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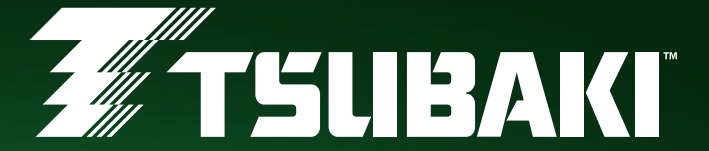


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TSUBAKI

SPROCKETS

Product Catalog



SPROCKETS
Product Catalog

SPROCKET SOLUTIONS

Complete System Solutions

U.S. Tsubaki offers complete drive system solutions that serve a variety of markets and applications around the world. Our complete offering of ANSI roller chain, engineered chain, sprockets, power transmission components, and cable & hose carrier systems offers single source capability to satisfy the most demanding application requirements.



Dedication to Quality

Proven design, quality, and manufacturing systems assure each and every product shipped will meet the quality and durability expectations you expect from a world-class supplier. U.S. Tsubaki takes pride in the fact that our manufacturing facilities are ISO 9001:2000 and ISO 14001 certified.

U.S. Tsubaki only uses the highest grade carbon steel material to assure long service life, abrasion resistance, and the ability to withstand heavy shock loading. Sprockets can also be manufactured utilizing special alloys or stainless steel materials for added corrosion resistance and food grade applications.



Stock Sprocket Offering

U.S. Tsubaki produces a broad range of sprockets to satisfy your application requirements. Stock product offerings are readily available, and can be supplied in the following pitch ranges and configurations:

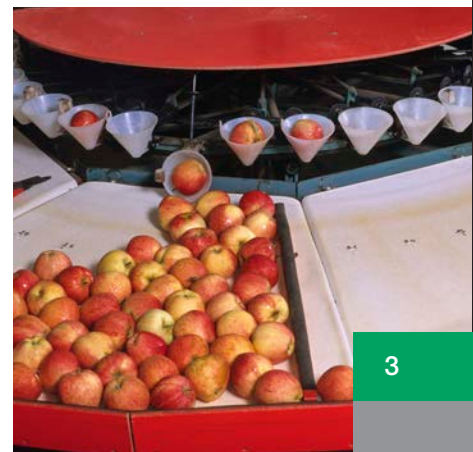
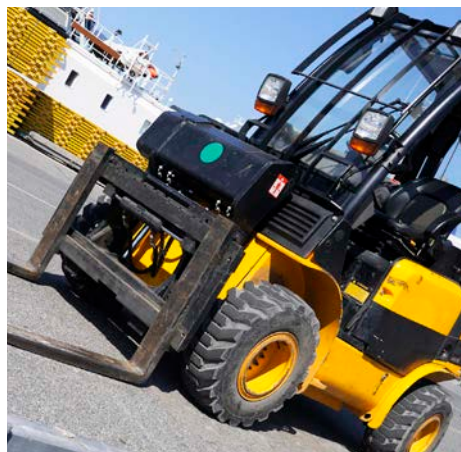
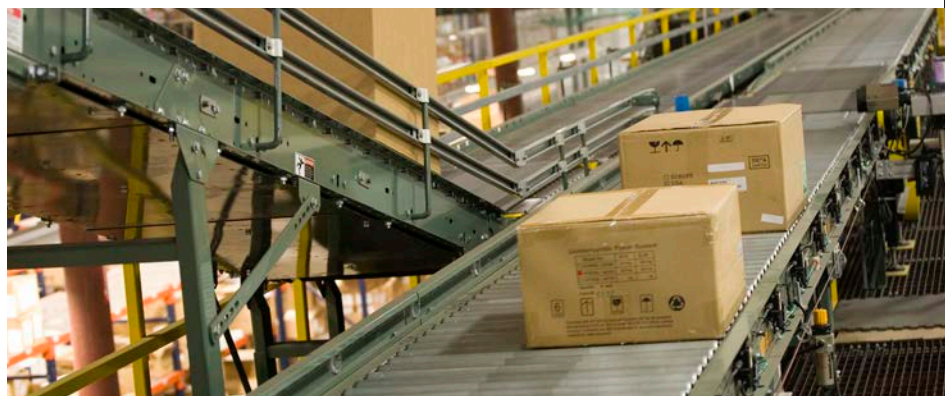
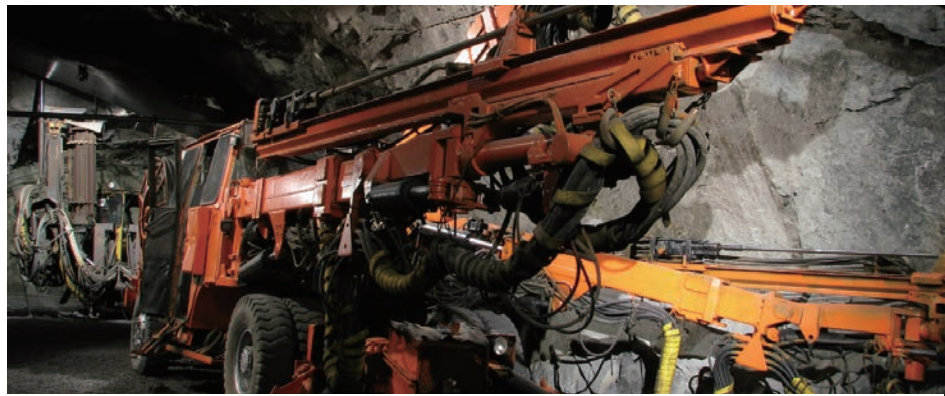
- Pitch Range: ANSI 25 - 240
- Type A Plain Bore (no hub extension)
- Type B Plain Bore (one-sided hub extension)
- Type C Plain Bore (two-sided hub extension)
- Stainless Steel: ANSI 25 - 80 Pitch
- Multi-Strand
- TAPER-LOCK® and QD® Sprockets and Bushings
- Double Pitch
- Double Plus®
- Double Single
- Idler Sprockets



Markets and Applications

U.S. Tsubaki sprockets are utilized worldwide in many markets and applications, including:

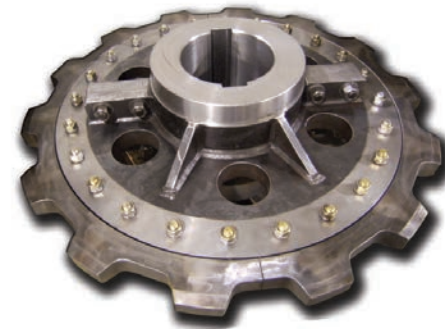
- Oil and Gas
- Lumber
- Mining
- Primary Metals
- Material Handling
- Conveyor
- Civil Engineering Projects
- Machine Tool
- Marine
- Packaging Machinery
- Pulp and Paper
- Food Processing
- Forestry



SPROCKET SOLUTIONS MADE-TO-ORDER

Tsubaki MTO Sprockets

Tsubaki, and its affiliates, have designed and manufactured Made-To-Order sprockets for over 35 years. Extensive design, engineering, and manufacturing capability allow U.S. Tsubaki to produce a wide variety of MTO sprocket products for a multitude of applications. From one-off custom to high volume OEM sprocket requirements, Tsubaki has you covered.



Large Engineering Class
Segmental Sprocket with Split Hub

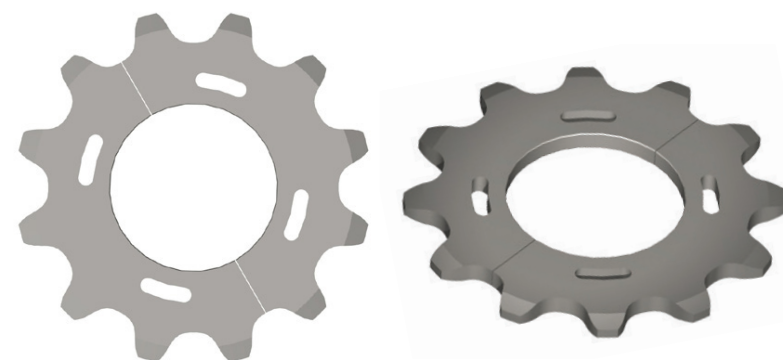
Engineering Capabilities

Tsubaki has a broad range of engineering capabilities that enable the manufacture of complex MTO sprockets for your application requirements. Some of these capabilities include:

- System design assessments
- 2D/3D Cad Drawing Generation
- ECD, ANSI, and British Standard Design
- Custom tooth profiling
- Solid, split, segmental, adjustable design



Large Engineering Class Sprocket
incorporating "Gap Tooth"
design for drive chain attachments



Adjustable Segmental
Rim Sprockets



Triple roller chain sprocket with large
finished bore and custom split design

Machining Capabilities

Tsubaki's range of machining capabilities provides sprocket solutions for large and small quantities. Tsubaki has the capability to economically create one-off custom sprockets or high volume production type units. Some of our core capabilities include:

- CNC/turning to 99" diameter
- Three-axis machining, 110" x 40" x 36"
- Traditional tooth hobbing to 60" diameter
- Induction and flame hardening to 120" diameter
- Machining of exotic metals
- Spline bore
- High tolerance finished bore
- Solid, welded, or web style sprockets

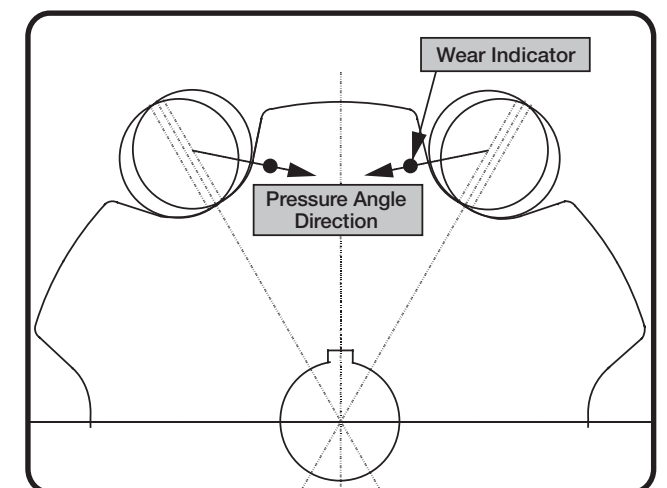


Spline Bore Drive Sprocket

SMART TOOTH™ Sprockets

Tsubaki SMART TOOTH Sprockets with Wear Indicator Technology assure maximum uptime and drive system efficiency by providing visual confirmation of excessive sprocket wear. Incorporating this patented technology into MTO, ANSI, or Engineering Class sprockets reduces overall system cost by offering predictable maintenance intervals to avoid catastrophic failure. Tsubaki Wear Indicator technology is available on ANSI 100 through 240 pitch, and Engineering Class sprockets with pitch lengths of greater than 4 inches. Applicable sprocket configurations are as follows:

- Type A (no hub extension) Plain or Finished Bore
- Type B (hub extension – one side) Plain or Finished Bore
- Type C (hub extension – both sides) Plain or Finished Bore
- TAPER-LOCK® and QD® Bushing Sprockets
- Split Taper Sprockets
- Multi-Strand Sprockets
- Stainless Steel Sprockets



SPROCKET SOLUTIONS

Customer Support

U.S. Tsubaki's trained and experienced customer service team, application engineers, field sales network, and design engineers ensure that you will get accurate and timely support for all of your power transmission needs. Tsubaki has global representation in over 70 countries around the world, providing comprehensive support required by our customers and markets we serve.



Distribution Network

U.S. Tsubaki has partnered with over 1,500 National and Independent distributors in North America to assure that our products are readily available and supported in all of the geographical regions served. Our distributor network is trained on all of the Tsubaki products, and can offer the support and service you need to stay up and running.



Service Centers

U.S. Tsubaki utilizes five regional service centers as distribution hubs and alteration facilities in an effort to provide our customers with product quickly and efficiently. Each service center is strategically located to offer local support and inventory for the regions served.



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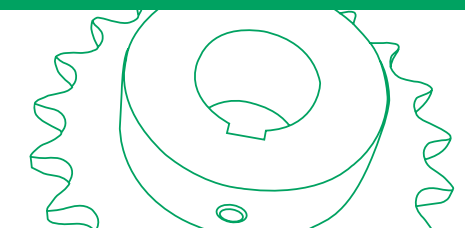
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SPROCKETS 101

The following defines terminology and provides guidance to help select the best sprocket for a given application. In the event that further assistance is required, please call U.S. Tsubaki customer service at (800) 323-7790.

Basic Terminology

01

ANSI Chain Pitch:

The term “chain pitch” refers to the roller pin center to roller pin center dimension of a given chain. The pitch is always measured in 1/8" increments. Please see **Figure 1** for an illustration of how to measure chain pitch. Please see **Table 1** for referencing ANSI Standard chain pitch sizes.

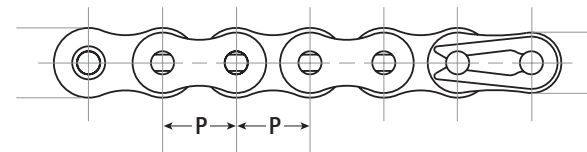


Figure 1 - Chain pitch measurement points (P)

02

Caliper Diameter:

The term “caliper diameter” refers to the dimension measured from sprocket tooth valley to sprocket tooth valley on the opposite side (180°) of the sprocket. This dimension is used to measure the diameter of the sprocket plate (not including sprocket teeth). On sprockets that have an odd number of teeth, the measurement would be taken from the valley of one tooth to the valley as close to 180° on the opposite side of the sprocket. Please reference **Figure 2** for an illustration of how this dimension is measured.

| ANSI Standard Chain Pitch Size | | | |
|--------------------------------|-------------|---------|-------------|
| Pitch # | Pitch in IN | Pitch # | Pitch in IN |
| 25 | 1/4" | 100 | 1-1/4" |
| 35 | 3/8" | 120 | 1-1/2" |
| 40 | 1/2" | 140 | 1-3/4" |
| 41 | 1/2" | 160 | 2" |
| 50 | 5/8" | 180 | 2-1/4" |
| 60 | 3/4" | 200 | 2-1/2" |
| 80 | 1" | 240 | 3" |

Table 1 - ANSI Standard Chain Pitch Table

03

Sprocket Outside Diameter:

Sprocket outside diameter is the measurement from sprocket tooth peak to sprocket tooth peak on the opposite (180°) side of the sprocket. For sprockets with an odd number of teeth, the measurement would be taken from the peak of one sprocket tooth to the peak of a tooth as close to 180° degrees as possible. Please refer to **Figure 3** for an illustration as to how this dimension is measured.

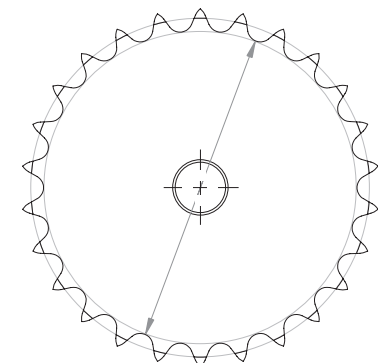


Figure 2 - Measuring caliper diameter

SPROCKETS 101

04

Maximum Bore Diameter: Refers to the maximum bore size diameter a sprocket can be machined to without compromising structural integrity. This term is associated with both “B” and “C” style sprockets. Please refer to **Figure 4** for illustration.

05

Length Thru Bore: “LTB” Refers to the inside hub diameter and the length to which it was machined. This machined length must be long enough to accommodate the proper size keyway to withstand shear and torque stress induced by the rotating shaft. Please refer to **Figure 4** for illustration.

06

Plain Bore: Associated with “A,” “B” and “C” style sprockets where there is no special machining performed to accommodate keyways or set screws, only a hole to accommodate shaft diameter. Please refer to **Figure 6** for illustrations of Plain Bore sprockets.

07

Finished Bore: Associated with “B” and “C” style sprockets where the inside diameter of the hub is machined with a standard keyway and two set screws. Finished bore hubs can also be machined to specific requirements depending on the needs of the application. Please refer to **Figure 5** for an illustration.

08

Sprocket Hub Style: U.S. Tsubaki manufacturers various sprocket hub styles to meet the application requirements of our customers. Please refer to **Figure 6** for the various stock style hub configurations offered by U.S. Tsubaki.

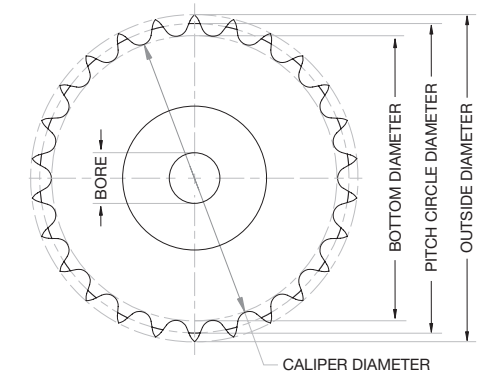


Figure 3 - Measuring sprocket outside diameter

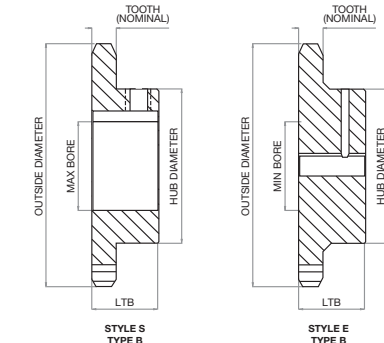


Figure 4 - Maximum bore diameter and thru bore

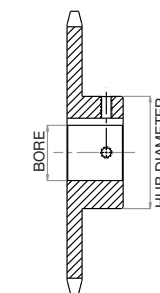


Figure 5 - Finished bore sprocket

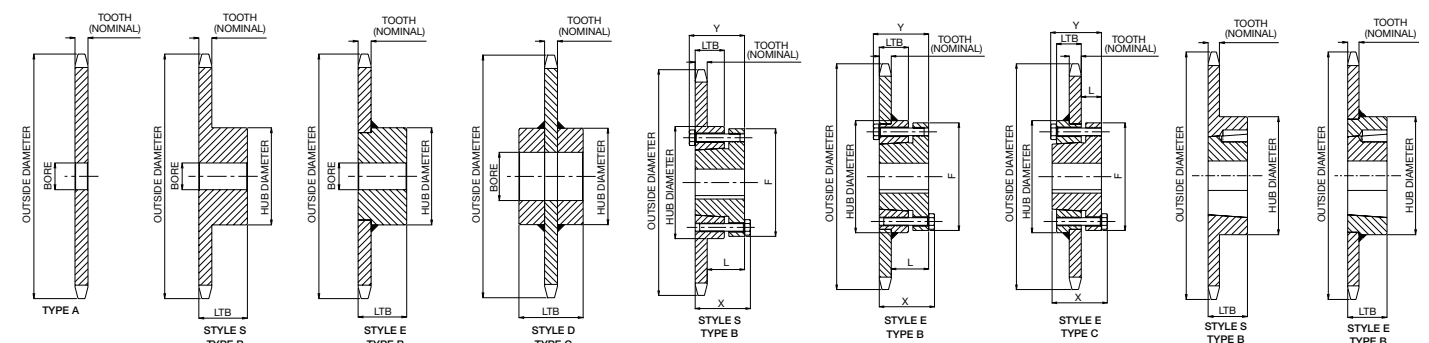


Figure 6 - Stock sprocket hub styles

SPROCKETS 101

09

Small and Large Roller Double Pitch Sprockets:

Used with double pitch conveyor series roller chains. These chains are available with either the standard small roller diameter (i.e.: 2040, 2050, 2060, 2080, 2100) or a larger diameter chain roller style (i.e.: 2042, 2052, 2062, 2082, 2102). Sprockets are available from stock to accommodate either style. This type of sprocket is primarily used in conveying applications where torque requirements are lower, and long service life is critical. Please refer to [Figure 7](#) for an illustration of a standard and double pitch sprocket for comparison purposes.

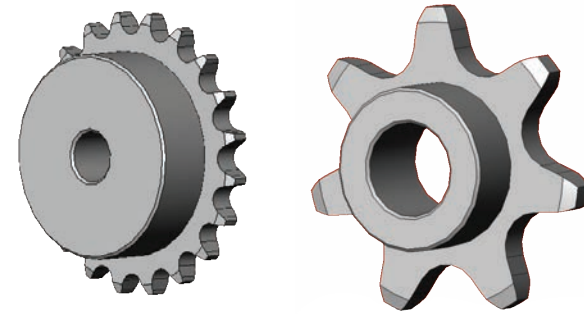


Figure 7 - Small and large roller double pitch sprockets

10

Multiple-Strand Sprockets:

This type of sprocket is commonly used in applications where higher torque and power requirements are needed. The spacing between the rows of teeth corresponds with the center-line of chain strands. Due to the added width of chain, the “LTB” of multiple strand sprockets is correspondingly longer. This style of sprocket is available in 40 through 160 chain pitch with plain, finished or TAPER-LOCK®/QD® style hubs. Please refer to [Figure 8](#) for an illustration of a Multiple-Strand sprocket.

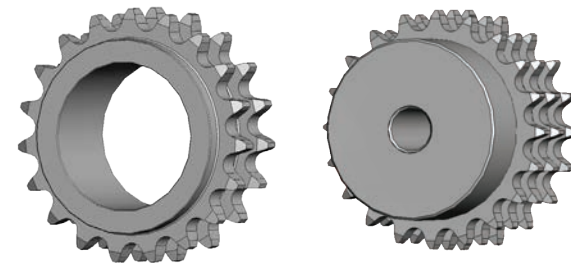


Figure 8 - Multiple-Strand sprockets

11

DOUBLE PLUS® Sprockets:

This type of sprocket is specifically designed to work with DOUBLE PLUS® chain. This style of sprocket is used in conveyor applications where product on the conveyor is propelled at twice speed of the drive system powering the conveyor. The main benefit of incorporating DOUBLE PLUS® chain and sprockets is less noise and longer chain life. Please refer to [Figure 9](#) for an illustration of a DOUBLE PLUS® sprocket.

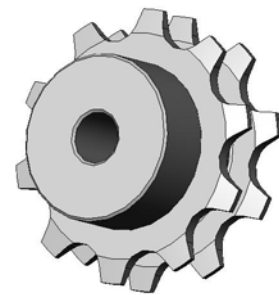


Figure 9 - DOUBLE PLUS® sprockets

SPROCKETS 101

12

QD® Sprockets:

This type of sprocket is used in applications where higher working loads are prevalent, and high clamp loading on the drive shaft is desirable. Sprockets with tapered bushings will fall into the QD®, Split-Taper or TAPER-LOCK® family. QD® bushings are flanged, and most commonly utilize large anchor bolts around the circumference of the flange to retain itself to the sprocket. However, this style of bushing is also available in a weld on hub configuration. One of the primary advantages the QD® bushing offers is its ease of installation and removal. It also provides superior clamp force, and aligns the sprocket 90° to the drive shaft to assure proper alignment. Please refer to [Figure 10](#) for an illustration of a QD® sprocket.

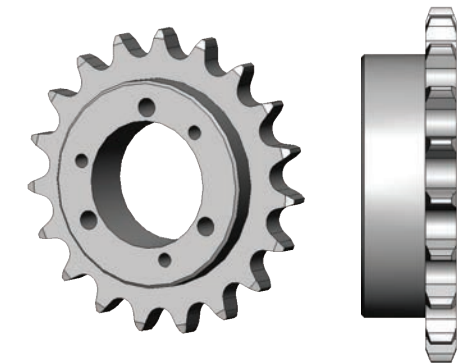


Figure 10 - QD® sprocket

13

TAPER-LOCK® Sprockets:

TAPER-LOCK® bushings are similar to QD® style bushings in that they both utilize a split through the taper and flange to provide a true clamp on the shaft that is equivalent to a shrink fit. This type of bushing is retained to the sprocket with a series of set screws on the outside diameter of the bushing running parallel to the shaft, or can be welded to the sprocket itself. With TAPER-LOCK® bushings, there is no need for a set screw over the drive shaft key. TAPER-LOCK® bushings offer flexibility in that they allow multiple sized bores for a single bushing size. Please refer to [Figure 11](#) for an illustration of a TAPER-LOCK® sprocket.



Figure 11 - TAPER-LOCK® sprocket

14

Steel Split Sprockets:

Split sprockets are slit through the entire diameter of the sprocket to allow ease of installation and removal. The sprocket halves are held together by bolts located on either side of the hub. This particular style is available in chain pitch sizes of 40 through 240, and bore diameters of 3/4" through 6" depending on chain pitch selected. [Figure 12](#) provides an illustration of a steel split sprocket.



Figure 12 - Steel Split sprocket

SPROCKETS 101

15

British Standard Sprockets:

This style of sprocket is similar to an ANSI style sprocket with the exception of the fact that it is designed to propel British Standard Chain. British Standard Chain has slightly different dimensions with regard to chain pitch and roller diameter. ANSI Standard chain pitch is measured in 1/8" increments (pin to pin), whereas British Standard follows a 1/16" pin to pin spacing. Please see [Figure 13](#) for an illustration of how to measure British Standard chain pitch.

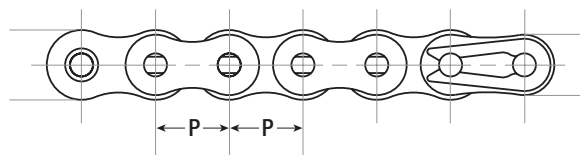


Figure 13 - Measuring British Standard Chain

16

Double Single Sprockets:

This type of sprocket is commonly used in applications where two or more items are powered by a common drive shaft. The space between the sprocket plates is wider than a multi-strand sprocket, and allows two separate strands of chain to engage without contacting each other. With this type of sprocket, one strand of chain may exit in a different direction than the other. For example, one strand exiting towards the ceiling and the other running parallel to the floor. Please refer to [Figure 14](#) for an illustration of a Double Single sprocket.



Figure 14 - Double Single Sprocket

17

Idler Sprockets:

This type of sprocket is used in applications where the drive chain may experience slack due to long lengths, non-adjustability of the driven shaft, or where the chain has to be guided around an obstruction. Use of Idler Sprockets prevents chain whipping and uneven distribution of load. This type of sprocket can also be used in applications where the drive chain may experience direction reversal, or in applications where the chain may experience whipping. Having idler sprockets touching the outside of the chain would be beneficial. Please refer to [Figure 15](#) for an illustration of an Idler Sprocket.



Figure 15 - Idler Sprocket

SPROCKETS 101

18

How to Order Code:

The following decodes the model number for a given U.S. Tsubaki Stock Sprocket product. The following example should be used to decipher the characteristics and features associated with a given sprocket.

| | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------------------|-----------------|----|----|
| A | 35 | B | TL | 18 | | |
| Altered ¹⁹ | Chain Pitch in Inches | Hub Type | TAPER-LOCK [®] | Number of Teeth | | |
| A: Alteration Required | 35: 3/8" Pitch | B: Hub Extension One Side | TAPER-LOCK [®] hub | 18 | 22 | 26 |
| | | | | 19 | 23 | 28 |
| | | | | 20 | 24 | 30 |
| | | | | 21 | 25 | 32 |

19

Altered¹⁹:

The term "Altered" applies to a sprocket that requires a minor modification to the standard configuration to fulfill the requirements of the application at hand. Some examples of common alterations include: rebores to a different size than standard, different set screw location than standard, drilling of holes into sprocket plate for accessory mounting, non-standard keyway size, etc. A complete list of common alterations is available in the engineering section of this catalog. It should be noted that adding the prefix "A" is used only when an alteration is required. It is not necessary for standard products and only applies when a non-standard feature is required.

20

Fraction Legend for Hub Bore Size:

The following table should be used to define the hub bore size associated with "Finished Bore" stock sprocket product. Note that a letter designator is used to represent a fractional dimension. For example: a 1B hub bore equates to a sprocket bore of 1.125" inside diameter.

| Letter Designator | Fractional Size | Decimal Size |
|-------------------|-----------------|--------------|
| A | 1/16" | 0.0625" |
| B | 1/8" | 0.1250" |
| C | 3/16" | 0.1875" |
| D | 1/4" | 0.2500" |
| E | 5/16" | 0.3125" |
| F | 3/8" | 0.3750" |
| G | 7/16" | 0.4375" |
| H | 1/2" | 0.5000" |
| I | 9/16" | 0.5625" |
| J | 5/8" | 0.6250" |
| K | 11/16" | 0.6875" |
| L | 3/4" | 0.7500" |
| M | 13/16" | 0.8125" |
| P | 7/8" | 0.8750" |
| R | 15/16" | 0.9375" |

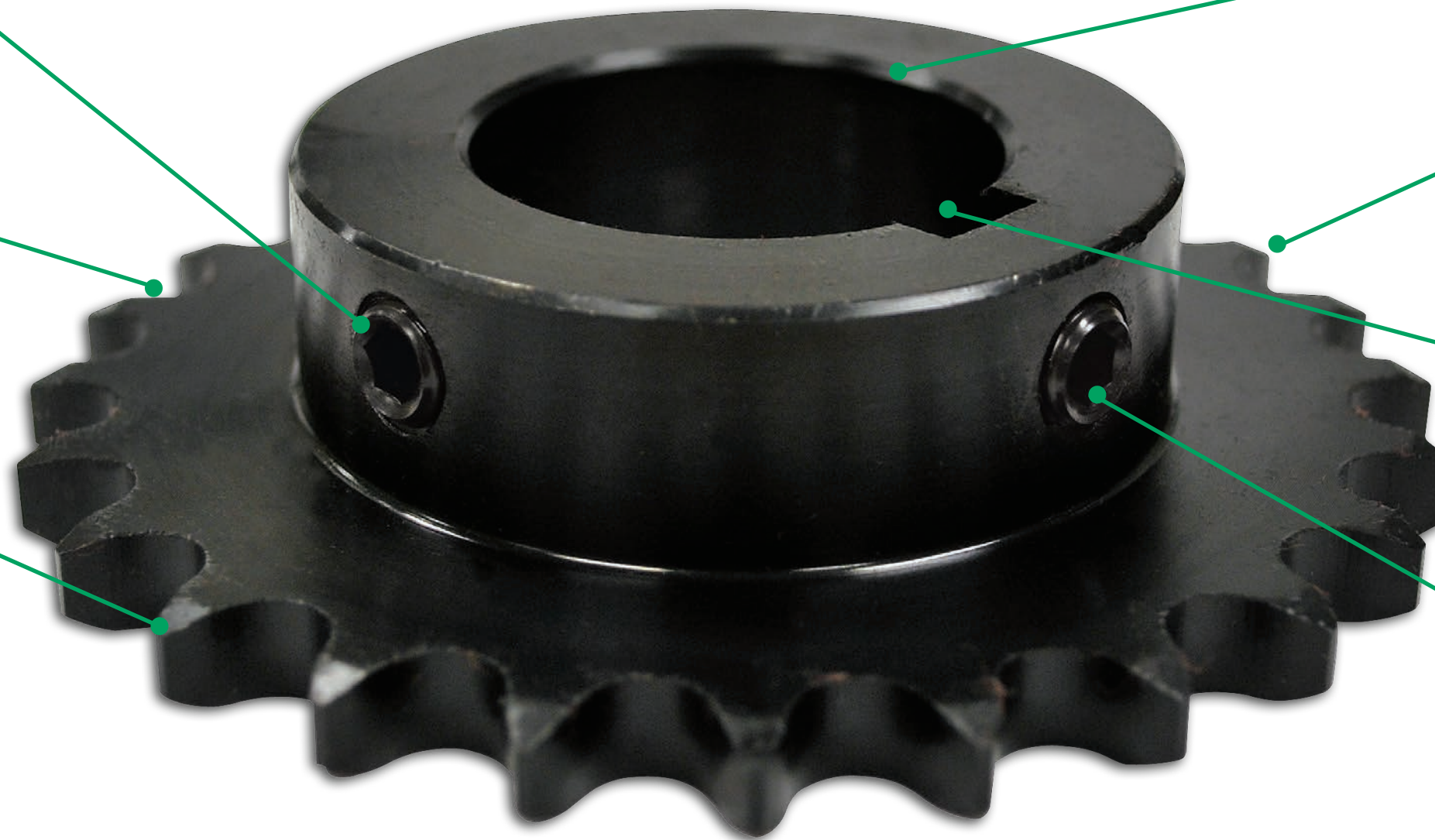
SPROCKETS SOLUTIONS

WHY TSUBAKI SPROCKETS ARE YOUR BEST CHOICE...

U.S. Tsubaki finished bore sprockets come with a keyway and two set screws standard.

U.S. Tsubaki stock sprockets are made from 1045 cold rolled carbon steel, and are black oxide coated for maximum corrosion resistance and durability. No powdered metal is used.

All U.S. Tsubaki stock sprockets have hardened teeth to RC 35 - 50 standard on ANSI 35 - 80 pitch. This ensures long service life with minimal wear.



All hard edges are chamfered and de-burred for the best fit.

U.S. Tsubaki sprockets are available in ANSI standard or British Standard pitch specifications.

U.S. Tsubaki offers stock/plain bore, finished bore, and altered sprockets for rapid delivery to meet your application requirements fast!!!

Standard set screw placement directly over the keyway and at 90° to the keyway ensures the sprocket will hold position throughout its time in service.

COMPLEMENTARY PRODUCTS

POWER-LOCK®

Tsubaki POWER-LOCK® technology provides a keyless sprocket to drive shaft locking solution for applications that experience load reversal and high torque loading. POWER-LOCK® eliminates the need for costly machining associated with long keyways, spline bores, threaded shafts and grooves or steps to prevent premature failure. POWER-LOCK® technology offer fast installation and removal, and can be used on sprockets, gears, pulleys, timing cams, and rollers to increase shaft strength, and ensure long service life.



TORQUE SHIELD

Tsubaki Torque Shield provides mechanical drive system protection for sophisticated applications that may experience overloading or jamming. Applications that demand consistent and predictable trip settings with quick resetting will benefit from this device. Torque Shield is easy to set and adjust with a built-in scale and indicator that have distinct torque settings for easy verification. U.S. Tsubaki offers four different series of Torque Shield products to support all of your drive system needs.



TORQUE LIMITER

Refined by Tsubakimoto for over 40 years, the Torque Limiter is a simple and inexpensive mechanical device that limits damage to equipment when an unexpected increase in torque occurs because of a jam or overload situation. Easy to install, the Torque Limiter attaches to a shaft and holds the sprocket, gear, or sheave. A frictional system, the Torque Limiter reacts instantly when there is a jam by slipping and absorbing the brunt of the force, thus preventing the increase in power from damaging your equipment. Let Tsubaki's family of Torque Limiters provide an economical solution for protecting your drive system.



COMPLEMENTARY PRODUCTS

LINEAR SHIELD

Designed for pushing/pulling applications, Tsubaki's Linear Shield provides system protection for equipment used in straight line applications. Machine tool, press applications, pick and place, and other linear system operations are protected from overloading by a simple ball and groove design. Compact design, ease of installation, and quick resetting makes this device ideal for limiting downtime and preserving critical equipment operation.



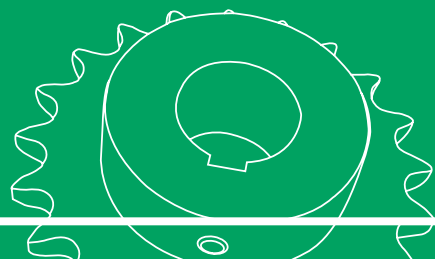
SHOCK RELAY®

Pioneered by Tsubaki, the Shock Relay® protects your equipment against unexpected shock loads and overloads before system damage occurs. The Shock Relay® adapts to virtually any type of equipment that's driven by an electric motor. The purpose of the Shock Relay® is to protect the mechanical parts of the equipment by monitoring drive motor current, shutting down the equipment when the loads exceed the user set limits. Unlike mechanical protection devices, there is no physical re-setting required. The Tsubaki Shock Relay® simply resets at the press of a button. Let Tsubaki's family of Shock Relays keep your production up and running.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



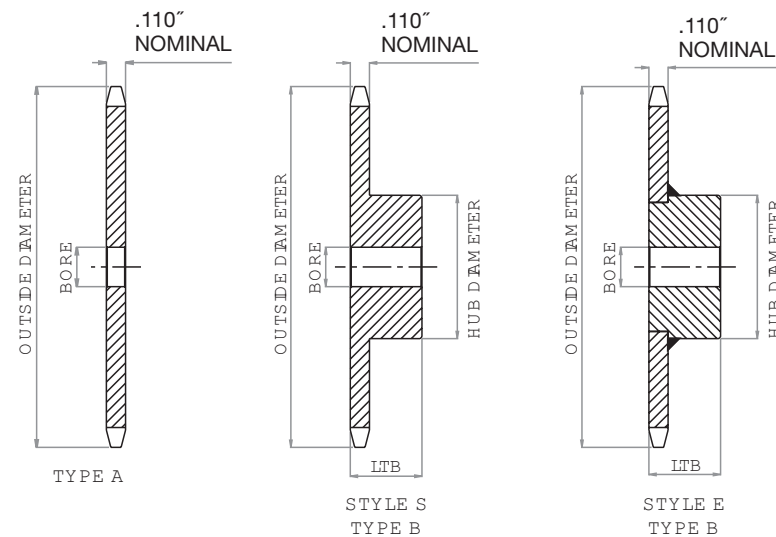
No. 25 1/4" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 25 |
| Pitch | 1/4" |
| Inside Width | 1/8" |
| Roller Diameter | 0.130" |
| Nominal Tooth Width: | 0.110" |

How to Order Code: Example Model # for 25 Pitch Plain Bore Sprockets

| | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|
| A | 25 | A | 36 | | | |
| Altered ¹¹ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | |
| A: Alteration Required | 25: 1/4" Pitch | A: No Hub Extension | 15 | 21 | 28 | 45 |
| | | | 16 | 22 | 30 | 48 |
| | | | 17 | 23 | 32 | 54 |
| | | | 18 | 24 | 35 | 60 |
| | | | 19 | 25 | 36 | 72 |
| | | | 20 | 26 | 40 | |
| | | B: Hub Extension One Side | 9 | 17 | 25 | 45 |
| | | | 10 | 18 | 26 | 48 |
| | | | 11 | 19 | 28 | 54 |
| | | | 12 | 20 | 30 | 60 |
| | | | 13 | 21 | 32 | 72 |
| | | | 14 | 22 | 35 | |
| | | | 15 | 23 | 36 | |
| | | | 16 | 24 | 40 | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 25

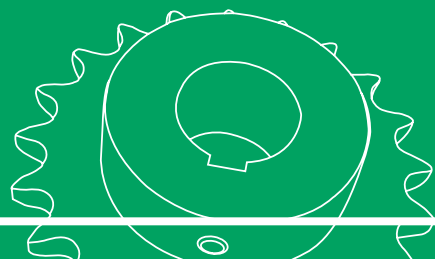
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. Teeth | No. 25 Plain Bore Sprocket Diameters | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | |
|-----------|--------------------------------------|----------------|------------------|---------------------|----------|---------------------|-----------|----------|-------|-------|----------|
| | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore* | Hub Dia. | LTB | Style | Wt. Lbs. |
| 9 | 0.837 | 0.731 | 0.591 | NS | NS | 0.250 | 0.250 | 0.438 | 0.500 | S | 0.03 |
| 10 | 0.919 | 0.809 | 0.679 | NS | NS | 0.250 | 0.250 | 0.500 | 0.500 | S | 0.03 |
| 11 | 1.002 | 0.870 | 0.748 | NS | NS | 0.250 | 0.313 | 0.563 | 0.500 | S | 0.04 |
| 12 | 1.083 | 0.996 | 0.836 | NS | NS | 0.250 | 0.375 | 0.625 | 0.500 | S | 0.06 |
| 13 | 1.167 | 1.045 | 0.907 | NS | NS | 0.250 | 0.438 | 0.781 | 0.500 | S | 0.07 |
| 14 | 1.246 | 1.124 | 0.994 | NS | NS | 0.250 | 0.563 | 0.813 | 0.500 | S | 0.08 |
| 15 | 1.326 | 1.203 | 1.066 | 0.250 | 0.040 | 0.250 | 0.563 | 0.891 | 0.500 | S | 0.10 |
| 16 | 1.407 | 1.282 | 1.152 | 0.250 | 0.040 | 0.250 | 0.563 | 0.969 | 0.500 | S | 0.12 |
| 17 | 1.487 | 1.361 | 1.225 | 0.250 | 0.040 | 0.250 | 0.625 | 1.031 | 0.500 | S | 0.14 |
| 18 | 1.568 | 1.440 | 1.310 | 0.250 | 0.040 | 0.250 | 0.750 | 1.125 | 0.500 | S | 0.16 |
| 19 | 1.648 | 1.519 | 1.383 | 0.250 | 0.040 | 0.250 | 0.813 | 1.219 | 0.500 | S | 0.19 |
| 20 | 1.729 | 1.598 | 1.468 | 0.250 | 0.040 | 0.250 | 0.875 | 1.281 | 0.625 | S | 0.25 |
| 21 | 1.809 | 1.678 | 1.543 | 0.375 | 0.040 | 0.250 | 0.875 | 1.375 | 0.625 | S | 0.28 |
| 22 | 1.889 | 1.757 | 1.627 | 0.375 | 0.060 | 0.250 | 0.938 | 1.438 | 0.625 | S | 0.31 |
| 23 | 1.969 | 1.836 | 1.702 | 0.375 | 0.060 | 0.250 | 1.000 | 1.500 | 0.625 | S | 0.32 |
| 24 | 2.049 | 1.915 | 1.785 | 0.375 | 0.080 | 0.375 | 1.000 | 1.500 | 0.625 | S | 0.33 |
| 25 | 2.129 | 1.995 | 1.861 | 0.375 | 0.080 | 0.375 | 1.000 | 1.500 | 0.625 | S | 0.34 |
| 26 | 2.209 | 2.074 | 1.944 | 0.375 | 0.090 | 0.375 | 1.000 | 1.500 | 0.625 | S | 0.35 |
| 28 | 2.369 | 2.233 | 2.103 | 0.375 | 0.100 | 0.375 | 1.000 | 1.500 | 0.625 | S | 0.36 |
| 30 | 2.529 | 2.392 | 2.262 | 0.375 | 0.120 | 0.375 | 1.000 | 1.500 | 0.625 | S | 0.38 |
| 32 | 2.688 | 2.551 | 2.421 | 0.375 | 0.140 | 0.375 | 1.000 | 1.500 | 0.625 | S | 0.40 |
| 35 | 2.928 | 2.789 | 2.656 | 0.375 | 0.160 | 0.375 | 1.000 | 1.500 | 0.625 | S | 0.46 |
| 36 | 3.008 | 2.889 | 2.739 | 0.375 | 0.180 | 0.375 | 1.000 | 1.500 | 0.750 | S | 0.50 |
| 40 | 3.327 | 3.187 | 3.057 | 0.500 | 0.200 | 0.500 | 1.375 | 2.000 | 0.750 | E | 0.53 |
| 45 | 3.725 | 3.584 | 3.452 | 0.500 | 0.250 | 0.500 | 1.375 | 2.000 | 0.750 | E | 0.56 |
| 48 | 3.964 | 3.823 | 3.693 | 0.500 | 0.320 | 0.500 | 1.375 | 2.000 | 0.750 | E | 0.56 |
| 54 | 4.442 | 4.300 | 4.170 | 0.500 | 0.380 | 0.500 | 1.375 | 2.000 | 0.750 | E | 1.00 |
| 60 | 4.920 | 4.777 | 4.647 | 0.500 | 0.540 | 0.500 | 1.375 | 2.000 | 0.750 | E | 1.10 |
| 72 | 5.876 | 5.732 | 5.602 | 0.500 | 0.740 | 0.500 | 1.375 | 2.000 | 0.750 | E | 1.30 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees
NS = Non Stock



No. 25 1/4" Pitch: STAINLESS STEEL PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 25SS |
| Pitch | 1/4" |
| Inside Width | 1/8" |
| Roller Diameter | 0.130" |
| Nominal Tooth Width: | 0.110" |

How to Order Code: Example Model # for 25 Pitch Plain Bore Stainless Steel Sprockets

| | | | | |
|-------------------------------|-----------------------|----------------------------------|-----------------|---|
| A | 25 | B | 14 | SS |
| Altered ¹ | Chain Pitch in Inches | Hub Type | Number of Teeth | Material |
| A: Alteration Required | 25: 1/4" Pitch | B: Hub Extension One Side | 9 | SS: 304 Stainless Steel Construction |
| | | | 10 | |
| | | | 11 | |
| | | | 12 | |
| | | | 13 | |
| | | | 14 | |

¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 25

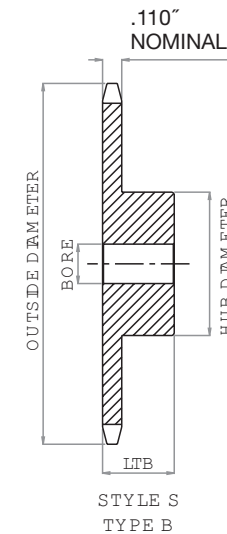
STAINLESS STEEL SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

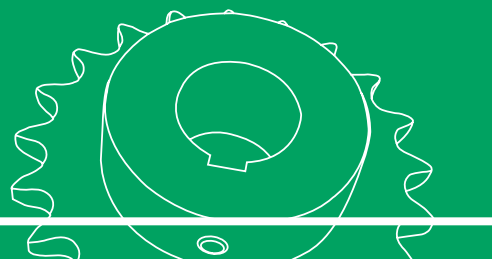
| No. 25 Stainless Steel Sprocket Diameters | | | | Type "B" Plain Bore | | | | |
|---|------------------|----------------|------------------|---------------------|-----------|----------|-------|----------|
| No. Teeth | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | MAX Bore* | Hub Dia. | LTB | Wt. Lbs. |
| 9 | 0.837 | 0.731 | 0.591 | 0.250 | 0.250 | 0.438 | 0.500 | 0.03 |
| 10 | 0.919 | 0.809 | 0.679 | 0.250 | 0.250 | 0.500 | 0.500 | 0.03 |
| 11 | 1.002 | 0.870 | 0.748 | 0.250 | 0.313 | 0.563 | 0.500 | 0.03 |
| 12 | 1.083 | 0.966 | 0.836 | 0.250 | 0.375 | 0.625 | 0.500 | 0.06 |
| 13 | 1.167 | 1.045 | 0.907 | 0.250 | 0.438 | 0.719 | 0.500 | 0.07 |
| 14 | 1.246 | 1.124 | 0.994 | 0.250 | 0.563 | 0.813 | 0.500 | 0.08 |
| 15 | 1.326 | 1.203 | 1.066 | 0.250 | 0.563 | 0.891 | 0.500 | 0.10 |
| 16 | 1.407 | 1.282 | 1.152 | 0.250 | 0.563 | 0.969 | 0.500 | 0.12 |
| 17 | 1.487 | 1.361 | 1.225 | 0.250 | 0.625 | 1.031 | 0.500 | 0.14 |
| 18 | 1.568 | 1.440 | 1.310 | 0.250 | 0.750 | 1.125 | 0.500 | 0.16 |
| 19 | 1.648 | 1.519 | 1.383 | 0.250 | 0.813 | 1.219 | 0.500 | 0.19 |
| 20 | 1.729 | 1.598 | 1.468 | 0.250 | 0.875 | 1.281 | 0.625 | 0.25 |
| 21 | 1.809 | 1.678 | 1.543 | 0.250 | 0.875 | 1.375 | 0.625 | 0.28 |
| 22 | 1.889 | 1.757 | 1.627 | 0.250 | 0.938 | 1.438 | 0.625 | 0.31 |
| 23 | 1.969 | 1.836 | 1.702 | 0.250 | 1.000 | 1.500 | 0.625 | 0.32 |
| 24 | 2.049 | 1.915 | 1.785 | 0.375 | 1.000 | 1.500 | 0.625 | 0.33 |
| 25 | 2.129 | 1.995 | 1.861 | 0.375 | 1.000 | 1.500 | 0.625 | 0.34 |
| 26 | 2.209 | 2.074 | 1.944 | 0.375 | 1.000 | 1.500 | 0.625 | 0.35 |
| 28 | 2.369 | 2.233 | 2.103 | 0.375 | 1.000 | 1.500 | 0.625 | 0.36 |
| 30 | 2.529 | 2.392 | 2.262 | 0.375 | 1.000 | 1.500 | 0.625 | 0.38 |
| 36 | 3.008 | 2.869 | 2.739 | 0.375 | 1.000 | 1.500 | 0.750 | 0.50 |
| 40 | 3.327 | 3.187 | 3.057 | 0.500 | 1.375 | 2.000 | 0.750 | 0.53 |
| 45 | 3.725 | 3.584 | 3.452 | 0.500 | 1.375 | 2.000 | 0.750 | 0.56 |
| 60 | 4.920 | 4.777 | 4.647 | 0.500 | 1.375 | 2.000 | 0.750 | 1.10 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



