS160HT single and multi strand.
Mill chain	WD(H)104, 110, 120. WH124(XHD) with C cradle attachment.
Sprockets: Forward/backward operation can result in keyway backlash. The use of Powerlock sprockets eliminates the need for a keyway.	

Challenge – Debarker	
For ring debarkers there is shock load from crooked logs. Also high speed operation limits the effectiveness of lubrication due to centrifugal force. Knife jam-up can require forward / backward operation. For drum debarkers, general operation overload and/or high impact.	
Solution	Typical size range for this application
Drive chain: SpeedMaster designed for speeds greater than 400 feet per minute. Special material, surface treatment and conn link. HT chain for higher tensile strength to resist shock load.	For ring debarker RS80SM or HT to RS160SM or HT single and multi strand. For drum debarker Super 120 to Super 160-3.
Drag chain	WD(RS)480(XHD), also sizes 104, 110, 120 and 132. With or without wing attachments.
Sprockets: Forward/backward operation can result in keyway backlash. The use of Powerlock sprockets eliminates the need for a keyway.	



LOG DECK BIN AND INFEED

MAIN
SAW LINE

Application: Canter in/out feeds **Savings:** \$29,400.00
Tsubaki solution: Previous chain brand suffered cracked sideplates and severe elongation after 6 months. Tsubaki features and quality lasted 30 months.

It really mattered to this Tsubaki customer

COST SAVINGS!

Split
Sprocket



Lambda
Chain



Challenge	
Access to the drive can be confined.	
Solution	Typical size range for this application
Drive chain: Lambda chain offers maintenance-free operation.	RSD100Lambda to RSD140Lambda
Mill chain	Log deck infeed: WHC 124 , 132 (IBR) Log deck: H78B camelback, WH 78 ,82. WDH110, 111. WH(C) 124, 132. WH124XHD. CC5riv.
Sprockets: Remote access and the need for quick changeout can be solved by split design sprockets.	

Challenge	
Drive: High speeds can limit the effectiveness of lubrication due to centrifugal force. Sharp top conveyor: Tips can wear prematurely compared to normal wear of the load bearing chain components.	
Solution	Typical size range for this application
Drive chain: SpeedMaster designed for speeds greater than 400 feet per minute. Special material, surface treatment and conn link.	RS80SM to RS100SM
Sharp top conveyor: NEW Tsubaki spec sharp top chain increases tip area hardness by 20%. This increases overall chain life.	RF32B Sharptop
Drag chain	WD(H)(RS)110, 480(XHD). Can be supplied with wing attachments.
Sprockets: Premium Tsubaki sprockets with high carbon 1030 or 1045 material allow for a consistent hardened tooth that is a necessity for the demands of this application.	

Sharp Top Chain
RF32B



SpeedMaster
Chain



Application: Bull Edger Drive
Savings: \$27,333.00
Tsubaki solution: SpeedMaster lasted 23 months at this mill, providing significant savings in replacement cost.

It really mattered to this Tsubaki customer

COST SAVINGS!