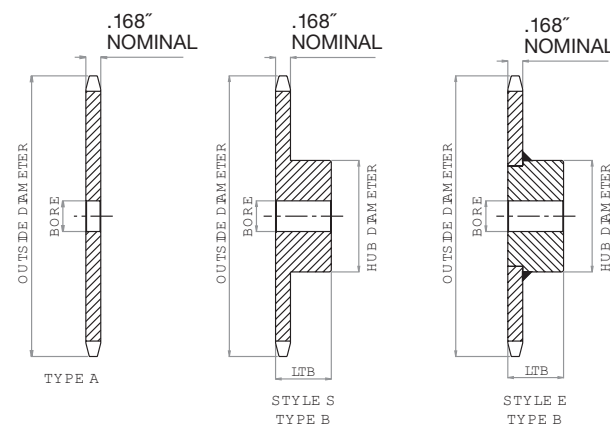
No. 35 3/8" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 35 |
| Pitch | 3/8" |
| Inside Width | 3/16" |
| Roller Diameter | 0.200" |
| Nominal Tooth Width: | 0.168" |

How to Order Code: Example Model # for 35 Pitch Plain Bore Carbon Steel Sprockets

| A | | 35 | | A | | 24 | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|-----|--|
| Altered ¹¹ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 35: 3/8" Pitch | A: No Hub Extension | 15 | 24 | 40 | 84 | |
| | | | 16 | 25 | 42 | 96 | |
| | | | 17 | 26 | 45 | 112 | |
| | | | 18 | 27 | 48 | | |
| | | | 19 | 28 | 54 | | |
| | | | 20 | 30 | 60 | | |
| | | | 21 | 32 | 70 | | |
| | | | 22 | 35 | 72 | | |
| | | | 23 | 36 | 80 | | |
| | | B: Hub Extension One Side | 8 | 18 | 28 | 60 | |
| | | | 9 | 19 | 30 | 70 | |
| | | | 10 | 20 | 32 | 72 | |
| | | | 11 | 21 | 35 | 80 | |
| | | | 12 | 22 | 36 | 84 | |
| | | | 13 | 23 | 40 | 96 | |
| | | | 14 | 24 | 42 | 112 | |
| | | | 15 | 25 | 45 | | |
| | | | 16 | 26 | 48 | | |
| | | | 17 | 27 | 54 | | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 35

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 35 Plain Bore Sprocket Dia. | | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | |
|---------------------------------|--------------|------------|--------------|---------------------|----------|---------------------|-----------|----------|-------|-------|----------|
| No. Teeth | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore* | Hub Dia. | LTB | Style | Wt. Lbs. |
| 8 | 1.130 | 0.980 | 0.780 | NS | NS | 0.375 | 0.375 | 0.750 □ | 0.750 | S | 0.07 |
| 9 | 1.260 | 1.097 | 0.880 | NS | NS | 0.375 | 0.375 | 0.844 □ | 0.750 | S | 0.09 |
| 10 | 1.380 | 1.214 | 1.014 | NS | NS | 0.375 | 0.563 | 0.969 □ | 0.750 | S | 0.14 |
| 11 | 1.500 | 1.331 | 1.117 | NS | NS | 0.375 | 0.563 | 1.063 □ | 0.750 | S | 0.17 |
| 12 | 1.630 | 1.449 | 1.249 | NS | NS | 0.500 | 0.563 | 1.219 □ | 0.750 | S | 0.20 |
| 13 | 1.750 | 1.567 | 1.356 | NS | NS | 0.500 | 0.688 | 1.250 □ | 0.750 | S | 0.23 |
| 14 | 1.870 | 1.685 | 1.485 | NS | NS | 0.500 | 0.875 | 1.250 | 0.750 | S | 0.25 |
| 15 | 1.990 | 1.804 | 1.594 | 0.500 | 0.110 | 0.500 | 0.875 | 1.344 | 0.750 | S | 0.29 |
| 16 | 2.110 | 1.922 | 1.722 | 0.500 | 0.120 | 0.500 | 0.938 | 1.469 | 0.750 | S | 0.35 |
| 17 | 2.230 | 2.041 | 1.832 | 0.500 | 0.140 | 0.500 | 1.063 | 1.594 | 0.750 | S | 0.42 |
| 18 | 2.350 | 2.160 | 1.960 | 0.500 | 0.160 | 0.500 | 1.188 | 1.719 | 0.750 | S | 0.48 |
| 19 | 2.470 | 2.279 | 2.071 | 0.500 | 0.170 | 0.500 | 1.250 | 1.844 | 0.750 | S | 0.54 |
| 20 | 2.590 | 2.397 | 2.197 | 0.500 | 0.190 | 0.500 | 1.313 | 1.938 | 0.750 | S | 0.59 |
| 21 | 2.710 | 2.516 | 2.309 | 0.500 | 0.210 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.80 |
| 22 | 2.830 | 2.635 | 2.435 | 0.500 | 0.240 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.80 |
| 23 | 2.950 | 2.754 | 2.548 | 0.500 | 0.260 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.82 |
| 24 | 3.070 | 2.873 | 2.673 | 0.500 | 0.280 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.88 |
| 25 | 3.190 | 2.992 | 2.786 | 0.500 | 0.310 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.88 |
| 26 | 3.310 | 3.111 | 2.911 | 0.500 | 0.330 | 0.500 | 1.375 | 2.000 | 0.875 | E | 0.90 |
| 27 | 3.430 | 3.230 | 3.025 | 0.500 | 0.360 | 0.500 | 1.375 | 2.000 | 0.875 | E | 0.94 |
| 28 | 3.550 | 3.349 | 3.149 | 0.500 | 0.380 | 0.500 | 1.375 | 2.000 | 0.875 | E | 0.94 |
| 30 | 3.790 | 3.588 | 3.388 | 0.500 | 0.440 | 0.500 | 1.375 | 2.000 | 0.875 | E | 1.02 |
| 32 | 4.030 | 3.826 | 3.626 | 0.625 | 0.500 | 0.500 | 1.375 | 2.000 | 0.875 | E | 1.24 |
| 35 | 4.390 | 4.184 | 3.979 | 0.625 | 0.610 | 0.625 | 1.500 | 2.250 | 0.875 | E | 1.50 |
| 36 | 4.510 | 4.303 | 4.103 | 0.625 | 0.640 | 0.625 | 1.500 | 2.250 | 0.875 | E | 1.56 |
| 40 | 4.990 | 4.780 | 4.580 | 0.594 | 0.790 | 0.625 | 1.500 | 2.250 | 1.000 | E | 1.62 |
| 42 | 5.230 | 5.018 | 4.818 | 0.594 | 0.900 | 0.625 | 1.500 | 2.250 | 1.000 | E | 1.68 |
| 45 | 5.590 | 5.376 | 5.173 | 0.594 | 1.000 | 0.625 | 1.500 | 2.250 | 1.000 | E | 1.78 |
| 48 | 5.950 | 5.734 | 5.534 | 0.594 | 1.100 | 0.625 | 1.500 | 2.250 | 1.000 | E | 1.88 |
| 54 | 6.660 | 6.449 | 6.249 | 0.594 | 1.400 | 0.625 | 1.500 | 2.250 | 1.000 | E | 2.20 |
| 60 | 7.380 | 7.165 | 6.965 | 0.594 | 1.800 | 0.750 | 1.500 | 2.250 | 1.000 | E | 2.48 |
| 70 | 8.580 | 8.358 | 8.158 | 0.719 | 2.400 | 0.750 | 1.500 | 2.250 | 1.000 | E | 3.12 |
| 72 | 8.810 | 8.597 | 8.397 | 0.719 | 2.600 | 0.750 | 1.500 | 2.250 | 1.000 | E | 3.42 |
| 80 | 9.770 | 9.552 | 9.352 | 0.719 | 3.200 | 0.750 | 1.500 | 2.250 | 1.000 | E | 3.82 |
| 84 | 10.250 | 10.029 | 9.829 | 0.719 | 3.500 | 0.750 | 1.500 | 2.250 | 1.000 | E | 4.24 |
| 96 | 11.680 | 11.461 | 11.261 | 0.719 | 4.600 | 0.750 | 1.500 | 2.250 | 1.000 | E | 5.16 |
| 112 | 13.590 | 13.371 | 13.171 | 0.719 | 6.300 | 0.750 | 1.500 | 2.250 | 1.000 | E | 6.70 |

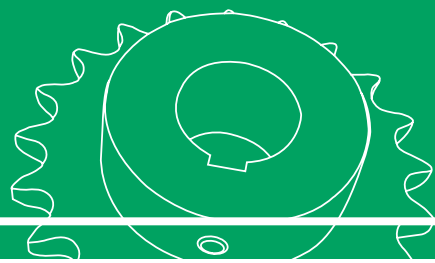
* Dimensions shown allow for standard keyway with set screw at 90 degrees

□ Has recessed groove in hub for chain clearance

NS = Non Stock

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 35 3/8" Pitch: STAINLESS STEEL PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 35SS |
| Pitch | 3/8" |
| Inside Width | 3/16" |
| Roller Diameter | 0.200" |
| Nominal Tooth Width: | 0.168" |

How to Order Code: Example Model # for 35 Pitch Plain Bore Stainless Steel Sprockets

| | | | | |
|------------------------|-----------------------|---------------------------|-----------------|--------------------------------------|
| A | 35 | B | 17 | SS |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | Number of Teeth | Material |
| A: Alteration Required | 35: 3/8" Pitch | B: Hub Extension One Side | 9 | SS: 304 Stainless Steel Construction |
| | | | 10 | |
| | | | 11 | |
| | | | 12 | |
| | | | 13 | |
| | | | 14 | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 35

STAINLESS STEEL SPROCKET DIMENSIONS

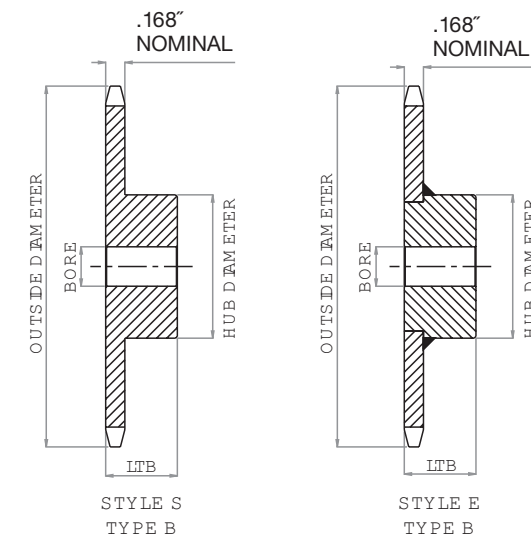
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 35 Stainless Steel Sprocket Diameters | | | | Type "B" Plain Bore | | | | | |
|---|------------------|----------------|------------------|---------------------|-----------|----------|-------|-----------|----------|
| No. Teeth | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | MAX Bore* | Hub Dia. | LTB | Hub Style | Wt. Lbs. |
| 9 | 1.260 | 1.097 | 0.880 | 0.375 | 0.375 | 0.844 □ | 0.750 | S | 0.10 |
| 10 | 1.380 | 1.214 | 1.014 | 0.375 | 0.563 | 0.969 □ | 0.750 | S | 0.15 |
| 11 | 1.500 | 1.331 | 1.117 | 0.375 | 0.563 | 1.063 □ | 0.750 | S | 0.20 |
| 12 | 1.630 | 1.449 | 1.249 | 0.500 | 0.563 | 1.219 □ | 0.750 | S | 0.22 |
| 13 | 1.750 | 1.567 | 1.356 | 0.500 | 0.688 | 1.250 □ | 0.750 | S | 0.25 |
| 14 | 1.870 | 1.685 | 1.485 | 0.500 | 0.875 | 1.250 | 0.750 | S | 0.26 |
| 15 | 1.990 | 1.804 | 1.594 | 0.500 | 0.875 | 1.344 | 0.750 | S | 0.30 |
| 16 | 2.110 | 1.922 | 1.722 | 0.500 | 0.938 | 1.469 | 0.750 | S | 0.40 |
| 17 | 2.230 | 2.041 | 1.832 | 0.500 | 1.063 | 1.594 | 0.750 | S | 0.43 |
| 18 | 2.350 | 2.160 | 1.960 | 0.500 | 1.188 | 1.719 | 0.750 | S | 0.50 |
| 19 | 2.470 | 2.279 | 2.071 | 0.500 | 1.250 | 1.844 | 0.750 | S | 0.56 |
| 20 | 2.590 | 2.397 | 2.197 | 0.500 | 1.313 | 1.938 | 0.750 | S | 0.68 |
| 21 | 2.710 | 2.516 | 2.309 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.80 |
| 22 | 2.830 | 2.635 | 2.435 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.82 |
| 23 | 2.950 | 2.754 | 2.548 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.87 |
| 24 | 3.070 | 2.873 | 2.673 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.89 |
| 25 | 3.190 | 2.992 | 2.786 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.91 |
| 26 | 3.310 | 3.111 | 2.911 | 0.500 | 1.375 | 2.000 | 0.875 | S | 0.93 |
| 28 | 3.550 | 3.349 | 3.149 | 0.500 | 1.375 | 2.000 | 0.875 | E | 1.00 |
| 30 | 3.790 | 3.588 | 3.388 | 0.500 | 1.375 | 2.000 | 0.875 | E | 1.06 |
| 35 | 4.390 | 4.184 | 3.979 | 0.625 | 1.500 | 2.250 | 0.875 | E | 1.56 |
| 40 | 4.990 | 4.780 | 4.580 | 0.625 | 1.500 | 2.250 | 1.000 | E | 1.70 |
| 45 | 5.590 | 5.376 | 5.173 | 0.625 | 1.500 | 2.250 | 1.000 | E | 2.18 |
| 60 | 7.380 | 7.165 | 6.965 | 0.750 | 1.500 | 2.250 | 1.000 | E | 3.00 |

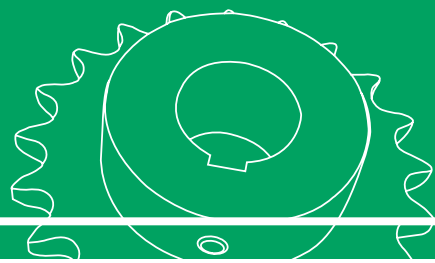
* Dimensions shown allow for standard keyway with set screw at 90 degrees

□ Has recessed groove in hub for chain clearance



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



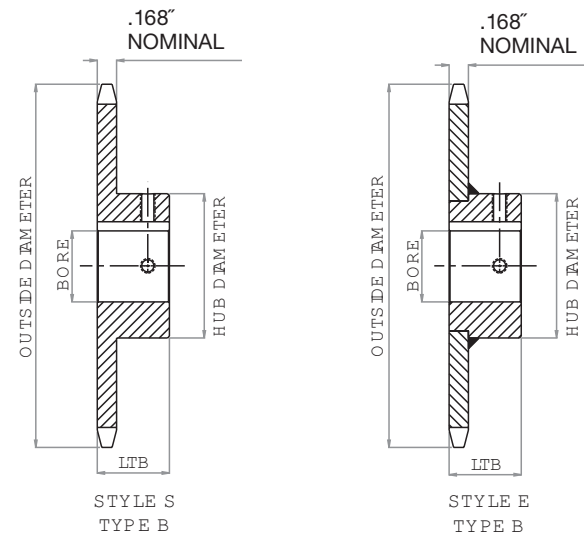
No. 35 3/8" Pitch: FINISHED BORE

| Chain Data | |
|----------------------|--------|
| Size | 35 |
| Pitch | 3/8" |
| Inside Width | 3/16" |
| Roller Diameter | 0.200" |
| Nominal Tooth Width: | 0.168" |

How to Order Code: Example Model # for 35 Pitch Finished Bore Carbon Steel Sprockets

| 35 | B | 24 | F - | 1B | | | | | |
|-----------------------|---------------------------|-----------------|-----|----|-----|--|------------|---------|----------|
| Chain Pitch in Inches | Hub Type | Number of Teeth | | | | Finished Bore | Hub Bore** | | |
| 35: 3/8" Pitch | B: Hub Extension One Side | 9 | 18 | 27 | 48 | F: Hub Extension Machined with keyway and two set screws | F | 3/8" | (0.375") |
| | | 10 | 19 | 28 | 54 | | H | 1/2" | (0.500") |
| | | 11 | 20 | 30 | 60 | | J | 5/8" | (0.625") |
| | | 12 | 21 | 32 | 70 | | L | 3/4" | (0.750") |
| | | 13 | 22 | 35 | 72 | | P | 7/8" | (0.875") |
| | | 14 | 23 | 36 | 80 | | 1 | 1" | (1.000") |
| | | 15 | 24 | 40 | 84 | | 1B | 1-1/8" | (1.125") |
| | | 16 | 25 | 42 | 96 | | 1C | 1-3/16" | (1.188") |
| | | 17 | 26 | 45 | 112 | | 1D | 1-1/4" | (1.250") |

** Hub bore size should be selected from dimensional table on the following page. Bore sizes that are not listed for a given number of sprocket teeth may be available per request as Altered.



No. 35

FINISHED BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

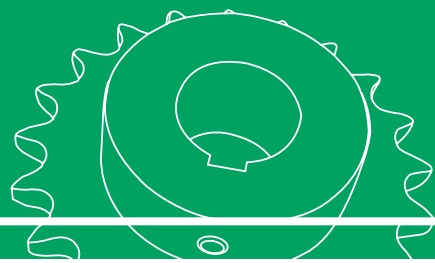
All dimensions in inches unless noted.

| No. 35 Finished Bore Sprocket Dia. | | | | Type "F" Bored to Shaft Size (includes standard keyway and two set screws)** | | | | | | | | |
|------------------------------------|--------------|------------|--------------|---|----------|-------|-------|-------|--------|--------|---------|--------|
| No. Teeth | Outside Dia. | Pitch Dia. | Caliper Dia. | .375" ** | .500" ** | .625" | .750" | .875" | 1.000" | 1.125" | 1.1875" | 1.250" |
| 9 | 1.260 | 1.097 | 0.880 | • | | | | | | | | |
| 10 | 1.380 | 1.214 | 1.014 | • | • | • ■ | | | | | | |
| 11 | 1.500 | 1.331 | 1.117 | • | • | • ■ | • ■ | | | | | |
| 12 | 1.630 | 1.449 | 1.249 | | • | • | • ■ | | | | | |
| 13 | 1.750 | 1.567 | 1.356 | | • | • | • | | | | | |
| 14 | 1.870 | 1.685 | 1.485 | | • | • | • | | | | | |
| 15 | 1.990 | 1.804 | 1.594 | | • | • | • | • | • ■ | | | |
| 16 | 2.110 | 1.922 | 1.722 | | • | • | • | • | • ■ | | | |
| 17 | 2.230 | 2.041 | 1.832 | | • | • | • | • | • | | | |
| 18 | 2.350 | 2.160 | 1.960 | | • | • | • | • | • | | | |
| 19 | 2.470 | 2.278 | 2.071 | | • | • | • | | • | | | |
| 20 | 2.590 | 2.397 | 2.197 | | • | • | • | | • | | | |
| 21 | 2.710 | 2.516 | 2.309 | | • | • | • | | • | | | |
| 22 | 2.830 | 2.635 | 2.435 | | • | • | • | | • | | | |
| 23 | 2.950 | 2.754 | 2.548 | | • | • | • | | • | | | |
| 24 | 3.070 | 2.873 | 2.673 | | • | • | • | | • | | | |
| 25 | 3.190 | 2.992 | 2.786 | | • | • | • | | • | | | |
| 26 | 3.310 | 3.111 | 2.911 | | | • | • | • | • | • | • | • |
| 27 | 3.430 | 3.230 | 3.025 | | | • | • | • | • | • | • | • |
| 28 | 3.550 | 3.349 | 3.149 | | | • | • | • | • | • | • | • |
| 30 | 3.790 | 3.588 | 3.388 | | | • | • | • | • | • | • | • |
| 32 | 4.030 | 3.826 | 3.626 | | | • | • | • | • | • | • | • |
| 35 | 4.390 | 4.184 | 3.979 | | | • | • | • | • | • | • | • |
| 36 | 4.510 | 4.303 | 4.103 | | | • | • | • | • | • | • | • |
| 40 | 4.990 | 4.780 | 4.580 | | | • | • | • | • | • | • | • |
| 42 | 5.230 | 5.018 | 4.818 | | | • | • | • | • | • | • | • |
| 45 | 5.590 | 5.376 | 5.173 | | | • | • | • | • | • | • | • |
| 48 | 5.950 | 5.734 | 5.534 | | | • | • | • | • | • | • | • |
| 54 | 6.660 | 6.449 | 6.249 | | | • | • | • | • | • | • | • |
| 60 | 7.380 | 7.165 | 6.965 | | | | • | • | • | • | • | • |
| 70 | 8.580 | 8.358 | 8.158 | | | | • | • | • | • | • | • |
| 72 | 8.810 | 8.597 | 8.397 | | | | • | • | • | • | • | • |
| 80 | 9.770 | 9.552 | 9.352 | | | | • | • | • | • | • | • |
| 84 | 10.250 | 10.029 | 9.829 | | | | • | • | • | • | • | • |
| 96 | 11.680 | 11.461 | 11.261 | | | | • | • | • | • | • | • |
| 112 | 13.590 | 13.371 | 13.171 | | | | • | • | • | • | • | • |

- Denotes stocking item
- ** Furnished without keyway
- Indicates set screw at 90 degrees and 180 degrees from keyway

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 35 3/8" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|--------|
| Size | 35 - 2 |
| Pitch | 3/8" |
| Inside Width | 3/16" |
| Roller Diameter | 0.200" |
| Nominal Tooth Width: | 0.162" |

How to Order Code: Example Model # for 35 Pitch Double Strand Carbon Steel Sprockets

| | | | | |
|------------------------|------------------|-----------------------|---------------------------|-----------------|
| A | D | 35 | B | 18 |
| Altered ¹⁾ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth |
| A: Alteration Required | D: Double Strand | 35: 3/8" Pitch | B: Hub Extension One Side | 13 |
| | | | | 14 |
| | | | | 15 |
| | | | | 16 |
| | | | | 17 |
| | | | | 18 |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 35

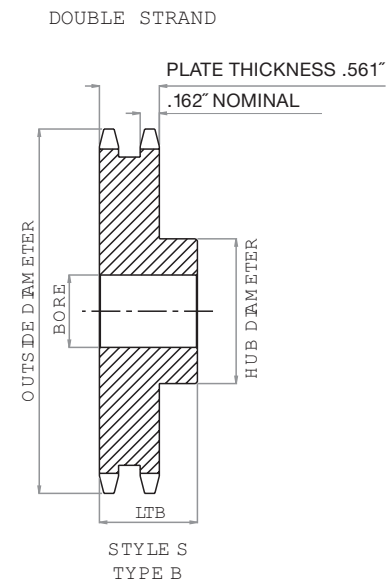
MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

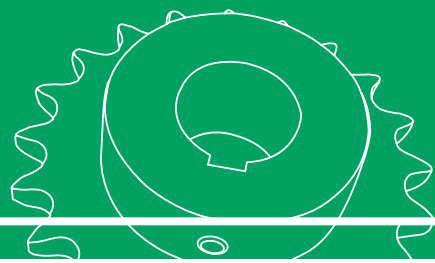
| No. 35 Multi-Strand Sprocket Diameters | | | Dimensional Data | | | | |
|--|--------------|------------|------------------|-------|-----------|-------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | Hub Diameter | LTB | MAX Bore* | Style | Weight Lbs. |
| 13 | 1.750 | 0.500 | 1.109 | 1.250 | 0.688 | S | 0.36 |
| 14 | 1.870 | 0.500 | 1.250 | 1.250 | 0.875 | S | 0.44 |
| 15 | 1.990 | 0.500 | 1.406 | 1.250 | 0.938 | S | 0.56 |
| 16 | 2.110 | 0.500 | 1.469 | 1.250 | 0.938 | S | 0.64 |
| 17 | 2.230 | 0.500 | 1.594 | 1.250 | 1.063 | S | 0.74 |
| 18 | 2.350 | 0.500 | 1.719 | 1.250 | 1.188 | S | 0.84 |
| 19 | 2.470 | 0.500 | 1.875 | 1.250 | 1.313 | S | 0.96 |
| 20 | 2.590 | 0.750 | 1.938 | 1.375 | 1.313 | S | 1.08 |
| 21 | 2.710 | 0.750 | 2.063 | 1.375 | 1.375 | S | 1.24 |
| 22 | 2.883 | 0.750 | 2.188 | 1.375 | 1.438 | S | 1.42 |
| 23 | 2.954 | 0.750 | 2.250 | 1.375 | 1.500 | S | 1.54 |
| 24 | 3.074 | 0.750 | 2.250 | 1.375 | 1.500 | S | 1.62 |
| 25 | 3.194 | 0.750 | 2.250 | 1.375 | 1.500 | S | 1.66 |
| 26 | 3.314 | 0.750 | 2.500 | 1.375 | 1.750 | S | 1.98 |
| 30 | 3.793 | 0.750 | 2.500 | 1.375 | 1.750 | S | 2.34 |
| 36 | 4.510 | 0.750 | 2.500 | 1.375 | 1.750 | S | 3.00 |
| 42 | 5.230 | 0.750 | 2.500 | 1.375 | 1.750 | S | 3.80 |
| 48 | 5.950 | 0.750 | 2.500 | 1.375 | 1.750 | S | 4.66 |
| 60 | 8.810 | 0.750 | 2.500 | 1.375 | 1.750 | S | 6.84 |
| 72 | 10.250 | 0.750 | 3.500 | 1.500 | 2.375 | S | 11.04 |
| 84 | 11.560 | 0.750 | 3.500 | 1.500 | 2.375 | S | 14.98 |
| 96 | 11.560 | 1.000 | 3.500 | 1.500 | 2.375 | S | 17.42 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 35 3/8" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 35 |
| Pitch | 3/8" |
| Inside Width | 3/16" |
| Roller Diameter | 0.200" |
| Nominal Tooth Width: | 0.168" |

How to Order Code: Example Model # for 35 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | | | | | | | | | | | | |
|-------------------------------|-----------------------|----------------------------------|---------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
| A | 35 | B | TL | 18 | | | | | | | | | | | | | | | |
| Altered ¹¹ | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | | | | | | | | | | | | |
| A: Alteration Required | 35: 3/8" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | <table border="1"> <tr> <td>18</td> <td>21</td> <td>24</td> <td>26</td> <td>30</td> </tr> <tr> <td>19</td> <td>22</td> <td>25</td> <td>28</td> <td>32</td> </tr> <tr> <td>20</td> <td>23</td> <td></td> <td></td> <td></td> </tr> </table> | 18 | 21 | 24 | 26 | 30 | 19 | 22 | 25 | 28 | 32 | 20 | 23 | | | |
| 18 | 21 | 24 | 26 | 30 | | | | | | | | | | | | | | | |
| 19 | 22 | 25 | 28 | 32 | | | | | | | | | | | | | | | |
| 20 | 23 | | | | | | | | | | | | | | | | | | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1008 | 0.500 - 1.000" |
| 1210 | 0.500 - 1.250" |
| 1610 | 0.500 - 1.688" |

No. 35

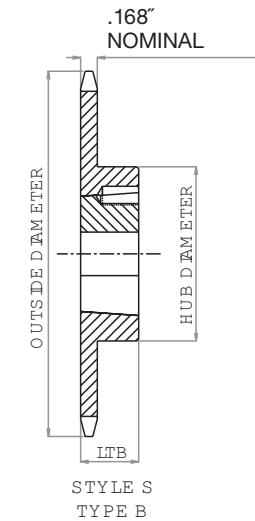
TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

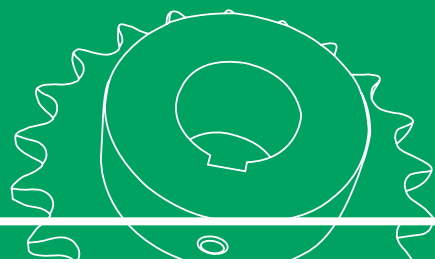
| No. 35 TAPER-LOCK® Sprockets Dia. | | | Dimensional Data | | | |
|-----------------------------------|------------------|-----------|------------------|-------|--------------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore* | LTB | Hub Diameter | Weight Lbs. |
| 18 | 2.352 | 1008 | 1.000 | 0.875 | 1.875 □ | 0.40 |
| 19 | 2.472 | 1008 | 1.000 | 0.875 | 1.813 | 0.50 |
| 20 | 2.593 | 1008 | 1.000 | 0.875 | 1.938 | 0.60 |
| 21 | 2.713 | 1008 | 1.000 | 0.875 | 2.063 | 0.70 |
| 22 | 2.883 | 1210 | 1.250 | 1.000 | 2.375 □ | 0.80 |
| 23 | 2.954 | 1210 | 1.250 | 1.000 | 2.438 | 0.90 |
| 24 | 3.074 | 1210 | 1.250 | 1.000 | 2.438 | 0.90 |
| 25 | 3.194 | 1210 | 1.250 | 1.000 | 2.438 | 1.20 |
| 26 | 3.314 | 1610 | 1.688 | 1.000 | 2.875 □ | 1.10 |
| 28 | 3.553 | 1610 | 1.688 | 1.000 | 2.875 | 1.20 |
| 30 | 3.793 | 1610 | 1.688 | 1.000 | 3.125 | 1.20 |
| 32 | 4.032 | 1610 | 1.688 | 1.000 | 3.250 | 1.30 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.
 □ Has recessed groove in hub for chain clearance



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 35 3/8" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 35 |
| Pitch | 3/8" |
| Inside Width | 3/16" |
| Roller Diameter | 0.200" |
| Nominal Tooth Width: | 0.168" |

How to Order Code: Example Model # for 35 Pitch QD® Carbon Steel Sprockets

| | | | | | | | |
|------------------------|-----------------------|------------------------------------|-----------------|----|----|----|----|
| A | 35 | JA | 24 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 35: 3/8" Pitch | JA: QD® Hub 19 - 30 tooth sprocket | 19 | 21 | 25 | 27 | 30 |
| | | | 20 | 24 | 26 | 28 | |
| | | SH: QD® Hub 40 - 84 tooth sprocket | 40 | 45 | 54 | 70 | 80 |
| | | | 42 | 48 | 60 | 72 | 84 |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| JA | 0.500 - 1.250" |
| SH | 0.500 - 1.688" |

No. 35

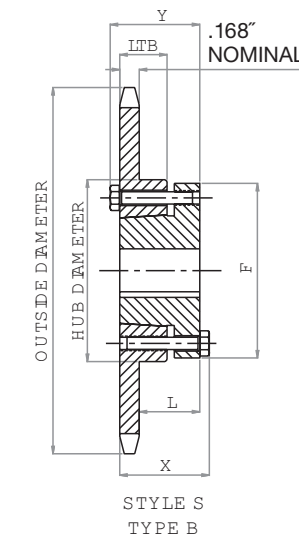
QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

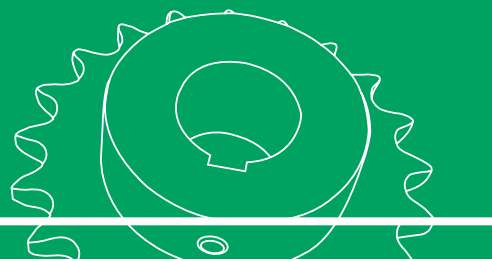
| No. 35 QD® Sprockets Dia. | | | Dimensional Data | | | | | | | |
|---------------------------|------------------|-----------|------------------|--------------|-------|-------|-------|-------|-------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore* | Hub Diameter | LTB | X | Y | L | F | Weight Lbs. |
| 19 | 2.472 | JA | 1.250 | 2.063 | 0.625 | 1.000 | 1.125 | 0.828 | 2.063 | 0.28 |
| 20 | 2.593 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.32 |
| 21 | 2.713 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.33 |
| 24 | 3.074 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.40 |
| 25 | 3.194 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.44 |
| 26 | 3.314 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.45 |
| 27 | 3.434 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.48 |
| 28 | 3.550 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.52 |
| 30 | 3.793 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.828 | 2.063 | 0.56 |
| 40 | 4.990 | SH | 1.688 | 2.688 | 0.563 | 1.438 | 1.438 | 1.078 | 2.688 | 1.18 |
| 42 | 5.230 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 1.26 |
| 45 | 5.590 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 1.40 |
| 48 | 5.946 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 1.58 |
| 54 | 6.660 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 1.88 |
| 60 | 7.380 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 2.28 |
| 70 | 8.580 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 2.94 |
| 72 | 8.810 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 3.14 |
| 80 | 9.770 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 3.68 |
| 84 | 10.250 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.078 | 2.688 | 3.96 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



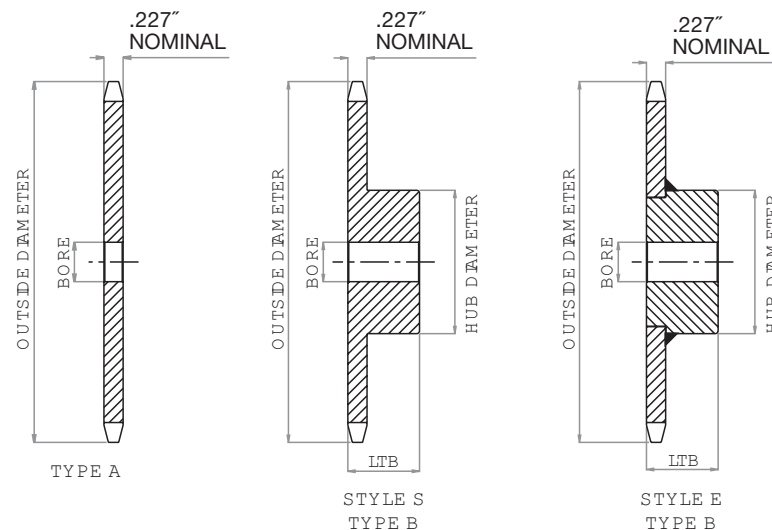
No. 41 1/2" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 41 |
| Pitch | 1/2" |
| Inside Width | 1/4" |
| Roller Diameter | 0.306" |
| Nominal Tooth Width: | 0.227" |

How to Order Code: Example Model # for 41 Pitch Plain Bore Carbon Steel Sprockets

| | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|-----|
| A | 41 | A | 36 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 41: 1/2" Pitch | A: No Hub Extension | 15 | 21 | 27 | 40 | 70 |
| | | | 16 | 22 | 28 | 42 | 72 |
| | | | 17 | 23 | 30 | 45 | 80 |
| | | | 18 | 24 | 32 | 48 | 84 |
| | | | 19 | 25 | 35 | 54 | 96 |
| | | | 20 | 26 | 36 | 60 | 112 |
| | | B: Hub Extension One Side | 8 | 16 | 24 | 36 | 72 |
| | | | 9 | 17 | 25 | 40 | 80 |
| | | | 10 | 18 | 26 | 42 | 84 |
| | | | 11 | 19 | 27 | 45 | 96 |
| | | | 12 | 20 | 28 | 48 | 112 |
| | | | 13 | 21 | 30 | 54 | |
| | | | 14 | 22 | 32 | 60 | |
| | | | 15 | 23 | 35 | 70 | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 41

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. Teeth | No. 41 Plain Bore Sprocket Diameters | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | |
|-----------|--------------------------------------|----------------|------------------|---------------------|----------|---------------------|-----------|----------|-------|-------|----------|
| | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore* | Hub Dia. | LTB | Style | Wt. Lbs. |
| 8 | 1.510 | 1.307 | 1.002 | NS | NS | 0.500 | 0.500 | 0.984 □ | 0.875 | S | 0.19 |
| 9 | 1.670 | 1.462 | 1.134 | NS | NS | 0.500 | 0.625 | 1.125 □ | 0.875 | S | 0.20 |
| 10 | 1.840 | 1.618 | 1.312 | NS | NS | 0.500 | 0.750 | 1.250 □ | 0.875 | S | 0.27 |
| 11 | 2.000 | 1.775 | 1.451 | NS | NS | 0.500 | 0.875 | 1.438 □ | 0.875 | S | 0.35 |
| 12 | 2.170 | 1.932 | 1.626 | NS | NS | 0.500 | 0.938 | 1.563 □ | 0.875 | S | 0.44 |
| 13 | 2.330 | 2.089 | 1.768 | NS | NS | 0.500 | 1.000 | 1.563 | 0.875 | S | 0.50 |
| 14 | 2.490 | 2.247 | 1.941 | NS | NS | 0.500 | 1.250 | 1.750 | 0.875 | S | 0.57 |
| 15 | 2.650 | 2.405 | 2.086 | 0.625 | 0.28 | 0.500 | 1.313 | 1.906 | 0.875 | S | 0.72 |
| 16 | 2.810 | 2.563 | 2.257 | 0.625 | 0.34 | 0.625 | 1.375 | 2.063 | 0.875 | S | 0.91 |
| 17 | 2.980 | 2.721 | 2.403 | 0.625 | 0.36 | 0.625 | 1.500 | 2.234 | 1.000 | S | 1.09 |
| 18 | 3.140 | 2.879 | 2.573 | 0.625 | 0.44 | 0.625 | 1.625 | 2.375 | 1.000 | S | 1.25 |
| 19 | 3.300 | 3.038 | 2.722 | 0.625 | 0.46 | 0.625 | 1.750 | 2.469 | 1.000 | S | 1.49 |
| 20 | 3.460 | 3.355 | 2.890 | 0.625 | 0.52 | 0.625 | 1.875 | 2.750 | 1.000 | S | 1.64 |
| 21 | 3.620 | 3.513 | 3.040 | 0.625 | 0.60 | 0.625 | 1.875 | 2.875 | 1.000 | E | 1.81 |
| 22 | 3.780 | 3.672 | 3.207 | 0.625 | 0.66 | 0.625 | 2.000 | 3.000 | 1.000 | E | 1.93 |
| 23 | 3.940 | 3.672 | 3.357 | 0.625 | 0.72 | 0.625 | 2.250 | 3.188 | 1.000 | E | 2.25 |
| 24 | 4.100 | 3.831 | 3.525 | 0.625 | 0.82 | 0.625 | 2.250 | 3.250 | 1.000 | E | 2.33 |
| 25 | 4.200 | 3.989 | 3.675 | 0.625 | 0.88 | 0.625 | 2.250 | 3.250 | 1.000 | E | 2.46 |
| 26 | 4.418 | 4.148 | 3.842 | 0.625 | 0.94 | 0.625 | 2.250 | 3.250 | 1.000 | E | 2.50 |
| 27 | 4.580 | 4.307 | 3.994 | 0.625 | 1.00 | 0.625 | 2.250 | 3.250 | 1.000 | E | 2.56 |
| 28 | 4.740 | 4.465 | 4.159 | 0.625 | 1.08 | 0.625 | 2.250 | 3.250 | 1.000 | E | 2.64 |
| 30 | 5.060 | 4.783 | 4.477 | 0.594 | 1.20 | 0.625 | 2.250 | 3.250 | 1.000 | E | 2.80 |
| 32 | 5.380 | 5.101 | 4.794 | 0.594 | 1.44 | 0.625 | 2.250 | 3.250 | 1.000 | E | 2.96 |
| 35 | 5.860 | 5.578 | 5.266 | 0.594 | 1.70 | 0.625 | 2.375 | 3.250 | 1.000 | E | 3.12 |
| 36 | 6.020 | 5.737 | 5.431 | 0.594 | 1.84 | 0.625 | 2.375 | 3.250 | 1.000 | E | 3.32 |
| 40 | 6.650 | 6.373 | 6.067 | 0.719 | 2.22 | 0.750 | 2.375 | 3.250 | 1.063 | E | 4.06 |
| 42 | 6.970 | 6.691 | 6.385 | 0.719 | 2.50 | 0.750 | 2.375 | 3.500 | 1.063 | E | 4.10 |
| 45 | 7.450 | 7.168 | 6.858 | 0.719 | 2.52 | 0.750 | 2.375 | 3.500 | 1.063 | E | 4.18 |
| 48 | 7.930 | 7.645 | 7.339 | 0.719 | 2.92 | 0.750 | 2.375 | 3.500 | 1.063 | E | 4.92 |
| 54 | 8.880 | 8.599 | 8.294 | 0.719 | 3.54 | 0.750 | 2.375 | 3.500 | 1.063 | E | 5.68 |
| 60 | 9.840 | 9.544 | 9.246 | 0.719 | 4.60 | 0.750 | 2.375 | 3.500 | 1.063 | E | 6.78 |
| 70 | 11.430 | 11.145 | 10.840 | 0.719 | 6.22 | 0.750 | 2.750 | 4.000 | 1.188 | E | 9.54 |
| 72 | 11.750 | 11.463 | 11.156 | 0.719 | 6.32 | 0.750 | 2.750 | 4.000 | 1.188 | E | 9.64 |
| 80 | 13.030 | 12.736 | 12.430 | 0.719 | 8.46 | 0.750 | 2.750 | 4.000 | 1.188 | E | 11.54 |
| 84 | 13.660 | 13.372 | 13.067 | 0.719 | 9.12 | 0.750 | 2.750 | 4.000 | 1.188 | E | 12.20 |
| 96 | 15.570 | 15.282 | 14.976 | 0.938 | 11.84 | 1.000 | 2.750 | 4.000 | 1.188 | E | 14.86 |
| 112 | 18.120 | 17.827 | 17.522 | 0.938 | 15.84 | 1.000 | 2.750 | 4.000 | 1.188 | E | 19.16 |

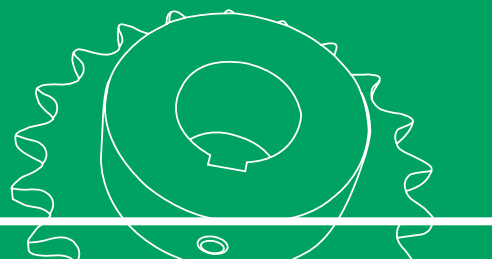
* Dimensions shown allow for standard keyway with set screw at 90 degrees

□ Has recessed groove in hub for chain clearance

NS = Non Stock

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 41 1/2" Pitch: FINISHED BORE

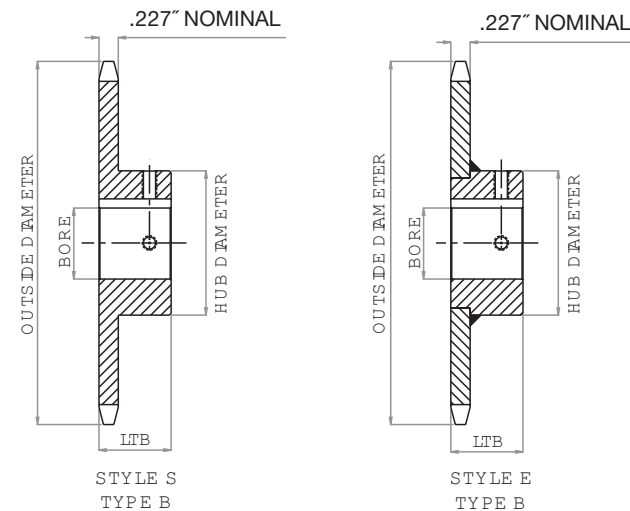
| Chain Data | |
|----------------------|--------|
| Size | 41 |
| Pitch | 1/2" |
| Inside Width | 1/4" |
| Roller Diameter | 0.306" |
| Nominal Tooth Width: | 0.227" |

How to Order Code: Example Model # for 41 Pitch Finished Bore Carbon Steel Sprockets

| | | | | |
|----|---|----|-----|----|
| 41 | B | 36 | F - | 1B |
|----|---|----|-----|----|

| Chain Pitch in Inches | Hub Type | Number of Teeth | | | | Finished Bore | Hub Bore ** | |
|-----------------------|---------------------------|-----------------|----|----|----|--|-------------|------------------|
| | | 9 | 19 | 30 | 70 | | H: | J: |
| 41: 1/2" Pitch | B: Hub Extension One Side | | | | | F: Sprocket bore supplied with keyway and two set screws | H: | 1/2" (0.500") |
| | | | | | | | J: | 5/8" (0.625") |
| | | | | | | | L: | 3/4" (0.750") |
| | | | | | | | 1: | 1" (1.000") |
| | | | | | | | 1B: | 1-1/8" (1.125") |
| | | | | | | | 1C: | 1-3/16" (1.188") |
| | | | | | | | 1D: | 1-1/4" (1.250") |
| | | | | | | | 1F: | 1-3/8" (1.375") |
| | | | | | | | 1G: | 1-7/16" (1.437") |
| | | | | | | | 1H: | 1-1/2" (1.500") |

** Hub bore size should be selected from dimensional table on the following page. Bore sizes that are not listed for a given number of sprocket teeth may be available per request as Altered.



No. 41

FINISHED BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

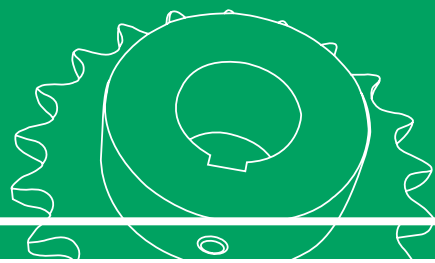
All dimensions in inches unless noted.

| No. Teeth | No. 41 Finished Bore Sprocket Diameters | | | Type "F" Bored to Shaft Size (includes standard keyway and two set screws) | | | | | | | | | | Hub Style | Wt. Lbs. | |
|-----------|---|----------------|------------------|--|-------|-------|--------|--------|--------|--------|--------|--------|--------|-----------|----------|-------|
| | Outside Diameter | Pitch Diameter | Caliper Diameter | .500" | .625" | .750" | 1.000" | 1.125" | 1.188" | 1.250" | 1.375" | 1.438" | 1.500" | | | |
| 9 | 1.670 | 1.462 | 1.134 | • | • | | | | | | | | | | S | 0.20 |
| 10 | 1.840 | 1.618 | 1.312 | • | • | | | | | | | | | | S | 0.27 |
| 11 | 2.000 | 1.775 | 1.451 | • | • | • | | | | | | | | | S | 0.35 |
| 12 | 2.170 | 1.932 | 1.626 | • | • | • | | | | | | | | | S | 0.44 |
| 13 | 2.330 | 2.089 | 1.768 | • | • | • | • | | | | | | | | S | 0.50 |
| 14 | 2.490 | 2.247 | 1.941 | • | • | • | • | | | | | | | | S | 0.57 |
| 15 | 2.650 | 2.405 | 2.086 | • | • | • | • | | | | | | | | S | 0.72 |
| 16 | 2.810 | 2.563 | 2.257 | | • | • | • | | | | | | | | S | 0.91 |
| 17 | 2.980 | 2.721 | 2.403 | | • | • | • | | | | | | | | S | 1.09 |
| 18 | 3.140 | 2.879 | 2.573 | | | • | • | • | | | | | | | S | 1.25 |
| 19 | 3.300 | 3.038 | 2.722 | | | • | • | • | | | | | | | S | 1.49 |
| 20 | 3.460 | 3.196 | 2.890 | | | • | • | • | | | | | | | S | 1.64 |
| 21 | 3.620 | 3.355 | 3.040 | | | • | • | • | | | | | | | E | 1.81 |
| 22 | 3.780 | 3.513 | 3.207 | | | • | • | • | | | | | | | E | 1.93 |
| 23 | 3.940 | 3.672 | 3.357 | | | • | • | • | | | | | | | E | 2.25 |
| 24 | 4.100 | 3.831 | 3.525 | | | • | • | • | | | | | | | E | 2.33 |
| 25 | 4.200 | 3.989 | 3.675 | | | • | • | • | | | | | | | E | 2.46 |
| 26 | 4.418 | 4.148 | 3.842 | | | • | • | • | | | | | | | E | 2.50 |
| 27 | 4.580 | 4.307 | 3.994 | | | • | • | • | | | | | | | E | 2.56 |
| 28 | 4.740 | 4.465 | 4.159 | | | • | • | • | | | | | | | E | 2.64 |
| 30 | 5.060 | 4.783 | 4.477 | | | • | • | • | | | | | | | E | 2.80 |
| 32 | 5.380 | 5.101 | 4.794 | | | • | • | • | | | | | | | E | 2.96 |
| 35 | 5.860 | 5.578 | 5.266 | | | • | • | • | | | | | | | E | 3.12 |
| 36 | 6.020 | 5.737 | 5.431 | | | • | • | • | | | | | | | E | 3.32 |
| 40 | 6.650 | 6.373 | 6.067 | | | • | • | • | • | • | • | • | • | • | E | 4.06 |
| 42 | 6.970 | 6.691 | 6.385 | | | • | • | • | • | • | • | • | • | • | E | 4.10 |
| 45 | 7.450 | 7.168 | 6.858 | | | • | • | • | • | • | • | • | • | • | E | 4.18 |
| 48 | 7.930 | 7.645 | 7.339 | | | • | • | • | • | • | • | • | • | • | E | 4.92 |
| 54 | 8.880 | 8.599 | 8.294 | | | • | • | • | • | • | • | • | • | • | E | 5.68 |
| 60 | 9.840 | 9.544 | 9.246 | | | • | • | • | • | • | • | • | • | • | E | 6.78 |
| 70 | 11.430 | 11.145 | 10.840 | | | • | • | • | • | • | • | • | • | • | E | 9.54 |
| 72 | 11.750 | 11.463 | 11.156 | | | • | • | • | • | • | • | • | • | • | E | 9.64 |
| 80 | 13.030 | 12.736 | 12.430 | | | • | • | • | • | • | • | • | • | • | E | 11.54 |
| 84 | 13.660 | 13.372 | 13.067 | | | • | • | • | • | • | • | • | • | • | E | 12.20 |
| 96 | 15.570 | 15.282 | 14.976 | | | • | • | • | • | • | • | • | • | • | E | 14.86 |
| 112 | 18.120 | 17.827 | 17.522 | | | • | • | • | • | • | • | • | • | • | E | 19.16 |

• Denotes stocking item
 ** Furnished without keyway

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 41 1/2" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 41 |
| Pitch | 1/2" |
| Inside Width | 1/4" |
| Roller Diameter | 0.306" |
| Nominal Tooth Width: | 0.227" |

How to Order Code: Example Model # for 41 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|---------------------------------|-----------------|----|----|----|----|
| A | 41 | B | TL | 18 | | | | |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | 41: 1/2" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | 14 | 20 | 26 | 40 | 72 |
| | | | | 15 | 21 | 28 | 45 | 80 |
| | | | | 16 | 22 | 30 | 48 | 96 |
| | | | | 17 | 23 | 32 | 54 | |
| | | | | 18 | 24 | 35 | 60 | |
| | | | | 19 | 25 | 36 | 70 | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1008 | 0.500 - 1.000" |
| 1210 | 0.500 - 1.250" |
| 1610 | 0.500 - 1.688" |

No. 41

TAPER-LOCK® SPROCKET DIMENSIONS

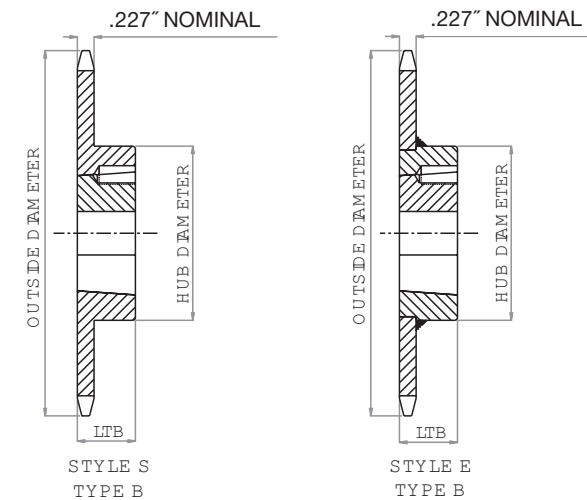
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 41 TAPER-LOCK® Sprockets Dia. | | | Dimensional Data | | | | |
|-----------------------------------|--------------|-----------|------------------|-------|--------------|-----------|-------------|
| No. Teeth | Outside Dia. | Bushing # | MAX Bore* | LTB | Hub Diameter | Hub Style | Weight Lbs. |
| 14 | 2.490 | 1008 | 1.000 | 0.875 | 1.875 □ | S | 0.40 |
| 15 | 2.650 | 1008 | 1.000 | 0.875 | 1.875 | S | 0.50 |
| 16 | 2.810 | 1008 | 1.000 | 0.875 | 2.000 | S | 0.60 |
| 17 | 2.970 | 1210 | 1.250 | 1.000 | 2.375 □ | S | 0.70 |
| 18 | 3.140 | 1210 | 1.250 | 1.000 | 2.375 | S | 0.90 |
| 19 | 3.300 | 1210 | 1.250 | 1.000 | 2.500 | S | 1.10 |
| 20 | 3.460 | 1610 | 1.688 | 1.000 | 2.875 □ | S | 1.10 |
| 21 | 3.620 | 1610 | 1.688 | 1.000 | 3.000 □ | S | 1.20 |
| 22 | 3.780 | 1610 | 1.688 | 1.000 | 3.000 | S | 1.30 |
| 23 | 3.940 | 1610 | 1.688 | 1.000 | 3.000 | S | 1.40 |
| 24 | 4.100 | 1610 | 1.688 | 1.000 | 3.000 | S | 1.40 |
| 25 | 4.200 | 1610 | 1.688 | 1.000 | 3.000 | S | 1.50 |
| 26 | 4.420 | 1610 | 1.688 | 1.000 | 3.000 | S | 1.50 |
| 28 | 4.740 | 1610 | 1.688 | 1.000 | 3.000 | E | 1.70 |
| 30 | 5.060 | 1610 | 1.688 | 1.000 | 3.000 | E | 1.80 |
| 32 | 5.380 | 1610 | 1.688 | 1.000 | 3.000 | E | 1.90 |
| 35 | 5.860 | 1610 | 1.688 | 1.000 | 3.000 | E | 2.30 |
| 36 | 6.020 | 1610 | 1.688 | 1.000 | 3.000 | E | 2.40 |
| 40 | 6.650 | 1610 | 1.688 | 1.000 | 3.000 | E | 2.70 |
| 45 | 7.450 | 1610 | 1.688 | 1.000 | 3.000 | E | 3.50 |
| 48 | 7.930 | 1610 | 1.688 | 1.000 | 3.000 | E | 4.10 |
| 54 | 8.880 | 1610 | 1.688 | 1.000 | 3.000 | E | 4.90 |
| 60 | 9.840 | 1610 | 1.688 | 1.000 | 3.000 | E | 5.70 |
| 70 | 11.430 | 1610 | 1.688 | 1.000 | 3.000 | E | 7.40 |
| 72 | 11.750 | 1610 | 1.688 | 1.000 | 3.000 | E | 8.20 |
| 80 | 13.030 | 1610 | 1.688 | 1.000 | 3.000 | E | 9.60 |
| 96 | 15.570 | 1610 | 1.688 | 1.000 | 3.000 | E | 13.10 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.

□ Has recessed groove in hub for chain clearance



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 41 1/2" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 41 |
| Pitch | 1/2" |
| Inside Width | 1/4" |
| Roller Diameter | 0.306" |
| Nominal Tooth Width: | 0.227" |

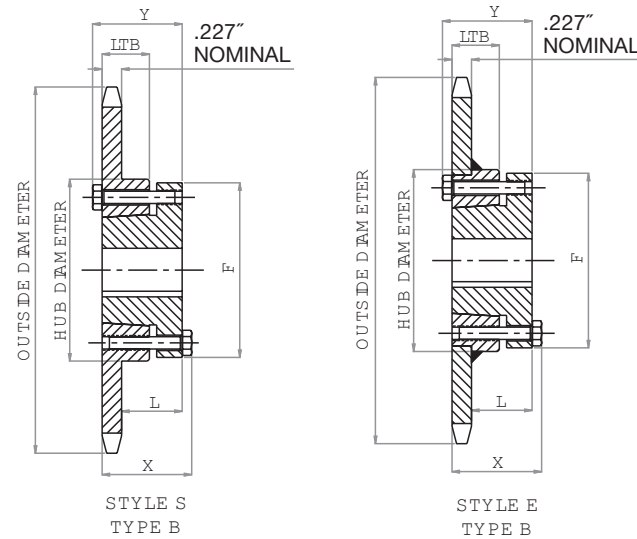
How to Order Code: Example Model # for 41 Pitch QD® Carbon Steel Sprockets

| | | | | | | |
|------------------------|-----------------------|-------------------------------------|-----------------|----|-----|----|
| A | 41 | JA | 19 | | | |
| Altered ¹⁾ | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | |
| A: Alteration Required | 41: 1/2" Pitch | JA: QD® Hub 15 - 19 tooth sprocket | 15 | 17 | 19 | |
| | | | 16 | 18 | | |
| | | | 20 | 23 | 26 | 30 |
| | | SH: QD® Hub 20 - 35 tooth sprocket | 21 | 24 | 27 | 32 |
| | | | 22 | 25 | 28 | 35 |
| | | | 36 | 42 | 48 | 60 |
| | | SDS: QD® Hub 36 - 60 tooth sprocket | 40 | 45 | 54 | |
| | | | 70 | 80 | 96 | |
| | | SK: QD® Hub 70 - 112 tooth sprocket | 72 | 84 | 112 | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| JA | 0.500 - 1.250" |
| SH | 0.500 - 1.688" |
| SDS | 0.500 - 2.000" |
| SK | 0.500 - 2.625" |



No. 41

QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

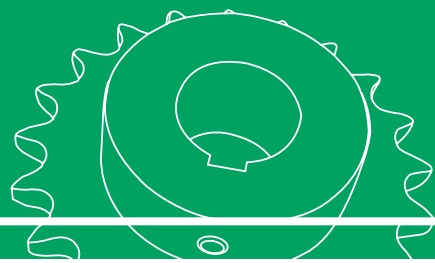
All dimensions in inches unless noted.

| No. 41 QD® Sprockets Dia. | | | Dimensional Data | | | | | | | | |
|---------------------------|------------------|-----------|------------------|--------------|-------|-------|-------|-------|-------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore* | Hub Diameter | LTB | X | Y | L | F | Hub Style | Weight Lbs. |
| 15 | 2.650 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.766 | 2.063 | S | 0.32 |
| 16 | 2.810 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.766 | 2.063 | S | 0.40 |
| 17 | 2.970 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.766 | 2.063 | S | 0.50 |
| 18 | 3.140 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.766 | 2.063 | S | 0.60 |
| 19 | 3.300 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.766 | 2.063 | S | 0.68 |
| 20 | 3.460 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 0.78 |
| 21 | 3.620 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 0.82 |
| 22 | 3.780 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.06 |
| 23 | 3.940 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.14 |
| 24 | 4.100 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.16 |
| 25 | 4.200 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.22 |
| 26 | 4.420 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.26 |
| 27 | 4.580 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.40 |
| 28 | 4.740 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.54 |
| 30 | 5.060 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.58 |
| 32 | 5.380 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 1.68 |
| 35 | 5.860 | SH | 1.688 | 2.688 | 0.813 | 1.438 | 1.438 | 1.031 | 2.688 | S | 2.47 |
| 36 | 6.020 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 1.094 | 3.188 | E | 1.92 |
| 40 | 6.650 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 1.094 | 3.188 | E | 2.32 |
| 42 | 6.970 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 1.094 | 3.188 | E | 2.44 |
| 45 | 7.450 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 1.094 | 3.188 | E | 2.76 |
| 48 | 7.930 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 1.094 | 3.188 | E | 3.36 |
| 54 | 8.880 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 1.094 | 3.188 | E | 3.98 |
| 60 | 9.840 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 1.094 | 3.188 | E | 5.54 |
| 70 | 11.430 | SK | 2.625 | 3.875 | 1.250 | 2.125 | 2.125 | 1.641 | 3.875 | E | 7.42 |
| 72 | 11.750 | SK | 2.625 | 3.875 | 1.250 | 2.125 | 2.125 | 1.641 | 3.875 | E | 8.02 |
| 80 | 13.030 | SK | 2.625 | 3.875 | 1.250 | 2.125 | 2.125 | 1.641 | 3.875 | E | 9.64 |
| 84 | 13.660 | SK | 2.625 | 3.875 | 1.250 | 2.125 | 2.125 | 1.641 | 3.875 | E | 10.40 |
| 96 | 15.570 | SK | 2.625 | 3.875 | 1.250 | 2.125 | 2.125 | 1.641 | 3.875 | E | 12.82 |
| 112 | 18.120 | SK | 2.625 | 3.875 | 1.250 | 2.125 | 2.125 | 1.641 | 3.875 | E | 17.28 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 40 1/2" Pitch: STAINLESS STEEL PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 40SS |
| Pitch | 1/2" |
| Inside Width | 5/16" |
| Roller Diameter | 0.312" |
| Nominal Tooth Width: | 0.284" |

How to Order Code: Example Model # for 40 Pitch Plain Bore Stainless Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|-----------|----|----|--------------------------------------|----|
| A | 40 | B | 25 | SS | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | Material | | | | |
| A: Alteration Required | 40: 1/2" Pitch | A: No Hub Extension | 24 | 28 | 35 | 45 | SS: 304 Stainless Steel Construction | |
| | | | 26 | 30 | 40 | 60 | | |
| | | B: Hub Extension One Side | 10 | 15 | 20 | 25 | | 40 |
| | | | 11 | 16 | 21 | 26 | | 45 |
| | | | 12 | 17 | 22 | 28 | | 60 |
| | | | 13 | 18 | 23 | 30 | | |
| | | | 14 | 19 | 24 | 35 | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 40

STAINLESS STEEL SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

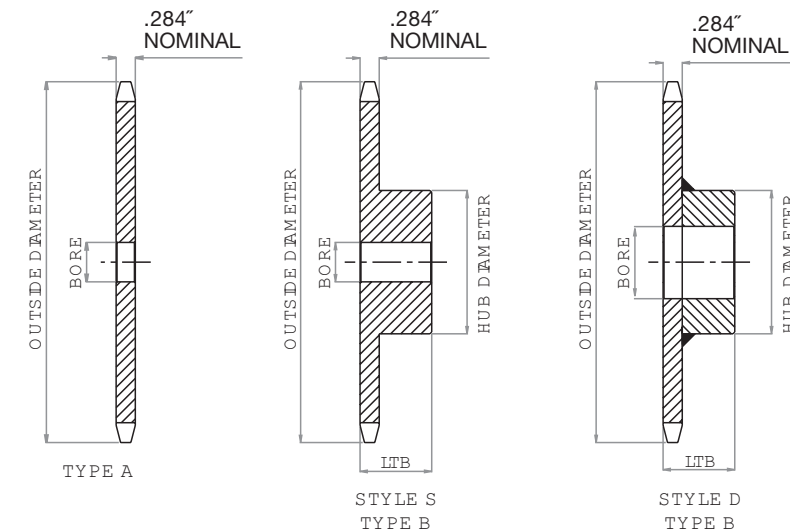
All dimensions in inches unless noted.

| No. 40 Stainless Steel Sprocket Diameters | | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | |
|---|------------------|----------------|------------------|---------------------|----------|---------------------|------------|----------|-------|-----------|----------|
| No. Teeth | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Style | Wt. Lbs. |
| 10 | 1.840 | 1.618 | 1.305 | N/A | N/A | 0.500 | 0.750 | 1.250 □ | 0.875 | S | 0.28 |
| 11 | 2.000 | 1.775 | 1.444 | N/A | N/A | 0.500 | 0.813 | 1.375 □ | 0.875 | S | 0.36 |
| 12 | 2.170 | 1.932 | 1.620 | N/A | N/A | 0.500 | 0.938 | 1.563 □ | 0.875 | S | 0.44 |
| 13 | 2.330 | 2.089 | 1.761 | N/A | N/A | 0.500 | 1.063 | 1.563 | 0.875 | S | 0.50 |
| 14 | 2.490 | 2.247 | 1.934 | N/A | N/A | 0.500 | 1.125 | 1.688 | 0.875 | S | 0.60 |
| 15 | 2.650 | 2.405 | 2.079 | N/A | N/A | 0.500 | 1.250 | 1.813 | 0.875 | S | 0.68 |
| 16 | 2.810 | 2.563 | 2.250 | N/A | N/A | 0.625 | 1.375 | 2.000 | 0.875 | S | 0.82 |
| 17 | 2.980 | 2.721 | 2.397 | N/A | N/A | 0.625 | 1.438 | 2.125 | 1.000 | S | 1.06 |
| 18 | 3.140 | 2.879 | 2.567 | N/A | N/A | 0.625 | 1.500 | 2.313 | 1.000 | S | 1.24 |
| 19 | 3.300 | 3.038 | 2.715 | N/A | N/A | 0.625 | 1.750 | 2.500 | 1.000 | S | 1.42 |
| 20 | 3.460 | 3.196 | 2.883 | N/A | N/A | 0.625 | 1.875 | 2.625 | 1.000 | S | 1.60 |
| 21 | 3.620 | 3.355 | 3.033 | N/A | N/A | 0.625 | 1.875 | 2.750 | 1.000 | S | 1.68 |
| 22 | 3.780 | 3.513 | 3.201 | N/A | N/A | 0.625 | 1.875 | 2.875 | 1.000 | S | 1.81 |
| 23 | 3.940 | 3.672 | 3.351 | N/A | N/A | 0.625 | 2.000 | 3.000 | 1.000 | S | 2.18 |
| 24 | 4.100 | 3.831 | 3.518 | 0.594 | 0.80 | 0.625 | 2.250 | 3.250 | 1.000 | D | 2.20 |
| 25 | 4.260 | 3.989 | 3.669 | N/A | N/A | 0.625 | 2.250 | 3.250 | 1.000 | D | 2.39 |
| 26 | 4.420 | 4.148 | 3.835 | 0.594 | 1.31 | 0.625 | 2.250 | 3.250 | 1.000 | D | 2.40 |
| 28 | 4.740 | 4.465 | 4.153 | 0.594 | 1.35 | 0.625 | 2.250 | 3.250 | 1.000 | D | 2.75 |
| 30 | 5.060 | 4.783 | 4.471 | 0.594 | 1.39 | 0.625 | 2.250 | 3.250 | 1.000 | D | 2.88 |
| 35 | 5.860 | 5.578 | 5.260 | 0.594 | 1.92 | 0.625 | 2.250 | 3.250 | 1.000 | D | 3.32 |
| 40 | 6.650 | 6.373 | 6.061 | 0.719 | 2.36 | 0.750 | 2.375 | 3.500 | 1.000 | D | 4.28 |
| 45 | 7.450 | 7.168 | 6.851 | 0.719 | 3.13 | 0.750 | 2.375 | 3.500 | 1.000 | D | 4.68 |
| 60 | 9.840 | 9.554 | 9.241 | 0.719 | 5.50 | 0.750 | 2.375 | 3.500 | 1.000 | D | 7.00 |

* Dimension depicted allows for standard keyway with set screw at 90 degrees

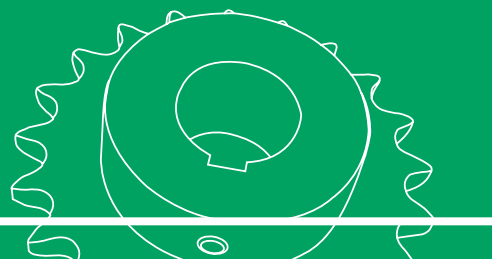
□ Has recessed groove in hub for chain clearance

N/A = Not Available



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



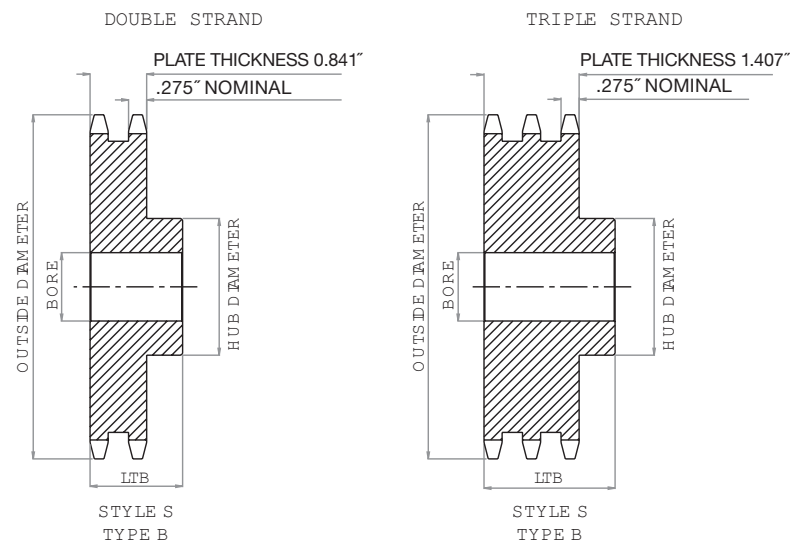
No. 40 1/2" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|------------|
| Size | 40-2, 40-3 |
| Pitch | 1/2" |
| Inside Width | 5/16" |
| Roller Diameter | 0.312" |
| Nominal Tooth Width: | 0.275" |

How to Order Code: Example Model # for 40 Pitch Multi-Strand Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|------------------|-----------------------|---------------------------|----------------------|----|----|----|----|
| A | D | 40 | B | 18 | | | | |
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 40: 1/2" Pitch | B: Hub Extension One Side | Double Strand | | | | |
| | | | | 11 | 17 | 23 | 36 | 54 |
| | | | | 12 | 18 | 24 | 40 | 60 |
| | | | | 13 | 19 | 25 | 42 | |
| | | | | 14 | 20 | 26 | 45 | |
| | | | | 15 | 21 | 30 | 48 | |
| | T: Triple Strand | Triple Strand | | | | | | |
| | | 11 | 15 | 19 | 23 | 30 | | |
| | | 12 | 16 | 20 | 24 | 35 | | |
| | | 13 | 17 | 21 | 25 | 36 | | |
| 14 | 18 | 22 | 26 | | | | | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 40

MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 40 Multi Strand Sprocket Dia. | | | Dimensional Data: Double Strand Sprockets | | | | |
|-----------------------------------|--------------|------------|---|-------|------------|-----------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | Hub Diameter | LTB | MAX Bore + | Hub Style | Weight Lbs. |
| 11 | 2.003 | 0.500 | 1.438 □ | 1.500 | 0.750 | S | 0.62 |
| 12 | 2.166 | 0.500 | 1.563 □ | 1.500 | 0.938 | S | 0.76 |
| 13 | 2.328 | 0.500 | 1.500 | 1.500 | 1.000 | S | 0.86 |
| 14 | 2.490 | 0.500 | 1.688 | 1.500 | 1.125 | S | 1.08 |
| 15 | 2.652 | 0.500 | 1.813 | 1.500 | 1.250 | S | 1.24 |
| 16 | 2.814 | 0.625 | 2.000 | 1.500 | 1.375 | S | 1.42 |
| 17 | 2.974 | 0.625 | 2.125 | 1.500 | 1.438 | S | 1.64 |
| 18 | 3.136 | 0.625 | 2.313 | 1.500 | 1.500 | S | 1.92 |
| 19 | 3.292 | 0.625 | 2.500 | 1.500 | 1.750 | S | 2.22 |
| 20 | 3.457 | 0.625 | 2.625 | 1.625 | 1.875 | S | 2.64 |
| 21 | 3.618 | 0.625 | 2.750 | 1.625 | 1.875 | S | 2.94 |
| 22 | 3.778 | 0.625 | 2.875 | 1.625 | 1.875 | S | 3.18 |
| 23 | 3.938 | 0.625 | 3.000 | 1.625 | 2.000 | S | 3.52 |
| 24 | 4.098 | 0.625 | 3.250 | 1.625 | 2.250 | S | 4.04 |
| 25 | 4.258 | 0.625 | 3.250 | 1.625 | 2.250 | S | 4.26 |
| 26 | 4.418 | 0.625 | 3.250 | 1.625 | 2.250 | S | 4.48 |
| 30 | 5.057 | 0.875 | 3.250 | 1.625 | 2.250 | S | 5.34 |
| 35 | 5.856 | 0.875 | 3.250 | 1.625 | 2.250 | S | 6.80 |
| 36 | 6.015 | 0.938 | 3.750 | 1.625 | 2.500 | S | 7.20 |
| 40 | 6.653 | 0.938 | 3.750 | 1.750 | 2.500 | S | 9.40 |
| 42 | 6.972 | 0.938 | 3.750 | 1.750 | 2.500 | S | 10.20 |
| 45 | 7.450 | 0.938 | 3.750 | 1.750 | 2.500 | S | 11.36 |
| 48 | 7.930 | 0.938 | 3.750 | 1.750 | 2.500 | S | 12.66 |
| 52 | 8.570 | 0.938 | 3.750 | 1.750 | 2.500 | S | 14.46 |
| 54 | 8.890 | 0.938 | 3.750 | 1.750 | 2.500 | S | 15.48 |
| 60 | 9.840 | 0.938 | 3.750 | 1.750 | 2.500 | S | 18.60 |

+ Dimension depicted allows for standard keyway with set screw at 90 degrees
 □ Has recessed groove in hub for chain clearance

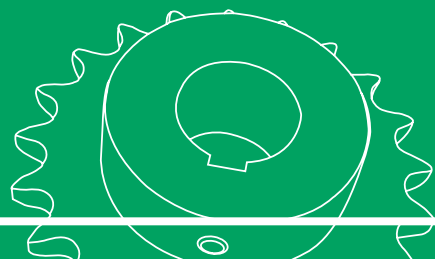
All dimensions in inches unless noted.

| No. 40 Multi Strand Sprocket Dia. | | | Dimensional Data: Triple Strand Sprockets | | | | |
|-----------------------------------|--------------|------------|---|-------|------------|-----------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | Hub Diameter | LTB | MAX Bore + | Hub Style | Weight Lbs. |
| 11 | 2.003 | 0.500 | 1.438 □ | 2.125 | 0.750 | S | 0.80 |
| 12 | 2.166 | 0.500 | 1.563 □ | 2.125 | 0.938 | S | 1.10 |
| 13 | 2.328 | 0.500 | 1.500 | 2.125 | 1.000 | S | 1.24 |
| 14 | 2.490 | 0.500 | 1.688 | 2.125 | 1.125 | S | 1.50 |
| 15 | 2.652 | 0.500 | 1.813 | 2.125 | 1.250 | S | 1.76 |
| 16 | 2.814 | 0.625 | 2.000 | 2.125 | 1.375 | S | 2.04 |
| 17 | 2.974 | 0.625 | 2.125 | 2.125 | 1.438 | S | 2.34 |
| 18 | 3.136 | 0.625 | 2.313 | 2.125 | 1.500 | S | 2.72 |
| 19 | 3.292 | 0.625 | 2.500 | 2.125 | 1.750 | S | 3.10 |
| 20 | 3.457 | 0.625 | 2.625 | 2.250 | 1.875 | S | 3.72 |
| 21 | 3.618 | 0.625 | 2.750 | 2.250 | 1.875 | S | 4.06 |
| 22 | 3.778 | 0.625 | 2.875 | 2.250 | 1.875 | S | 4.52 |
| 23 | 3.938 | 0.625 | 3.000 | 2.250 | 2.000 | S | 4.96 |
| 24 | 4.098 | 0.625 | 3.250 | 2.250 | 2.250 | S | 5.64 |
| 25 | 4.258 | 0.625 | 3.250 | 2.250 | 2.250 | S | 6.02 |
| 26 | 4.418 | 0.625 | 3.250 | 2.250 | 2.250 | S | 6.36 |
| 30 | 5.057 | 0.875 | 3.250 | 2.250 | 2.250 | S | 7.84 |
| 35 | 5.856 | 0.875 | 3.250 | 2.250 | 2.250 | S | 10.30 |
| 36 | 6.015 | 0.938 | 3.750 | 2.375 | 2.500 | S | 11.72 |

+ Dimension depicted allows for standard keyway with set screw at 90 degrees
 □ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 40 1/2" Pitch: DOUBLE SINGLE

| Chain Data | |
|----------------------|--------|
| Size | 40 |
| Pitch | 1/2" |
| Inside Width | 5/16" |
| Roller Diameter | 0.312" |
| Nominal Tooth Width: | 0.284" |

How to Order Code: Example Model # for 40 Pitch Double Single Carbon Steel Sprockets

| | | | | |
|-------------------------------|--------------------------|-----------------------|----------------------------|-------------------------------------|
| A | DS | 40 | A | 18 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth |
| A: Alteration Required | DS: Double Single | 40: 1/2" Pitch | A: No Hub Extension | 15 18 21 24 16 19 22 17 20 23 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

How to Order Code: Example Model # for 40 Pitch Double Single TAPER-LOCK® Carbon Steel Sprockets

| | | | | | |
|-------------------------------|--------------------------|-----------------------|----------------------------|---------------------------------|-------------------|
| A | DS | 40 | A | TL | 21 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth |
| A: Alteration Required | DS: Double Single | 40: 1/2" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | 19 21 24 20 23 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1215 | 0.500 - 1.250" |
| 1615 | 0.500 - 1.688" |

No. 40

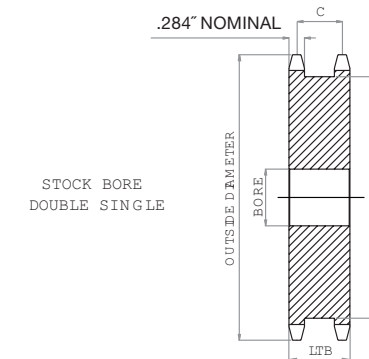
DOUBLE SINGLE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 40 Double Single Sprocket Dia. | | | Dimensional Data | | | | |
|------------------------------------|--------------|------------|------------------|-------|-------|------------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | LTB | C | D | MAX Bore + | Weight Lbs. |
| 15 | 2.650 | 0.500 | 1.406 | 1.125 | 1.813 | 1.250 | 1.20 |
| 16 | 2.810 | 0.500 | 1.406 | 1.125 | 2.000 | 1.250 | 1.40 |
| 17 | 2.980 | 0.500 | 1.406 | 1.125 | 2.125 | 1.313 | 1.60 |
| 18 | 3.140 | 0.500 | 1.406 | 1.125 | 2.313 | 1.500 | 1.80 |
| 19 | 3.300 | 0.625 | 1.406 | 1.125 | 2.500 | 1.688 | 2.20 |
| 20 | 3.460 | 0.625 | 1.406 | 1.125 | 2.625 | 1.750 | 2.60 |
| 21 | 3.620 | 0.625 | 1.406 | 1.125 | 2.781 | 1.750 | 2.90 |
| 22 | 3.780 | 0.625 | 1.406 | 1.125 | 2.938 | 1.938 | 3.00 |
| 23 | 3.940 | 0.625 | 1.406 | 1.125 | 3.094 | 2.063 | 3.50 |
| 24 | 4.100 | 0.625 | 1.406 | 1.125 | 3.266 | 2.250 | 4.00 |

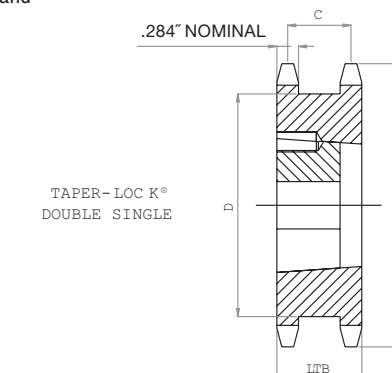
+ Dimension depicted allows for standard keyway with set screw at 90 degrees



All dimensions in inches unless noted.

| No. 40 Double Single TAPER-LOCK® Sprocket Diameters | | | Dimensional Data | | | | |
|---|--------------|------------|------------------|-------|-----------|-----------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | LTB | C | Bushing # | MAX Bore* | Weight Lbs. |
| 19 | 3.300 | 0.500 | 1.406 | 1.125 | 1215 | 1.250 | 1.10 |
| 20 | 3.460 | 0.500 | 1.406 | 1.125 | 1215 | 1.250 | 1.30 |
| 21 | 3.620 | 0.500 | 1.406 | 1.125 | 1615 | 1.688 | 1.30 |
| 23 | 3.940 | 0.500 | 1.406 | 1.125 | 1615 | 1.688 | 1.50 |
| 24 | 4.100 | 0.500 | 1.406 | 1.125 | 1615 | 1.688 | 1.70 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 40 1/2" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 40 |
| Pitch | 1/2" |
| Inside Width | 5/16" |
| Roller Diameter | 0.312" |
| Nominal Tooth Width: | 0.284" |

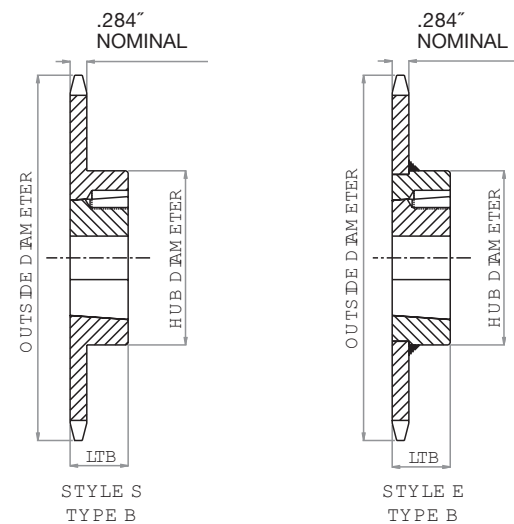
How to Order Code: Example Model # for 40 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|---------------------------------|-----------------|----|----|----|----|
| A | 40 | B | TL | 42 | | | | |
| Altered ¹ | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | 40: 1/2" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | 14 | 20 | 26 | 40 | 70 |
| | | | | 15 | 21 | 28 | 42 | 72 |
| | | | | 16 | 22 | 30 | 45 | 80 |
| | | | | 17 | 23 | 32 | 48 | 84 |
| | | | | 18 | 24 | 35 | 54 | 96 |
| | | | | 19 | 25 | 36 | 60 | |

¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1008 | 0.500 - 1.000" |
| 1210 | 0.500 - 1.250" |
| 1610 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |



No. 40

TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

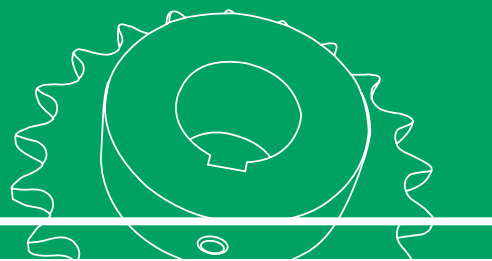
| No. 40 TAPER-LOCK® Sprockets Dia. | | | Dimensional Data TAPER-LOCK® Sprockets | | | | |
|-----------------------------------|------------------|-----------|--|-------|--------------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore* | LTB | Hub Diameter | Hub Style | Weight Lbs. |
| 14 | 2.491 | 1008 | 1.000 | 0.875 | 1.813 □ | S | 0.30 |
| 15 | 2.652 | 1008 | 1.000 | 0.875 | 1.813 | S | 0.40 |
| 16 | 2.814 | 1008 | 1.000 | 0.875 | 1.938 | S | 0.50 |
| 17 | 2.975 | 1210 | 1.250 | 1.000 | 2.375 □ | S | 0.50 |
| 18 | 3.135 | 1210 | 1.250 | 1.000 | 2.469 □ | S | 0.60 |
| 19 | 3.296 | 1210 | 1.250 | 1.000 | 2.469 | S | 0.70 |
| 20 | 3.457 | 1610 | 1.688 | 1.000 | 2.781 □ | S | 0.70 |
| 21 | 3.617 | 1610 | 1.688 | 1.000 | 2.781 | S | 0.80 |
| 22 | 3.778 | 1610 | 1.688 | 1.000 | 2.781 | S | 0.90 |
| 23 | 3.938 | 1610 | 1.688 | 1.000 | 3.094 | S | 1.00 |
| 24 | 4.098 | 1610 | 1.688 | 1.000 | 3.250 | S | 1.40 |
| 25 | 4.258 | 1610 | 1.688 | 1.000 | 3.406 | S | 1.50 |
| 26 | 4.418 | 1610 | 1.688 | 1.000 | 3.500 | S | 1.70 |
| 28 | 4.738 | 1610 | 1.688 | 1.000 | 3.500 | E | 1.80 |
| 30 | 5.057 | 1610 | 1.688 | 1.000 | 3.500 | E | 1.90 |
| 32 | 5.377 | 1610 | 1.688 | 1.000 | 3.500 | E | 1.90 |
| 35 | 5.855 | 1610 | 1.688 | 1.000 | 3.500 | E | 2.30 |
| 36 | 6.015 | 1610 | 1.688 | 1.000 | 3.000 | E | 2.40 |
| 40 | 6.653 | 1610 | 1.688 | 1.000 | 3.000 | E | 2.80 |
| 42 | 6.970 | 1610 | 1.688 | 1.000 | 3.000 | E | 2.90 |
| 45 | 7.450 | 1610 | 1.688 | 1.000 | 3.000 | E | 3.50 |
| 48 | 7.928 | 1610 | 1.688 | 1.000 | 3.000 | E | 4.00 |
| 54 | 8.885 | 1610 | 1.688 | 1.000 | 3.000 | E | 4.90 |
| 60 | 9.841 | 1610 | 1.688 | 1.000 | 3.000 | E | 6.00 |
| 70 | 11.434 | 2012 | 2.125 | 1.250 | 3.563 | E | 8.20 |
| 72 | 11.752 | 2012 | 2.125 | 1.250 | 3.563 | E | 9.00 |
| 80 | 13.026 | 2012 | 2.125 | 1.250 | 3.563 | E | 10.80 |
| 84 | 13.663 | 2012 | 2.125 | 1.250 | 3.563 | E | 11.30 |
| 96 | 15.573 | 2012 | 2.125 | 1.250 | 3.563 | E | 14.60 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.

□ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 40 1/2" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 40 |
| Pitch | 1/2" |
| Inside Width | 5/16" |
| Roller Diameter | 0.312" |
| Nominal Tooth Width: | 0.284" |

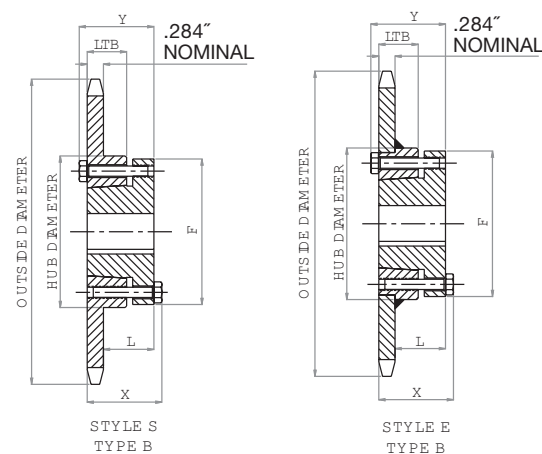
How to Order Code: Example Model # for 40 Pitch QD® Carbon Steel Sprockets

| | | | | | | |
|------------------------|-----------------------|-------------------------------------|-----------------|----|-----|----|
| A | 40 | JA | 19 | | | |
| Altered ¹⁾ | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | |
| A: Alteration Required | 40: 1/2" Pitch | JA: QD® Hub 15 - 19 tooth sprocket | 15 | 17 | 19 | |
| | | | 16 | 18 | | |
| | | SH: QD® Hub 20 - 35 tooth sprocket | 20 | 23 | 26 | 30 |
| | | | 21 | 24 | 27 | 32 |
| | | | 22 | 25 | 28 | 35 |
| | | | 36 | 42 | 48 | 60 |
| | | SDS: QD® Hub 36 - 60 tooth sprocket | 40 | 45 | 54 | |
| | | | 70 | 80 | 96 | |
| | | SK: QD® Hub 70 - 112 tooth sprocket | 72 | 84 | 112 | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| JA | 0.500 - 1.250" |
| SH | 0.500 - 1.688" |
| SDS | 0.500 - 2.000" |
| SK | 0.500 - 2.625" |



No. 40

QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

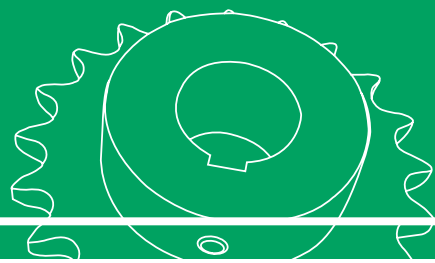
| No. 40 QD® Sprockets Dia. | | | Dimensional Data | | | | | | | | |
|---------------------------|------------------|-----------|------------------|--------------|-------|-------|-------|-------|-------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore* | Hub Diameter | LTB | X | Y | L | F | Hub Style | Weight Lbs. |
| 15 | 2.650 | JA | 1.250 | 2.063 □ | 0.625 | 1.125 | 1.125 | 0.719 | 2.063 | S | 0.34 |
| 16 | 2.810 | JA | 1.250 | 2.063 □ | 0.625 | 1.125 | 1.125 | 0.719 | 2.063 | S | 0.40 |
| 17 | 2.980 | JA | 1.250 | 2.188 □ | 0.625 | 1.125 | 1.125 | 0.719 | 2.063 | S | 0.48 |
| 18 | 3.140 | JA | 1.250 | 2.250 □ | 0.625 | 1.125 | 1.125 | 0.719 | 2.063 | S | 0.54 |
| 19 | 3.300 | JA | 1.250 | 2.250 □ | 0.625 | 1.125 | 1.125 | 0.719 | 2.063 | S | 0.60 |
| 20 | 3.460 | SH | 1.688 | 2.750 □ | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 0.76 |
| 21 | 3.620 | SH | 1.688 | 2.750 □ | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 0.84 |
| 22 | 3.780 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 0.92 |
| 23 | 3.940 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.14 |
| 24 | 4.100 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.22 |
| 25 | 4.260 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.30 |
| 26 | 4.420 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.44 |
| 27 | 4.580 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.46 |
| 28 | 4.740 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.54 |
| 30 | 5.060 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.72 |
| 32 | 5.360 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 2.688 | S | 1.90 |
| 35 | 5.860 | SH | 1.688 | 3.000 | 0.813 | 1.438 | 1.438 | 0.969 | 3.000 | S | 2.22 |
| 36 | 6.020 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 1.032 | 3.188 | E | 2.20 |
| 40 | 6.660 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 1.032 | 3.188 | E | 2.72 |
| 42 | 6.970 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 1.032 | 3.188 | E | 2.92 |
| 45 | 7.450 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 1.032 | 3.188 | E | 3.32 |
| 48 | 7.930 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 1.032 | 3.188 | E | 3.70 |
| 54 | 8.890 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 1.032 | 3.188 | E | 4.78 |
| 60 | 9.840 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 1.032 | 3.188 | E | 5.86 |
| 70 | 11.430 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.594 | 3.875 | E | 8.68 |
| 72 | 11.750 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.594 | 3.875 | E | 8.84 |
| 80 | 13.030 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.594 | 3.875 | E | 11.20 |
| 84 | 13.660 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.594 | 3.875 | E | 11.56 |
| 96 | 15.570 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.594 | 3.875 | E | 15.76 |
| 112 | 18.120 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.594 | 3.875 | E | 20.28 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.

□ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 40 1/2" Pitch: MULTI-STRAND TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 40 - 2 |
| Pitch | 1/2" |
| Inside Width | 5/16" |
| Roller Diameter | 0.312" |
| Nominal Tooth Width: | 0.275" |

How to Order Code: Example Model # for 40 Pitch Multi-Strand TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|------------------|-----------------------|-----------------------------|---------------------------------|-----------------|----|----|----|
| A | D | 40 | C | TL | 42 | | | |
| Altered ^{!!} | Multi-Strand | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | |
| A: Alteration Required | D: Double Strand | 40: 1/2" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | A Style | | | |
| | | | B: Hub Extension One Side | | 15 | 16 | 17 | |
| | | | | | B Style | | | |
| | | | | | 18 | 20 | 23 | 30 |
| | | | C: Hub Extension Both Sides | | C Style | | | |
| 42 | 52 | 84 | | | | | | |
| | | | | | 48 | 60 | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1008 | 0.500 - 1.000" |
| 1210 | 0.500 - 1.250" |
| 1610 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |

No. 40

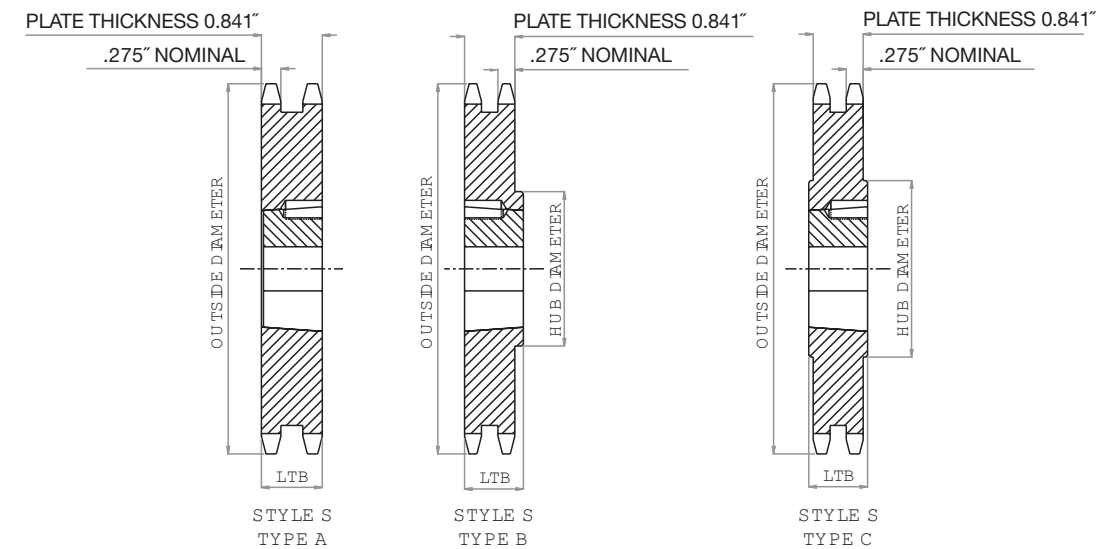
MULTI-STRAND TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

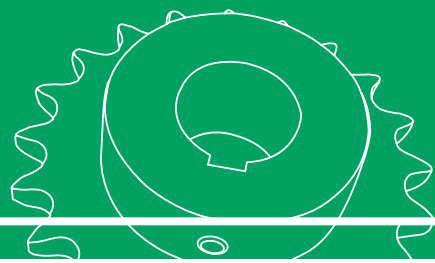
| Double Strand No. 40 TAPER-LOCK® Sprockets | | | Dimensional Data | | | | | |
|--|------------------|-----------|------------------|-------|--------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore* | LTB | Hub Diameter | Hub Type | Hub Style | Weight Lbs. |
| 15 | 2.652 | 1008 | 1.000 | 0.875 | 1.266 | A | S | 0.50 |
| 16 | 2.814 | 1008 | 1.000 | 0.875 | 1.266 | A | S | 0.60 |
| 17 | 2.975 | 1008 | 1.000 | 0.875 | 1.266 | A | S | 0.70 |
| 18 | 3.135 | 1210 | 1.250 | 1.000 | 2.313 | B | S | 0.70 |
| 19 | 3.296 | 1210 | 1.250 | 1.000 | 2.500 | B | S | 0.90 |
| 20 | 3.457 | 1610 | 1.688 | 1.000 | 2.625 | B | S | 0.90 |
| 21 | 3.617 | 1610 | 1.688 | 1.000 | 2.750 | B | S | 1.00 |
| 23 | 3.938 | 1610 | 1.688 | 1.000 | 3.000 | B | S | 1.30 |
| 25 | 4.258 | 2012 | 2.125 | 1.250 | 3.406 | B | S | 1.60 |
| 30 | 5.057 | 2012 | 2.125 | 1.250 | 4.234 | B | S | 3.40 |
| 36 | 6.015 | 2012 | 2.125 | 1.250 | 5.156 | B | S | 5.90 |
| 42 | 6.972 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 7.00 |
| 48 | 7.928 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 9.60 |
| 52 | 8.566 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 11.40 |
| 60 | 9.841 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 15.40 |
| 84 | 13.663 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 31.60 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 50 5/8" Pitch: STAINLESS STEEL PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 50SS |
| Pitch | 5/8" |
| Inside Width | 3/8" |
| Roller Diameter | 0.400" |
| Nominal Tooth Width: | 0.343" |

How to Order Code: Example Model # for 50 Pitch Plain Bore Stainless Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|----|--------------------------------------|
| A | 50 | B | 25 | | | | | SS |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | Material |
| A: Alteration Required | 50: 5/8" Pitch | B: Hub Extension One Side | 10 | 15 | 20 | 25 | 40 | SS: 304 Stainless Steel Construction |
| | | | 11 | 16 | 21 | 26 | 45 | |
| | | | 12 | 17 | 22 | 28 | 60 | |
| | | | 13 | 18 | 23 | 30 | | |
| | | | 14 | 19 | 24 | 35 | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 50

STAINLESS STEEL SPROCKET DIMENSIONS

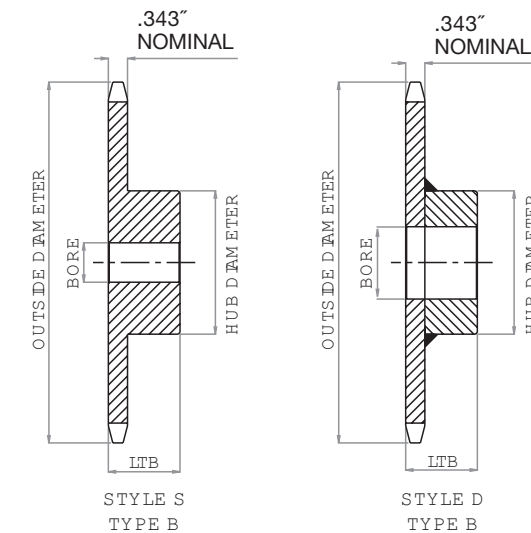
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 50 Stainless Steel Sprocket Diameters | | | | Type "B" Plain Bore | | | | | |
|---|------------------|----------------|------------------|---------------------|------------|--------------|-------|-----------|----------|
| No. Teeth | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | MAX Bore * | Hub Diameter | LTB | Hub Style | Wt. Lbs. |
| 10 | 2.300 | 2.023 | 1.623 | 0.625 | 0.875 | 1.563 □ | 1.000 | S | 0.50 |
| 11 | 2.500 | 2.219 | 1.796 | 0.625 | 1.000 | 1.750 □ | 1.000 | S | 0.60 |
| 12 | 2.710 | 2.415 | 2.015 | 0.625 | 1.250 | 1.984 □ | 1.000 | S | 0.70 |
| 13 | 2.910 | 2.612 | 2.193 | 0.625 | 1.313 | 1.875 | 1.000 | S | 0.80 |
| 14 | 3.110 | 2.809 | 2.409 | 0.625 | 1.438 | 2.125 | 1.000 | S | 1.00 |
| 15 | 3.320 | 3.006 | 2.590 | 0.625 | 1.500 | 2.375 | 1.000 | S | 1.30 |
| 16 | 3.520 | 3.204 | 2.804 | 0.625 | 1.750 | 2.500 | 1.000 | S | 1.50 |
| 17 | 3.720 | 3.401 | 2.987 | 0.625 | 1.875 | 2.688 | 1.000 | S | 1.80 |
| 18 | 3.920 | 3.599 | 3.199 | 0.625 | 1.875 | 2.875 | 1.000 | S | 2.00 |
| 19 | 4.120 | 3.798 | 3.384 | 0.625 | 1.750 | 2.500 | 1.000 | S | 2.30 |
| 20 | 4.320 | 3.995 | 3.595 | 0.750 | 1.750 | 2.500 | 1.000 | S | 2.50 |
| 21 | 4.520 | 4.194 | 3.782 | 0.750 | 2.000 | 3.000 | 1.000 | D | 2.70 |
| 22 | 4.720 | 4.392 | 3.992 | 0.750 | 2.000 | 3.000 | 1.000 | D | 3.30 |
| 23 | 4.920 | 4.590 | 4.179 | 0.750 | 2.000 | 3.000 | 1.000 | D | 3.80 |
| 24 | 5.120 | 4.788 | 4.388 | 0.750 | 2.000 | 3.000 | 1.250 | D | 4.10 |
| 25 | 5.320 | 4.987 | 4.577 | 0.750 | 2.000 | 3.000 | 1.250 | D | 4.30 |
| 26 | 5.520 | 5.185 | 4.785 | 0.750 | 2.000 | 3.000 | 1.250 | D | 4.60 |
| 28 | 5.920 | 5.582 | 5.182 | 0.750 | 2.000 | 3.000 | 1.250 | D | 5.00 |
| 30 | 6.320 | 5.979 | 5.579 | 0.750 | 2.250 | 3.250 | 1.250 | D | 5.20 |
| 35 | 7.320 | 6.973 | 6.565 | 0.750 | 2.250 | 3.250 | 1.250 | D | 6.50 |
| 40 | 8.320 | 7.966 | 7.566 | 0.750 | 2.250 | 3.250 | 1.250 | D | 7.80 |
| 45 | 9.310 | 8.960 | 8.554 | 0.750 | 2.500 | 3.750 | 1.250 | D | 8.50 |
| 60 | 12.300 | 11.942 | 11.542 | 1.000 | 2.500 | 3.750 | 1.250 | D | 14.00 |

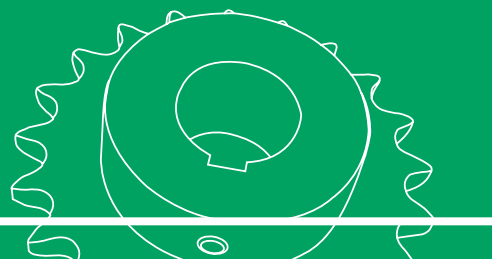
* Dimensions shown allow for standard keyway with set screw at 90 degrees

□ Has recessed groove in hub for chain clearance



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



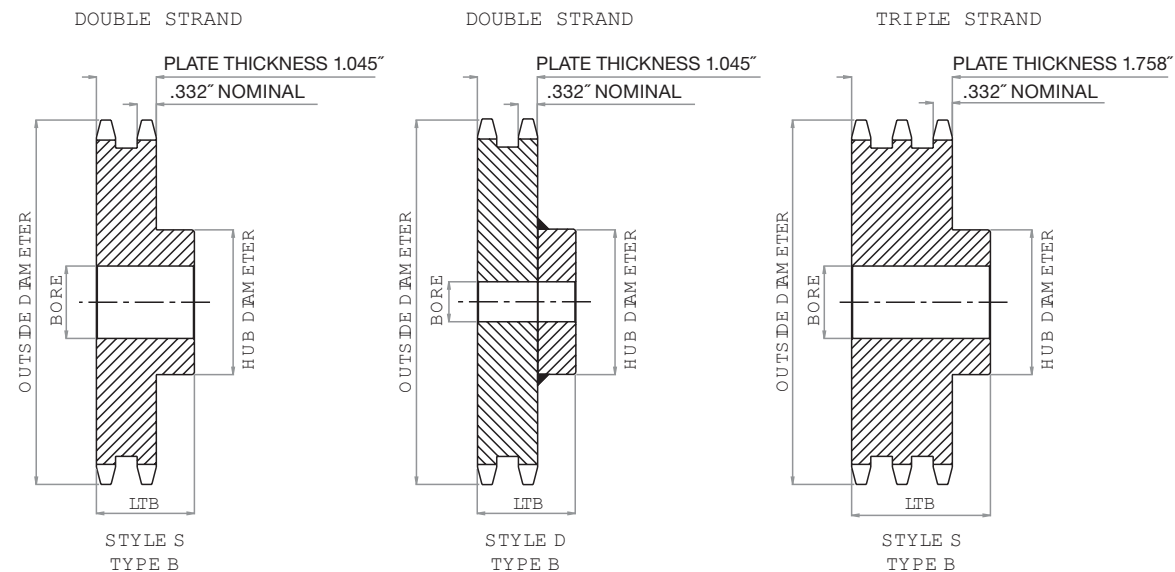
No. 50 5/8" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|------------|
| Size | 50-2, 50-3 |
| Pitch | 5/8" |
| Inside Width | 3/8" |
| Roller Diameter | 0.400" |
| Nominal Tooth Width: | 0.332" |

How to Order Code: Example Model # for 50 Pitch Multi-Strand Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|------------------|-----------------------|---------------------------|----------------------|----|----|----|-----|
| A | D | 50 | B | 18 | | | | |
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 50: 5/8" Pitch | B: Hub Extension One Side | Double Strand | | | | |
| | | | | 11 | 18 | 25 | 42 | 84 |
| | | | | 12 | 19 | 26 | 45 | 96 |
| | | | | 13 | 20 | 30 | 48 | 112 |
| | | | | 14 | 21 | 32 | 52 | |
| | | | | 15 | 22 | 35 | 54 | |
| | | | | 16 | 23 | 36 | 60 | |
| | | | | 17 | 24 | 40 | 72 | |
| | | | | Triple Strand | | | | |
| | | | | 11 | 15 | 19 | 23 | 30 |
| | | | | 12 | 16 | 20 | 24 | 35 |
| | | | | 13 | 17 | 21 | 25 | 36 |
| | | | | 14 | 18 | 22 | 26 | |

¹¹Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 50

MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 50 Multi-Strand Sprocket Dia. | | | Dimensional Data: Double Strand Sprockets | | | | |
|-----------------------------------|--------------|------------|---|-------|-----------|-----------|----------|
| No. Teeth | Outside Dia. | Plain Bore | Hub Diameter | LTB | MAX Bore* | Hub Style | Wt. Lbs. |
| 11 | 2.500 | 0.625 | 1.469 | 1.750 | 0.938 | S | 0.96 |
| 12 | 2.710 | 0.625 | 1.688 | 1.750 | 1.125 | S | 1.25 |
| 13 | 2.910 | 0.625 | 1.875 | 1.750 | 1.313 | S | 1.56 |
| 14 | 3.110 | 0.625 | 2.063 | 1.750 | 1.375 | S | 1.86 |
| 15 | 3.320 | 0.750 | 2.313 | 1.750 | 1.500 | S | 2.22 |
| 16 | 3.520 | 0.750 | 2.500 | 1.750 | 1.750 | S | 2.62 |
| 17 | 3.720 | 0.750 | 2.688 | 1.750 | 1.875 | S | 3.04 |
| 18 | 3.920 | 0.750 | 2.938 | 1.750 | 1.938 | S | 3.58 |
| 19 | 4.120 | 1.000 | 3.125 | 1.750 | 2.125 | S | 3.90 |
| 20 | 4.320 | 1.000 | 3.250 | 1.750 | 2.250 | S | 4.25 |
| 21 | 4.520 | 1.000 | 3.500 | 1.750 | 2.375 | S | 4.90 |
| 22 | 4.720 | 1.000 | 3.563 | 1.875 | 2.375 | S | 5.58 |
| 23 | 4.920 | 1.000 | 3.625 | 1.875 | 2.500 | S | 6.10 |
| 24 | 5.120 | 1.000 | 3.625 | 1.875 | 2.500 | S | 6.50 |
| 25 | 5.320 | 1.000 | 3.625 | 1.875 | 2.500 | S | 6.94 |
| 26 | 5.520 | 1.000 | 3.750 | 1.875 | 2.500 | S | 7.54 |
| 30 | 6.320 | 1.000 | 3.750 | 1.875 | 2.500 | S | 9.40 |
| 32 | 6.720 | 1.000 | 3.750 | 1.875 | 2.500 | S | 10.46 |
| 35 | 7.320 | 1.000 | 3.750 | 1.875 | 2.500 | S | 12.28 |
| 36 | 7.520 | 1.188 | 4.000 | 2.125 | 2.750 | S | 13.94 |
| 40 | 8.320 | 1.188 | 4.000 | 2.125 | 2.750 | S | 16.54 |
| 42 | 8.720 | 1.188 | 4.000 | 2.125 | 2.750 | S | 17.92 |
| 45 | 9.310 | 1.188 | 4.000 | 2.125 | 2.750 | S | 20.30 |
| 48 | 9.910 | 1.188 | 4.250 | 2.375 | 2.750 | S | 24.08 |
| 52 | 10.710 | 1.188 | 4.250 | 2.375 | 2.750 | D | 27.42 |
| 54 | 11.110 | 1.188 | 4.250 | 2.375 | 2.750 | D | 29.16 |
| 60 | 12.300 | 1.313 | 4.500 | 2.375 | 3.000 | D | 35.88 |
| 72 | 14.690 | 1.313 | 4.500 | 2.375 | 3.000 | D | 50.22 |
| 84 | 17.080 | 1.313 | 4.500 | 2.375 | 3.000 | D | 51.64 |
| 96 | 19.470 | 1.313 | 4.500 | 2.375 | 3.000 | D | 67.42 |
| 112 | 22.650 | 1.313 | 5.250 | 2.375 | 3.313 | D | 90.22 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

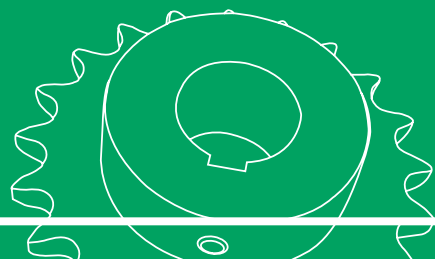
All dimensions in inches unless noted.

| No. 50 Multi-Strand Sprocket Dia. | | | Dimensional Data: Triple Strand Sprockets | | | | |
|-----------------------------------|--------------|------------|---|-------|-----------|-----------|----------|
| No. Teeth | Outside Dia. | Plain Bore | Hub Diameter | LTB | MAX Bore* | Hub Style | Wt. Lbs. |
| 11 | 2.500 | 0.625 | 1.469 | 2.500 | 0.938 | S | 1.42 |
| 12 | 2.710 | 0.625 | 1.688 | 2.500 | 1.125 | S | 1.84 |
| 13 | 2.910 | 0.625 | 1.875 | 2.500 | 1.313 | S | 2.28 |
| 14 | 3.110 | 0.625 | 2.063 | 2.500 | 1.375 | S | 2.72 |
| 15 | 3.320 | 0.750 | 2.313 | 2.500 | 1.500 | S | 3.24 |
| 16 | 3.520 | 0.750 | 2.500 | 2.500 | 1.750 | S | 3.75 |
| 17 | 3.720 | 0.750 | 2.688 | 2.500 | 1.875 | S | 4.38 |
| 18 | 3.920 | 0.750 | 2.938 | 2.500 | 1.938 | S | 5.10 |
| 19 | 4.120 | 1.000 | 3.125 | 2.500 | 2.125 | S | 5.60 |
| 20 | 4.320 | 1.000 | 3.250 | 2.625 | 2.250 | S | 6.42 |
| 21 | 4.520 | 1.000 | 3.500 | 2.625 | 2.375 | S | 7.42 |
| 22 | 4.720 | 1.000 | 3.563 | 2.625 | 2.375 | S | 7.92 |
| 23 | 4.920 | 1.000 | 3.625 | 2.625 | 2.500 | S | 8.80 |
| 24 | 5.120 | 1.000 | 3.625 | 2.625 | 2.500 | S | 9.42 |
| 25 | 5.320 | 1.000 | 3.625 | 2.625 | 2.500 | S | 10.16 |
| 26 | 5.520 | 1.000 | 3.750 | 2.625 | 2.500 | S | 11.02 |
| 30 | 6.320 | 1.000 | 3.750 | 2.625 | 2.500 | S | 14.24 |
| 35 | 7.320 | 1.000 | 3.750 | 2.625 | 2.500 | S | 18.96 |
| 36 | 7.520 | 1.188 | 4.000 | 2.750 | 2.750 | S | 20.60 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 50 5/8" Pitch: DOUBLE SINGLE

| Chain Data | |
|----------------------|--------|
| Size | 50 |
| Pitch | 5/8" |
| Inside Width | 3/8" |
| Roller Diameter | 0.400" |
| Nominal Tooth Width: | 0.343" |

How to Order Code: Example Model # for 50 Pitch Double Single Carbon Steel Sprockets

| | | | | |
|------------------------|-------------------|-----------------------|---------------------|----------------------------------|
| A | DS | 50 | A | 23 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth |
| A: Alteration Required | DS: Double Single | 50: 5/8" Pitch | A: No Hub Extension | 15 17 19 21 23 16 18 20 22 24 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

How to Order Code: Example Model # for 50 Pitch Double Single TAPER-LOCK[®] Carbon Steel Sprockets

| | | | | | |
|------------------------|-------------------|-----------------------|---------------------|---|----------------------|
| A | DS | 50 | A | TL | 24 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | TAPER-LOCK [®] | Number of Teeth |
| A: Alteration Required | DS: Double Single | 50: 5/8" Pitch | A: No Hub Extension | TAPER-LOCK [®] hub with set screws | 17 19 23 18 21 24 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK[®] bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK [®] Bushings | |
|----------------------------------|----------------|
| Bushing # | Bore Range |
| 1610 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |

No. 50

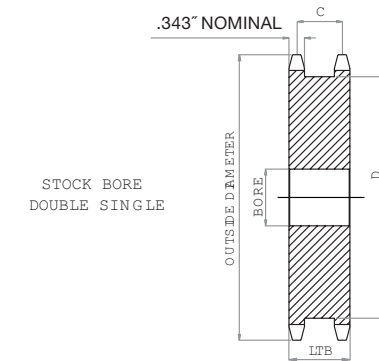
DOUBLE SINGLE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 50 Double Single Sprocket Dia. | | | Dimensional Data: Double Single Sprockets | | | | |
|------------------------------------|-------------------|------------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Diameters | Plain Bore | LTB | C | D | MAX Bore * | Weight Lbs. |
| 15 | 3.320 | 0.625 | 1.656 | 1.313 | 2.375 | 1.500 | 2.10 |
| 16 | 3.520 | 0.625 | 1.656 | 1.313 | 2.500 | 1.688 | 2.40 |
| 17 | 3.720 | 0.625 | 1.656 | 1.313 | 2.688 | 1.750 | 2.90 |
| 18 | 3.920 | 0.625 | 1.656 | 1.313 | 2.891 | 1.875 | 3.30 |
| 19 | 4.120 | 0.625 | 1.656 | 1.313 | 3.078 | 2.063 | 3.70 |
| 20 | 4.320 | 0.625 | 1.656 | 1.313 | 3.281 | 2.250 | 4.20 |
| 21 | 4.520 | 0.625 | 1.656 | 1.313 | 3.484 | 2.250 | 4.80 |
| 22 | 4.720 | 0.625 | 1.656 | 1.313 | 3.688 | 2.438 | 5.30 |
| 23 | 4.920 | 0.625 | 1.656 | 1.313 | 3.891 | 2.625 | 5.80 |
| 24 | 5.120 | 0.625 | 1.656 | 1.313 | 4.078 | 2.750 | 6.30 |

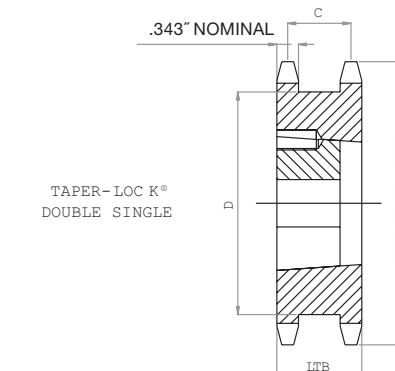
* Dimensions shown allow for standard keyway with set screw at 90 degrees



All dimensions in inches unless noted.

| No. 50 Double Single TAPER-LOCK [®] Sprocket Dia. | | | Dimensional Data: Double Single TAPER-LOCK [®] Sprockets | | | | |
|--|-------------------|-----------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Diameters | Bushing # | LTB | C | D | MAX Bore * | Weight Lbs. |
| 17 | 3.720 | 1610 | 1.656 | 1.313 | 2.688 | 1.688 | 1.80 |
| 18 | 3.920 | 1610 | 1.656 | 1.313 | 2.891 | 1.688 | 2.20 |
| 19 | 4.120 | 1610 | 1.656 | 1.313 | 3.078 | 1.688 | 2.70 |
| 21 | 4.520 | 2012 | 1.656 | 1.313 | 3.469 | 2.125 | 3.30 |
| 23 | 4.920 | 2012 | 1.656 | 1.313 | 3.891 | 2.125 | 3.70 |
| 24 | 5.120 | 2012 | 1.656 | 1.313 | 4.078 | 2.125 | 4.10 |

* Please reference TAPER-LOCK[®] bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 50 5/8" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 50 |
| Pitch | 5/8" |
| Inside Width | 3/8" |
| Roller Diameter | 0.400" |
| Nominal Tooth Width: | 0.343" |

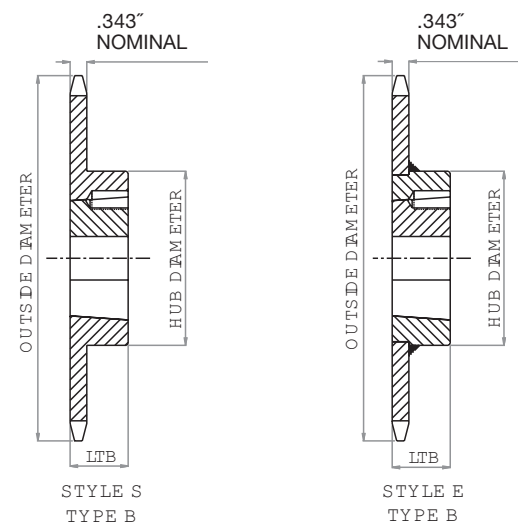
How to Order Code: Example Model # for 50 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|---------------------------------|-----------------|----|----|----|-----|
| A | 50 | B | TL | 42 | | | | |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | 50: 5/8" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | 12 | 19 | 26 | 40 | 72 |
| | | | | 13 | 20 | 27 | 42 | 80 |
| | | | | 14 | 21 | 28 | 45 | 84 |
| | | | | 15 | 22 | 30 | 48 | 96 |
| | | | | 16 | 23 | 32 | 54 | 112 |
| | | | | 17 | 24 | 35 | 60 | |
| | | | | 18 | 25 | 36 | 70 | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1008 | 0.500 - 1.000" |
| 1210 | 0.500 - 1.250" |
| 1610 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |



No. 50

TAPER LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

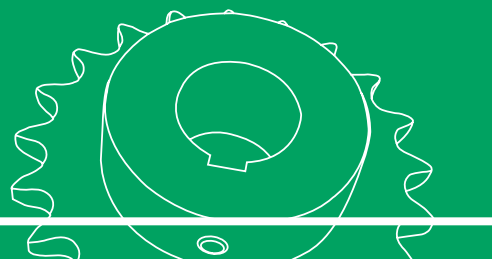
| No. 50 TAPER-LOCK® Sprocket Dia. | | | Dimensional Data TAPER-LOCK® Sprockets | | | | |
|----------------------------------|------------------|-----------|--|-------|--------------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore* | LTB | Hub Diameter | Hub Style | Weight Lbs. |
| 12 | 2.710 | 1008 | 1.000 | 0.875 | 1.938 □ | S | 0.50 |
| 13 | 2.910 | 1008 | 1.000 | 0.875 | 1.813 | S | 0.50 |
| 14 | 3.110 | 1008 | 1.000 | 0.875 | 1.938 | S | 0.60 |
| 15 | 3.320 | 1210 | 1.250 | 1.000 | 2.469 □ | S | 0.70 |
| 16 | 3.520 | 1610 | 1.688 | 1.000 | 2.781 □ | S | 0.70 |
| 17 | 3.720 | 1610 | 1.688 | 1.000 | 2.781 □ | S | 0.80 |
| 18 | 3.920 | 1610 | 1.688 | 1.000 | 2.781 | S | 0.90 |
| 19 | 4.120 | 1610 | 1.688 | 1.000 | 3.000 | S | 1.30 |
| 20 | 4.320 | 1610 | 1.688 | 1.000 | 3.250 | S | 1.60 |
| 21 | 4.520 | 1610 | 1.688 | 1.000 | 3.500 | S | 1.60 |
| 22 | 4.720 | 1610 | 1.688 | 1.000 | 3.500 | S | 1.60 |
| 23 | 4.920 | 2012 | 2.125 | 1.250 | 3.875 | S | 2.00 |
| 24 | 5.120 | 2012 | 2.125 | 1.250 | 4.000 | S | 2.20 |
| 25 | 5.320 | 2012 | 2.125 | 1.250 | 4.000 | S | 2.40 |
| 26 | 5.520 | 2012 | 2.125 | 1.250 | 4.000 | E | 2.50 |
| 27 | 5.720 | 2012 | 2.125 | 1.250 | 4.000 | E | 2.60 |
| 28 | 5.920 | 2012 | 2.125 | 1.250 | 4.000 | E | 2.80 |
| 30 | 6.320 | 2012 | 2.125 | 1.250 | 3.563 | E | 3.20 |
| 32 | 6.720 | 2012 | 2.125 | 1.250 | 3.563 | E | 3.60 |
| 35 | 7.320 | 2012 | 2.125 | 1.250 | 3.563 | E | 4.20 |
| 36 | 7.520 | 2012 | 2.125 | 1.250 | 3.563 | E | 4.30 |
| 40 | 8.320 | 2012 | 2.125 | 1.250 | 3.563 | E | 5.20 |
| 42 | 8.720 | 2012 | 2.125 | 1.250 | 3.563 | E | 5.90 |
| 45 | 9.310 | 2012 | 2.125 | 1.250 | 3.563 | E | 6.50 |
| 48 | 9.910 | 2012 | 2.125 | 1.250 | 3.563 | E | 7.30 |
| 54 | 11.110 | 2012 | 2.125 | 1.250 | 3.563 | E | 9.00 |
| 60 | 12.300 | 2012 | 2.125 | 1.250 | 3.563 | E | 10.80 |
| 70 | 14.290 | 2517 | 2.688 | 1.750 | 4.250 | E | 14.00 |
| 72 | 14.690 | 2517 | 2.688 | 1.750 | 4.250 | E | 15.50 |
| 80 | 16.280 | 2517 | 2.688 | 1.750 | 4.250 | E | 19.50 |
| 84 | 17.080 | 2517 | 2.688 | 1.750 | 4.250 | E | 22.50 |
| 96 | 19.470 | 2517 | 2.688 | 1.750 | 4.250 | E | 29.00 |
| 112 | 22.650 | 2517 | 2.688 | 1.750 | 4.250 | E | 38.70 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.

□ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 50 5/8" Pitch: MULTI-STRAND TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 50-2 |
| Pitch | 5/8" |
| Inside Width | 3/8" |
| Roller Diameter | 0.400" |
| Nominal Tooth Width: | 0.332" |

How to Order Code: Example Model # for 50 Pitch Multi-Strand TAPER-LOCK® Carbon Steel Sprockets

| A | D | 50 | C | TL | 42 | | | | |
|------------------------|------------------|-----------------------|---------------------|---------------------------------|-----------------|----|----|--|--|
| Altered ^{!!} | Multi-Strand | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 50: 5/8" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | A Style | | | | |
| | | | | | 14 | 16 | 18 | | |
| | | | 15 | | 17 | 19 | | | |
| | | | B Style | | | | | | |
| | | | 20 | | 25 | | | | |
| | | | 21 | | 30 | | | | |
| | | | C Style | | | | | | |
| | | | 36 | | 48 | 60 | 84 | | |
| | | | 42 | | 52 | 60 | | | |

^{!!}Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1008 | 0.500 - 1.000" |
| 1210 | 0.500 - 1.250" |
| 1610 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |

No. 50

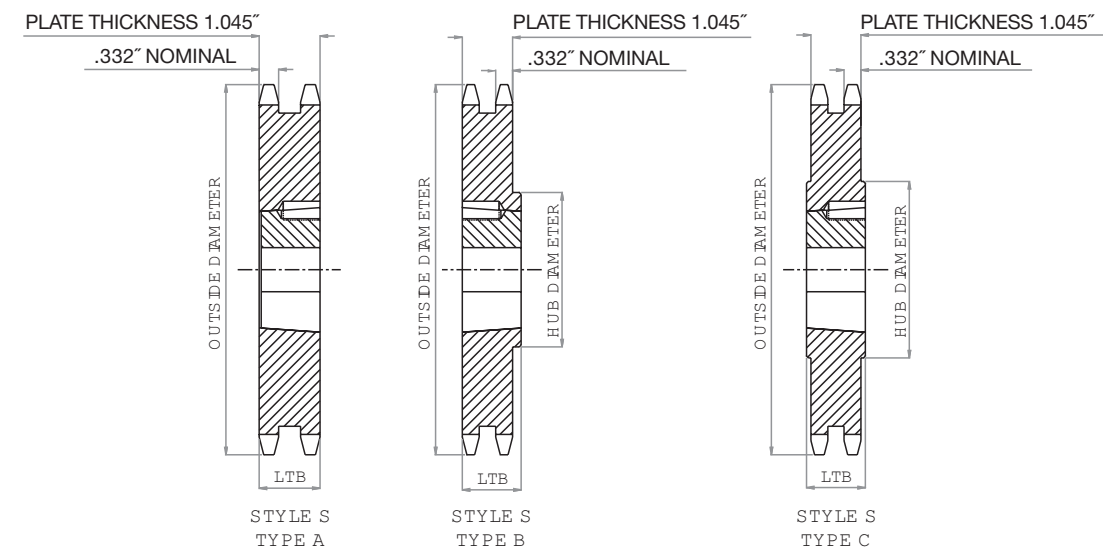
MULTI-STRAND TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 50 Multi-Strand TAPER-LOCK® Sprocket Dia. | | | Dimensional Data Double Strand TAPER-LOCK® Sprockets | | | | | |
|---|------------------|-----------|--|-------|--------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore * | LTB | Hub Diameter | Hub Type | Hub Style | Weight Lbs. |
| 14 | 3.110 | 1008 | 1.000 | 0.875 | N/A | A | S | 0.80 |
| 15 | 3.320 | 1210 | 1.250 | 1.000 | N/A | A | S | 0.90 |
| 16 | 3.520 | 1210 | 1.250 | 1.000 | N/A | A | S | 1.10 |
| 17 | 3.720 | 1610 | 1.688 | 1.000 | N/A | A | S | 1.10 |
| 18 | 3.920 | 1610 | 1.688 | 1.000 | N/A | A | S | 1.30 |
| 19 | 4.120 | 1610 | 1.688 | 1.000 | N/A | A | S | 1.60 |
| 20 | 4.320 | 2012 | 2.125 | 1.250 | 3.250 | B | S | 1.50 |
| 21 | 4.520 | 2012 | 2.125 | 1.250 | 3.500 | B | S | 1.90 |
| 25 | 5.320 | 2012 | 2.125 | 1.250 | 4.281 | B | S | 3.80 |
| 30 | 6.320 | 2517 | 2.688 | 1.750 | 5.281 | B | S | 7.50 |
| 36 | 7.520 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 9.40 |
| 42 | 8.720 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 13.40 |
| 48 | 9.910 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 18.60 |
| 52 | 10.710 | 2517 | 2.688 | 1.750 | 4.375 | C | S | 22.20 |
| 60 | 12.300 | 2517 | 2.688 | 1.750 | 4.375 | C | S | 30.30 |
| 84 | 17.080 | 2517 | 2.688 | 1.750 | 4.375 | C | S | 45.30 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 50 5/8" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 50 |
| Pitch | 5/8" |
| Inside Width | 3/8" |
| Roller Diameter | 0.400" |
| Nominal Tooth Width: | 0.343" |

How to Order Code: Example Model # for 50 Pitch QD® Carbon Steel Sprockets

| A | 50 | SH | 19 | | | | |
|------------------------|-----------------------|-------------------------------------|-----------------|----|----|----|----|
| Altered [†] | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 50: 5/8" Pitch | JA: QD® Hub 12 - 16 tooth sprocket | 12 | 14 | 16 | | |
| | | | 13 | 15 | | | |
| | | SH: QD® Hub 17 - 19 tooth sprocket | 17 | 19 | | | |
| | | | 18 | | | | |
| | | SDS: QD® Hub 20 - 48 tooth sprocket | 20 | 24 | 28 | 36 | 48 |
| | | | 21 | 25 | 30 | 40 | |
| | | | 22 | 26 | 32 | 42 | |
| | | | 23 | 27 | 35 | 45 | |
| | | | | | | | |
| | | SK: QD® Hub 54 - 72 tooth sprocket | 54 | 70 | | | |
| | | | 60 | 72 | | | |
| | | SF: QD® Hub 80 - 112 tooth sprocket | 80 | 96 | | | |
| 84 | 112 | | | | | | |

[†] Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| JA | 0.500 - 1.250" |
| SH | 0.500 - 1.688" |
| SDS | 0.500 - 2.000" |
| SK | 0.500 - 2.625" |
| SF | 0.500 - 2.938" |

No. 50

QD® SPROCKET DIMENSIONS

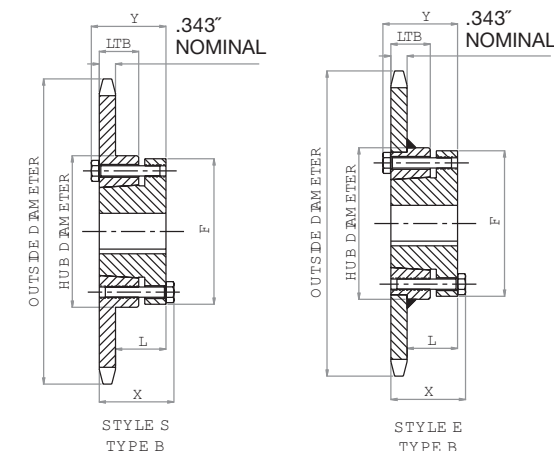
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 50 QD® Sprocket Dia. | | | Dimensional Data QD® Sprockets | | | | | | | | | |
|--------------------------|--------------|---------------|--------------------------------|----------|-------|-------|-------|-------|-------|----------|-----------|-------------|
| No. Teeth | Outside Dia. | QD® Bushing # | MAX Bore * | Hub Dia. | LTB | X | Y | L | F | Hub Type | Hub Style | Weight Lbs. |
| 12 | 2.710 | JA | 1.250 | 1.922 | 0.625 | 1.125 | 1.125 | 0.656 | 2.063 | B | S | 0.34 |
| 13 | 2.910 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.656 | 2.063 | B | S | 0.40 |
| 14 | 3.110 | JA | 1.250 | 2.125 | 0.625 | 1.125 | 1.125 | 0.656 | 2.063 | B | S | 0.52 |
| 15 | 3.320 | JA | 1.250 | 2.250 | 0.625 | 1.125 | 1.125 | 0.656 | 2.063 | B | S | 0.60 |
| 16 | 3.520 | JA | 1.250 | 2.250 | 0.625 | 1.125 | 1.125 | 0.656 | 2.063 | B | S | 0.68 |
| 17 | 3.720 | SH | 1.688 | 2.750 | 0.813 | 1.437 | 1.437 | 0.906 | 2.688 | B | S | 0.84 |
| 18 | 3.920 | SH | 1.688 | 2.875 | 0.813 | 1.437 | 1.437 | 0.906 | 2.688 | B | S | 1.04 |
| 19 | 4.120 | SH | 1.688 | 3.000 | 0.813 | 1.437 | 1.437 | 0.906 | 2.688 | B | S | 1.24 |
| 20 | 4.320 | SDS | 2.000 | 3.313 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | S | 1.20 |
| 21 | 4.520 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | S | 1.32 |
| 22 | 4.720 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | S | 1.42 |
| 23 | 4.920 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | S | 1.58 |
| 24 | 5.120 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 1.70 |
| 25 | 5.320 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 1.86 |
| 26 | 5.520 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 2.00 |
| 27 | 5.720 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 2.12 |
| 28 | 5.920 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 2.32 |
| 30 | 6.320 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 2.64 |
| 32 | 6.720 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 2.98 |
| 35 | 7.320 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 3.62 |
| 36 | 7.520 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 3.64 |
| 40 | 8.320 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 4.74 |
| 42 | 8.720 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 5.40 |
| 45 | 9.310 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 5.90 |
| 48 | 9.910 | SDS | 2.000 | 3.625 | 0.750 | 1.500 | 1.500 | 0.969 | 3.188 | B | E | 6.66 |
| 54 | 11.110 | SK | 2.625 | 3.625 | 1.250 | 2.125 | 2.125 | 1.531 | 3.875 | B | E | 9.68 |
| 60 | 12.300 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.531 | 3.875 | B | E | 11.88 |
| 70 | 14.290 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.531 | 3.875 | B | E | 15.52 |
| 72 | 14.690 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.531 | 3.875 | B | E | 16.44 |
| 80 | 16.280 | SF ** | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.656 | 4.625 | B | E | 19.90 |
| 84 | 17.080 | SF ** | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.656 | 4.625 | B | E | 22.98 |
| 96 | 19.470 | SF ** | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.656 | 4.625 | B | E | 29.88 |
| 112 | 22.650 | SF ** | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.656 | 4.625 | B | E | 40.10 |

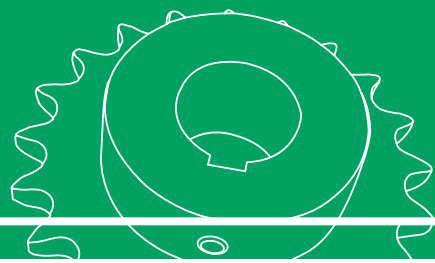
* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.