EDGER

Sharp Top Chain



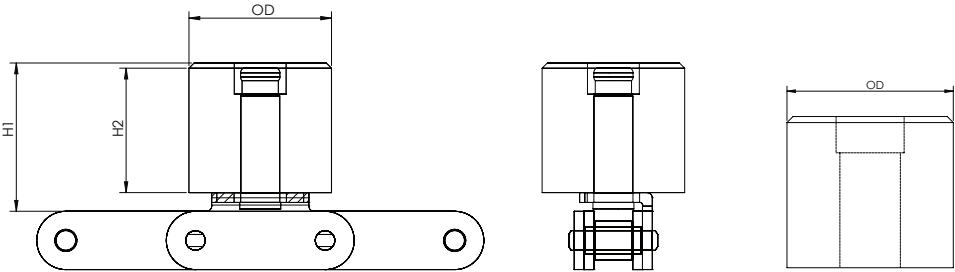
SpeedMaster Chain

Challenge	
Drive: High speeds can limit the effectiveness of lubrication due to centrifugal force. Sharp top conveyor: Tips can wear prematurely compared to normal wear of the load bearing chain components.	
Solution	Typical size range for this application
Drive chain: SpeedMaster designed for speeds greater than 400 feet per minute. Special material, surface treatment and conn link.	RS80SM to RS140SM
Sharp top conveyor: NEW Tsubaki spec sharp top chain increases tip area hardness by 20%. This increases overall chain life.	RS80ST to RS120ST, 3 or 4 point, single or multi strand.
Drag chain	WD(H)(RS)110, 480(XHD). Can be supplied with wing attachments.
Sprockets: Premium Tsubaki sprockets with high carbon 1030 or 1045 material allow for a consistent hardened tooth. Drive chain/sprocket misalignment is common for this application.	

TRIMMER

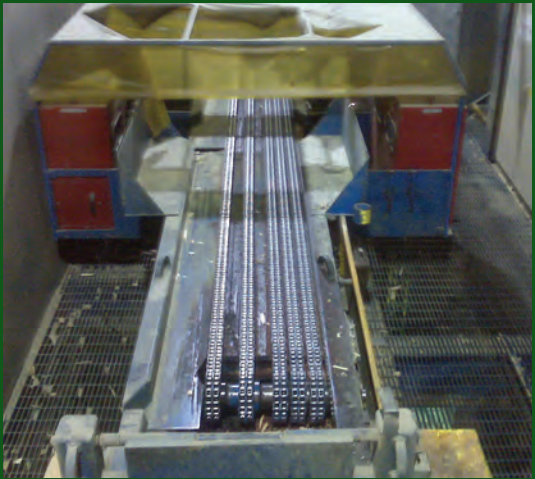
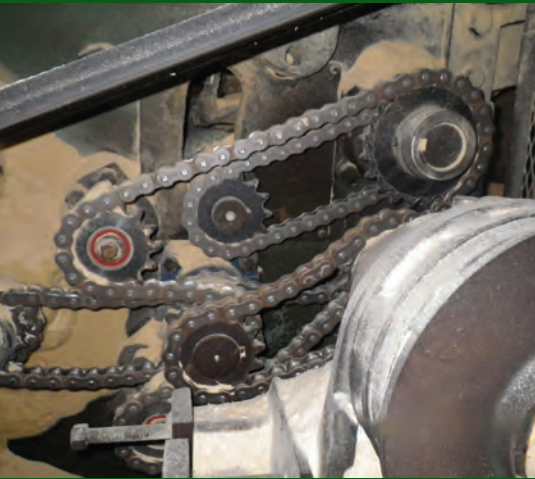
When timing really matters

Quick Trimmer Lug (QTL) Premium Modular Pin Style



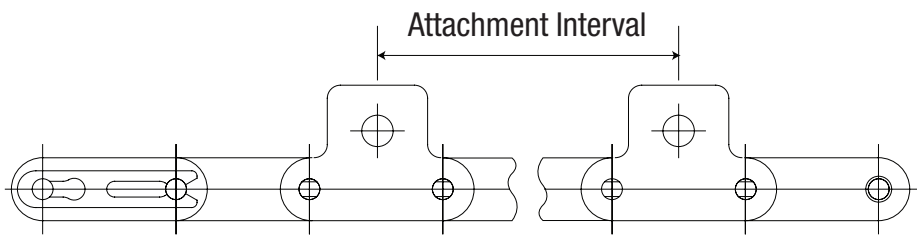
Challenge	
Relative length difference between strands is critical for proper operation. Welds on lugs can cause fatigue due to poor welds and/or insufficient contact area.	
Solution	Typical size range for this application
81XPremium is used to provide consistent relative tolerance between strands. 81X Premium Lambda is used to provide consistency and increased life.	81Xpremium, 81XLambda, C2060H C2080H
Tsubaki's NEW trimmer lug design utilizes proper attachment chain construction principles of press fit vs. weld. Pin link plates are slip fit for ease of assembly. Quick connect rollers eliminate need for C clip.	3 lug sizes to choose from
Drag chain	WD(H)(RS)110, 480(XHD). Can be supplied with wing attachments.
Sprockets: Use Premium Tsubaki adjustable sprockets that can be supplied as split for convenience and quick changeout.	