** = Max Bore with shallow key



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 60 3/4" Pitch: STAINLESS STEEL PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 60SS |
| Pitch | 3/4" |
| Inside Width | 1/2" |
| Roller Diameter | 0.469" |
| Nominal Tooth Width: | 0.459" |

How to Order Code: Example Model # for 60 Pitch Plain Bore Stainless Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|----|--------------------------------------|
| A | 60 | B | 25 | | | | | SS |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type: | Number of Teeth | | | | | Material |
| A: Alteration Required | 60: 3/4" Pitch | B: Hub Extension One Side | 12 | 17 | 21 | 25 | 35 | SS: 304 Stainless Steel Construction |
| | | | 13 | 18 | 22 | 26 | 40 | |
| | | | 14 | 19 | 23 | 28 | 45 | |
| | | | 15 | 20 | 24 | 30 | 60 | |
| | | | 16 | | | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 60

STAINLESS STEEL SPROCKET DIMENSIONS

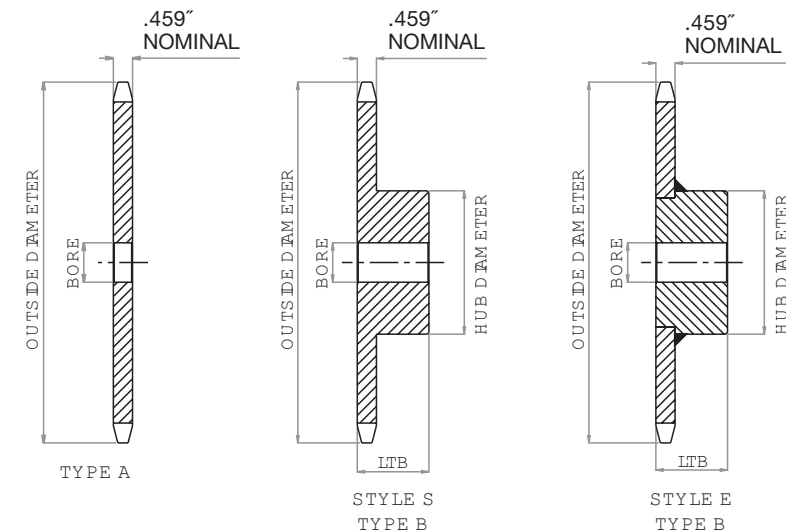
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. Teeth | No. 60 Stainless Steel Sprocket Diameters | | | Type "B" Plain Bore | | | | | |
|-----------|---|----------------|------------------|---------------------|-----------|----------|-------|-----------|----------|
| | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | MAX Bore* | Hub Dia. | LTB | Hub Style | Wt. Lbs. |
| 12 | 3.250 | 2.898 | 2.429 | 0.750 | 1.375 | 2.375 □ | 1.250 | S | 1.50 |
| 13 | 3.490 | 3.134 | 2.642 | 0.750 | 1.500 | 2.344 | 1.250 | S | 1.80 |
| 14 | 3.740 | 3.371 | 2.902 | 0.750 | 1.750 | 2.563 | 1.250 | S | 2.00 |
| 15 | 3.980 | 3.608 | 3.119 | 0.750 | 1.875 | 2.875 | 1.250 | S | 2.40 |
| 16 | 4.220 | 3.845 | 3.375 | 0.750 | 2.000 | 3.063 | 1.250 | S | 2.80 |
| 17 | 4.460 | 4.082 | 3.595 | 0.750 | 2.250 | 3.250 | 1.250 | E | 3.30 |
| 18 | 4.700 | 4.319 | 3.850 | 0.750 | 2.375 | 3.500 | 1.250 | E | 3.80 |
| 19 | 4.950 | 4.557 | 4.072 | 0.750 | 2.375 | 3.500 | 1.250 | E | 4.00 |
| 20 | 5.190 | 4.794 | 4.325 | 0.750 | 2.625 | 3.875 | 1.250 | E | 4.60 |
| 21 | 5.430 | 5.033 | 4.549 | 0.750 | 2.750 | 4.000 | 1.250 | E | 5.00 |
| 22 | 5.670 | 5.270 | 4.801 | 0.750 | 2.750 | 4.000 | 1.250 | E | 5.30 |
| 23 | 5.910 | 5.508 | 5.026 | 0.750 | 2.750 | 4.000 | 1.250 | E | 5.70 |
| 24 | 6.150 | 5.746 | 5.277 | 0.750 | 2.750 | 4.000 | 1.250 | E | 5.90 |
| 25 | 6.390 | 5.984 | 5.503 | 0.750 | 2.750 | 4.000 | 1.250 | E | 6.10 |
| 26 | 6.630 | 6.222 | 5.753 | 0.750 | 2.750 | 4.000 | 1.250 | E | 6.30 |
| 28 | 7.110 | 6.698 | 6.229 | 0.750 | 2.750 | 4.000 | 1.250 | E | 6.70 |
| 30 | 7.590 | 7.175 | 6.706 | 0.750 | 2.750 | 4.000 | 1.250 | E | 7.00 |
| 35 | 8.780 | 8.367 | 7.889 | 1.000 | 2.750 | 4.000 | 1.250 | E | 9.00 |
| 40 | 9.980 | 9.560 | 9.091 | 1.000 | 2.750 | 4.250 | 1.250 | E | 11.70 |
| 45 | 11.180 | 10.752 | 10.276 | 1.000 | 2.750 | 4.250 | 1.250 | E | 14.50 |
| 60 | 14.760 | 14.330 | 13.861 | 1.250 | 2.750 | 4.250 | 1.750 | E | 25.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

□ Has recessed groove in hub for chain clearance



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



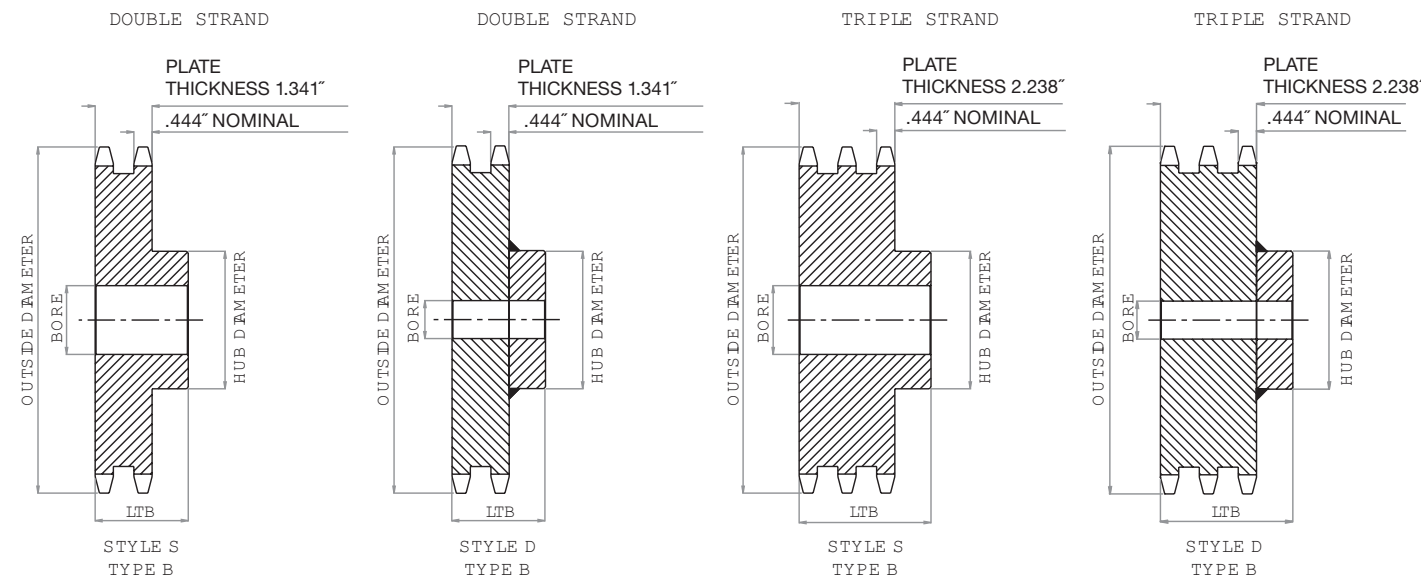
No. 60 3/4" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|------------|
| Size | 60-2, 60-3 |
| Pitch | 3/4" |
| Inside Width | 1/2" |
| Roller Diameter | 0.469" |
| Nominal Tooth Width: | 0.444" |

How to Order Code: Example Model # for 60 Pitch Multi-Strand Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|------------------|-----------------------|---------------------------|----------------------|----|----|----|----|
| A | D | 60 | B | 18 | | | | |
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 60: 3/4" Pitch | B: Hub Extension One Side | Double Strand | | | | |
| | | | | 11 | 16 | 21 | 26 | 40 |
| | | | | 12 | 17 | 22 | 30 | 45 |
| | | | | 13 | 18 | 23 | 32 | 48 |
| | | | | 14 | 19 | 24 | 35 | 60 |
| | T: Triple Strand | | | Triple Strand | | | | |
| | | | | 11 | 15 | 19 | 23 | 30 |
| | | | | 12 | 16 | 20 | 24 | 35 |
| | | | | 13 | 17 | 21 | 25 | 36 |
| | | | | 14 | 18 | 22 | 26 | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 60

MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 60 Multi-Strand Sprocket Diameters | | | Dimensional Data: Double Strand Sprockets | | | | | |
|--|------------------|------------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 11 | 3.000 | 1.000 | 1.813 | 2.125 | 1.250 | B | S | 1.62 |
| 12 | 3.250 | 1.000 | 2.125 | 2.125 | 1.438 | B | S | 2.20 |
| 13 | 3.490 | 1.000 | 2.250 | 2.125 | 1.500 | B | S | 2.60 |
| 14 | 3.740 | 1.000 | 2.500 | 2.125 | 1.750 | B | S | 3.24 |
| 15 | 3.980 | 1.000 | 2.813 | 2.125 | 1.875 | B | S | 3.96 |
| 16 | 4.220 | 1.000 | 3.000 | 2.125 | 2.000 | B | S | 4.62 |
| 17 | 4.460 | 1.000 | 3.250 | 2.125 | 2.250 | B | S | 5.40 |
| 18 | 4.700 | 1.000 | 3.500 | 2.125 | 2.375 | B | S | 6.24 |
| 19 | 4.950 | 1.000 | 3.688 | 2.125 | 2.500 | B | S | 7.00 |
| 20 | 5.190 | 1.000 | 3.750 | 2.125 | 2.500 | B | S | 7.72 |
| 21 | 5.430 | 1.000 | 4.125 | 2.125 | 2.750 | B | S | 8.82 |
| 22 | 5.670 | 1.000 | 4.250 | 2.125 | 2.750 | B | S | 9.68 |
| 23 | 5.910 | 1.000 | 4.250 | 2.125 | 2.750 | B | S | 10.30 |
| 24 | 6.150 | 1.000 | 4.250 | 2.125 | 2.750 | B | S | 11.14 |
| 25 | 6.390 | 1.000 | 4.250 | 2.125 | 2.750 | B | S | 11.96 |
| 26 | 6.630 | 1.000 | 4.250 | 2.125 | 2.750 | B | S | 12.70 |
| 30 | 7.590 | 1.000 | 4.250 | 2.125 | 2.750 | B | S | 16.36 |
| 32 | 8.070 | 1.250 | 4.500 | 2.375 | 3.000 | B | S | 19.52 |
| 35 | 8.780 | 1.250 | 4.500 | 2.375 | 3.000 | B | S | 22.80 |
| 36 | 9.020 | 1.250 | 4.500 | 2.375 | 3.000 | B | S | 23.82 |
| 40 | 9.980 | 1.250 | 4.750 | 2.750 | 3.250 | B | S | 30.84 |
| 45 | 11.180 | 1.250 | 4.750 | 2.750 | 3.250 | B | S | 37.08 |
| 48 | 11.890 | 1.250 | 4.750 | 2.750 | 3.250 | B | D | 44.90 |
| 60 | 14.760 | 1.250 | 4.750 | 2.750 | 3.250 | B | D | 63.10 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

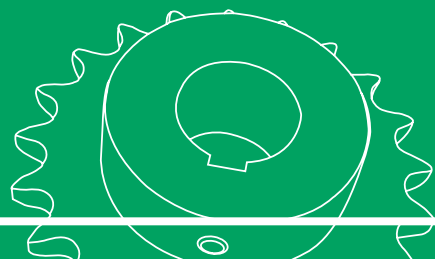
All dimensions in inches unless noted.

| No. 60 Multi-Strand Sprocket Diameters | | | Dimensional Data: Triple Strand Sprockets | | | | | |
|--|------------------|------------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 11 | 3.000 | 1.000 | 1.813 | 3.000 | 1.250 | B | S | 2.50 |
| 12 | 3.250 | 1.000 | 2.125 | 3.000 | 1.438 | B | S | 3.30 |
| 13 | 3.490 | 1.000 | 2.250 | 3.000 | 1.500 | B | S | 3.90 |
| 14 | 3.740 | 1.000 | 2.500 | 3.000 | 1.750 | B | S | 4.50 |
| 15 | 3.980 | 1.000 | 2.688 | 3.000 | 1.875 | B | S | 5.40 |
| 16 | 4.220 | 1.000 | 3.000 | 3.000 | 2.000 | B | S | 6.50 |
| 17 | 4.460 | 1.000 | 3.250 | 3.000 | 2.250 | B | S | 7.70 |
| 18 | 4.700 | 1.000 | 3.500 | 3.000 | 2.375 | B | S | 8.50 |
| 19 | 4.950 | 1.000 | 3.688 | 3.000 | 2.500 | B | S | 10.00 |
| 20 | 5.190 | 1.000 | 3.750 | 3.000 | 2.500 | B | S | 11.20 |
| 21 | 5.430 | 1.000 | 4.125 | 3.000 | 2.750 | B | S | 12.50 |
| 22 | 5.670 | 1.000 | 4.250 | 3.000 | 2.750 | B | S | 13.20 |
| 23 | 5.910 | 1.000 | 4.250 | 3.000 | 2.750 | B | S | 14.60 |
| 24 | 6.150 | 1.000 | 4.250 | 3.000 | 2.750 | B | S | 15.80 |
| 25 | 6.390 | 1.000 | 4.250 | 3.000 | 2.750 | B | S | 17.00 |
| 26 | 6.630 | 1.000 | 4.250 | 3.000 | 2.750 | B | S | 18.60 |
| 30 | 7.590 | 1.000 | 4.250 | 3.000 | 2.750 | B | S | 23.20 |
| 35 | 8.780 | 1.250 | 4.500 | 3.250 | 3.000 | B | S | 34.50 |
| 36 | 9.020 | 1.250 | 4.500 | 3.250 | 3.000 | B | S | 37.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 60 3/4" Pitch: DOUBLE SINGLE

| Chain Data | |
|----------------------|--------|
| Size | 60 |
| Pitch | 3/4" |
| Inside Width | 1/2" |
| Roller Diameter | 0.469" |
| Nominal Tooth Width: | 0.459" |

How to Order Code: Example Model # for 60 Pitch Double Single Carbon Steel Sprockets

| | | | | |
|-------------------------------|--------------------------|-----------------------|----------------------------|-------------------------------------|
| A | DS | 60 | A | 19 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth |
| A: Alteration Required | DS: Double Single | 60: 3/4" Pitch | A: No Hub Extension | 13 17 21 14 18 15 19 16 20 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

How to Order Code: Example Model # for 60 Pitch Double Single TAPER-LOCK® Carbon Steel Sprockets

| | | | | | |
|-------------------------------|--------------------------|-----------------------|----------------------------|---------------------------------|-------------------------------|
| A | DS | 60 | A | TL | 24 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth |
| A: Alteration Required | DS: Double Single | 60: 3/4" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | 17 21 18 23 19 24 20 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1615 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |

No. 60

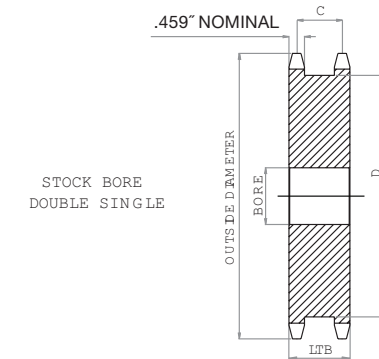
DOUBLE SINGLE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 60 Double Single Sprocket Diameters | | | Dimensional Data: Double Single Sprockets | | | | |
|---|--------------|------------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | LTB | C | D | MAX Bore * | Weight Lbs. |
| 13 | 3.490 | 0.750 | 1.938 | 1.484 | 2.344 | 1.500 | 2.60 |
| 14 | 3.740 | 0.750 | 1.938 | 1.484 | 2.563 | 1.750 | 3.20 |
| 15 | 3.980 | 0.750 | 1.938 | 1.484 | 2.875 | 1.875 | 3.80 |
| 16 | 4.220 | 0.750 | 1.938 | 1.484 | 3.047 | 2.000 | 4.50 |
| 17 | 4.460 | 0.750 | 1.938 | 1.484 | 3.250 | 2.250 | 5.30 |
| 18 | 4.700 | 0.750 | 1.938 | 1.484 | 3.500 | 2.375 | 6.50 |
| 19 | 4.950 | 0.750 | 1.938 | 1.484 | 3.703 | 2.500 | 6.80 |
| 20 | 5.190 | 0.750 | 1.938 | 1.484 | 3.953 | 2.750 | 7.00 |
| 21 | 5.430 | 0.750 | 1.938 | 1.484 | 4.188 | 2.875 | 7.50 |

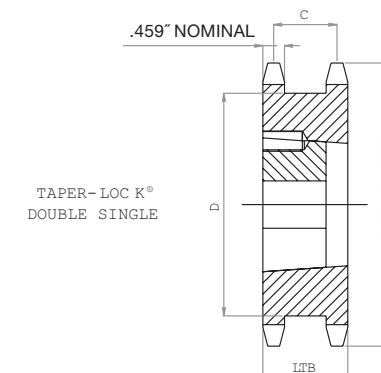
* Dimensions shown allow for standard keyway with set screw at 90 degrees



All dimensions in inches unless noted.

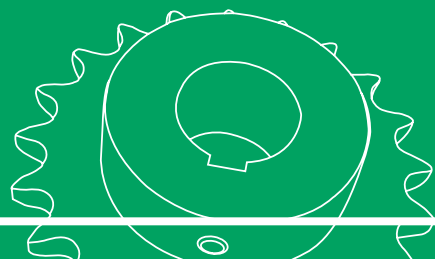
| No. 60 Double Single TAPER-LOCK® Sprocket Diameters | | | Dimensional Data: Double Single TAPER-LOCK® Sprockets | | | | |
|---|--------------|-----------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Dia. | Bushing # | LTB | C | D | MAX Bore * | Weight Lbs. |
| 17 | 4.460 | 1615 | 1.938 | 1.484 | 3.218 | 1.688 | 4.50 |
| 18 | 4.700 | 2012 | 1.938 | 1.484 | 3.469 | 2.125 | 5.00 |
| 19 | 4.950 | 2012 | 1.938 | 1.484 | 3.703 | 2.125 | 5.80 |
| 20 | 5.190 | 2517 | 1.938 | 1.484 | 3.953 | 2.688 | 5.60 |
| 21 | 5.430 | 2517 | 1.938 | 1.484 | 4.188 | 2.688 | 6.40 |
| 23 | 5.910 | 2517 | 1.938 | 1.484 | 4.672 | 2.688 | 7.30 |
| 24 | 6.150 | 2517 | 1.938 | 1.484 | 4.906 | 2.688 | 8.20 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 60 3/4" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 60 |
| Pitch | 3/4" |
| Inside Width | 1/2" |
| Roller Diameter | 0.469" |
| Nominal Tooth Width: | 0.459" |

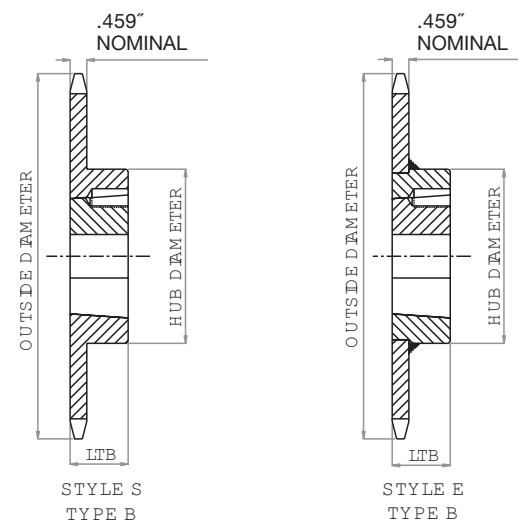
How to Order Code: Example Model # for 60 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | |
|------------------------|-----------------------|---------------------------|---------------------------------|-----------------|
| A | 60 | B | TL | 18 |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth |
| A: Alteration Required | 60: 3/4" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | 11 18 25 40 72 |
| | | | | 12 19 26 42 80 |
| | | | | 13 20 28 45 |
| | | | | 14 21 30 48 |
| | | | | 15 22 32 54 |
| | | | | 16 23 35 60 |
| 17 24 36 70 | | | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1008 | 0.500 - 1.000" |
| 1210 | 0.500 - 1.250" |
| 1610 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |



No. 60

TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

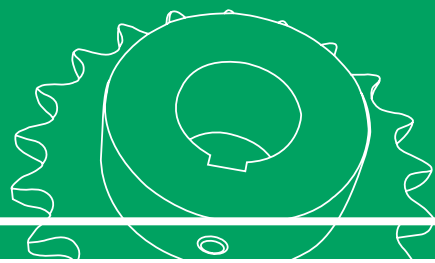
| No. 60 TAPER-LOCK® Sprockets | | | Dimensional Data TAPER-LOCK® Sprockets | | | | | |
|------------------------------|------------------|-----------|--|-------|--------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore * | LTB | Hub Diameter | Hub Type | Hub Style | Weight Lbs. |
| 11 | 3.000 | 1008 | 1.000 | 0.875 | 1.813 □ | B | S | 0.60 |
| 12 | 3.250 | 1008 | 1.000 | 0.875 | 1.938 | B | S | 0.80 |
| 13 | 3.490 | 1210 | 1.250 | 1.000 | 2.469 □ | B | S | 0.80 |
| 14 | 3.740 | 1210 | 1.250 | 1.000 | 2.469 | B | S | 1.00 |
| 15 | 3.980 | 1610 | 1.688 | 1.000 | 2.781 | B | S | 1.00 |
| 16 | 4.220 | 1610 | 1.688 | 1.000 | 3.000 | B | S | 1.40 |
| 17 | 4.460 | 1610 | 1.688 | 1.000 | 3.250 | B | S | 1.80 |
| 18 | 4.700 | 1610 | 1.688 | 1.000 | 3.500 | B | S | 1.90 |
| 19 | 4.950 | 1610 | 1.688 | 1.000 | 3.500 | B | S | 2.20 |
| 20 | 5.190 | 2012 | 2.125 | 1.250 | 3.938 | B | S | 2.20 |
| 21 | 5.430 | 2012 | 2.125 | 1.250 | 4.000 | B | S | 2.50 |
| 22 | 5.670 | 2012 | 2.125 | 1.250 | 4.000 | B | E | 2.80 |
| 23 | 5.910 | 2012 | 2.125 | 1.250 | 4.000 | B | E | 3.10 |
| 24 | 6.150 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 3.40 |
| 25 | 6.390 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 3.70 |
| 26 | 6.630 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 4.00 |
| 28 | 7.110 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 4.60 |
| 30 | 7.590 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 5.20 |
| 32 | 8.070 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 5.60 |
| 35 | 8.780 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 6.40 |
| 36 | 9.020 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 6.60 |
| 40 | 9.980 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 8.30 |
| 42 | 10.460 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 10.00 |
| 45 | 11.180 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 11.50 |
| 48 | 11.890 | 2012 | 2.125 | 1.250 | 3.563 | B | E | 13.20 |
| 54 | 13.330 | 2517 | 2.688 | 1.750 | 4.250 | B | E | 17.10 |
| 60 | 14.760 | 2517 | 2.688 | 1.750 | 4.250 | B | E | 21.00 |
| 70 | 17.150 | 2517 | 2.688 | 1.750 | 4.250 | B | E | 27.60 |
| 72 | 17.630 | 2517 | 2.688 | 1.750 | 4.250 | B | E | 30.00 |
| 80 | 19.540 | 2517 | 2.688 | 1.750 | 4.250 | B | E | 36.30 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.

□ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 60 3/4" Pitch: MULTI-STRAND TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 60-2 |
| Pitch | 3/4" |
| Inside Width | 1/2" |
| Roller Diameter | 0.469" |
| Nominal Tooth Width: | 0.444" |

How to Order Code: Example Model # for 60 Pitch Multi-Strand TAPER-LOCK® Carbon Steel Sprockets

| A | D | 60 | C | TL | 36 | | | | |
|------------------------|------------------|-----------------------|-----------------------------|---------------------------------|-----------------|----|----|----|----|
| Altered ^{!!} | Multi-Strand | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 60: 3/4" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | A Style | | | | |
| | | | | | 18 | | | | |
| | | | B: Hub Extension One Side | | B Style | | | | |
| | | | | | 13 | 15 | 17 | 21 | 30 |
| | | | C: Hub Extension Both Sides | | C Style | | | | |
| | | | | | 36 | 45 | 60 | | |
| | | | | | 42 | 52 | | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1215 | 0.500 - 1.250" |
| 1615 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |

No. 60

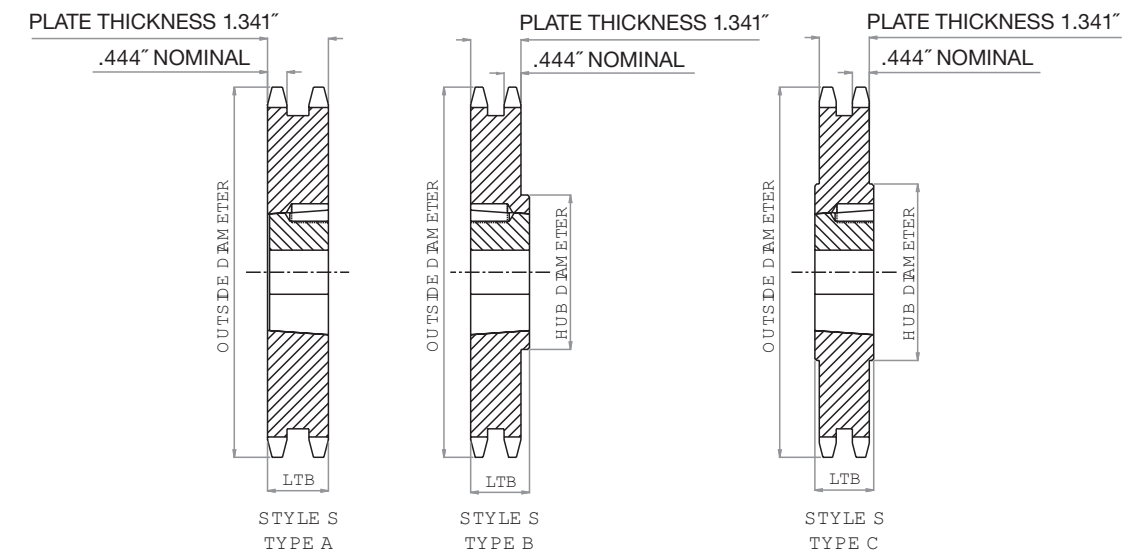
MULTI-STRAND TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| Double Strand No. 60 TAPER-LOCK® Sprockets | | | Dimensional Data Multi-Strand TAPER-LOCK® Sprockets | | | | | |
|--|------------------|-----------|---|-------|--------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | MAX Bore * | LTB | Hub Diameter | Hub Type | Hub Style | Weight Lbs. |
| 13 | 3.490 | 1215 | 1.250 | 1.500 | 2.250 | B | S | 1.20 |
| 14 | 3.740 | 1215 | 1.250 | 1.500 | 2.500 | B | S | 1.60 |
| 15 | 3.980 | 1615 | 1.688 | 1.500 | 2.813 | B | S | 1.30 |
| 16 | 4.220 | 1615 | 1.688 | 1.500 | 3.000 | B | S | 2.20 |
| 17 | 4.460 | 1615 | 1.688 | 1.500 | 3.250 | B | S | 2.50 |
| 18 | 4.700 | 2012 | 2.125 | 1.250 | - | A | S | 3.00 |
| 19 | 4.950 | 2012 | 2.125 | 1.250 | - | A | S | 3.50 |
| 20 | 5.190 | 2517 | 2.688 | 1.750 | 3.688 | B | S | 4.00 |
| 21 | 5.430 | 2517 | 2.688 | 1.750 | 4.188 | B | S | 5.00 |
| 25 | 6.390 | 2517 | 2.688 | 1.750 | 5.156 | B | S | 7.50 |
| 30 | 7.590 | 2517 | 2.688 | 1.750 | 6.344 | B | S | 13.50 |
| 36 | 9.020 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 17.50 |
| 42 | 10.460 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 25.50 |
| 45 | 11.180 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 29.50 |
| 52 | 12.850 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 41.00 |
| 60 | 14.760 | 2517 | 2.688 | 1.750 | 4.250 | C | S | 55.30 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 60 3/4" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 60 |
| Pitch | 3/4" |
| Inside Width | 1/2" |
| Roller Diameter | 0.469" |
| Nominal Tooth Width: | 0.459" |

How to Order Code: Example Model # for 60 Pitch QD® Carbon Steel Sprockets

| A | 60 | SDS | 19 | | | | |
|------------------------|-----------------------|-------------------------------------|-----------------|----|----|----|--|
| Altered ^{!!} | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 60: 3/4" Pitch | JA: QD® Hub 11 - 13 tooth sprocket | 11 | | | | |
| | | | 12 | | | | |
| | | | 13 | | | | |
| | | SH: QD® Hub 14 - 16 tooth sprocket | 14 | | | | |
| | | | 15 | | | | |
| | | | 16 | | | | |
| | | SDS: QD® Hub 17 - 25 tooth sprocket | 17 | 20 | 23 | | |
| | | | 18 | 21 | 24 | | |
| | | | 19 | 22 | 25 | | |
| | | | 26 | 30 | 36 | | |
| | | SK: QD® Hub 26 - 40 tooth sprocket | 27 | 32 | 40 | | |
| | | | 28 | 35 | | | |
| | | | 42 | 54 | 72 | 96 | |
| | | SF: QD® Hub 42 - 96 tooth sprocket | 45 | 60 | 80 | | |
| | | | 48 | 70 | 84 | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| JA | 0.500 - 1.250" |
| SH | 0.500 - 1.688" |
| SDS | 0.500 - 2.000" |
| SK | 0.500 - 2.625" |
| SF | 0.500 - 2.938" |

No. 60

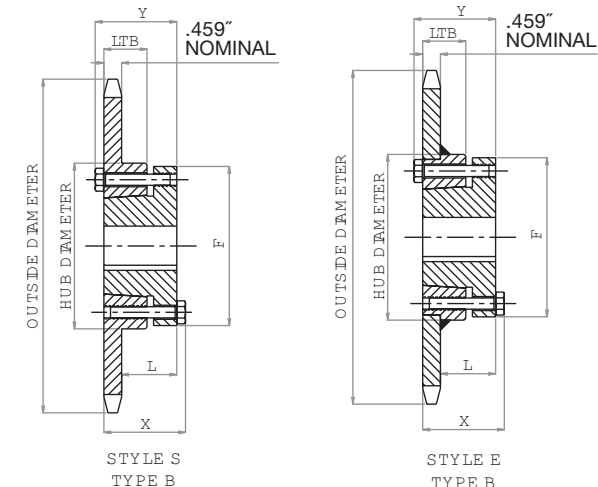
QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

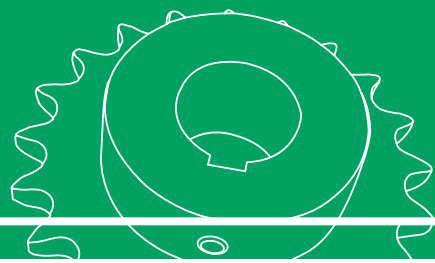
| No. 60 QD® Sprockets | | | Dimensional Data QD® Sprockets | | | | | | | | | |
|----------------------|--------------|---------------|--------------------------------|----------|-------|-------|-------|-------|-------|----------|-----------|-------------|
| No. Teeth | Outside Dia. | QD® Bushing # | MAX Bore * | Hub Dia. | LTB | X | Y | L | F | Hub Type | Hub Style | Weight Lbs. |
| 11 | 3.000 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.547 | 2.063 | B | S | 0.46 |
| 12 | 3.250 | JA | 1.250 | 2.063 | 0.625 | 1.125 | 1.125 | 0.547 | 2.063 | B | S | 0.60 |
| 13 | 3.490 | JA | 1.250 | 2.250 | 0.625 | 1.125 | 1.125 | 0.547 | 2.063 | B | S | 0.75 |
| 14 | 3.740 | SH | 1.688 | 2.688 | 0.813 | 1.437 | 1.437 | 0.797 | 2.688 | B | S | 0.88 |
| 15 | 3.980 | SH | 1.688 | 2.750 | 0.813 | 1.437 | 1.437 | 0.797 | 2.688 | B | S | 1.08 |
| 16 | 4.220 | SH | 1.688 | 3.000 | 0.813 | 1.437 | 1.437 | 0.797 | 2.688 | B | S | 1.25 |
| 17 | 4.460 | SDS | 2.000 | 3.250 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | S | 1.38 |
| 18 | 4.700 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | S | 1.56 |
| 19 | 4.950 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | S | 1.76 |
| 20 | 5.190 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | S | 2.00 |
| 21 | 5.430 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | S | 2.20 |
| 22 | 5.670 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | S | 2.44 |
| 23 | 5.910 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | E | 2.70 |
| 24 | 6.150 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | E | 2.94 |
| 25 | 6.390 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.859 | 3.188 | B | E | 3.24 |
| 26 | 6.630 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 4.18 |
| 27 | 6.870 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 4.52 |
| 28 | 7.110 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 4.72 |
| 30 | 7.590 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 5.34 |
| 32 | 8.070 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 6.10 |
| 35 | 8.780 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 7.42 |
| 36 | 9.020 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 7.70 |
| 40 | 9.980 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.422 | 3.875 | B | E | 9.56 |
| 42 | 10.460 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 10.78 |
| 45 | 11.180 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 12.40 |
| 48 | 11.890 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 14.25 |
| 54 | 13.330 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 17.02 |
| 60 | 14.760 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 20.76 |
| 70 | 17.150 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 28.60 |
| 72 | 17.630 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 29.58 |
| 80 | 19.540 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 38.24 |
| 84 | 20.490 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 40.94 |
| 96 | 23.360 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.547 | 4.625 | B | E | 52.40 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 80 1" Pitch: STAINLESS STEEL PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 80SS |
| Pitch | 1" |
| Inside Width | 5/8" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.575" |

How to Order Code: Example Model # for 80 Pitch Plain Bore Stainless Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|----|--------------------------------------|
| A | 80 | B | 24 | | | | | SS |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | Material |
| A: Alteration Required | 80: 1" Pitch | B: Hub Extension One Side | 10 | 13 | 16 | 20 | 24 | SS: 304 Stainless Steel Construction |
| | | | 11 | 14 | 18 | 22 | | |
| | | | 12 | 15 | 19 | 23 | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 80

STAINLESS STEEL SPROCKET DIMENSIONS

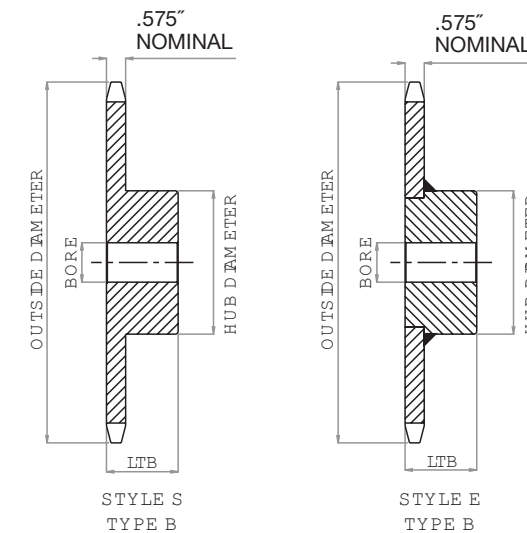
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 80 Stainless Steel Sprocket Diameters | | | | Type "B" Plain Bore | | | | | |
|---|------------------|----------------|------------------|---------------------|------------|----------|-------|-----------|----------|
| No. Teeth | Outside Diameter | Pitch Diameter | Caliper Diameter | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Style | Wt. Lbs. |
| 10 | 3.680 | 3.236 | 2.611 | 1.000 | 1.500 | 2.563 □ | 1.625 | S | 2.20 |
| 11 | 4.010 | 3.550 | 2.888 | 1.000 | 1.625 | 2.813 □ | 1.625 | S | 3.20 |
| 12 | 4.330 | 3.864 | 3.239 | 1.000 | 1.875 | 3.125 □ | 1.625 | S | 3.40 |
| 13 | 4.660 | 4.179 | 3.523 | 1.000 | 2.000 | 3.000 | 1.500 | S | 3.50 |
| 14 | 4.980 | 4.494 | 3.869 | 1.000 | 2.250 | 3.250 | 1.500 | S | 4.10 |
| 15 | 5.300 | 4.810 | 4.158 | 1.000 | 2.500 | 3.813 | 1.500 | S | 5.30 |
| 16 | 5.630 | 5.126 | 4.501 | 1.000 | 2.750 | 4.000 | 1.500 | S | 5.90 |
| 18 | 6.270 | 5.759 | 5.134 | 1.000 | 2.750 | 4.250 | 1.500 | S | 7.30 |
| 19 | 6.590 | 6.076 | 5.430 | 1.000 | 2.750 | 4.250 | 1.500 | S | 7.80 |
| 20 | 6.910 | 6.392 | 5.767 | 1.000 | 2.750 | 4.250 | 1.500 | S | 8.40 |
| 22 | 7.560 | 7.027 | 6.402 | 1.000 | 2.750 | 4.250 | 1.750 | E | 10.00 |
| 23 | 7.880 | 7.344 | 6.702 | 1.000 | 2.750 | 4.250 | 1.750 | E | 10.70 |
| 24 | 8.200 | 7.661 | 7.036 | 1.000 | 2.750 | 4.250 | 1.750 | E | 11.30 |

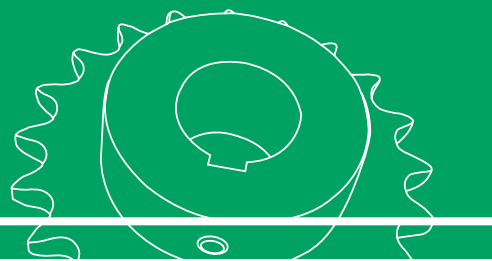
* Dimensions shown allow for standard keyway with set screw at 90 degrees

□ Has recessed groove in hub for chain clearance



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



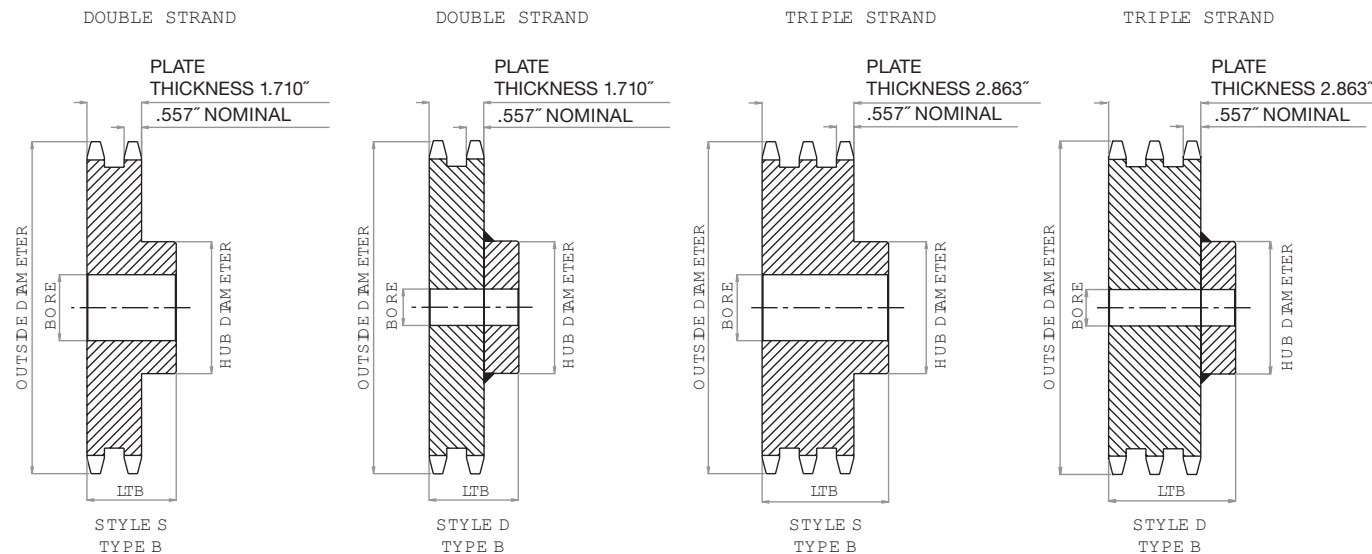
No. 80 1" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|------------|
| Size | 80-2, 80-3 |
| Pitch | 1" |
| Inside Width | 5/8" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.557" |

How to Order Code: Example Model # for 80 Pitch Multi-Strand Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|------------------|-----------------------|---------------------------|-----------------|----|----|----|----|
| A | D | 80 | B | 25 | | | | |
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 80: 1" Pitch | B: Hub Extension One Side | Double Strand | | | | |
| | | | | 10 | 14 | 18 | 22 | 30 |
| | | | | 11 | 15 | 19 | 23 | 36 |
| | | | | 12 | 16 | 20 | 24 | 45 |
| | | | | 13 | 17 | 21 | 25 | |
| | T: Triple Strand | | | Triple Strand | | | | |
| | | | | 11 | 15 | 19 | 23 | 36 |
| | | | | 12 | 16 | 20 | 24 | 45 |
| | | | | 13 | 17 | 21 | 25 | |
| | | | | 14 | 18 | 22 | 30 | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 80

MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 80 Multi-Strand Sprocket Dia. | | | Dimensional Data: Double Strand Sprockets | | | | | |
|-----------------------------------|------------------|------------|---|-------|------------|----------|-----------|----------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Wt. Lbs. |
| 10 | 3.680 | 1.000 | 2.563 □ | 2.750 | 1.500 | B | S | 3.50 |
| 11 | 4.010 | 1.000 | 2.500 | 2.500 | 1.750 | B | S | 4.00 |
| 12 | 4.330 | 1.000 | 2.844 | 2.500 | 1.875 | B | S | 5.10 |
| 13 | 4.660 | 1.000 | 3.156 | 2.500 | 2.250 | B | S | 6.30 |
| 14 | 4.980 | 1.000 | 3.469 | 2.500 | 2.375 | B | S | 7.60 |
| 15 | 5.300 | 1.000 | 3.797 | 2.500 | 2.500 | B | S | 9.00 |
| 16 | 5.630 | 1.000 | 4.000 | 2.750 | 2.750 | B | S | 11.00 |
| 17 | 5.950 | 1.000 | 4.422 | 2.750 | 3.000 | B | S | 13.20 |
| 18 | 6.270 | 1.000 | 4.734 | 2.750 | 3.250 | B | S | 15.00 |
| 19 | 6.590 | 1.000 | 5.000 | 2.750 | 3.313 | B | S | 17.00 |
| 20 | 6.910 | 1.000 | 5.000 | 2.750 | 3.313 | B | S | 18.20 |
| 21 | 7.240 | 1.000 | 5.000 | 2.750 | 3.313 | B | S | 19.50 |
| 22 | 7.560 | 1.000 | 5.000 | 2.750 | 3.313 | B | S | 21.00 |
| 23 | 7.880 | 1.000 | 5.000 | 2.750 | 3.313 | B | S | 22.80 |
| 24 | 8.200 | 1.000 | 5.250 | 2.750 | 3.500 | B | S | 25.10 |
| 25 | 8.520 | 1.000 | 5.250 | 3.000 | 3.500 | B | S | 28.30 |
| 30 | 10.110 | 1.250 | 5.750 | 3.000 | 3.750 | B | S | 39.50 |
| 36 | 12.030 | 1.250 | 5.750 | 3.125 | 3.750 | B | D | 54.20 |
| 45 | 14.900 | 1.250 | 5.750 | 3.125 | 3.750 | B | D | 73.50 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

□ Has recessed groove in hub for chain clearance

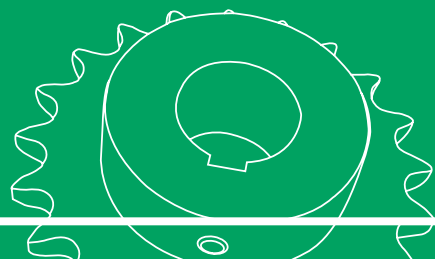
All dimensions in inches unless noted.

| No. 80 Multi-Strand Sprocket Dia. | | | Dimensional Data: Triple Strand Sprockets | | | | | |
|-----------------------------------|------------------|------------|---|-------|------------|----------|-----------|----------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Wt. Lbs. |
| 11 | 4.010 | 1.000 | 2.500 | 3.625 | 1.750 | B | S | 5.90 |
| 12 | 4.330 | 1.000 | 2.844 | 3.625 | 1.875 | B | S | 7.50 |
| 13 | 4.660 | 1.000 | 3.156 | 3.625 | 2.250 | B | S | 9.20 |
| 14 | 4.980 | 1.000 | 3.469 | 3.625 | 2.375 | B | S | 11.00 |
| 15 | 5.300 | 1.000 | 3.797 | 3.625 | 2.500 | B | S | 13.10 |
| 16 | 5.630 | 1.000 | 4.000 | 3.875 | 2.750 | B | S | 15.80 |
| 17 | 5.950 | 1.000 | 4.422 | 3.875 | 3.000 | B | S | 18.60 |
| 18 | 6.270 | 1.000 | 4.734 | 3.875 | 3.250 | B | S | 21.20 |
| 19 | 6.590 | 1.000 | 5.000 | 3.875 | 3.313 | B | S | 23.70 |
| 20 | 6.910 | 1.000 | 5.000 | 3.875 | 3.313 | B | S | 26.00 |
| 21 | 7.240 | 1.000 | 5.000 | 3.875 | 3.313 | B | S | 28.40 |
| 22 | 7.560 | 1.000 | 5.000 | 3.875 | 3.313 | B | S | 31.00 |
| 23 | 7.880 | 1.000 | 5.000 | 3.875 | 3.313 | B | S | 33.60 |
| 24 | 8.200 | 1.000 | 5.250 | 3.875 | 3.500 | B | S | 37.10 |
| 25 | 8.520 | 1.000 | 5.250 | 3.875 | 3.500 | B | S | 40.10 |
| 30 | 10.110 | 1.250 | 5.750 | 4.250 | 3.750 | B | S | 54.50 |
| 36 | 12.030 | 1.250 | 5.750 | 4.250 | 3.750 | B | D | 83.90 |
| 45 | 14.900 | 1.250 | 6.000 | 4.500 | 3.813 | B | D | 92.40 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 80 1" Pitch: DOUBLE SINGLE

| Chain Data | |
|----------------------|--------|
| Size | 80 |
| Pitch | 1" |
| Inside Width | 5/8" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.575" |

How to Order Code: Example Model # for 80 Pitch Double Single Carbon Steel Sprockets

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------------------------|-----------------------|----------------------------|---|----|----|----|--|--|----|----|----|--|--|----|----|--|--|--|----|----|--|--|--|
| A | DS | 80 | A | 19 | | | | | | | | | | | | | | | | | | | | |
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | | | | | | | | | | | | | | | | |
| A: Alteration Required | DS: Double Single | 80: 1" Pitch | A: No Hub Extension | <table border="1"> <tr> <td>13</td> <td>17</td> <td>21</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>18</td> <td>22</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>19</td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>20</td> <td></td> <td></td> <td></td> </tr> </table> | 13 | 17 | 21 | | | 14 | 18 | 22 | | | 15 | 19 | | | | 16 | 20 | | | |
| 13 | 17 | 21 | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 18 | 22 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 19 | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 20 | | | | | | | | | | | | | | | | | | | | | | | |

¹¹Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

How to Order Code: Example Model # for 80 Pitch Double Single TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|--------------------------|-----------------------|----------------------------|---------------------------------|---|----|----|--|--|--|----|----|--|--|--|----|--|--|--|--|----|--|--|--|--|
| A | DS | 80 | A | TL | 19 | | | | | | | | | | | | | | | | | | | | |
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | | | | | | | | | | | | | | | | | |
| A: Alteration Required | DS: Double Single | 80: 1" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | <table border="1"> <tr> <td>17</td> <td>21</td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td>23</td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> | 17 | 21 | | | | 18 | 23 | | | | 19 | | | | | 20 | | | | |
| 17 | 21 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | |

¹¹Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 2517 | 0.500 - 2.688" |
| 3020 | 0.875 - 3.250" |

No. 80

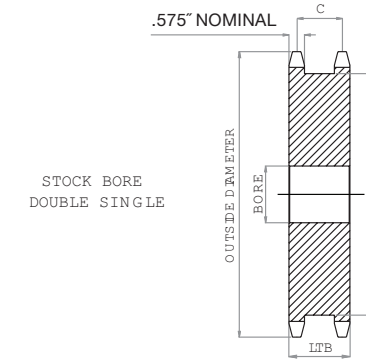
DOUBLE SINGLE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 80 Double Single Sprocket Diameters | | | Dimensional Data: Double Single Sprockets | | | | |
|---|--------------|------------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | LTB | C | D | MAX Bore * | Weight Lbs. |
| 13 | 4.660 | 1.000 | 2.188 | 1.625 | 3.016 | 2.000 | 6.50 |
| 14 | 4.980 | 1.000 | 2.188 | 1.625 | 3.344 | 2.250 | 7.70 |
| 15 | 5.300 | 1.000 | 2.188 | 1.625 | 3.813 | 2.375 | 9.10 |
| 16 | 5.630 | 1.000 | 2.188 | 1.625 | 4.000 | 2.688 | 9.50 |
| 17 | 5.950 | 1.000 | 2.188 | 1.625 | 4.313 | 2.813 | 10.80 |
| 18 | 6.270 | 1.000 | 2.188 | 1.625 | 4.641 | 3.125 | 12.10 |
| 19 | 6.590 | 1.000 | 2.188 | 1.625 | 4.953 | 3.250 | 12.80 |
| 20 | 6.910 | 1.000 | 2.188 | 1.625 | 5.281 | 3.500 | 14.00 |
| 21 | 7.240 | 1.000 | 2.188 | 1.625 | 5.594 | 3.750 | 16.50 |
| 22 | 7.560 | 1.000 | 2.188 | 1.625 | 5.922 | 3.750 | 18.40 |

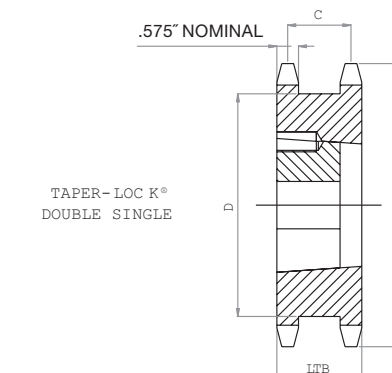
* Dimensions shown allow for standard keyway with set screw at 90 degrees



All dimensions in inches unless noted.

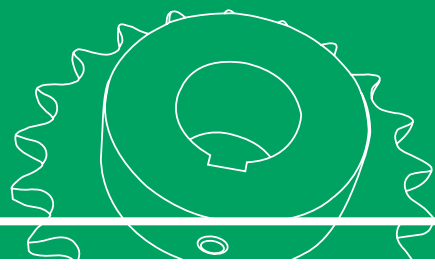
| No. 80 Double Single TAPER-LOCK® Sprocket Diameters | | | Dimensional Data: Double Single TAPER-LOCK® Sprockets | | | | |
|---|--------------|-----------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Dia. | Bushing # | LTB | C | D | MAX Bore * | Weight Lbs. |
| 17 | 5.950 | 2517 | 2.188 | 1.625 | 4.313 | 2.688 | 7.60 |
| 18 | 6.270 | 2517 | 2.188 | 1.625 | 4.641 | 2.688 | 8.70 |
| 19 | 6.590 | 3020 | 2.188 | 1.625 | 4.953 | 3.250 | 9.70 |
| 20 | 6.910 | 3020 | 2.188 | 1.625 | 5.281 | 3.250 | 10.00 |
| 21 | 7.240 | 3020 | 2.188 | 1.625 | 5.594 | 3.250 | 12.00 |
| 23 | 7.880 | 3020 | 2.188 | 1.625 | 6.234 | 3.250 | 14.50 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 80 1" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 80 |
| Pitch | 1" |
| Inside Width | 5/8" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.575" |

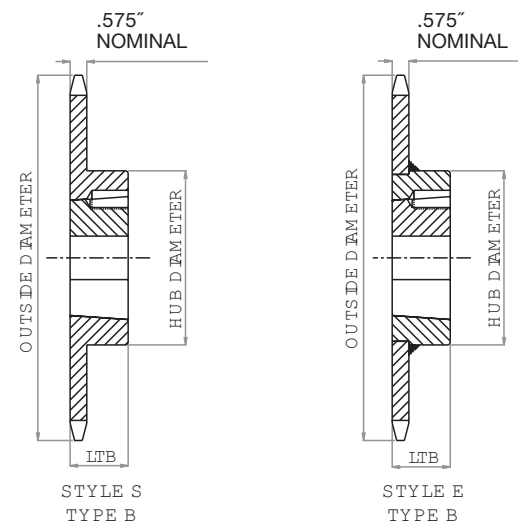
How to Order Code: Example Model # for 80 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|---------------------------------|-----------------|----|----|----|----|
| A | 80 | B | TL | 25 | | | | |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | 80: 1" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | 10 | 16 | 22 | 28 | 45 |
| | | | | 11 | 17 | 23 | 30 | 48 |
| | | | | 12 | 18 | 24 | 32 | 54 |
| | | | | 13 | 19 | 25 | 35 | 60 |
| | | | | 14 | 20 | 26 | 36 | 70 |
| | | | | 15 | 21 | 27 | 40 | 80 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1215 | 0.500 - 1.250" |
| 1615 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |
| 3020 | 0.875 - 3.250" |



No. 80

TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

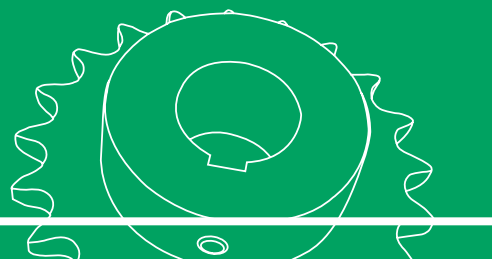
| No. 80 TAPER-LOCK® Sprockets | | | Dimensional Data TAPER-LOCK® Sprockets | | | | |
|------------------------------|------------------|-----------|--|-------|------------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | Hub Diameter | LTB | MAX Bore * | Hub Style | Weight Lbs. |
| 10 | 3.680 | 1215 | 2.375 □ | 1.500 | 1.250 | S | 1.10 |
| 11 | 4.010 | 1215 | 2.469 □ | 1.500 | 1.250 | S | 1.50 |
| 12 | 4.330 | 1615 | 3.000 □ | 1.500 | 1.688 | S | 1.80 |
| 13 | 4.660 | 1615 | 3.000 | 1.500 | 1.688 | S | 2.30 |
| 14 | 4.980 | 1615 | 3.343 | 1.500 | 1.688 | S | 2.50 |
| 15 | 5.300 | 1615 | 3.500 | 1.500 | 1.688 | S | 2.70 |
| 16 | 5.630 | 2012 | 4.000 | 1.250 | 2.125 | S | 2.80 |
| 17 | 5.950 | 2012 | 4.000 | 1.250 | 2.125 | E | 3.10 |
| 18 | 6.270 | 2012 | 3.563 | 1.250 | 2.125 | E | 3.60 |
| 19 | 6.590 | 2012 | 3.563 | 1.250 | 2.125 | E | 4.10 |
| 20 | 6.910 | 2517 | 4.250 | 1.750 | 2.688 | E | 5.50 |
| 21 | 7.240 | 2517 | 4.250 | 1.750 | 2.688 | E | 6.00 |
| 22 | 7.560 | 2517 | 4.250 | 1.750 | 2.688 | E | 6.50 |
| 23 | 7.880 | 2517 | 4.250 | 1.750 | 2.688 | E | 7.00 |
| 24 | 8.200 | 2517 | 4.250 | 1.750 | 2.688 | E | 7.50 |
| 25 | 8.520 | 2517 | 4.250 | 1.750 | 2.688 | E | 8.10 |
| 26 | 8.840 | 2517 | 4.250 | 1.750 | 2.688 | E | 8.80 |
| 27 | 9.160 | 2517 | 4.250 | 1.750 | 2.688 | E | 9.00 |
| 28 | 9.480 | 2517 | 4.250 | 1.750 | 2.688 | E | 9.50 |
| 30 | 10.110 | 2517 | 4.250 | 1.750 | 2.688 | E | 11.50 |
| 32 | 10.750 | 2517 | 4.250 | 1.750 | 2.688 | E | 12.00 |
| 35 | 11.710 | 2517 | 4.250 | 1.750 | 2.688 | E | 15.20 |
| 36 | 12.030 | 2517 | 4.250 | 1.750 | 2.688 | E | 17.00 |
| 40 | 13.310 | 2517 | 4.250 | 1.750 | 2.688 | E | 21.00 |
| 45 | 14.900 | 2517 | 4.250 | 1.750 | 2.688 | E | 26.50 |
| 48 | 15.860 | 2517 | 4.250 | 1.750 | 2.688 | E | 29.50 |
| 54 | 17.770 | 2517 | 4.250 | 1.750 | 2.688 | E | 38.50 |
| 60 | 19.680 | 2517 | 4.250 | 1.750 | 2.688 | E | 45.20 |
| 70 | 22.870 | 3020 | 5.250 | 2.000 | 3.250 | E | 52.30 |
| 80 | 26.050 | 3020 | 5.250 | 2.000 | 3.250 | E | 69.20 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.

□ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 80 1" Pitch: MULTI-STRAND TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 80-2 |
| Pitch | 1" |
| Inside Width | 5/8" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.557" |

How to Order Code: Example Model # for 80 Pitch Multi-Strand TAPER-LOCK® Carbon Steel Sprockets

| A | D | 80 | B | TL | 19 | | | | | |
|------------------------|------------------|-----------------------|---------------------------|---------------------------------|-----------------------------|----------------|----|----|--|--|
| Altered ^{!!} | Multi-Strand | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | | |
| A: Alteration Required | D: Double Strand | 80: 1" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | A Style | | | | | |
| | | | | | 13 | 15 | 17 | | | |
| | | | | | 14 | 16 | 18 | | | |
| | | | | | B Style | | | | | |
| | | | | | 19 | 21 | | | | |
| | | | | | 20 | 25 | | | | |
| | | | B: Hub Extension One Side | | C: Hub Extension Both Sides | C Style | | | | |
| | | | | | | 30 | 42 | 52 | | |
| | | | | | | 36 | 45 | 60 | | |

^{!!}Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1615 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |
| 3020 | 0.875 - 3.250" |

No. 80

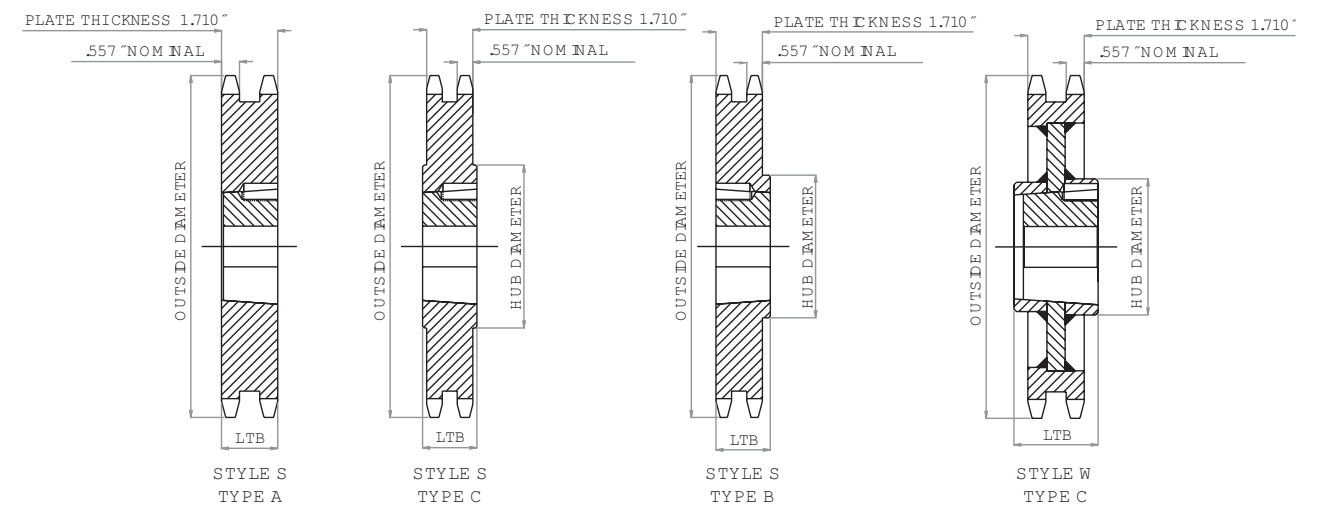
MULTI-STRAND TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

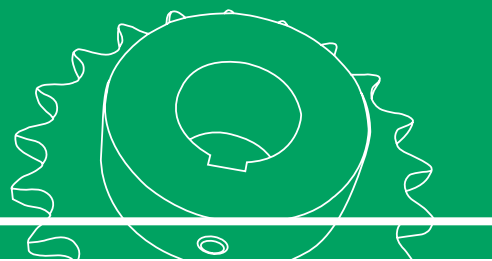
| No. 80 Multi-Strand TAPER-LOCK® Sprockets | | | Dimensional Data Multi-Strand TAPER-LOCK® Sprockets | | | | | |
|---|------------------|-----------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 13 | 4.660 | 1615 | N/A | 1.500 | 1.688 | A | S | 3.40 |
| 14 | 4.980 | 2012 | N/A | 1.250 | 2.125 | A | S | 3.50 |
| 15 | 5.300 | 2012 | N/A | 1.250 | 2.125 | A | S | 4.30 |
| 16 | 5.630 | 2517 | 3.125 | 1.750 | 2.688 | A | S | 3.80 |
| 17 | 5.950 | 2517 | 3.125 | 1.750 | 2.688 | A | S | 5.10 |
| 18 | 6.270 | 2517 | 3.125 | 1.750 | 2.688 | A | S | 6.40 |
| 19 | 6.590 | 3020 | 5.000 | 2.000 | 3.250 | B | S | 5.60 |
| 20 | 6.910 | 3020 | 5.250 | 2.000 | 3.250 | B | S | 7.10 |
| 21 | 7.240 | 3020 | 5.563 | 2.000 | 3.250 | B | S | 8.90 |
| 25 | 8.520 | 3020 | 6.875 | 2.000 | 3.250 | B | S | 16.50 |
| 30 | 10.110 | 3020 | 5.250 | 2.000 | 3.250 | C | S | 25.10 |
| 36 | 12.030 | 3020 | 5.250 | 2.000 | 3.250 | C | S | 39.40 |
| 42 | 13.940 | 3020 | 5.250 | 2.000 | 3.250 | C | S | 36.40 |
| 45 | 14.900 | 3020 | 5.250 | 2.000 | 3.250 | C | S | 41.40 |
| 52 | 17.130 | 3020 | 5.250 | 2.000 | 3.250 | C | W | 56.20 |
| 60 | 19.680 | 3020 | 5.250 | 2.000 | 3.250 | C | W | 66.30 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 80 1" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 80 |
| Pitch | 1" |
| Inside Width | 5/8" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.575" |

How to Order Code: Example Model # for 80 Pitch QD® Carbon Steel Sprockets

| A | 80 | SF | 21 | | | | |
|------------------------|-----------------------|-------------------------------------|-----------------|----|----|----|----|
| Altered ¹⁾ | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 80: 1" Pitch | SH: QD® Hub 11 - 12 tooth sprocket | 11 | | | | |
| | | | 12 | | | | |
| | | SDS: QD® Hub 13 - 14 tooth sprocket | 13 | | | | |
| | | | 14 | | | | |
| | | SK: QD® Hub 15 - 19 tooth sprocket | 15 | 18 | | | |
| | | | 16 | 19 | | | |
| | | | 17 | | | | |
| | | SF: QD® Hub 20 - 60 tooth sprocket | 20 | 24 | 28 | 36 | 48 |
| | | | 21 | 25 | 30 | 40 | 54 |
| | | | 22 | 26 | 32 | 42 | 60 |
| | | | 23 | 27 | 35 | 45 | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| SH | 0.500 - 1.688" |
| SDS | 0.500 - 2.000" |
| SK | 0.500 - 2.625" |
| SF | 0.500 - 2.938" |

No. 80

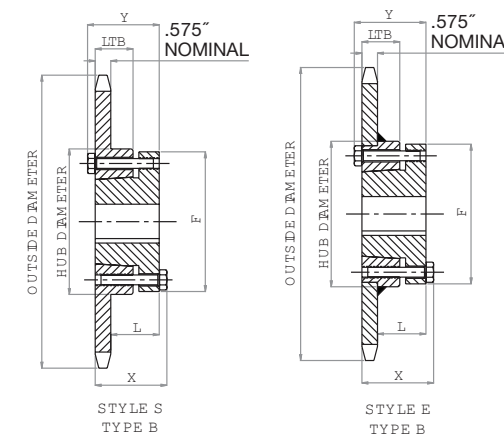
QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 80 QD® Sprockets | | | Dimensional Data QD® Sprockets | | | | | | | | | |
|----------------------|--------------|---------------|--------------------------------|----------|-------|-------|-------|-------|-------|----------|-----------|-------------|
| No. Teeth | Outside Dia. | QD® Bushing # | MAX Bore * | Hub Dia. | LTB | X | Y | L | F | Hub Type | Hub Style | Weight Lbs. |
| 11 | 4.010 | SH | 1.688 | 2.688 | 0.813 | 1.437 | 1.437 | 0.656 | 2.688 | B | S | 1.00 |
| 12 | 4.330 | SH | 1.688 | 2.750 | 0.813 | 1.437 | 1.437 | 0.656 | 2.688 | B | S | 1.40 |
| 13 | 4.660 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 0.734 | 3.188 | B | S | 1.50 |
| 14 | 4.980 | SDS | 2.000 | 3.375 | 0.750 | 1.500 | 1.500 | 0.734 | 3.188 | B | S | 1.80 |
| 15 | 5.300 | SK | 2.625 | 3.875 | 1.250 | 2.125 | 2.125 | 1.297 | 3.875 | B | S | 2.50 |
| 16 | 5.630 | SK | 2.625 | 4.125 | 1.250 | 2.125 | 2.125 | 1.297 | 3.875 | B | S | 3.10 |
| 17 | 5.950 | SK | 2.625 | 4.375 | 1.250 | 2.125 | 2.125 | 1.297 | 3.875 | B | S | 3.50 |
| 18 | 6.270 | SK | 2.625 | 4.375 | 1.250 | 2.125 | 2.125 | 1.297 | 3.875 | B | S | 3.90 |
| 19 | 6.590 | SK | 2.625 | 4.375 | 1.250 | 2.125 | 2.125 | 1.297 | 3.875 | B | S | 4.40 |
| 20 | 6.910 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | S | 5.30 |
| 21 | 7.240 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | S | 5.70 |
| 22 | 7.560 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | S | 6.30 |
| 23 | 7.880 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 6.80 |
| 24 | 8.200 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 7.50 |
| 25 | 8.520 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 8.00 |
| 26 | 8.840 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 8.60 |
| 27 | 9.160 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 9.40 |
| 28 | 9.480 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 10.20 |
| 30 | 10.110 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 11.30 |
| 32 | 10.750 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 13.00 |
| 33 | 11.070 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 13.50 |
| 34 | 11.390 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 14.10 |
| 35 | 11.710 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 15.50 |
| 36 | 12.030 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 16.90 |
| 40 | 13.310 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 20.60 |
| 42 | 13.940 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 22.40 |
| 45 | 14.900 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 25.10 |
| 48 | 15.860 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 28.60 |
| 54 | 17.770 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 36.80 |
| 60 | 19.680 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.422 | 4.625 | B | E | 45.80 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS

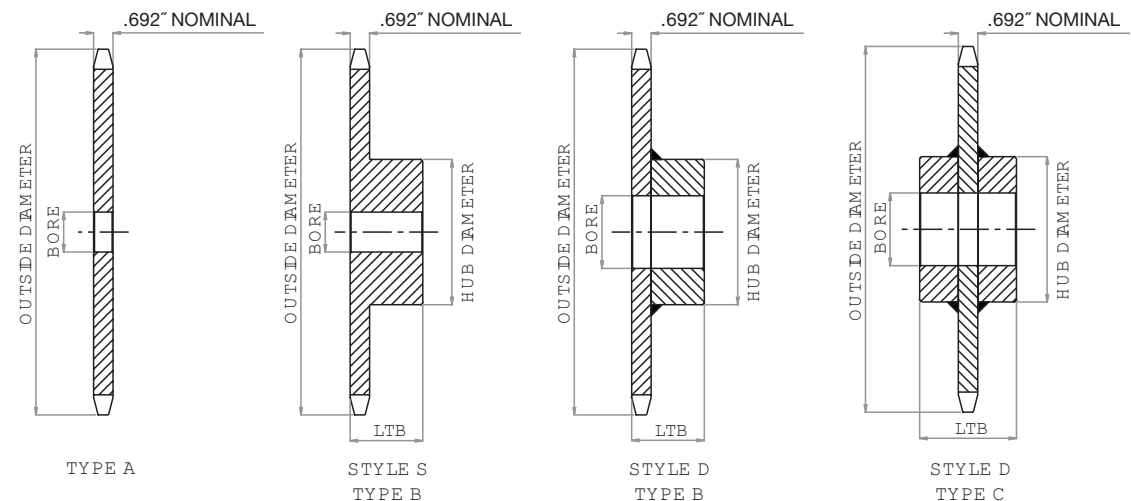
No. 100 Pitch: **PLAIN BORE**

| Chain Data | |
|----------------------|--------|
| Size | 100 |
| Pitch | 1 1/4" |
| Inside Width | 3/4" |
| Roller Diameter | 0.750" |
| Nominal Tooth Width: | 0.692" |

How to Order Code: Example Model # for 100 Pitch Plain Bore Carbon Steel Sprockets

| A | 100 | B | 36 |
|-----------------------------|----------------------|---------------------------|----------------------------|
| A: Alteration Required | 100: 1 1/4" Pitch | A: No Hub Extension | 8 16 24 36 72 |
| | | | 9 17 25 40 80 |
| | | | 10 18 26 42 84 |
| | | | 11 19 27 45 90 |
| | | | 12 20 28 48 96 |
| | | | 13 21 30 54 |
| | | | 14 22 32 60 |
| | | | 15 23 35 70 |
| | | B: Hub Extension One Side | 8 16 24 36 |
| | | | 9 17 25 40 |
| | | | 10 18 26 42 |
| | | | 11 19 27 45 |
| C: Hub Extension Both Sides | 12 20 28 48 | | |
| | 13 21 30 | | |
| | 14 22 32 | | |
| | 15 23 35 | | |
| 54 72 90 | | | |
| 60 80 96 | | | |
| 70 84 | | | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 100

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

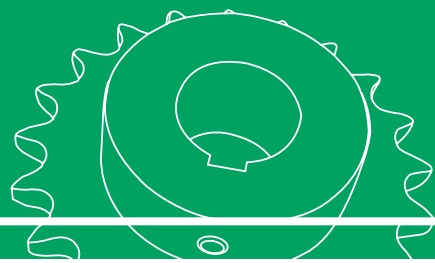
All dimensions in inches unless noted.

| No. Teeth | No. 100 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" & "C" Plain Bore | | | | | | |
|-----------|----------------------------------|------------|--------------|---------------------|----------|---------------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 8 | 3.770 | 3.266 | 2.516 | 1.000 | 1.40 | 1.000 | 1.250 | 2.438 □ | 1.875 | B | S | 2.30 |
| 9 | 4.180 | 3.655 | 2.849 | 1.000 | 1.60 | 1.000 | 1.625 | 2.813 □ | 1.875 | B | S | 3.20 |
| 10 | 4.600 | 4.045 | 3.295 | 1.000 | 2.00 | 1.000 | 1.875 | 3.250 □ | 1.875 | B | S | 4.10 |
| 11 | 5.010 | 4.438 | 3.642 | 1.250 | 2.50 | 1.000 | 2.250 | 3.563 □ | 1.875 | B | S | 5.30 |
| 12 | 5.420 | 4.830 | 4.080 | 1.250 | 3.00 | 1.000 | 2.250 | 4.000 □ | 1.875 | B | S | 6.40 |
| 13 | 5.820 | 5.224 | 4.435 | 1.250 | 3.50 | 1.000 | 2.375 | 3.875 | 1.625 | B | S | 6.50 |
| 14 | 6.230 | 5.618 | 4.868 | 1.250 | 4.10 | 1.250 | 2.750 | 4.188 | 1.625 | B | S | 7.40 |
| 15 | 6.630 | 6.013 | 5.229 | 1.250 | 4.70 | 1.250 | 3.000 | 4.500 | 1.750 | B | D | 9.20 |
| 16 | 7.030 | 6.408 | 5.658 | 1.250 | 5.40 | 1.313 | 3.000 | 4.500 | 1.750 | B | D | 9.90 |
| 17 | 7.440 | 6.803 | 6.024 | 1.250 | 6.10 | 1.313 | 3.000 | 4.500 | 1.750 | B | D | 10.80 |
| 18 | 7.840 | 7.199 | 6.449 | 1.250 | 7.00 | 1.313 | 3.000 | 4.500 | 1.750 | B | D | 11.50 |
| 19 | 8.240 | 7.595 | 6.819 | 1.250 | 7.80 | 1.313 | 3.000 | 4.500 | 2.000 | B | D | 13.10 |
| 20 | 8.640 | 7.990 | 7.240 | 1.250 | 8.80 | 1.313 | 3.000 | 4.500 | 2.000 | B | D | 14.20 |
| 21 | 9.040 | 8.388 | 7.613 | 1.250 | 9.80 | 1.313 | 3.000 | 4.500 | 2.000 | B | D | 15.30 |
| 22 | 9.440 | 8.784 | 8.034 | 1.250 | 10.50 | 1.313 | 3.000 | 4.500 | 2.000 | B | D | 16.10 |
| 23 | 9.840 | 9.180 | 8.409 | 1.250 | 11.80 | 1.250 | 3.000 | 4.500 | 2.000 | B | D | 17.20 |
| 24 | 10.250 | 9.576 | 8.826 | 1.250 | 12.80 | 1.250 | 3.000 | 4.500 | 2.000 | B | D | 19.20 |
| 25 | 10.660 | 9.974 | 9.204 | 1.250 | 13.90 | 1.250 | 3.000 | 4.500 | 2.000 | B | D | 19.50 |
| 26 | 11.050 | 10.370 | 9.620 | 1.250 | 15.00 | 1.250 | 3.313 | 5.000 | 2.000 | B | D | 21.70 |
| 27 | 11.440 | 10.768 | 9.999 | 1.250 | 16.00 | 1.250 | 3.313 | 5.000 | 2.000 | B | D | 23.00 |
| 28 | 11.840 | 11.164 | 10.414 | 1.250 | 17.40 | 1.250 | 3.313 | 5.000 | 2.000 | B | D | 24.40 |
| 30 | 12.640 | 11.959 | 11.209 | 1.250 | 20.10 | 1.250 | 3.313 | 5.000 | 2.000 | B | D | 26.90 |
| 32 | 13.440 | 12.753 | 12.003 | 1.250 | 22.60 | 1.250 | 3.313 | 5.000 | 2.000 | B | D | 29.80 |
| 35 | 14.640 | 13.945 | 13.181 | 1.250 | 27.20 | 1.250 | 3.313 | 5.000 | 2.500 | B | D | 36.90 |
| 36 | 15.040 | 14.343 | 13.593 | 1.250 | 30.00 | 1.250 | 3.313 | 5.000 | 2.500 | B | D | 38.60 |
| 40 | 16.630 | 15.933 | 15.183 | 1.250 | 36.00 | 1.250 | 3.313 | 5.000 | 2.500 | B | D | 46.90 |
| 42 | 17.430 | 16.728 | 15.978 | 1.250 | 40.00 | 1.250 | 3.313 | 5.000 | 2.500 | B | D | 50.40 |
| 45 | 18.630 | 17.920 | 17.159 | 1.500 | 47.00 | 1.500 | 3.313 | 5.000 | 2.500 | B | D | 54.00 |
| 48 | 19.820 | 19.113 | 18.363 | 1.500 | 54.00 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 66.00 |
| 54 | 22.210 | 21.498 | 20.748 | 1.500 | 68.00 | 1.500 | 4.000 | 6.000 | 3.250 | C | D | 78.00 |
| 60 | 24.600 | 23.884 | 23.134 | 1.500 | 80.00 | 1.500 | 4.000 | 6.000 | 3.250 | C | D | 89.00 |
| 70 | 28.580 | 27.861 | 27.111 | 1.500 | 113.00 | 1.500 | 5.250 | 7.000 | 3.750 | C | D | 125.00 |
| 72 | 29.380 | 28.657 | 27.908 | 1.500 | 119.00 | 1.500 | 5.250 | 7.000 | 3.750 | C | D | 134.00 |
| 80 | 32.570 | 31.839 | 31.089 | 1.500 | 146.00 | 1.500 | 5.250 | 7.000 | 3.750 | C | D | 151.00 |
| 84 | 34.160 | 33.430 | 32.680 | 1.500 | 162.00 | 1.500 | 5.250 | 7.000 | 3.750 | C | D | 170.00 |
| 90 | 36.550 | 35.817 | 35.068 | 1.500 | 193.00 | 1.500 | 5.250 | 7.000 | 3.750 | C | D | 184.00 |
| 96 | 38.930 | 38.204 | 37.454 | 1.500 | 215.00 | 1.500 | 5.250 | 7.000 | 4.500 | C | D | 203.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees
 □ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 100 1 1/4" Pitch: FINISHED BORE

| Chain Data | |
|----------------------|--------|
| Size | 100 |
| Pitch | 1 1/4" |
| Inside Width | 3/4" |
| Roller Diameter | 0.750" |
| Nominal Tooth Width: | 0.692" |

How to Order Code: Example Model # for 100 Pitch Finished Bore Carbon Steel Sprockets

| | | | | |
|-----|---|----|-----|----|
| 100 | B | 17 | F - | 2R |
|-----|---|----|-----|----|

| Chain Pitch in Inches | Hub Type | Number of Teeth | | Finished Bore | Hub Bore** | | |
|-----------------------|---------------------------|-----------------|----|--|------------|----------|----------|
| 100: 1 1/4" Pitch | B: Hub Extension One Side | 8 | 17 | F: Hub Extension Machined with keyway and two set screws | 1 | 1" | (1.000") |
| | | 9 | 18 | | 1C | 1-3/16" | (1.188") |
| | | 10 | 19 | | 1D | 1-1/4" | (1.250") |
| | | 11 | 20 | | 1G | 1-7/16" | (1.438") |
| | | 12 | 21 | | 1R | 1-15/16" | (1.938") |
| | | 13 | 22 | | 2 | 2" | (2.000") |
| | | 14 | 23 | | 2C | 2-3/16" | (2.188") |
| | | 15 | 24 | | 2G | 2-7/16" | (2.438") |
| | | 16 | 25 | | 2R | 2-15/16" | (2.938") |

** Hub bore size should be selected from dimensional table on the following page. Bore sizes that are not listed for a given # of sprocket teeth may be available per request as Altered.

No. 100

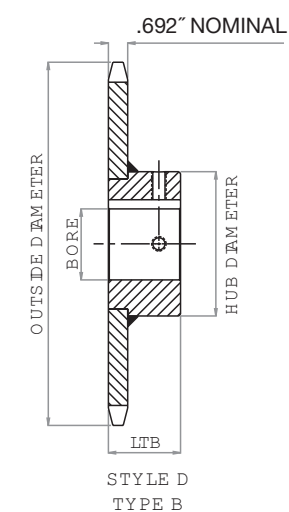
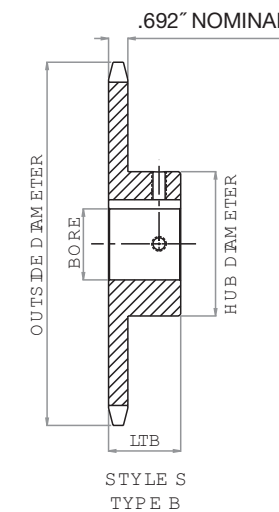
FINISHED BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. Teeth | No. 100 Finished Bore Sprocket Dia. | | | Type "F" Bored to Shaft Size (includes standard keyway and two set screws) | | | | | | | | |
|-----------|-------------------------------------|------------|--------------|--|--------|--------|--------|--------|--------|--------|--------|--------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | 1.000" | 1.188" | 1.250" | 1.438" | 1.938" | 2.000" | 2.188" | 2.438" | 2.938" |
| 8 | 3.770 | 3.266 | 2.516 | • | • | • | | | | | | |
| 9 | 4.180 | 3.655 | 2.849 | • | • | • | • | | | | | |
| 10 | 4.600 | 4.045 | 3.295 | • | • | • | • | | | | | |
| 11 | 5.010 | 4.438 | 3.642 | • | • | • | • | • | • | • | | |
| 12 | 5.420 | 4.830 | 4.080 | • | • | • | • | • | • | • | | |
| 13 | 5.820 | 5.224 | 4.435 | • | • | • | • | • | • | • | | |
| 14 | 6.230 | 5.618 | 4.868 | | | • | • | • | • | • | | |
| 15 | 6.630 | 6.013 | 5.229 | | | • | • | • | • | • | | |
| 16 | 7.030 | 6.408 | 5.658 | | | | • | • | • | • | • | • |
| 17 | 7.440 | 6.803 | 6.024 | | | | • | • | • | • | • | • |
| 18 | 7.840 | 7.199 | 6.449 | | | | • | • | • | • | • | • |
| 19 | 8.240 | 7.595 | 6.819 | | | | • | • | • | • | • | • |
| 20 | 8.640 | 7.990 | 7.240 | | | | • | • | • | • | • | • |
| 21 | 9.040 | 8.388 | 7.613 | | | | • | • | • | • | • | • |
| 22 | 9.440 | 8.784 | 8.034 | | | | • | • | • | • | • | • |
| 23 | 9.840 | 9.180 | 8.409 | | | | • | • | • | • | • | • |
| 24 | 10.250 | 9.576 | 8.826 | | | | • | • | • | • | • | • |
| 25 | 10.660 | 9.974 | 9.204 | | | | • | • | • | • | • | • |

• Denotes stocking item



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS

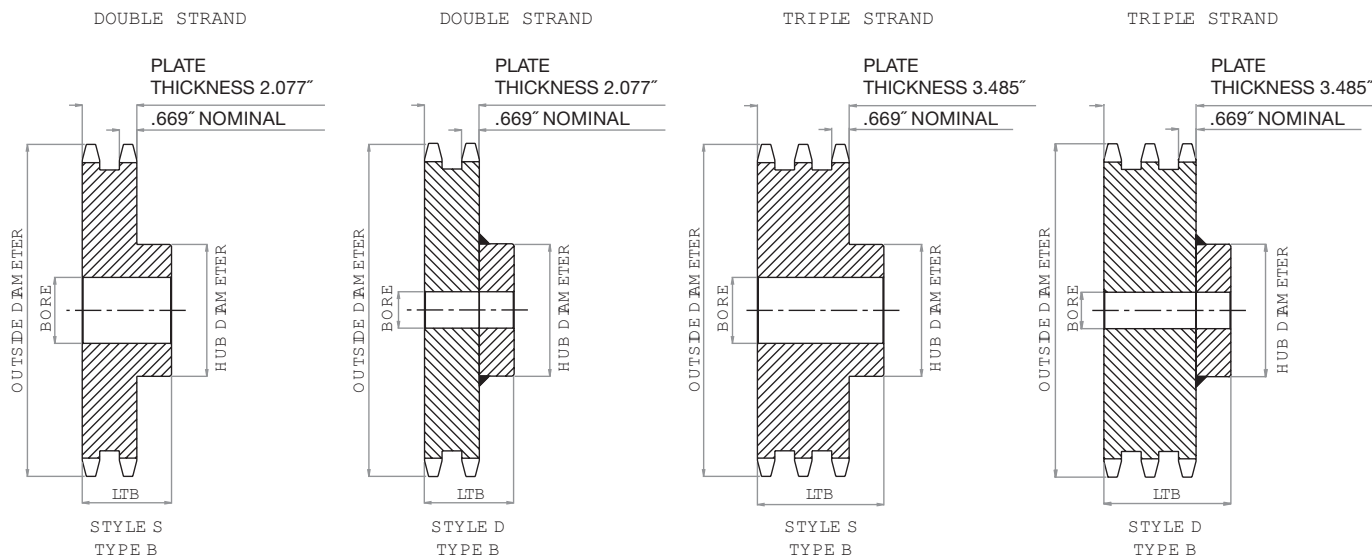
No. 100 1 1/4" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|--------------|
| Size | 100-2, 100-3 |
| Pitch | 1 1/4" |
| Inside Width | 3/4" |
| Roller Diameter | 0.750" |
| Nominal Tooth Width: | 0.669" |

How to Order Code: Example Model # for 100 Pitch Multi-Strand Carbon Steel Sprockets

| A | D | 100 | B | 25 | | | | |
|-------------------------------|-------------------------|--------------------------|----------------------------------|----------------------|----|----|----|----|
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 100: 1 1/4" Pitch | B: Hub Extension One Side | Double Strand | | | | |
| | | | | 9 | 14 | 19 | 24 | 35 |
| | | | | 10 | 15 | 20 | 25 | 36 |
| | | | | 11 | 16 | 21 | 26 | |
| | | | | 12 | 17 | 22 | 30 | |
| | 13 | | | 18 | 23 | 32 | | |
| | T: Triple Strand | | | Triple Strand | | | | |
| | | | | 12 | 16 | 20 | 24 | |
| | | | | 13 | 17 | 21 | 25 | |
| | | | | 14 | 18 | 22 | 26 | |
| 15 | | 19 | 23 | 30 | | | | |

¹¹Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 100

MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 100 Multi-Strand Sprocket Dia. | | | Dimensional Data: Double Strand Sprockets | | | | | |
|------------------------------------|------------------|------------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 9 | 4.180 | 1.000 | 2.375 | 2.875 | 1.625 | B | S | 4.60 |
| 10 | 4.600 | 1.000 | 2.375 | 2.875 | 1.875 | B | S | 6.20 |
| 11 | 5.010 | 1.000 | 3.125 | 2.875 | 2.125 | B | S | 7.90 |
| 12 | 5.420 | 1.125 | 3.375 | 2.875 | 2.250 | B | S | 9.30 |
| 13 | 5.820 | 1.125 | 3.813 | 2.875 | 2.500 | B | S | 11.40 |
| 14 | 6.230 | 1.125 | 4.188 | 2.875 | 2.750 | B | S | 13.60 |
| 15 | 6.630 | 1.250 | 4.625 | 3.125 | 3.125 | B | S | 17.10 |
| 16 | 7.030 | 1.250 | 5.000 | 3.125 | 3.313 | B | S | 20.10 |
| 17 | 7.440 | 1.250 | 5.250 | 3.125 | 3.500 | B | S | 23.10 |
| 18 | 7.840 | 1.250 | 5.250 | 3.125 | 3.500 | B | S | 25.40 |
| 19 | 8.240 | 1.250 | 5.500 | 3.375 | 3.750 | B | S | 29.60 |
| 20 | 8.640 | 1.250 | 5.500 | 3.375 | 3.750 | B | S | 32.40 |
| 21 | 9.040 | 1.250 | 5.500 | 3.375 | 3.750 | B | S | 35.30 |
| 22 | 9.440 | 1.250 | 5.500 | 3.375 | 3.750 | B | D | 38.40 |
| 23 | 9.840 | 1.250 | 5.500 | 3.375 | 3.750 | B | D | 41.30 |
| 24 | 10.250 | 1.250 | 5.750 | 3.375 | 3.750 | B | D | 45.10 |
| 25 | 10.660 | 1.250 | 5.750 | 3.375 | 3.750 | B | D | 48.50 |
| 26 | 11.050 | 1.500 | 5.750 | 3.375 | 3.750 | B | D | 51.50 |
| 30 | 12.640 | 1.500 | 5.750 | 3.375 | 3.750 | B | D | 65.00 |
| 32 | 13.440 | 1.500 | 5.750 | 3.375 | 3.750 | B | D | 69.00 |
| 35 | 14.640 | 1.500 | 6.000 | 4.250 | 3.813 | B | D | 75.00 |
| 36 | 15.038 | 1.500 | 6.000 | 4.500 | 4.000 | B | D | 90.80 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

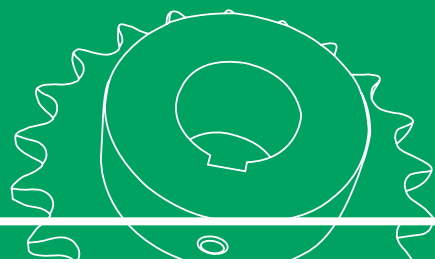
All dimensions in inches unless noted.

| No. 100 Multi-Strand Sprocket Dia. | | | Dimensional Data: Triple Strand Sprockets | | | | | |
|------------------------------------|------------------|------------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 12 | 5.420 | 1.125 | 3.375 | 4.250 | 2.250 | B | S | 13.70 |
| 13 | 5.820 | 1.125 | 3.813 | 4.250 | 2.500 | B | S | 16.90 |
| 14 | 6.230 | 1.125 | 4.188 | 4.250 | 2.750 | B | S | 20.20 |
| 15 | 6.630 | 1.250 | 4.625 | 4.500 | 3.125 | B | S | 25.00 |
| 16 | 7.030 | 1.250 | 5.000 | 4.500 | 3.313 | B | S | 29.30 |
| 17 | 7.440 | 1.250 | 5.250 | 4.500 | 3.500 | B | S | 33.80 |
| 18 | 7.840 | 1.250 | 5.250 | 4.750 | 3.500 | B | S | 38.60 |
| 19 | 8.240 | 1.250 | 5.500 | 4.750 | 3.750 | B | D | 43.30 |
| 20 | 8.640 | 1.250 | 5.500 | 4.750 | 3.750 | B | D | 47.90 |
| 21 | 9.040 | 1.250 | 5.500 | 4.750 | 3.750 | B | D | 52.30 |
| 22 | 9.440 | 1.250 | 5.500 | 4.750 | 3.750 | B | D | 57.50 |
| 23 | 9.840 | 1.250 | 5.500 | 4.750 | 3.750 | B | D | 62.50 |
| 24 | 10.250 | 1.250 | 5.750 | 4.750 | 3.750 | B | D | 69.00 |
| 25 | 10.660 | 1.250 | 5.750 | 4.750 | 3.750 | B | D | 73.00 |
| 26 | 11.050 | 1.500 | 5.750 | 4.750 | 3.813 | B | D | 79.00 |
| 30 | 12.640 | 1.500 | 5.750 | 4.750 | 3.813 | B | D | 103.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 100 1 1/4" Pitch: DOUBLE SINGLE

| Chain Data | |
|----------------------|--------|
| Size | 100 |
| Pitch | 1 1/4" |
| Inside Width | 3/4" |
| Roller Diameter | 0.750" |
| Nominal Tooth Width: | 0.692" |

How to Order Code: Example Model # for 100 Pitch Double Single Carbon Steel Sprockets

| | | | | |
|-------------------------------|--------------------------|--------------------------|----------------------------|-------------------------------------|
| A | DS | 100 | A | 19 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth |
| A: Alteration Required | DS: Double Single | 100: 1 1/4" Pitch | A: No Hub Extension | 13 17 21 14 18 15 19 16 20 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

How to Order Code: Example Model # for 100 Pitch Double Single TAPER-LOCK® Carbon Steel Sprockets

| | | | | | |
|-------------------------------|--------------------------|--------------------------|----------------------------|---------------------------------|----------------------------|
| A | DS | 100 | A | TL | 19 |
| Altered ^{!!} | Multi | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth |
| A: Alteration Required | DS: Double Single | 100: 1 1/4" Pitch | A: No Hub Extension | TAPER-LOCK® hub with set screws | 16 20 17 21 18 19 |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|-----------------|
| Bushing # | Bore Range |
| 2517 | 0.500 - 2.688" |
| 3020 | 0.8750 - 3.250" |

No. 100

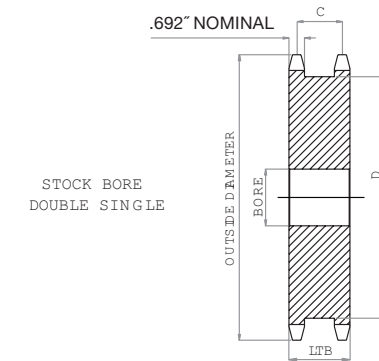
DOUBLE SINGLE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 100 Double Single Sprocket Diameters | | | Dimensional Data: Double Single Sprockets | | | | |
|--|--------------|------------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Dia. | Plain Bore | LTB | C | D | MAX Bore * | Weight Lbs. |
| 13 | 5.820 | 1.000 | 2.688 | 2.000 | 3.781 | 2.500 | 11.20 |
| 14 | 6.230 | 1.250 | 2.688 | 2.000 | 4.188 | 2.750 | 13.50 |
| 15 | 6.630 | 1.250 | 2.688 | 2.000 | 4.594 | 3.063 | 16.80 |
| 16 | 7.030 | 1.250 | 2.688 | 2.000 | 4.500 | 3.250 | 19.30 |
| 17 | 7.440 | 1.250 | 2.688 | 2.000 | 4.906 | 3.625 | 21.50 |
| 18 | 7.840 | 1.250 | 2.688 | 2.000 | 5.281 | 3.750 | 23.00 |
| 19 | 8.240 | 1.250 | 2.688 | 2.000 | 6.203 | 4.188 | 25.00 |
| 20 | 8.640 | 1.250 | 2.688 | 2.000 | 6.609 | 4.813 | 26.50 |
| 21 | 9.040 | 1.250 | 2.688 | 2.000 | 7.000 | 5.250 | 29.00 |

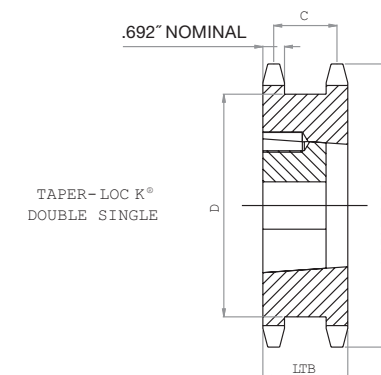
* Dimensions shown allow for standard keyway with set screw at 90 degrees



All dimensions in inches unless noted.