Split Adjustable Sprocket



SCANNER

Scanner Lugs
on SK1 attachment



Challenge	
Relative length difference between strands is critical for proper operation. Welds on lugs can cause fatigue due to poor welds and/or insufficient contact area.	
Solution	Typical size range for this application
81X Premium is used to provide consistent relative tolerance between strands. 81X Premium Lambda is used to provide consistency and increased life.	81X Premium 81X Lambda, C2060H C2080H
Tsubaki's NEW trimmer lug design utilizes proper attachment chain construction principles of press fit vs. weld. Pin link plates are slip fit for ease of assembly. Quick connect rollers eliminate need for C clip. Scanner lug as illustrated below can also be used.	3 lug sizes to choose from
Sprockets: Use Premium Tsubaki adjustable sprockets that can be supplied as split for convenience and quick changeout..	

Split Adjustable
Sprocket



CURVED CONVEYOR

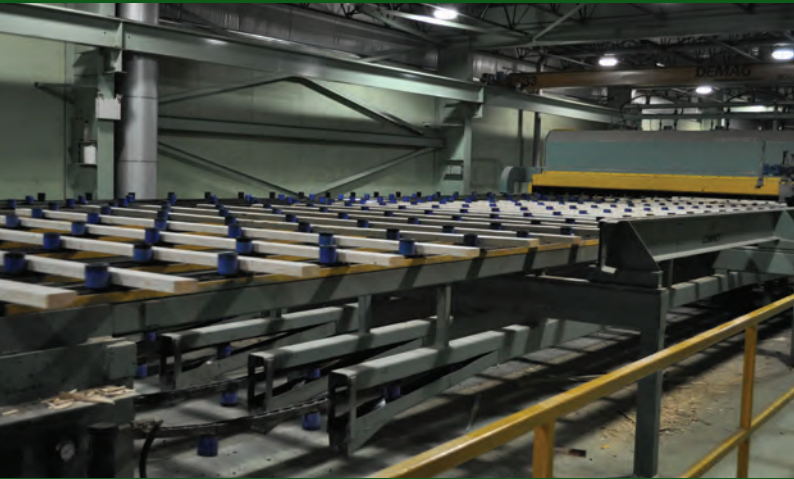
When flexibility really matters

Curved Attachment Chain

Challenge	
Inner strand on a curved conveyor is subject to more cycles than the outer strand, therefore rate of wear is increased.	
Solution	Typical size range for this application
Lambda chain extends wear life by oil impregnated bushings contacting special surface pins. (Lambda chain must be supported by sideplates rather than rollers).	RS80CU or RSD80CULambda c/w WSAO attachment every 8,10 or 12 links.
Sprockets: Premium Tsubaki sprockets with high carbon 1030 or 1045 material allow for a consistent hardened tooth that is a necessity for the demands of this application.	



Lambda
Chain



DROP SORTER

Application: Drop Sorter **Savings:** \$5,950.00
Tsubaki solution: Lambda extended the wear limit from 18 to 36 months. Reduced replacement man time means cost savings.

It really mattered to this Tsubaki customer

COST SAVINGS!

Split Adjustable Sprocket

Challenge	
Relative length difference between strands is critical for proper operation. Only minimal elongation is accepted for proper indexing operation.	
Solution	Typical size range for this application
Premium conveyor chain is required on this application to provide consistent relative tolerance between strands. Premium Lambda is used to provide consistency and increased life.	C2100H / C2100HLambda, 81XPremium / 81XLambda
Sprockets: Premium Tsubaki sprockets with high carbon 1030 or 1045 material allow for a consistent hardened tooth that is a necessity for the demands of this application. Split and adjustable sprockets are recommended at the head shaft.	



81X Lambda Chain



PLANER

Application: Planer Drive **Savings:** \$3,065.00
Tsubaki solution: Drive running at 1200 rpms makes SpeedMaster the only option. Resulting life was 7.5 months compared to 1.

It really mattered to this Tsubaki customer

COST SAVINGS!

Challenge	
Lots of articulation results in increased chain wear. High speed operation makes proper lubrication difficult.	
Solution	Typical size range for this application
Drive chain: SpeedMaster designed for speeds greater than 400 feet per minute. Special material, surface treatment and conn link.	RS80SM to RS140SM
Sprockets: Premium Tsubaki sprockets with high carbon 1030 or 1045 material allow for a consistent hardened tooth. Drive chain/sprocket misalignment is common for this application.	



SpeedMaster Chain



STACKER/ WRAPPING
MACHINE/FORKLIFT

OTHER SIGNIFICANT
FORESTRY APPLICATIONS

When expertise really matters

HT Chain

Challenge	
Stacker: Shock load.	
Wrapping machine: Marking of product reduces grade and/or results in scrap product.	
Solution	Typical size range for this application
Stacker: HT chain provides up to 30% greater ultimate tensile strength over standard roller chain.	RS80HT to RS140HT
Wrapping machine: Lambda chain provides maintenance-free operation, eliminating the need for lubrication.	81XLambda
Forklift	BL844, 866, 1066

81X Lambda
Chain

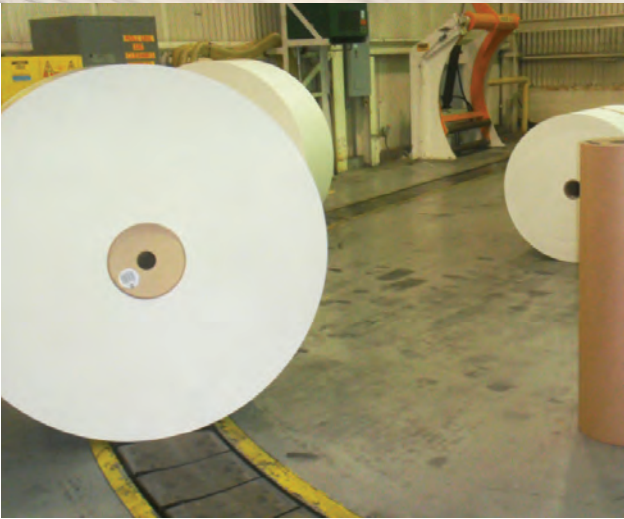
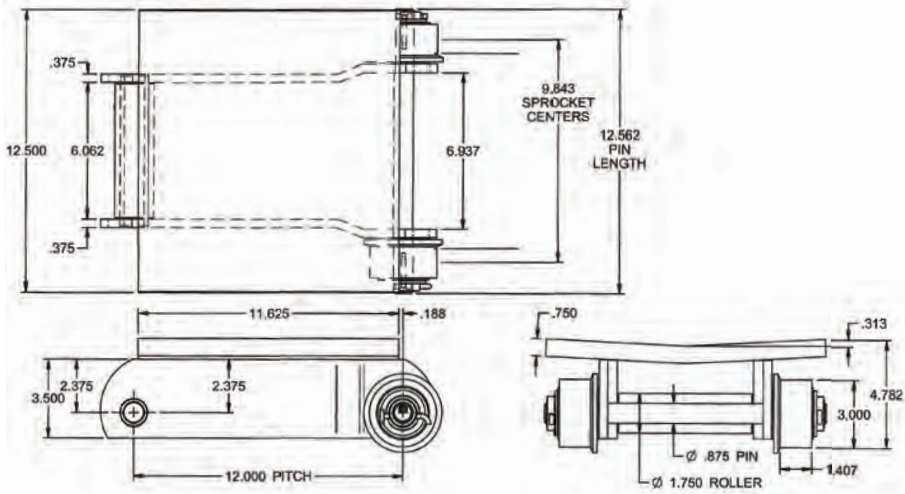
Other Significant Forestry Applications Where Tsubaki's Experience Can Work For You.		
Mill	Application	Tsubaki Solution
Paper Mill	Digester Conveyor	Stainless steel engineered class attachment incline conveyor
	Infloor Paper Roll Conveyor	Imperial and metric engineered class attachment conveyor
	Kraft Paper Pulp Press	Super series chain
OSB Mill	Rackdown Conveyor Before Press	Precision matched and tagged attachment chain in both ASME (ANSI) and British standard
	Indexer	
Hardwood Flooring Mill	End Groove Trimmer	Precision matched and tagged Lambda attachment
MDF Mill	MDF Cooler Chain	Engineered class attachment conveyor chain
	Fiberboard Press	Super series chain
Biomass	Ash Conveyor	Specially hardened cast or welded steel chain