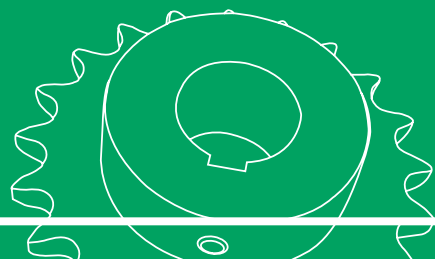
| No. 100 Double Single TAPER-LOCK® Sprocket Diameters | | | Dimensional Data: Double Single TAPER-LOCK® Sprockets | | | | |
|--|--------------|-----------|---|-------|-------|------------|-------------|
| No. Teeth | Outside Dia. | Bushing # | LTB | C | D | MAX Bore * | Weight Lbs. |
| 16 | 7.030 | 2517 | 2.688 | 2.000 | 5.000 | 2.688 | 13.00 |
| 17 | 7.440 | 3020 | 2.688 | 2.000 | 5.469 | 3.250 | 14.00 |
| 18 | 7.840 | 3020 | 2.688 | 2.000 | 5.797 | 3.250 | 16.00 |
| 19 | 8.240 | 3020 | 2.688 | 2.000 | 6.203 | 3.250 | 20.00 |
| 20 | 8.640 | 3020 | 2.688 | 2.000 | 6.906 | 3.250 | 24.00 |
| 21 | 9.040 | 3020 | 2.688 | 2.000 | 7.000 | 3.250 | 27.50 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 100 1 1/4" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 100 |
| Pitch | 1 1/4" |
| Inside Width | 3/4" |
| Roller Diameter | 0.750" |
| Nominal Tooth Width: | 0.692" |

How to Order Code: Example Model # for 100 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----------------------|---------------------------|---------------------------------|--|----|----|----|--|--|----|----|----|--|--|----|----|----|--|--|----|----|----|--|--|----|----|----|--|--|----|----|----|--|--|----|----|--|--|--|
| A | 100 | B | TL | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A: Alteration Required | 100: 1 1/4" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | <table border="1"> <tr> <td>11</td> <td>18</td> <td>28</td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>19</td> <td>30</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>20</td> <td>32</td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>21</td> <td>35</td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>22</td> <td>36</td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>24</td> <td>40</td> <td></td> <td></td> </tr> <tr> <td>17</td> <td>26</td> <td></td> <td></td> <td></td> </tr> </table> | 11 | 18 | 28 | | | 12 | 19 | 30 | | | 13 | 20 | 32 | | | 14 | 21 | 35 | | | 15 | 22 | 36 | | | 16 | 24 | 40 | | | 17 | 26 | | | |
| 11 | 18 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 19 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 20 | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 21 | 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 22 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 24 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 1615 | 0.500 - 1.688" |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |
| 3020 | 0.875 - 3.250" |

No. 100

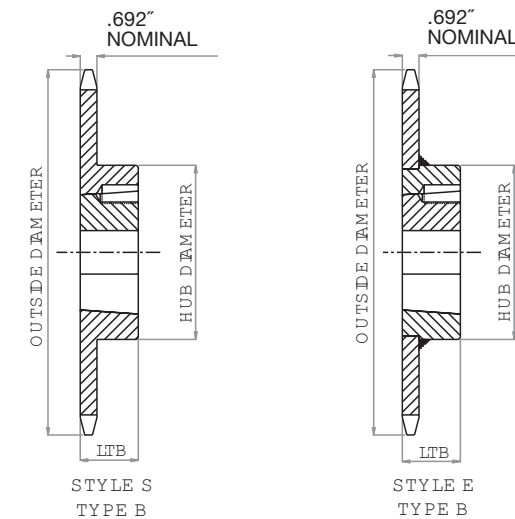
TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 100 TAPER-LOCK® Sprockets | | | Dimensional Data TAPER-LOCK® Sprockets | | | | | |
|-------------------------------|------------------|-----------|--|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 11 | 5.010 | 1615 | 3.000 | 1.500 | 1.688 | B | S | 2.70 |
| 12 | 5.420 | 1615 | 3.250 | 1.500 | 1.688 | B | S | 3.50 |
| 13 | 5.820 | 2012 | 3.563 | 1.250 | 2.125 | B | S | 3.60 |
| 14 | 6.230 | 2012 | 3.563 | 1.250 | 2.125 | B | S | 3.90 |
| 15 | 6.630 | 2517 | 4.250 | 1.750 | 2.688 | B | S | 5.00 |
| 16 | 7.030 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 6.40 |
| 17 | 7.440 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 7.10 |
| 18 | 7.840 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 7.80 |
| 19 | 8.240 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 8.70 |
| 20 | 8.640 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 9.60 |
| 21 | 9.040 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 10.60 |
| 22 | 9.440 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 11.00 |
| 24 | 10.250 | 2517 | 4.500 | 1.750 | 2.688 | B | E | 13.00 |
| 26 | 11.050 | 2517 | 5.250 | 1.750 | 2.688 | B | E | 15.00 |
| 28 | 11.840 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 16.50 |
| 30 | 12.640 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 22.00 |
| 32 | 13.440 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 23.00 |
| 35 | 14.640 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 28.00 |
| 36 | 15.040 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 31.00 |
| 40 | 16.630 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 37.00 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 100 1 1/4" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 100 |
| Pitch | 1 1/4" |
| Inside Width | 3/4" |
| Roller Diameter | 0.750" |
| Nominal Tooth Width: | 0.692" |

How to Order Code: Example Model # for 100 Pitch QD® Carbon Steel Sprockets

| A | 100 | SF | 17 | | | | |
|------------------------|-----------------------|-------------------------------------|-----------------|----|----|----|----|
| Altered ¹¹ | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 100: 1 1/4" Pitch | SDS: QD® Hub 11 - 12 tooth sprocket | 11 | | | | |
| | | | 12 | | | | |
| | | SK: QD® Hub 13 - 14 tooth sprocket | 13 | | | | |
| | | | 14 | | | | |
| | | SF: QD® Hub 15 - 17 tooth sprocket | 15 | | | | |
| | | | 16 | | | | |
| | | | 17 | | | | |
| | | E: QD® Hub 18 - 60 tooth sprocket | 18 | 22 | 26 | 32 | 42 |
| | | | 19 | 23 | 27 | 35 | 45 |
| | | | 20 | 24 | 28 | 36 | 48 |
| | | | 21 | 25 | 30 | 40 | 54 |
| | | | | | | | 60 |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| SDS | 0.500 - 2.000" |
| SK | 0.500 - 2.625" |
| SF | 0.500 - 2.938" |
| E | 0.875 - 3.500" |

No. 100

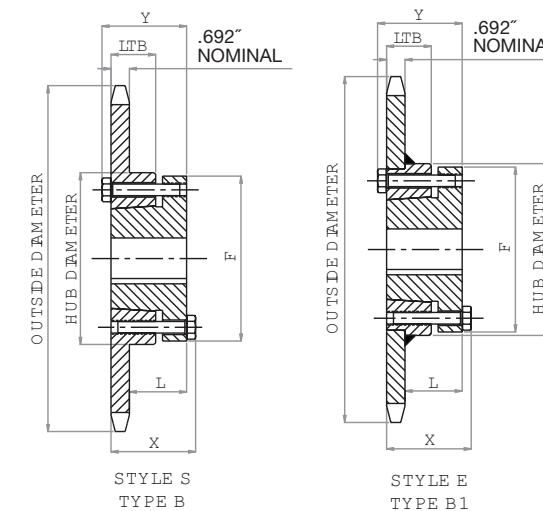
QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

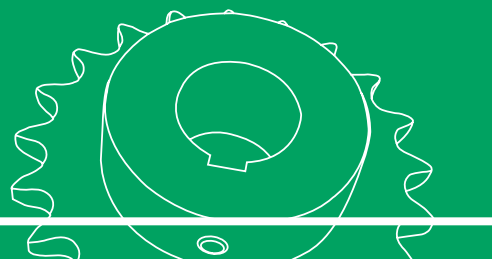
| No. 100 QD® Sprockets | | | Dimensional Data QD® Sprockets | | | | | | | | | |
|-----------------------|--------------|---------------|--------------------------------|----------|-------|-------|-------|-------|-------|----------|-----------|-------------|
| No. Teeth | Outside Dia. | QD® Bushing # | MAX Bore * | Hub Dia. | LTB | X | Y | L | F | Hub Type | Hub Style | Weight Lbs. |
| 11 | 5.010 | SDS | 2.000 | 3.188 | 0.750 | 1.500 | 1.500 | 0.625 | 3.188 | B | S | 2.00 |
| 12 | 5.420 | SDS | 2.000 | 3.500 | 0.750 | 1.500 | 1.500 | 0.625 | 3.188 | B | S | 2.60 |
| 13 | 5.820 | SK | 2.625 | 3.938 | 1.250 | 2.125 | 2.125 | 1.203 | 3.875 | B | S | 3.30 |
| 14 | 6.230 | SK | 2.625 | 4.250 | 1.250 | 2.125 | 2.125 | 1.203 | 3.875 | B | S | 4.10 |
| 15 | 6.630 | SF | 2.938 | 4.625 | 1.250 | 2.250 | 2.250 | 1.234 | 4.625 | B | S | 4.80 |
| 16 | 7.030 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.234 | 4.625 | B | S | 5.60 |
| 17 | 7.440 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.234 | 4.625 | B | S | 6.50 |
| 18 | 7.840 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | S | 9.00 |
| 19 | 8.240 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | S | 10.20 |
| 20 | 8.640 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | S | 11.60 |
| 21 | 9.040 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | S | 12.50 |
| 22 | 9.440 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 13.50 |
| 23 | 9.840 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 14.60 |
| 24 | 10.250 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 15.70 |
| 25 | 10.660 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 16.80 |
| 26 | 11.050 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 18.10 |
| 27 | 11.440 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 19.20 |
| 28 | 11.840 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 20.70 |
| 30 | 12.640 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 23.20 |
| 32 | 13.440 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 25.40 |
| 35 | 14.640 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 30.50 |
| 36 | 15.040 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 32.30 |
| 40 | 16.630 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 39.10 |
| 42 | 17.430 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.813 | 6.000 | B1 | E | 43.40 |
| 45 | 17.920 | E | 3.500 | 6.250 | 1.625 | 2.958 | 2.625 | 1.813 | 6.000 | B1 | E | 48.90 |
| 48 | 19.112 | E | 3.500 | 6.250 | 1.625 | 2.958 | 2.625 | 1.813 | 6.000 | B1 | E | 54.00 |
| 54 | 21.498 | E | 3.500 | 6.250 | 1.625 | 2.958 | 2.625 | 1.813 | 6.000 | B1 | E | 62.00 |
| 60 | 23.884 | E | 3.500 | 6.250 | 1.625 | 2.958 | 2.625 | 1.813 | 6.000 | B1 | E | 74.00 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



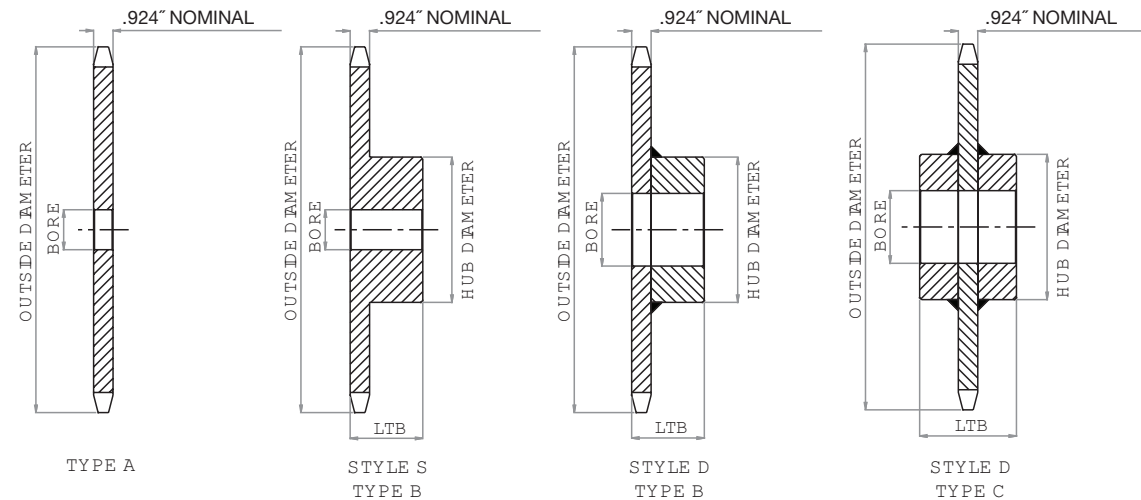
No. 120 1 1/2" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 120 |
| Pitch | 1 1/2" |
| Inside Width | 1.00" |
| Roller Diameter | 0.875" |
| Nominal Tooth Width: | 0.924" |

How to Order Code: Example Model # for 120 Pitch Plain Bore Carbon Steel Sprockets

| A | 120 | B | 17 |
|------------------------|-----------------------|-----------------------------|-----------------|
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth |
| A: Alteration Required | 120: 1 1/2" Pitch | A: No Hub Extension | 9 16 23 32 54 |
| | | | 10 17 24 35 60 |
| | | | 11 18 25 36 70 |
| | | | 12 19 26 40 80 |
| | | | 13 20 27 42 |
| | | | 14 21 28 45 |
| | | | 15 22 30 48 |
| | | B: Hub Extension One Side | 9 16 23 32 |
| | | | 10 17 24 35 |
| | | | 11 18 25 36 |
| | | | 12 19 26 |
| | | | 13 20 27 |
| | | | 14 21 28 |
| | | C: Hub Extension Both Sides | 40 54 |
| | | | 42 60 |
| | | | 45 70 |
| | | | 48 80 |

¹⁾Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 120

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

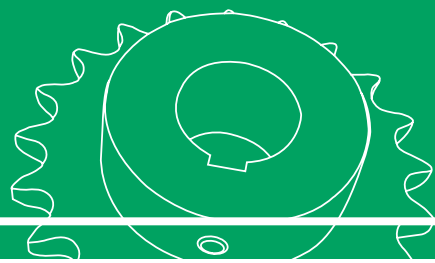
All dimensions in inches unless noted.

| No. Teeth | No. 120 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" & "C" Plain Bore | | | | | | |
|-----------|----------------------------------|------------|--------------|---------------------|----------|---------------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 9 | 5.020 | 4.386 | 3.444 | 1.250 | 3.00 | 1.375 | 1.813 | 3.375 □ | 2.250 | B | S | 5.30 |
| 10 | 5.520 | 4.854 | 3.979 | 1.250 | 3.80 | 1.375 | 2.250 | 3.750 □ | 2.250 | B | S | 7.10 |
| 11 | 6.010 | 5.325 | 4.395 | 1.250 | 4.80 | 1.375 | 2.375 | 3.563 | 2.125 | B | S | 7.60 |
| 12 | 6.500 | 5.796 | 4.921 | 1.250 | 5.80 | 1.375 | 2.750 | 4.125 | 2.125 | B | S | 9.90 |
| 13 | 6.990 | 6.269 | 5.347 | 1.250 | 6.70 | 1.375 | 3.000 | 4.563 | 2.250 | B | S | 12.40 |
| 14 | 7.470 | 6.741 | 5.866 | 1.250 | 8.00 | 1.375 | 3.250 | 4.750 | 2.250 | B | D | 14.40 |
| 15 | 7.960 | 7.215 | 6.300 | 1.250 | 9.10 | 1.250 | 3.250 | 4.750 | 2.375 | B | D | 16.70 |
| 16 | 8.440 | 7.689 | 6.814 | 1.250 | 10.60 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 19.90 |
| 17 | 8.920 | 8.163 | 7.254 | 1.250 | 12.60 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 20.80 |
| 18 | 9.410 | 8.639 | 7.764 | 1.250 | 13.60 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 22.20 |
| 19 | 9.890 | 9.114 | 8.207 | 1.250 | 15.10 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 24.80 |
| 20 | 10.370 | 9.588 | 8.713 | 1.250 | 16.90 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 25.80 |
| 21 | 10.850 | 10.065 | 9.161 | 1.250 | 18.70 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 26.70 |
| 22 | 11.330 | 10.541 | 9.666 | 1.250 | 20.00 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 28.20 |
| 23 | 11.810 | 11.016 | 10.115 | 1.250 | 22.10 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 30.30 |
| 24 | 12.290 | 11.492 | 10.617 | 1.250 | 24.80 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 32.10 |
| 25 | 12.770 | 11.969 | 11.070 | 1.250 | 26.80 | 1.250 | 3.500 | 5.250 | 2.375 | B | D | 34.60 |
| 26 | 13.250 | 12.444 | 11.569 | 1.500 | 28.30 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 40.00 |
| 27 | 13.730 | 12.921 | 12.024 | 1.500 | 30.90 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 43.15 |
| 28 | 14.210 | 13.397 | 12.522 | 1.500 | 33.60 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 44.90 |
| 30 | 15.170 | 14.351 | 13.476 | 1.500 | 39.00 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 50.20 |
| 32 | 16.130 | 15.303 | 14.428 | 1.500 | 43.90 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 56.00 |
| 35 | 17.570 | 16.734 | 15.842 | 1.500 | 52.00 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 62.40 |
| 36 | 18.050 | 17.211 | 16.336 | 1.500 | 56.00 | 1.500 | 4.000 | 6.000 | 2.500 | B | D | 66.40 |
| 40 | 19.960 | 19.119 | 18.244 | 1.500 | 71.00 | 1.500 | 4.000 | 6.000 | 3.750 | C | D | 92.00 |
| 42 | 20.920 | 20.073 | 19.198 | 1.500 | 75.00 | 1.500 | 4.000 | 6.000 | 3.750 | C | D | 98.00 |
| 45 | 22.350 | 21.504 | 20.615 | 1.500 | 88.00 | 1.500 | 4.000 | 6.000 | 3.750 | C | D | 99.20 |
| 48 | 23.790 | 22.935 | 22.060 | 1.500 | 103.00 | 1.500 | 4.000 | 6.000 | 4.000 | C | D | 113.00 |
| 54 | 26.650 | 25.797 | 24.922 | 1.500 | 140.00 | 1.500 | 4.000 | 6.000 | 4.000 | C | D | 133.00 |
| 60 | 29.520 | 28.661 | 27.786 | 1.500 | 160.00 | 1.500 | 5.250 | 7.000 | 4.000 | C | D | 160.00 |
| 70 | 34.300 | 33.434 | 32.559 | 1.500 | 216.00 | 1.500 | 5.375 | 7.500 | 4.500 | C | D | 206.00 |
| 80 | 39.080 | 38.207 | 37.332 | 1.500 | 284.00 | 1.500 | 5.375 | 7.500 | 4.500 | C | D | 254.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees
 □ Has recessed groove in hub for chain clearance

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 120 1 1/2" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|--------|
| Size | 120 |
| Pitch | 1 1/2" |
| Inside Width | 1.00" |
| Roller Diameter | 0.875" |
| Nominal Tooth Width: | 0.894" |

How to Order Code: Example Model # for 120 Pitch Multi-Strand Carbon Steel Sprockets

| | | | | | | | | |
|-------------------------------|-------------------------|--------------------------|----------------------------------|-----------------|----|----|----|----|
| A | D | 120 | B | 25 | | | | |
| Altered ¹⁾ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 120: 1 1/2" Pitch | B: Hub Extension One Side | 11 | 15 | 19 | 23 | 30 |
| | | | | 12 | 16 | 20 | 24 | |
| | | | | 13 | 17 | 21 | 25 | |
| | | | | 14 | 18 | 22 | 26 | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 120

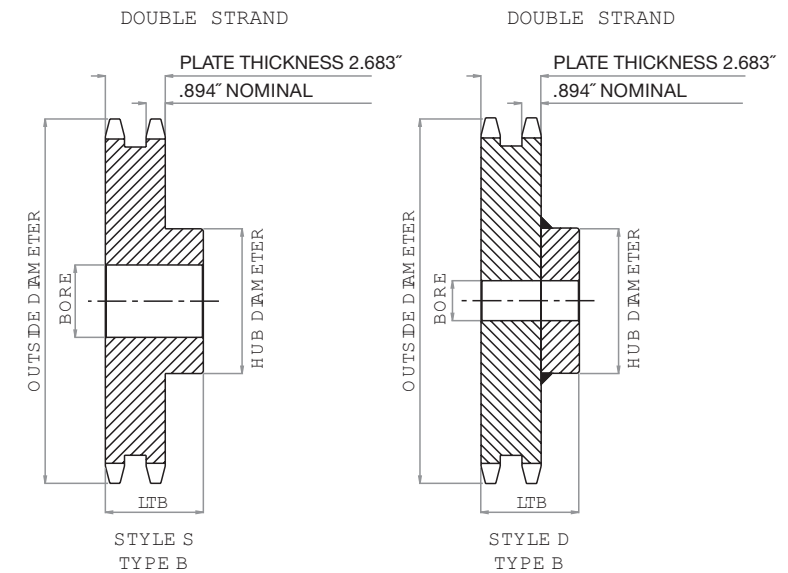
MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

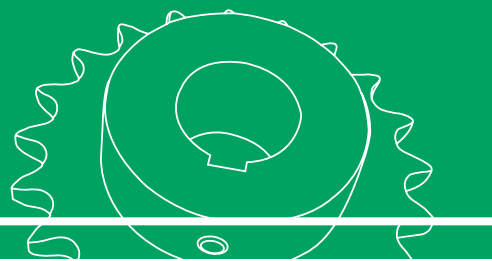
| No. 120 Multi-Strand Sprocket Dia. | | | Dimensional Data: Double Strand Sprockets | | | | | |
|------------------------------------|------------------|------------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 11 | 6.010 | 1.500 | 3.563 | 3.750 | 2.375 | B | S | 13.60 |
| 12 | 6.500 | 1.500 | 4.063 | 3.750 | 2.375 | B | S | 17.30 |
| 13 | 6.990 | 1.500 | 4.500 | 3.750 | 3.000 | B | S | 21.10 |
| 14 | 7.470 | 1.500 | 5.000 | 3.750 | 3.313 | B | S | 25.60 |
| 15 | 7.960 | 1.500 | 5.250 | 3.750 | 3.500 | B | S | 29.90 |
| 16 | 8.440 | 1.500 | 5.250 | 3.750 | 3.500 | B | S | 33.80 |
| 17 | 8.920 | 1.500 | 5.250 | 3.750 | 3.500 | B | S | 36.90 |
| 18 | 9.410 | 1.500 | 5.250 | 3.750 | 3.500 | B | S | 41.90 |
| 19 | 9.890 | 1.500 | 5.250 | 3.750 | 3.500 | B | S | 46.50 |
| 20 | 10.370 | 1.500 | 5.500 | 3.750 | 3.500 | B | S | 50.20 |
| 21 | 10.850 | 1.500 | 5.500 | 3.750 | 3.500 | B | S | 55.60 |
| 22 | 11.330 | 1.500 | 5.750 | 4.000 | 3.813 | B | S | 64.00 |
| 23 | 11.810 | 1.500 | 6.500 | 4.000 | 4.500 | B | S | 75.00 |
| 24 | 12.290 | 1.500 | 6.500 | 4.000 | 4.500 | B | D | 79.00 |
| 25 | 12.770 | 1.500 | 6.500 | 4.000 | 4.500 | B | D | 84.00 |
| 26 | 13.250 | 1.500 | 6.500 | 4.000 | 4.500 | B | D | 90.00 |
| 30 | 15.170 | 1.500 | 6.500 | 4.000 | 4.500 | B | D | 119.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 120 1 1/2" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 120 |
| Pitch | 1 1/2" |
| Inside Width | 1.00" |
| Roller Diameter | 0.875" |
| Nominal Tooth Width: | 0.924" |

How to Order Code: Example Model # for 120 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|-----------------------------|---------------------------------|-----------------|----|----|--|--|
| A | 120 | B | TL | 19 | | | | |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | 120: 1 1/2" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | 12 | 17 | 21 | | |
| | | | | 14 | 18 | 24 | | |
| | | | | 15 | 19 | 26 | | |
| | | C: Hub Extension Both Sides | | 16 | 20 | 30 | | |
| | | | | 35 | 60 | | | |
| | | | | 36 | 70 | | | |
| 45 | 80 | | | | | | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 2012 | 0.500 - 2.125" |
| 2517 | 0.500 - 2.688" |
| 3020 | 0.875 - 3.250" |
| 3030 | 0.938 - 3.250" |
| 3535 | 1.188 - 3.938" |

No. 120

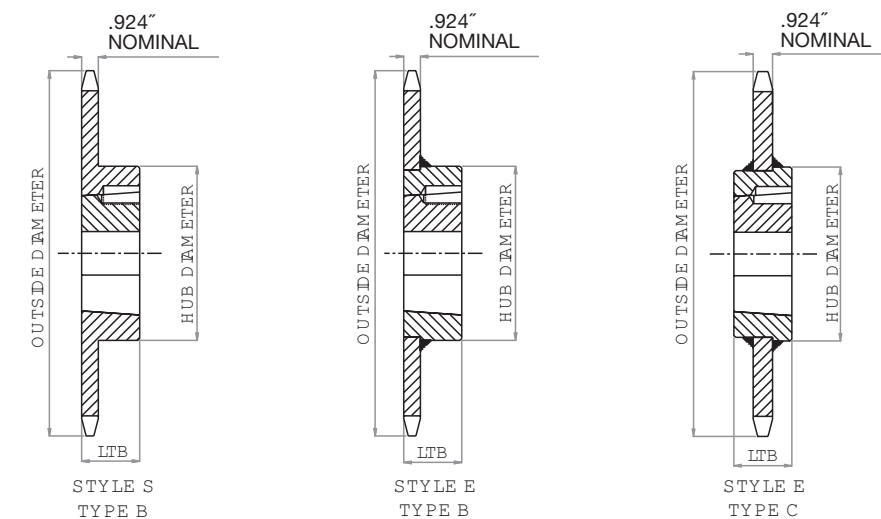
TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. 120 TAPER-LOCK® Sprockets | | | Dimensional Data TAPER-LOCK® Sprockets | | | | | |
|-------------------------------|------------------|-----------|--|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 12 | 6.500 | 2012 | 3.563 | 1.250 | 2.125 | B | S | 5.50 |
| 13 | 6.990 | 2517 | 4.250 | 1.750 | 2.688 | B | S | 6.00 |
| 14 | 7.470 | 2517 | 4.250 | 1.750 | 2.688 | B | E | 7.00 |
| 15 | 7.960 | 2517 | 4.250 | 1.750 | 2.688 | B | E | 8.00 |
| 16 | 8.440 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 10.00 |
| 17 | 8.920 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 11.00 |
| 18 | 9.410 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 12.00 |
| 19 | 9.890 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 14.00 |
| 20 | 10.370 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 15.50 |
| 21 | 10.850 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 17.50 |
| 24 | 12.290 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 23.50 |
| 26 | 13.250 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 28.50 |
| 35 | 17.570 | 3020 | 5.250 | 2.000 | 3.250 | C | E | 33.50 |
| 36 | 18.050 | 3020 | 5.250 | 2.000 | 3.250 | C | E | 54.00 |
| 45 | 22.350 | 3030 | 5.875 | 3.000 | 3.250 | C | E | 82.00 |
| 60 | 29.520 | 3535 | 6.500 | 3.500 | 3.938 | C | E | 140.00 |
| 70 | 34.300 | 3535 | 6.500 | 3.500 | 3.938 | C | E | 175.00 |
| 80 | 39.080 | 3535 | 6.500 | 3.500 | 3.938 | C | E | 220.00 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 120 1 1/2" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 120 |
| Pitch | 1 1/2" |
| Inside Width | 1.00" |
| Roller Diameter | 0.875" |
| Nominal Tooth Width: | 0.924" |

How to Order Code: Example Model # for 120 Pitch QD® Carbon Steel Sprockets

| A | 120 | E | 17 | | | | | |
|------------------------|-----------------------|------------------------------------|-----------------|----|----|----|----|--|
| Altered ¹ | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | | | |
| A: Alteration Required | 120: 1 1/2" Pitch | SF: QD® Hub 12 - 15 tooth sprocket | 12 | 15 | | | | |
| | | | 13 | | | | | |
| | | | 14 | | | | | |
| | | E: QD® Hub 16 - 30 tooth sprocket | 16 | 19 | 22 | 25 | 30 | |
| | | | 17 | 20 | 23 | 26 | | |
| | | | 18 | 21 | 24 | 28 | | |
| | | F: QD® Hub 32 - 54 tooth sprocket | 35 | 42 | 54 | | | |
| | | | 36 | 45 | | | | |
| | | | 40 | 48 | | | | |
| | | J: QD® Hub 60 - 80 tooth sprocket | 60 | | | | | |
| | | | 70 | | | | | |
| | | | 80 | | | | | |

¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| SF | 0.500 - 2.938" |
| E | 0.875 - 3.500" |
| F | 1.000 - 4.000" |
| J | 1.500 - 4.500" |

No. 120

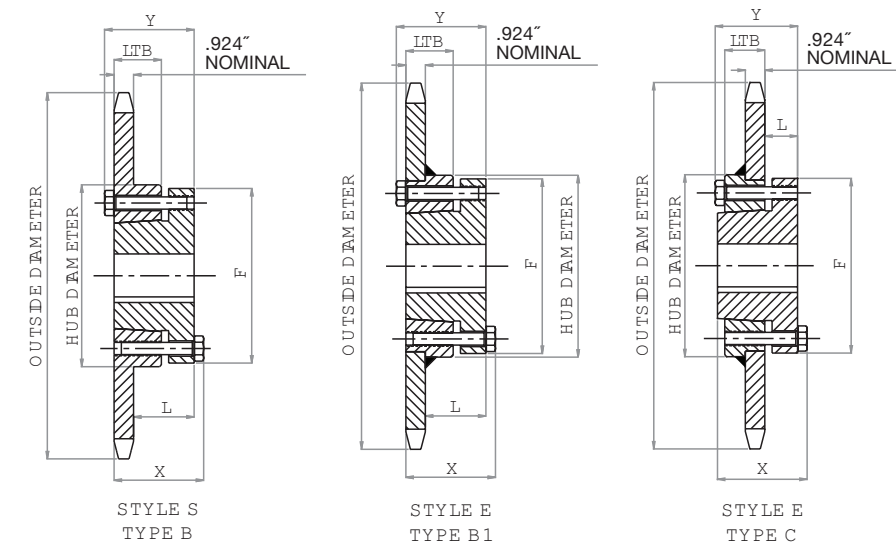
QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

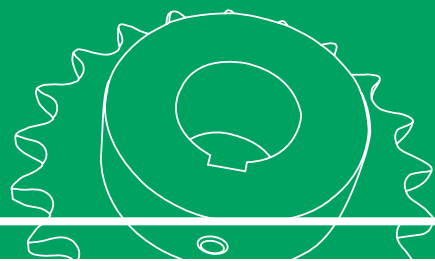
| No. 120 QD® Sprockets | | | Dimensional Data QD® Sprockets | | | | | | | | | |
|-----------------------|--------------|---------------|--------------------------------|----------|-------|-------|-------|--------|-------|----------|-----------|-------------|
| No. Teeth | Outside Dia. | QD® Bushing # | MAX Bore * | Hub Dia. | LTB | X | Y | L | F | Hub Type | Hub Style | Weight Lbs. |
| 12 | 6.500 | SF | 2.938 | 4.375 | 1.250 | 2.250 | 2.250 | 1.078 | 4.625 | B | S | 4.70 |
| 13 | 6.990 | SF | 2.938 | 4.625 | 1.250 | 2.250 | 2.250 | 1.078 | 4.625 | B | S | 6.10 |
| 14 | 7.470 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.078 | 4.625 | B | S | 7.40 |
| 15 | 7.960 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.078 | 4.625 | B | S | 8.00 |
| 16 | 8.440 | E | 3.500 | 6.125 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | S | 11.20 |
| 17 | 8.920 | E | 3.500 | 6.125 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | S | 13.40 |
| 18 | 9.410 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 14.80 |
| 19 | 9.890 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 16.50 |
| 20 | 10.370 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 19.20 |
| 21 | 10.850 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 19.90 |
| 22 | 11.330 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 21.60 |
| 23 | 11.810 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 23.80 |
| 24 | 12.290 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 25.80 |
| 25 | 12.770 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 28.10 |
| 26 | 13.250 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 29.90 |
| 28 | 14.210 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 34.70 |
| 30 | 15.170 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 39.40 |
| 32 | 16.130 | F | 4.000 | 7.000 | 2.500 | 4.000 | 2.625 | 1.000 | 6.625 | C | E | 50.50 |
| 35 | 17.570 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 59.50 |
| 36 | 18.050 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 63.40 |
| 40 | 19.960 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 77.00 |
| 42 | 20.920 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 83.00 |
| 45 | 22.350 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 84.00 |
| 48 | 23.790 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 92.00 |
| 54 | 26.650 | F | 4.000 | 8.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 114.00 |
| 60 | 29.520 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.1875 | 7.250 | C | E | 140.00 |
| 70 | 34.300 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.1875 | 7.250 | C | E | 177.00 |
| 80 | 39.080 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.1875 | 7.250 | C | E | 222.00 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 140 1 3/4" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 140 |
| Pitch | 1 3/4" |
| Inside Width | 1.000" |
| Roller Diameter | 1.000" |
| Nominal Tooth Width: | 0.924" |

How to Order Code: Example Model # for 140 Pitch Plain Bore Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|-----------------------------|-----------------|----|----|----|----|--|
| A | 140 | C | 40 | | | | | |
| Altered ¹¹ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | |
| A: Alteration Required | 140: 1 3/4" Pitch | A: No Hub Extension | 11 | 17 | 23 | 32 | 54 | |
| | | | 12 | 18 | 24 | 35 | 60 | |
| | | | 13 | 19 | 25 | 36 | 70 | |
| | | | 14 | 20 | 26 | 40 | 80 | |
| | | | 15 | 21 | 28 | 45 | | |
| | | | 16 | 22 | 30 | 48 | | |
| | | B: Hub Extension One Side | 11 | 17 | 23 | 32 | | |
| | | | 12 | 18 | 24 | | | |
| | | | 13 | 19 | 25 | | | |
| | | | 14 | 20 | 26 | | | |
| | | | 15 | 21 | 28 | | | |
| | | | 16 | 22 | 30 | | | |
| | | C: Hub Extension Both Sides | 35 | 48 | 80 | | | |
| | | | 36 | 54 | | | | |
| | | | 40 | 60 | | | | |
| | | | 45 | 70 | | | | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 140

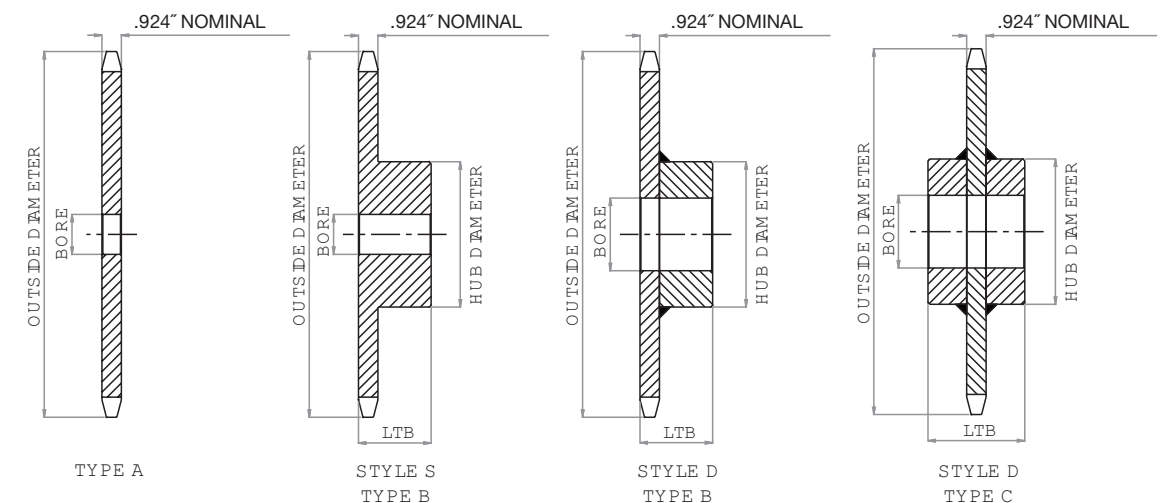
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

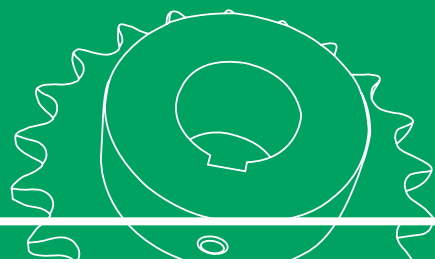
| No. Teeth | No. 140 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" & "C" Plain Bore | | | | | | |
|-----------|----------------------------------|------------|--------------|---------------------|----------|---------------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 11 | 7.010 | 6.213 | 5.148 | 1.500 | 5.00 | 1.500 | 2.750 | 4.250 | 2.250 | B | S | 11.30 |
| 12 | 7.580 | 6.762 | 5.762 | 1.500 | 7.80 | 1.500 | 3.000 | 4.500 | 2.250 | B | D | 13.20 |
| 13 | 8.150 | 7.313 | 6.259 | 1.500 | 8.20 | 1.500 | 3.563 | 5.313 | 2.375 | B | D | 18.90 |
| 14 | 8.720 | 7.865 | 6.865 | 1.500 | 10.00 | 1.500 | 3.750 | 5.500 | 2.375 | B | D | 20.40 |
| 15 | 9.280 | 8.418 | 7.371 | 1.500 | 11.00 | 1.500 | 4.250 | 6.250 | 2.375 | B | D | 25.10 |
| 16 | 9.850 | 8.971 | 7.971 | 1.500 | 14.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 27.90 |
| 17 | 10.410 | 9.524 | 8.483 | 1.500 | 16.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 29.80 |
| 18 | 10.980 | 10.078 | 9.078 | 1.500 | 18.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 32.00 |
| 19 | 11.540 | 10.633 | 9.596 | 1.500 | 21.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 34.10 |
| 20 | 12.100 | 11.186 | 10.186 | 1.500 | 23.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 36.00 |
| 21 | 12.660 | 11.743 | 10.709 | 1.500 | 25.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 38.70 |
| 22 | 13.220 | 12.297 | 11.297 | 1.500 | 28.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 40.60 |
| 23 | 13.780 | 12.852 | 11.822 | 1.500 | 30.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 42.10 |
| 24 | 14.340 | 13.407 | 12.407 | 1.500 | 33.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 46.20 |
| 25 | 14.900 | 13.963 | 12.935 | 1.500 | 34.00 | 1.500 | 4.250 | 6.250 | 2.500 | B | D | 47.80 |
| 26 | 15.460 | 14.518 | 13.518 | 1.500 | 39.00 | 1.500 | 4.250 | 6.250 | 3.000 | B | D | 57.20 |
| 28 | 16.580 | 15.629 | 14.629 | 1.500 | 45.00 | 1.500 | 4.250 | 6.250 | 3.000 | B | D | 62.20 |
| 30 | 17.700 | 16.742 | 15.742 | 1.500 | 52.00 | 1.500 | 4.250 | 6.250 | 3.000 | B | D | 69.80 |
| 32 | 18.820 | 17.854 | 16.854 | 1.500 | 60.00 | 1.500 | 4.250 | 6.250 | 3.000 | B | D | 76.30 |
| 35 | 20.490 | 19.523 | 18.503 | 1.500 | 73.00 | 1.500 | 5.250 | 7.000 | 4.000 | C | D | 108.00 |
| 36 | 21.050 | 20.080 | 19.080 | 1.500 | 77.00 | 1.500 | 5.250 | 7.000 | 4.000 | C | D | 115.00 |
| 40 | 23.290 | 22.306 | 21.306 | 1.500 | 93.00 | 1.500 | 5.250 | 7.000 | 4.000 | C | D | 121.00 |
| 45 | 26.080 | 25.088 | 24.072 | 1.500 | 131.00 | 1.500 | 5.250 | 7.000 | 4.000 | C | D | 142.00 |
| 48 | 27.750 | 26.758 | 25.758 | 1.500 | 134.00 | 1.500 | 5.250 | 7.000 | 4.000 | C | D | 150.00 |
| 54 | 31.100 | 30.097 | 29.097 | 1.500 | 173.00 | 1.500 | 5.250 | 7.000 | 4.000 | C | D | 177.00 |
| 60 | 34.400 | 33.437 | 32.437 | 1.500 | 219.00 | 1.500 | 5.250 | 7.000 | 5.000 | C | D | 220.00 |
| 70 | 40.020 | 39.006 | 38.006 | 1.500 | 292.00 | 1.500 | 5.375 | 7.500 | 5.000 | C | D | 282.00 |
| 80 | 45.590 | 44.574 | 43.574 | 1.500 | 402.00 | 1.500 | 5.375 | 7.500 | 5.000 | C | D | 331.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 140 1 3/4" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|--------|
| Size | 140 |
| Pitch | 1 3/4" |
| Inside Width | 1.000" |
| Roller Diameter | 1.000" |
| Nominal Tooth Width: | 0.894" |

How to Order Code: Example Model # for 140 Pitch Multi-Strand Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|----------------------|-----------------------|---------------------------|----------------------|----|----|----|--|
| A | D | 140 | B | 25 | | | | |
| Altered ¹¹ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | D: Double Strand | 140: 1 3/4" Pitch | B: Hub Extension One Side | Double Strand | | | | |
| | | | | 13 | 18 | 21 | 25 | |
| | | | | 14 | 17 | 22 | 26 | |
| | | | | 15 | 19 | 23 | 30 | |
| | 16 | | | 20 | 24 | | | |
| | Triple Strand | | | | | | | |
| | T: Triple Strand | | | 15 | | | | |
| | 18 | | | | | | | |
| | 20 | | | | | | | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 140

MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

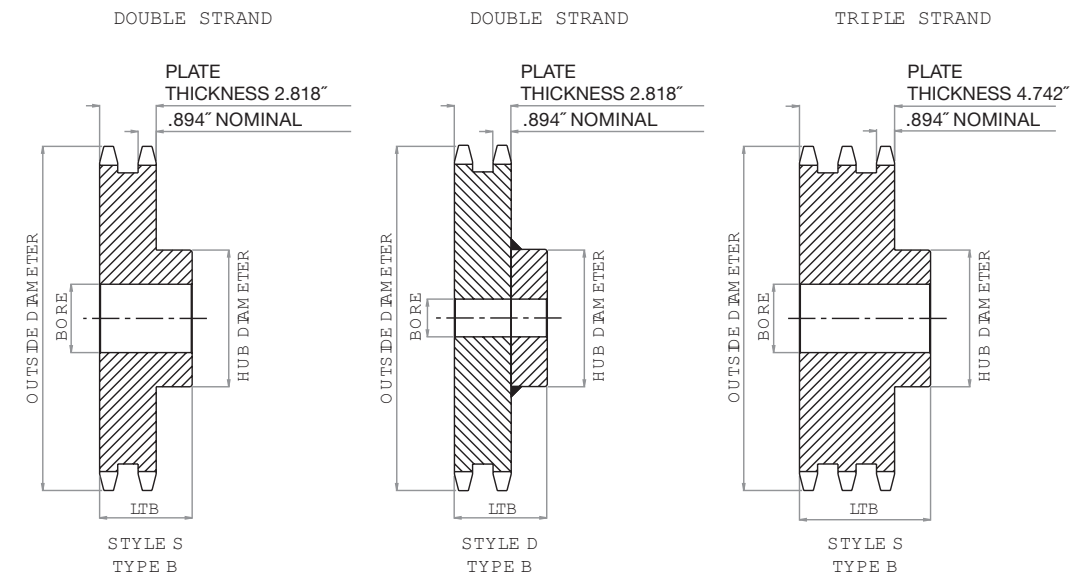
| No. 140 Multi-Strand Sprocket Dia. | | | Dimensional Data: Double Strand Sprockets | | | | | |
|------------------------------------|------------------|------------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 13 | 8.150 | 1.625 | 5.000 | 3.750 | 3.313 | B | S | 29.00 |
| 14 | 8.720 | 1.625 | 5.500 | 3.750 | 3.750 | B | S | 34.80 |
| 15 | 9.280 | 1.625 | 6.500 | 3.750 | 4.500 | B | S | 42.50 |
| 16 | 9.850 | 1.625 | 7.000 | 4.000 | 5.250 | B | S | 48.10 |
| 17 | 10.410 | 1.625 | 7.000 | 4.000 | 5.250 | B | S | 57.50 |
| 18 | 10.980 | 1.750 | 7.000 | 4.000 | 5.250 | B | S | 65.60 |
| 19 | 11.540 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 72.00 |
| 20 | 12.100 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 76.00 |
| 21 | 12.660 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 82.00 |
| 22 | 13.220 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 94.00 |
| 23 | 13.780 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 100.00 |
| 24 | 14.340 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 104.00 |
| 25 | 14.900 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 120.00 |
| 26 | 15.460 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 128.00 |
| 30 | 17.700 | 1.750 | 7.000 | 4.000 | 5.250 | B | D | 163.50 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

All dimensions in inches unless noted.