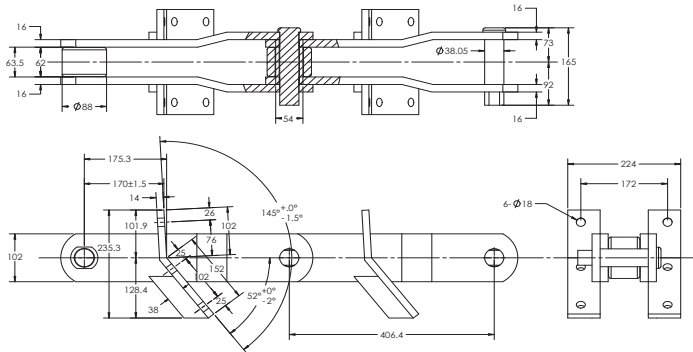
OTHER SIGNIFICANT FORESTRY APPLICATIONS

When expertise really matters

Paper Mill

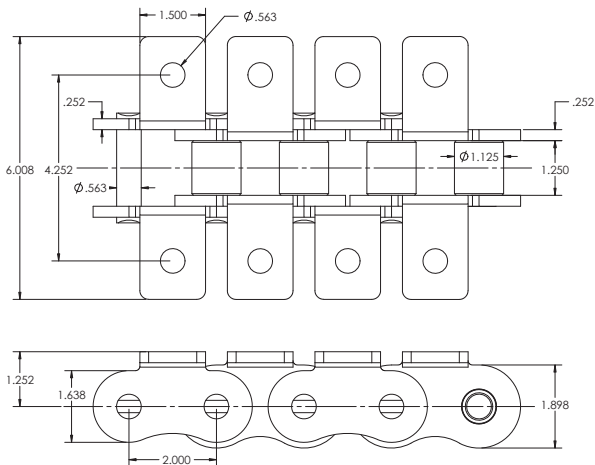


Infloor Paper Roll Conveyor



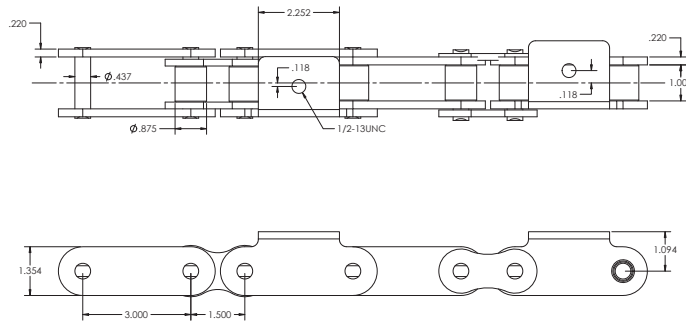
Digester Conveyor

OSB Mill



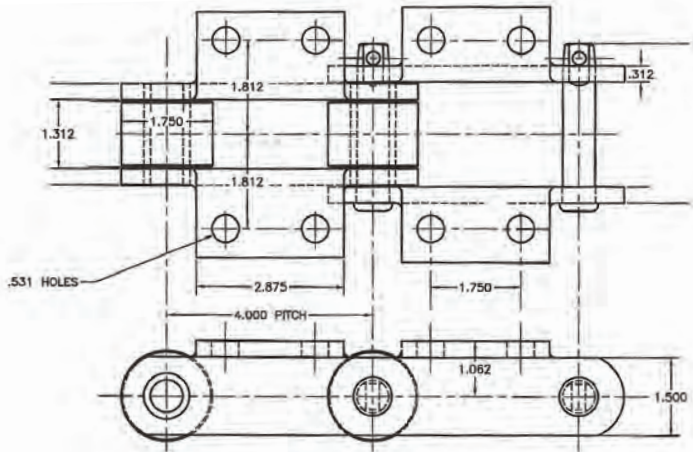
Rackdown Conveyor Before Press

Hardwood Flooring Mill



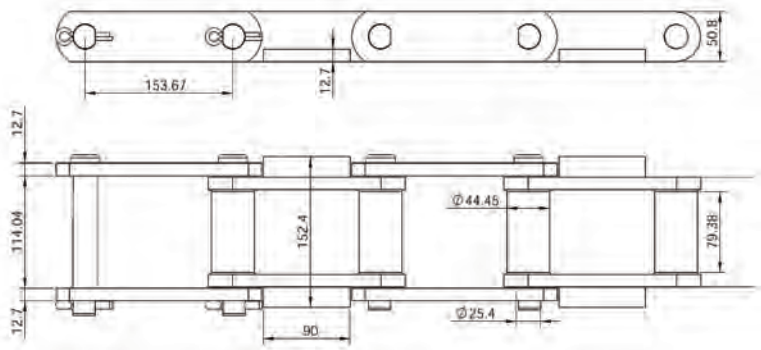
End Groove Trimmer

MDF Mill



MDF Cooler Chain

Biomass



Ash Conveyor



At Tsubaki, we support what we sell.
This means that we are your partner in reducing downtime, lowering maintenance costs and increasing productivity. Not everyone can say that. Tsubaki's Technical Services staff is available for on-site inspections and will recommend the best solution for your application. We can also tailor our in-house seminar workshop to your individual needs.

Our services include the following:

- On-Site Services**
- Maintenance Seminar
 - Critical Application Survey
 - Application Troubleshooting
 - Failure and Wear Analysis
- In-House Services**
- Maintenance Seminar
 - Facility Tours
 - One Day Seminars
 - Failure and Wear Analysis
 - Sample Identification
 - Chain Selection
 - Application Troubleshooting

Our services include the following:

- Maintenance Seminars**
- Professional Audio-Video Presentation
 - Hands on Learning
 - Certificate of Attendance
 - Course Material Handout Package
 - Metal Chain Wear Scale
 - Group Picture
- Site Surveys**
- Two-Person Teams from Tsubaki
 - Chain Identification and Drawing
 - Wear Life Estimate
 - Identify Condition and Critical Points
 - Establish Regular Follow-Up Schedule
 - Report will be provided within 1 week of survey completion
- Application Troubleshooting and/or Wear Analysis**
- Tsubaki Technical Services Staff Site Visit
 - Initial Evaluation
 - Full report will be provided within 48 hours of completion of site visiting including selection verification

- Facility Tour and Full Day Seminars**
Sprocket Manufacturing Facility Tour:
- Learn the techniques and processes used in sprocket production
- Various Seminar Topics Available:**
- Maintenance
 - Troubleshooting
 - Basic and Advanced Product Selection
 - Chain Academy (Basic School)
(Meals / snacks / beverages may be provided)

- Failure and/or Wear Analysis**
- A full report will be provided within 48 hours and will include photos, failure / wear causes, effects and solutions
 - If more time (ie. over 48 hours) is required to complete the final report, we will provide the findings to date in a preliminary report

- Sample Identification**
- Chain number and sketch

- Chain Selection**
Simple Selection:
- A report that indicates selection process only.
- Intermediate Selection:**
- Detailed Report
 - Drawing of Selected Product
 - Calculations
 - Double Check Sign Off
- Advanced Selection (includes all of above plus:)**
- Expected Life Estimate
 - Maintenance Requirements and Schedule