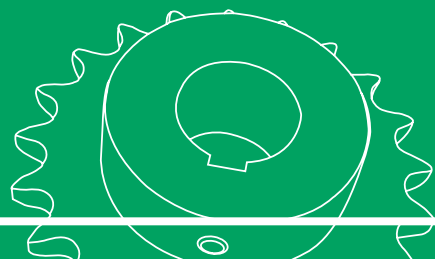
| No. 140 Multi-Strand Sprocket Dia. | | | Dimensional Data: Triple Strand Sprockets | | | | | |
|------------------------------------|------------------|------------|---|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 15 | 9.283 | 1.625 | 6.500 | 5.688 | 4.500 | B | S | 70.00 |
| 18 | 10.980 | 1.750 | 7.000 | 5.938 | 5.250 | B | S | 90.00 |
| 20 | 12.100 | 1.750 | 7.000 | 5.938 | 5.250 | B | S | 110.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 140 1 3/4" Pitch: TAPER-LOCK®

| Chain Data | |
|----------------------|--------|
| Size | 140 |
| Pitch | 1 3/4" |
| Inside Width | 1.000" |
| Roller Diameter | 1.000" |
| Nominal Tooth Width: | 0.924" |

How to Order Code: Example Model # for 140 Pitch TAPER-LOCK® Carbon Steel Sprockets

| | | | | | | | | |
|------------------------|-----------------------|----------------------------|---------------------------------|-----------------|----|--|--|--|
| A | 140 | B | TL | 21 | | | | |
| Altered ^{!!} | Chain Pitch in Inches | Hub Type | TAPER-LOCK® | Number of Teeth | | | | |
| A: Alteration Required | 140: 1 3/4" Pitch | B: Hub Extension One Side | TAPER-LOCK® hub with set screws | 14 | 18 | | | |
| | | | | 15 | 19 | | | |
| | | | | 16 | 21 | | | |
| | | C: Hub Extension Both Side | | 17 | 26 | | | |
| | | | | 35 | 60 | | | |
| | | | | 36 | 70 | | | |
| 45 | | | | | | | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

TAPER-LOCK® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 164.

| TAPER-LOCK® Bushings | |
|----------------------|----------------|
| Bushing # | Bore Range |
| 3020 | 0.875 - 3.250" |
| 3535 | 1.188 - 3.938" |
| 4040 | 1.438 - 4.438" |

No. 140

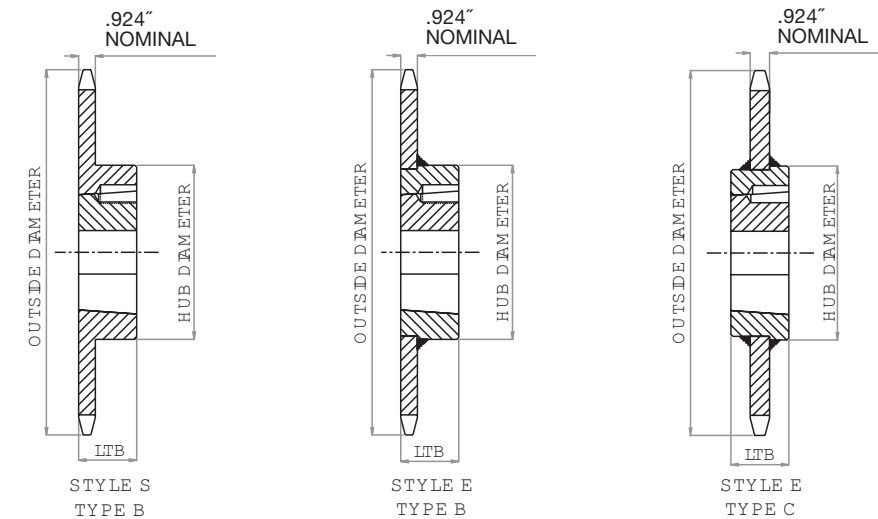
TAPER-LOCK® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

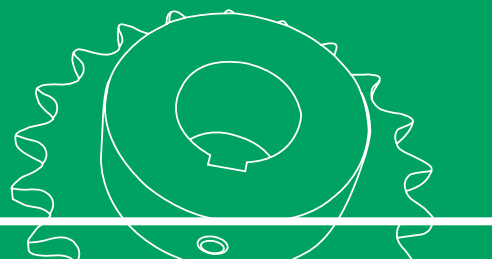
| No. 140 TAPER-LOCK® Sprockets | | | Dimensional Data TAPER-LOCK® Sprockets | | | | | |
|-------------------------------|------------------|-----------|--|-------|------------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Bushing # | Hub Diameter | LTB | MAX Bore * | Hub Type | Hub Style | Weight Lbs. |
| 14 | 8.720 | 3020 | 5.250 | 2.000 | 3.250 | B | S | 10.00 |
| 15 | 9.280 | 3020 | 5.250 | 2.000 | 3.250 | B | S | 12.00 |
| 16 | 9.850 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 14.00 |
| 17 | 10.410 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 16.00 |
| 18 | 10.980 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 18.00 |
| 19 | 11.540 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 20.00 |
| 21 | 12.660 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 24.00 |
| 26 | 15.460 | 3020 | 5.250 | 2.000 | 3.250 | B | E | 40.00 |
| 35 | 20.490 | 3535 | 6.500 | 3.500 | 3.938 | C | E | 78.00 |
| 36 | 21.050 | 3535 | 6.500 | 3.500 | 3.938 | C | E | 83.00 |
| 45 | 26.080 | 4040 | 7.750 | 4.000 | 4.438 | C | E | 118.00 |
| 60 | 34.400 | 4040 | 7.750 | 4.000 | 4.438 | C | E | 188.00 |
| 70 | 40.020 | 4040 | 7.750 | 4.000 | 4.438 | C | E | 241.00 |

* Please reference TAPER-LOCK® bushing dimension table on page 165 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 140 1 3/4" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 140 |
| Pitch | 1 3/4" |
| Inside Width | 1.000" |
| Roller Diameter | 1.000" |
| Nominal Tooth Width: | 0.924" |

How to Order Code: Example Model # for 140 Pitch QD® Carbon Steel Sprockets

| A | 140 | SF | 13 | | | | |
|------------------------|-----------------------|------------------------------------|-----------------|----|----|----|----|
| Altered ¹¹ | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 140: 1 3/4" Pitch | SF: QD® Hub 11 - 13 tooth sprocket | 11 | 13 | | | |
| | | | 12 | | | | |
| | | E: QD® Hub 14 - 22 tooth sprocket | 14 | 16 | 18 | 20 | 22 |
| | | | 15 | 17 | 19 | 21 | |
| | | F: QD® Hub 23 - 36 tooth sprocket | 23 | 25 | 30 | 36 | |
| | | | 24 | 26 | 35 | | |
| | | J: QD® Hub 40 - 60 tooth sprocket | 40 | 48 | 60 | | |
| | | | 45 | 54 | | | |
| | | M: QD® Hub 70 & 80 tooth sprocket | 70 | | | | |
| | | | 80 | | | | |

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| SF | 0.500 - 2.938" |
| E | 0.875 - 3.500" |
| F | 1.000 - 4.000" |
| J | 1.500 - 4.500" |
| M | 2.000 - 5.500" |

No. 140

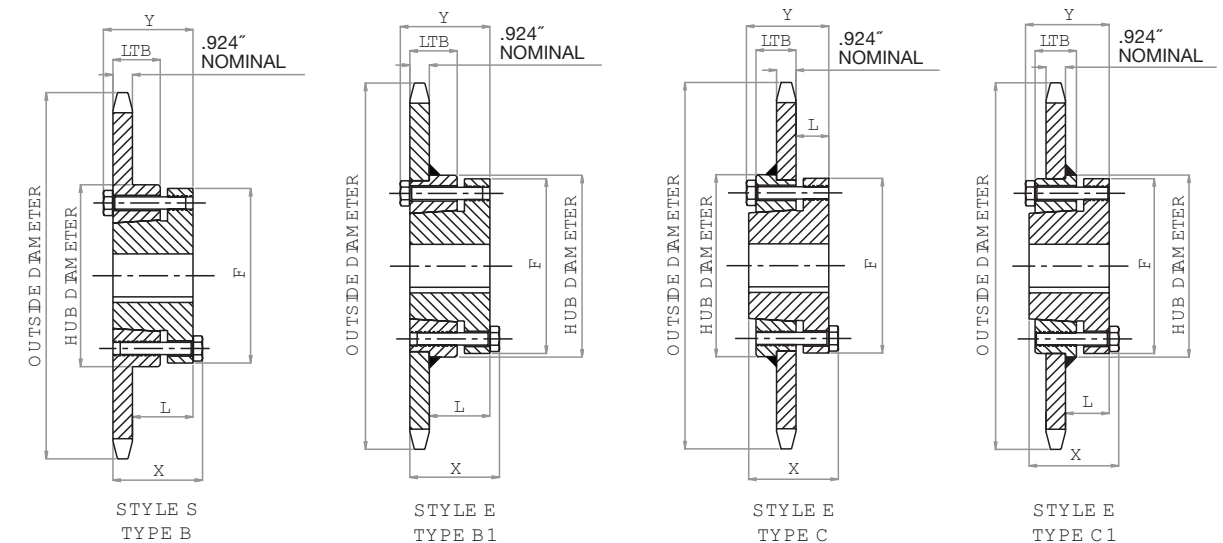
QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

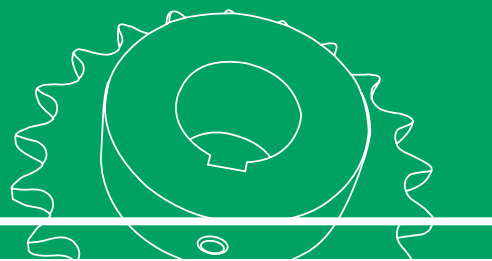
| No. 140 QD® Sprockets | | | Dimensional Data QD® Sprockets | | | | | | | | | |
|-----------------------|--------------|---------------|--------------------------------|----------|-------|-------|-------|-------|-------|----------|-----------|-------------|
| No. Teeth | Outside Dia. | QD® Bushing # | MAX Bore * | Hub Dia. | LTB | X | Y | L | F | Hub Type | Hub Style | Weight Lbs. |
| 11 | 7.010 | SF | 2.938 | 4.438 | 1.250 | 2.250 | 2.250 | 1.098 | 4.625 | B | S | 5.60 |
| 12 | 7.580 | SF | 2.938 | 4.875 | 1.250 | 2.250 | 2.250 | 1.098 | 4.625 | B | S | 7.40 |
| 13 | 8.150 | SF | 2.938 | 5.000 | 1.250 | 2.250 | 2.250 | 1.098 | 4.625 | B | S | 8.90 |
| 14 | 8.720 | E | 3.500 | 6.125 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | S | 11.60 |
| 15 | 9.280 | E | 3.500 | 6.125 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | S | 14.20 |
| 16 | 9.850 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 15.90 |
| 17 | 10.410 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 18.00 |
| 18 | 10.980 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 19.60 |
| 19 | 11.540 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 22.00 |
| 20 | 12.100 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 24.60 |
| 21 | 12.660 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 27.60 |
| 22 | 13.220 | E | 3.500 | 6.250 | 1.625 | 2.938 | 2.625 | 1.563 | 6.000 | B1 | E | 29.50 |
| 23 | 13.780 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 2.563 | 6.625 | B1 | E | 36.40 |
| 24 | 14.340 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 2.563 | 6.625 | B1 | E | 40.10 |
| 25 | 14.900 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 2.563 | 6.625 | B1 | E | 42.30 |
| 26 | 15.460 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 2.563 | 6.625 | B1 | E | 46.50 |
| 30 | 17.700 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 2.563 | 6.625 | B1 | E | 60.40 |
| 35 | 20.490 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 78.00 |
| 36 | 21.050 | F | 4.000 | 7.000 | 2.500 | 4.000 | 3.625 | 1.000 | 6.625 | C | E | 84.00 |
| 40 | 23.290 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.188 | 7.250 | C | E | 98.00 |
| 45 | 26.080 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.188 | 7.250 | C | E | 120.00 |
| 48 | 27.750 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.188 | 7.250 | C | E | 129.00 |
| 54 | 31.100 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.188 | 7.250 | C | E | 149.00 |
| 60 | 34.440 | J | 4.500 | 8.000 | 3.188 | 5.000 | 4.500 | 1.188 | 7.250 | C | E | 185.00 |
| 70 | 40.020 | M | 5.500 | 10.000 | 5.188 | 6.750 | 6.750 | 2.906 | 9.000 | C1 | E | 264.00 |
| 80 | 45.590 | M | 5.500 | 10.000 | 5.188 | 6.750 | 6.750 | 2.906 | 9.000 | C1 | E | 348.00 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



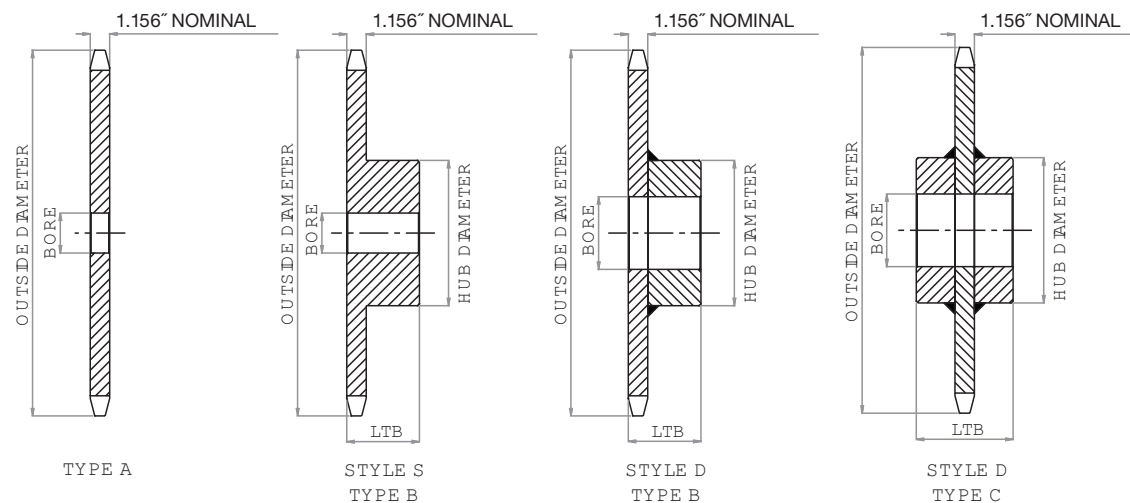
No. 160 2" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 160 |
| Pitch | 2" |
| Inside Width | 1.250" |
| Roller Diameter | 1.125" |
| Nominal Tooth Width: | 1.156" |

How to Order Code: Example Model # for 160 Pitch Plain Bore Carbon Steel Sprockets

| | | | | | | | |
|------------------------|-----------------------|-----------------------------|-----------------|----|----|----|----|
| A | 160 | A | 25 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 160: 2" Pitch | A: No Hub Extension | 8 | 14 | 20 | 26 | 40 |
| | | | 9 | 15 | 21 | 27 | 45 |
| | | | 10 | 16 | 22 | 28 | 48 |
| | | | 11 | 17 | 23 | 30 | 54 |
| | | | 12 | 18 | 24 | 35 | 60 |
| | | | 13 | 19 | 25 | 36 | |
| | | B: Hub Extension One Side | 8 | 14 | 20 | 26 | |
| | | | 9 | 15 | 21 | 27 | |
| | | | 10 | 16 | 22 | 28 | |
| | | | 11 | 17 | 23 | 30 | |
| | | | 12 | 18 | 24 | | |
| | | | 13 | 19 | 25 | | |
| | | C: Hub Extension Both Sides | 35 | 45 | 60 | | |
| | | | 36 | 48 | | | |
| | | | 40 | 54 | | | |
| | | | | | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



No. 160

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

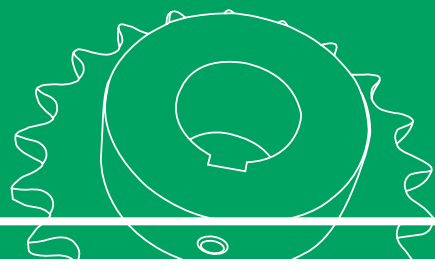
All dimensions in inches unless noted.

| No. Teeth | No. 160 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" & "C" Plain Bore | | | | | | |
|-----------|----------------------------------|------------|--------------|---------------------|----------|---------------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 8 | 6.030 | 5.226 | 4.101 | 1.500 | 5.00 | 1.500 | 1.875 | 3.250 | 2.250 | B | S | 8.00 |
| 9 | 6.700 | 5.848 | 4.635 | 1.500 | 7.00 | 1.500 | 2.125 | 3.625 | 2.250 | B | S | 10.00 |
| 10 | 7.380 | 6.472 | 5.347 | 1.500 | 8.00 | 1.500 | 2.750 | 4.125 | 2.250 | B | S | 12.00 |
| 11 | 8.010 | 7.100 | 5.902 | 1.500 | 10.00 | 1.500 | 3.250 | 4.750 | 2.500 | B | S | 17.00 |
| 12 | 8.660 | 7.728 | 6.603 | 1.500 | 12.00 | 1.500 | 3.750 | 5.500 | 2.500 | B | S | 21.00 |
| 13 | 9.310 | 8.358 | 7.171 | 1.500 | 16.00 | 1.500 | 4.000 | 6.000 | 2.750 | B | S | 28.00 |
| 14 | 9.960 | 8.988 | 7.863 | 1.500 | 17.00 | 1.500 | 4.500 | 6.500 | 2.750 | B | D | 32.00 |
| 15 | 10.610 | 9.620 | 8.442 | 1.500 | 21.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 37.00 |
| 16 | 11.260 | 10.252 | 9.127 | 1.500 | 24.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 41.00 |
| 17 | 11.900 | 10.844 | 9.713 | 1.500 | 27.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 45.00 |
| 18 | 12.540 | 11.518 | 10.393 | 1.500 | 30.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 48.00 |
| 19 | 13.190 | 12.152 | 10.985 | 1.500 | 34.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 52.00 |
| 20 | 13.830 | 12.784 | 11.659 | 1.500 | 38.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 56.00 |
| 21 | 14.470 | 13.420 | 12.256 | 1.500 | 42.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 59.00 |
| 22 | 15.110 | 14.054 | 12.929 | 1.500 | 46.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 65.00 |
| 23 | 15.750 | 14.688 | 13.529 | 1.500 | 50.00 | 1.500 | 5.250 | 7.000 | 2.750 | B | D | 68.00 |
| 24 | 16.390 | 15.322 | 14.197 | 1.500 | 56.00 | 1.500 | 5.250 | 7.000 | 3.000 | B | D | 77.00 |
| 25 | 17.030 | 15.958 | 14.801 | 1.500 | 61.00 | 1.500 | 5.250 | 7.000 | 3.000 | B | D | 81.00 |
| 26 | 17.670 | 16.592 | 15.467 | 1.500 | 65.00 | 1.500 | 5.250 | 7.000 | 3.000 | B | D | 86.00 |
| 27 | 18.310 | 17.228 | 16.073 | 1.500 | 71.00 | 1.500 | 5.250 | 7.000 | 3.000 | B | D | 91.00 |
| 28 | 18.950 | 17.862 | 16.737 | 1.500 | 77.00 | 1.500 | 5.250 | 7.000 | 3.000 | B | D | 98.00 |
| 30 | 20.230 | 19.134 | 18.009 | 1.500 | 90.00 | 1.500 | 5.250 | 7.000 | 3.000 | B | D | 108.00 |
| 35 | 23.420 | 22.312 | 21.164 | 1.500 | 121.00 | 1.500 | 5.500 | 8.000 | 4.500 | C | D | 154.00 |
| 36 | 24.060 | 22.948 | 21.823 | 1.500 | 134.00 | 1.500 | 5.500 | 8.000 | 4.500 | C | D | 170.00 |
| 40 | 26.610 | 25.492 | 24.367 | 1.500 | 138.00 | 1.500 | 5.500 | 8.000 | 4.500 | C | D | 196.00 |
| 45 | 29.800 | 28.672 | 27.529 | 1.500 | 204.00 | 1.500 | 5.500 | 8.000 | 5.000 | C | D | 234.00 |
| 48 | 31.714 | 30.580 | 29.455 | 1.500 | 233.00 | 1.500 | 5.500 | 8.000 | 5.000 | C | D | 250.00 |
| 54 | 35.540 | 34.396 | 33.271 | 1.500 | 294.00 | 1.500 | 5.500 | 8.000 | 5.000 | C | D | 345.00 |
| 60 | 39.360 | 38.214 | 37.089 | 1.500 | 360.00 | 1.500 | 5.500 | 8.000 | 5.000 | C | D | 415.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 160 2" Pitch: MULTI-STRAND

| Chain Data | |
|----------------------|--------|
| Size | 160 |
| Pitch | 2" |
| Inside Width | 1.250" |
| Roller Diameter | 1.125" |
| Nominal Tooth Width: | 1.119" |

How to Order Code: Example Model # for 160 Pitch Multi-Strand Carbon Steel Sprockets

| | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|------------------|-----------------------|---------------------------|---|----|----|----|----|--|----|----|----|----|--|----|----|----|----|--|----|----|----|--|--|
| A | D | 160 | B | 21 | | | | | | | | | | | | | | | | | | | | |
| Altered ¹⁾ | Multi | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | | | | | | | | | | | | | | | | |
| A: Alteration Required | D: Double Strand | 160: 2" Pitch | B: Hub Extension One Side | <table border="1"> <tr> <td>13</td> <td>17</td> <td>21</td> <td>25</td> <td></td> </tr> <tr> <td>14</td> <td>18</td> <td>22</td> <td>26</td> <td></td> </tr> <tr> <td>15</td> <td>19</td> <td>23</td> <td>30</td> <td></td> </tr> <tr> <td>16</td> <td>20</td> <td>24</td> <td></td> <td></td> </tr> </table> | 13 | 17 | 21 | 25 | | 14 | 18 | 22 | 26 | | 15 | 19 | 23 | 30 | | 16 | 20 | 24 | | |
| 13 | 17 | 21 | 25 | | | | | | | | | | | | | | | | | | | | | |
| 14 | 18 | 22 | 26 | | | | | | | | | | | | | | | | | | | | | |
| 15 | 19 | 23 | 30 | | | | | | | | | | | | | | | | | | | | | |
| 16 | 20 | 24 | | | | | | | | | | | | | | | | | | | | | | |

¹⁾Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 160

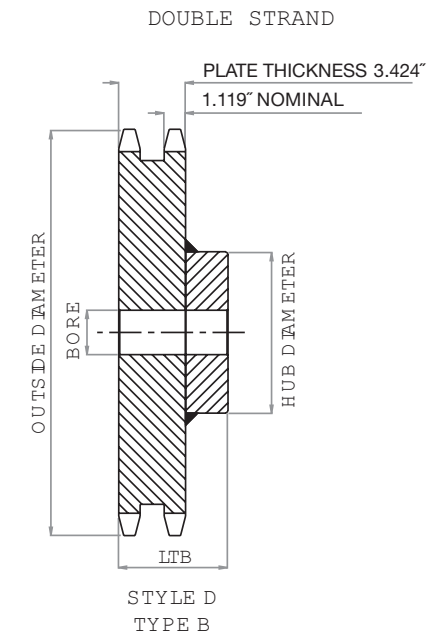
MULTI-STRAND SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

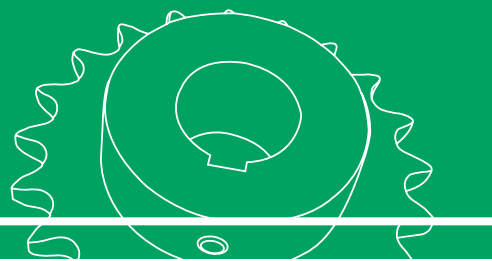
| No. 160 Multi-Strand Sprocket Dia. | | | Dimensional Data: Double Strand Sprockets | | | | | |
|------------------------------------|------------------|------------|---|-------|-----------|----------|-----------|-------------|
| No. Teeth | Outside Diameter | Plain Bore | Hub Diameter | LTB | MAX Bore* | Hub Type | Hub Style | Weight Lbs. |
| 13 | 9.310 | 2.000 | 6.000 | 4.750 | 4.000 | B | D | 48.00 |
| 14 | 9.960 | 2.000 | 6.750 | 4.750 | 4.750 | B | D | 58.00 |
| 15 | 10.610 | 2.000 | 7.000 | 4.750 | 5.250 | B | D | 68.00 |
| 16 | 11.260 | 2.000 | 7.000 | 4.750 | 5.250 | B | D | 75.00 |
| 17 | 11.900 | 2.000 | 7.000 | 4.750 | 5.250 | B | D | 91.00 |
| 18 | 12.540 | 2.000 | 7.000 | 4.750 | 5.250 | B | D | 96.00 |
| 19 | 13.190 | 2.000 | 7.000 | 4.750 | 5.250 | B | D | 107.00 |
| 20 | 13.830 | 2.000 | 7.000 | 4.750 | 5.250 | B | D | 119.00 |
| 21 | 14.470 | 2.000 | 7.500 | 4.750 | 5.375 | B | D | 130.00 |
| 22 | 15.110 | 2.000 | 7.500 | 4.750 | 5.375 | B | D | 141.00 |
| 23 | 15.750 | 2.000 | 7.500 | 4.750 | 5.375 | B | D | 157.00 |
| 24 | 16.390 | 2.000 | 7.500 | 4.750 | 5.375 | B | D | 171.00 |
| 25 | 17.030 | 2.000 | 7.500 | 4.750 | 5.375 | B | D | 187.00 |
| 26 | 17.670 | 2.000 | 7.500 | 4.750 | 5.375 | B | D | 201.00 |
| 30 | 20.230 | 2.000 | 7.500 | 4.750 | 5.375 | B | D | 260.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 160 2" Pitch: QD®

| Chain Data | |
|----------------------|--------|
| Size | 160 |
| Pitch | 2" |
| Inside Width | 1.250" |
| Roller Diameter | 1.125" |
| Nominal Tooth Width: | 1.156" |

How to Order Code: Example Model # for 160 Pitch QD® Carbon Steel Sprockets

| A | 160 | F | 17 | | | |
|------------------------|-----------------------|-----------------------------------|-----------------|----|----|----|
| Altered ^{!!} | Chain Pitch in Inches | QD® Hub Type | Number of Teeth | | | |
| A: Alteration Required | 160: 2" Pitch | E: QD® Hub 13 - 14 tooth sprocket | 13 | | | |
| | | | 14 | | | |
| | | F: QD® Hub 15 - 25 tooth sprocket | 15 | 18 | 21 | 24 |
| | | | 16 | 19 | 22 | 25 |
| | | | 17 | 20 | 23 | |
| | | J: QD® Hub 26 - 35 tooth sprocket | 26 | 35 | | |
| | | | 28 | | | |
| | | | 30 | | | |
| | | M: QD® Hub 40 - 60 tooth sprocket | 40 | 60 | | |
| | | | 45 | | | |
| | | | 54 | | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

QD® bushing is not included with the sprocket. They are to be ordered separately. Please refer to the table below for general guidelines. Specific details are found in the Bushing Section of this catalog beginning on page 170.

| QD® Bushings | |
|--------------|----------------|
| Bushing # | Bore Range |
| E | 0.875 - 3.500" |
| F | 1.000 - 4.000" |
| J | 1.500 - 4.500" |
| M | 2.000 - 5.500" |

No. 160

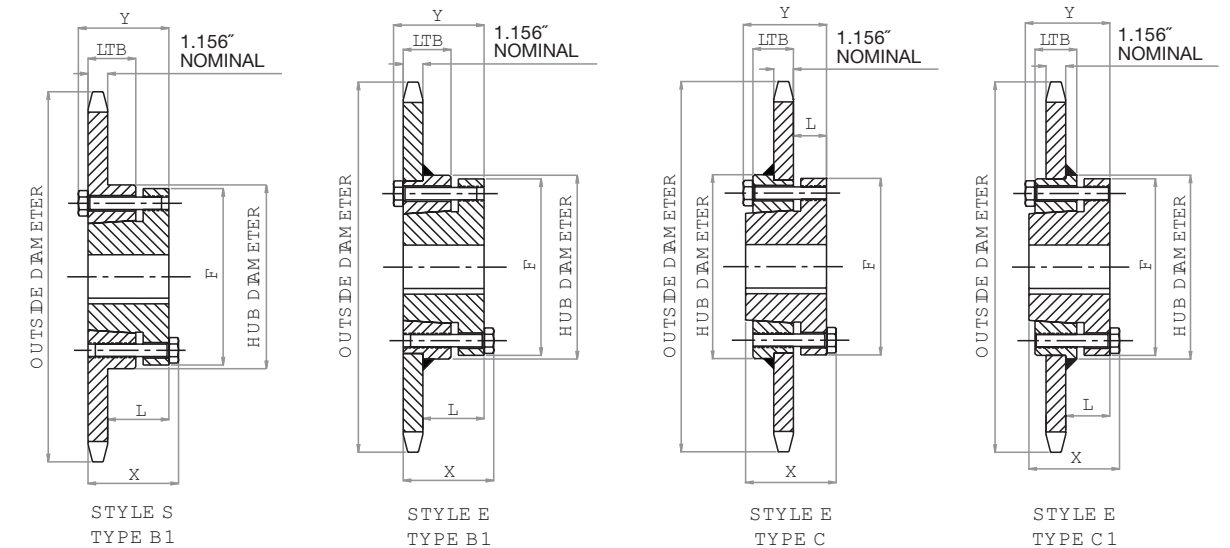
QD® SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

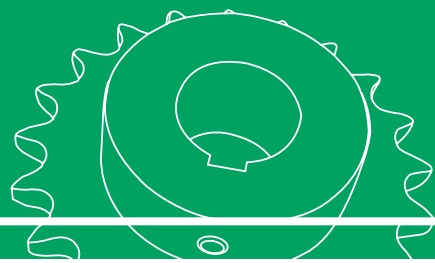
| No. 160 QD® Sprockets | | | Dimensional Data QD® Sprockets | | | | | | | | | |
|-----------------------|--------------|---------------|--------------------------------|----------|-------|-------|-------|-------|-------|----------|-----------|-------------|
| No. Teeth | Outside Dia. | QD® Bushing # | MAX Bore * | Hub Dia. | LTB | X | Y | L | F | Hub Type | Hub Style | Weight Lbs. |
| 13 | 9.310 | E | 3.500 | 6.000 | 1.625 | 2.625 | 2.937 | 1.313 | 6.000 | B1 | S | 14.00 |
| 14 | 9.960 | E | 3.500 | 6.000 | 1.625 | 2.625 | 2.937 | 1.313 | 6.000 | B1 | S | 15.00 |
| 15 | 10.610 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 24.00 |
| 16 | 11.260 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 27.00 |
| 17 | 11.900 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 31.00 |
| 18 | 12.540 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 35.00 |
| 19 | 13.190 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 38.00 |
| 20 | 13.830 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 42.00 |
| 21 | 14.740 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 45.00 |
| 22 | 15.110 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 51.00 |
| 23 | 15.750 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 55.00 |
| 24 | 16.390 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 59.00 |
| 25 | 17.030 | F | 4.000 | 6.625 | 2.500 | 3.625 | 4.000 | 2.313 | 6.625 | B1 | E | 64.00 |
| 26 | 17.670 | J | 4.500 | 7.250 | 3.188 | 4.500 | 5.000 | 1.188 | 7.250 | C | E | 74.00 |
| 28 | 18.950 | J | 4.500 | 7.250 | 3.188 | 4.500 | 5.000 | 1.188 | 7.250 | C | E | 84.00 |
| 30 | 20.230 | J | 4.500 | 7.250 | 3.188 | 4.500 | 5.000 | 1.188 | 7.250 | C | E | 96.00 |
| 35 | 23.420 | J | 4.500 | 7.250 | 3.188 | 4.500 | 5.000 | 1.188 | 7.250 | C | E | 116.00 |
| 40 | 26.610 | M | 5.500 | 9.000 | 5.188 | 6.750 | 6.750 | 1.594 | 9.000 | C1 | E | 174.00 |
| 45 | 29.800 | M | 5.500 | 9.000 | 5.188 | 6.750 | 6.750 | 1.594 | 9.000 | C1 | E | 208.00 |
| 54 | 35.540 | M | 5.500 | 9.000 | 5.188 | 6.750 | 6.750 | 1.594 | 9.000 | C1 | E | 262.00 |
| 60 | 39.360 | M | 5.500 | 9.000 | 5.188 | 6.750 | 6.750 | 1.594 | 9.000 | C1 | E | 310.00 |

* Please reference QD® bushing dimension table on page 171 for specific information on MAX Bore and keyway data.



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 180 2 1/4" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 180 |
| Pitch | 2 1/4" |
| Inside Width | 1.406" |
| Roller Diameter | 1.406" |
| Nominal Tooth Width: | 1.301" |

How to Order Code: Example Model # for 180 Pitch Plain Bore Carbon Steel Sprockets

| | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|--|
| A | 180 | B | 25 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 180: 2 1/4" Pitch | A: No Hub Extension | 11 | 15 | 19 | 23 | |
| | | | 12 | 16 | 20 | 24 | |
| | | | 13 | 17 | 21 | 25 | |
| | | | 14 | 18 | 22 | 28 | |
| | | B: Hub Extension One Side | 11 | 15 | 19 | 23 | |
| | | | 12 | 16 | 20 | 24 | |
| | | | 13 | 17 | 21 | 25 | |
| | | | 14 | 18 | 22 | 28 | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 180

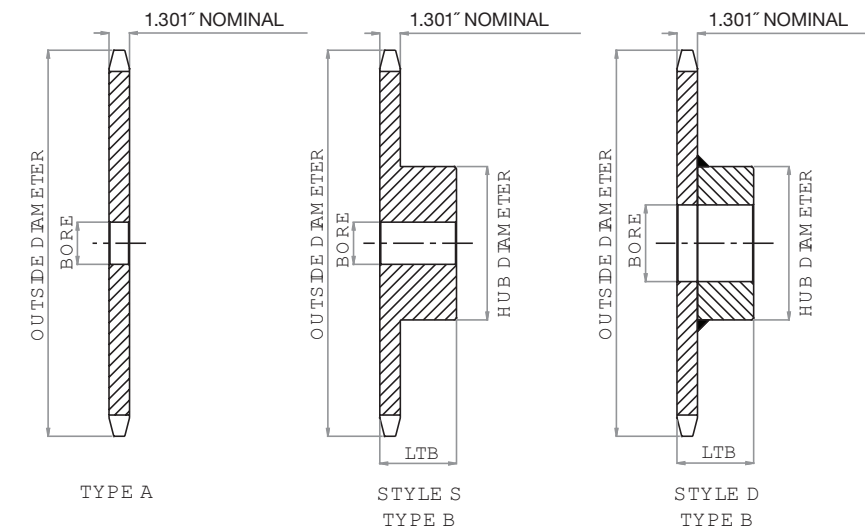
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

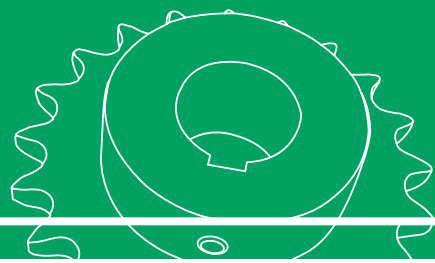
| No. Teeth | No. 180 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 11 | 9.010 | 7.986 | 6.499 | 1.500 | 14.00 | 1.500 | 3.625 | 5.500 | 3.000 | B | S | 29.00 |
| 12 | 9.750 | 8.693 | 7.287 | 1.500 | 16.00 | 1.500 | 4.000 | 6.000 | 3.000 | B | D | 32.00 |
| 13 | 10.480 | 9.402 | 7.927 | 1.500 | 20.00 | 1.500 | 4.625 | 6.750 | 3.125 | B | D | 40.00 |
| 14 | 11.210 | 10.111 | 8.705 | 1.500 | 24.00 | 1.500 | 5.250 | 7.000 | 3.125 | B | D | 44.00 |
| 15 | 11.930 | 10.822 | 9.357 | 1.500 | 28.00 | 1.500 | 5.250 | 7.000 | 3.125 | B | D | 48.00 |
| 16 | 12.660 | 11.533 | 10.127 | 1.500 | 32.00 | 1.500 | 5.250 | 7.000 | 3.125 | B | D | 52.00 |
| 17 | 13.390 | 12.245 | 10.787 | 1.500 | 37.00 | 1.500 | 5.250 | 7.000 | 3.125 | B | D | 58.00 |
| 18 | 14.110 | 12.957 | 11.551 | 1.500 | 43.00 | 1.500 | 5.250 | 7.000 | 3.125 | B | D | 63.00 |
| 19 | 14.830 | 13.670 | 12.217 | 1.500 | 47.00 | 1.500 | 5.375 | 7.500 | 3.375 | B | D | 74.00 |
| 20 | 15.560 | 14.383 | 12.977 | 1.500 | 53.00 | 1.500 | 5.375 | 7.500 | 3.375 | B | D | 81.00 |
| 21 | 16.280 | 15.096 | 13.648 | 1.500 | 57.00 | 1.500 | 5.375 | 7.500 | 3.375 | B | D | 83.00 |
| 22 | 17.000 | 15.810 | 14.404 | 1.500 | 62.00 | 1.500 | 5.375 | 7.500 | 3.375 | B | D | 92.00 |
| 23 | 17.720 | 16.524 | 15.079 | 1.500 | 69.00 | 1.500 | 5.375 | 7.500 | 3.375 | B | D | 99.00 |
| 24 | 18.440 | 17.238 | 15.832 | 1.500 | 77.00 | 1.500 | 5.375 | 7.500 | 3.375 | B | D | 105.00 |
| 25 | 19.160 | 17.952 | 16.511 | 1.500 | 84.00 | 1.500 | 5.375 | 7.500 | 3.375 | B | D | 113.00 |
| 28 | 21.320 | 20.096 | 18.690 | 1.500 | 104.00 | 1.500 | 5.500 | 8.000 | 3.500 | B | D | 135.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 200 2 1/2" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 200 |
| Pitch | 2 1/2" |
| Inside Width | 1.500" |
| Roller Diameter | 1.562" |
| Nominal Tooth Width: | 1.389" |

How to Order Code: Example Model # for 200 Pitch Plain Bore Carbon Steel Sprockets

| | | | | | | | |
|------------------------|-----------------------|-----------------------------|-----------------|----|----|----|----|
| A | 200 | B | 25 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 200: 2 1/2" Pitch | A: No Hub Extension | 10 | 14 | 18 | 25 | 45 |
| | | | 11 | 15 | 19 | 30 | 54 |
| | | | 12 | 16 | 20 | 35 | 60 |
| | | | 13 | 17 | 21 | 40 | |
| | | | 10 | 14 | 18 | 25 | |
| | | B: Hub Extension One Side | 11 | 15 | 19 | | |
| | | | 12 | 16 | 20 | | |
| | | | 13 | 17 | 21 | | |
| | | | 30 | 45 | | | |
| | | C: Hub Extension Both Sides | 35 | 54 | | | |
| | | | 40 | 60 | | | |
| | | | | | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 200

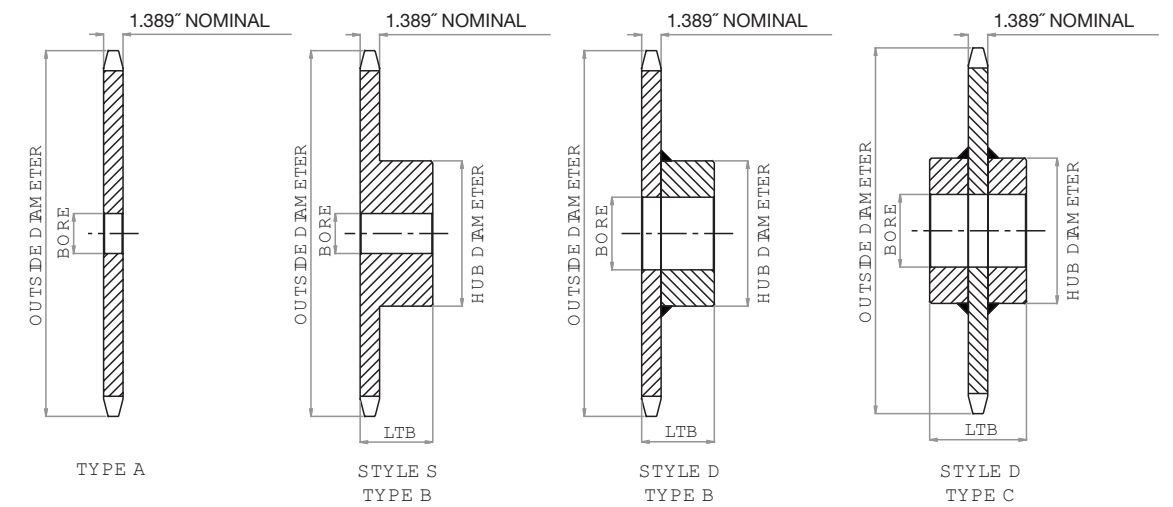
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

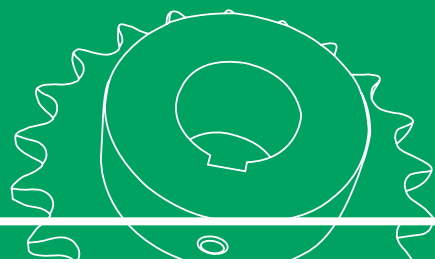
| No. Teeth | No. 200 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" & "C" Plain Bore | | | | | | |
|-----------|----------------------------------|------------|--------------|---------------------|----------|---------------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 10 | 9.200 | 8.090 | 6.528 | 1.500 | 16.00 | 1.500 | 3.750 | 5.500 | 3.000 | B | S | 26.00 |
| 11 | 10.020 | 8.872 | 7.219 | 1.500 | 20.00 | 1.500 | 4.000 | 6.000 | 3.000 | B | D | 33.00 |
| 12 | 10.830 | 9.660 | 8.098 | 1.500 | 24.00 | 1.500 | 4.500 | 6.500 | 3.000 | B | D | 37.00 |
| 13 | 11.640 | 10.447 | 8.808 | 1.500 | 30.00 | 1.500 | 5.250 | 7.000 | 3.000 | B | D | 46.00 |
| 14 | 12.460 | 11.235 | 9.673 | 1.500 | 32.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 59.00 |
| 15 | 13.260 | 12.025 | 10.397 | 1.500 | 40.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 64.00 |
| 16 | 14.070 | 12.815 | 11.253 | 1.500 | 46.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 72.00 |
| 17 | 14.870 | 13.605 | 11.985 | 1.500 | 51.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 76.00 |
| 18 | 15.680 | 14.397 | 12.835 | 1.500 | 57.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 84.00 |
| 19 | 16.480 | 15.190 | 13.576 | 1.500 | 65.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 91.00 |
| 20 | 17.290 | 15.982 | 14.420 | 1.500 | 72.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 98.00 |
| 21 | 18.090 | 16.775 | 15.166 | 1.500 | 82.00 | 1.500 | 5.375 | 7.500 | 3.500 | B | D | 106.00 |
| 25 | 20.490 | 19.152 | 17.590 | 1.500 | 113.00 | 1.500 | 5.750 | 8.500 | 4.000 | B | D | 153.00 |
| 30 | 25.290 | 23.917 | 22.355 | 1.500 | 167.00 | 1.500 | 5.750 | 8.500 | 4.500 | C | D | 212.00 |
| 35 | 29.280 | 27.890 | 26.300 | 1.500 | 227.00 | 1.500 | 5.750 | 8.500 | 4.500 | C | D | 254.00 |
| 40 | 33.270 | 31.865 | 30.303 | 1.500 | 301.00 | 1.500 | 6.000 | 9.000 | 5.000 | C | D | 320.00 |
| 45 | 37.250 | 35.840 | 34.256 | 1.500 | 356.00 | 1.500 | 6.000 | 9.000 | 5.000 | C | D | 390.00 |
| 54 | 44.420 | 42.995 | 41.433 | 1.500 | 479.00 | 1.500 | 6.500 | 9.500 | 5.500 | C | D | 555.00 |
| 60 | 49.200 | 47.767 | 46.205 | 1.500 | 654.00 | 1.500 | 6.500 | 9.500 | 5.500 | C | D | 692.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 240 3" Pitch: PLAIN BORE

| Chain Data | |
|----------------------|--------|
| Size | 240 |
| Pitch | 3" |
| Inside Width | 1.875" |
| Roller Diameter | 1.875" |
| Nominal Tooth Width: | 1.738" |

How to Order Code: Example Model # for 240 Pitch Plain Bore Carbon Steel Sprockets

| | | | | | | | |
|------------------------|-----------------------|-----------------------------|-----------------|----|----|----|----|
| A | 240 | B | 21 | | | | |
| Altered ¹¹ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 240: 3" Pitch | A: No Hub Extension | 10 | 14 | 18 | 25 | 45 |
| | | | 11 | 15 | 19 | 30 | 54 |
| | | | 12 | 16 | 20 | 35 | 60 |
| | | | 13 | 17 | 21 | 40 | |
| | | | 10 | 14 | 18 | 25 | |
| | | B: Hub Extension One Side | 11 | 15 | 19 | | |
| | | | 12 | 16 | 20 | | |
| | | | 13 | 17 | 21 | | |
| | | | 30 | 45 | | | |
| | | C: Hub Extension Both Sides | 35 | 54 | | | |
| | | | 40 | 60 | | | |

¹¹Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 240

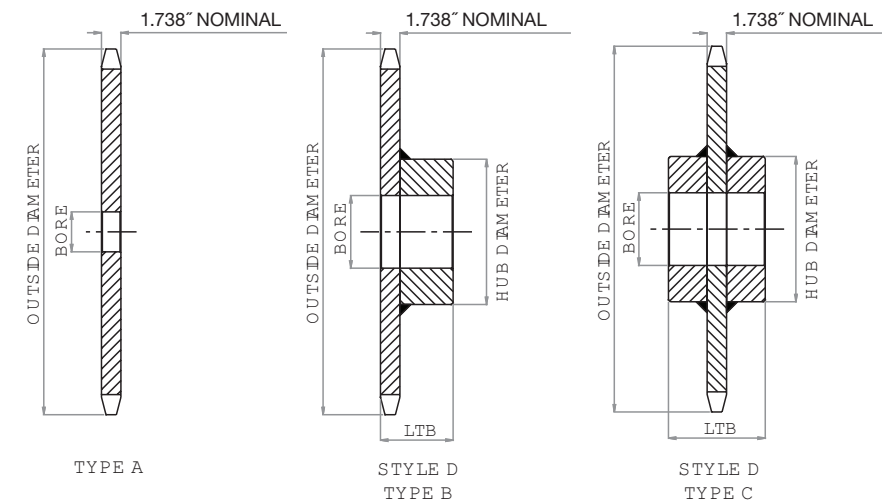
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

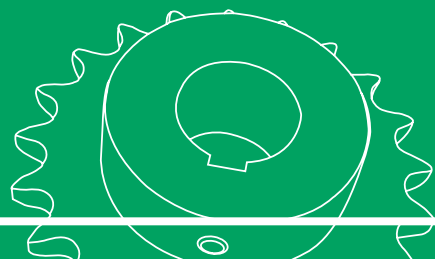
| No. Teeth | No. 240 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" & "C" Plain Bore | | | | | | |
|-----------|----------------------------------|------------|--------------|---------------------|----------|---------------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 10 | 11.030 | 9.708 | 7.833 | 1.500 | 30.00 | 1.500 | 4.500 | 6.500 | 3.375 | B | S | 49.00 |
| 11 | 12.020 | 10.648 | 8.665 | 1.500 | 37.00 | 1.500 | 4.750 | 7.000 | 3.875 | B | D | 66.00 |
| 12 | 13.000 | 11.591 | 9.716 | 1.500 | 45.00 | 1.500 | 5.375 | 7.500 | 3.875 | B | D | 72.00 |
| 13 | 13.970 | 12.536 | 10.569 | 1.500 | 54.00 | 1.500 | 5.375 | 7.500 | 3.875 | B | D | 81.00 |
| 14 | 14.940 | 13.482 | 11.607 | 1.500 | 62.00 | 1.500 | 5.375 | 7.500 | 3.875 | B | D | 88.00 |
| 15 | 15.910 | 14.429 | 12.475 | 1.500 | 68.00 | 1.500 | 5.375 | 7.500 | 3.875 | B | D | 98.00 |
| 16 | 16.880 | 15.377 | 13.502 | 1.500 | 82.00 | 1.500 | 5.500 | 8.000 | 4.125 | B | D | 120.00 |
| 17 | 17.850 | 16.327 | 14.382 | 1.500 | 93.00 | 1.500 | 5.500 | 8.000 | 4.125 | B | D | 137.00 |
| 18 | 18.810 | 17.276 | 15.401 | 1.500 | 108.00 | 1.500 | 5.500 | 8.000 | 4.125 | B | D | 142.00 |
| 19 | 19.780 | 18.227 | 16.289 | 1.500 | 120.00 | 1.500 | 5.500 | 8.000 | 4.125 | B | D | 154.00 |
| 20 | 20.740 | 19.177 | 17.302 | 1.500 | 128.00 | 1.500 | 5.500 | 8.000 | 4.125 | B | D | 169.00 |
| 21 | 21.710 | 20.129 | 18.197 | 1.500 | 148.00 | 1.500 | 5.500 | 8.000 | 4.125 | B | D | 186.00 |
| 25 | 25.550 | 23.936 | 22.014 | 1.500 | 208.00 | 1.500 | 5.500 | 8.000 | 4.125 | B | D | 254.00 |
| 30 | 30.340 | 28.700 | 26.825 | 1.500 | 310.00 | 1.500 | 6.000 | 9.000 | 6.250 | C | D | 398.00 |
| 35 | 35.130 | 33.467 | 31.559 | 1.500 | 416.00 | 1.500 | 6.000 | 9.000 | 6.250 | C | D | 527.00 |
| 40 | 39.920 | 38.237 | 36.362 | 1.500 | 548.00 | 1.500 | 7.000 | 10.000 | 6.750 | C | D | 672.00 |
| 45 | 44.700 | 43.007 | 41.106 | 1.500 | 702.00 | 1.500 | 7.000 | 10.000 | 6.750 | C | D | 850.00 |
| 54 | 53.310 | 51.595 | 49.720 | 1.500 | 1022.00 | 1.500 | 7.000 | 10.000 | 6.750 | C | D | 1148.00 |
| 60 | 59.040 | 57.322 | 55.447 | 1.500 | 1268.00 | 1.500 | 7.000 | 10.000 | 6.750 | C | D | 1419.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2040 1" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2040 |
| Pitch | 1" |
| Inside Width | 5/16" |
| Roller Diameter | 0.313" |
| Nominal Tooth Width: | 0.284" |

How to Order Code: Example Model # for 2040 Pitch Plain Bore Carbon Steel Sprockets

Conveyor or Drive Series standard roller Double Pitch sprockets

For use with Tsubaki C2040/A2040 Chain - 1" Pitch

| | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|--|--|
| A | 2040 | B | 21 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 2040: 1" Pitch | A: No Hub Extension | 23 | 25 | 28 | | |
| | | | 24 | 26 | 30 | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | B: Hub Extension One Side | 11 | 17 | 23 | | |
| | | | 12 | 18 | 24 | | |
| | | | 13 | 19 | 25 | | |
| | | | 14 | 20 | 26 | | |
| | | | 15 | 21 | 28 | | |
| | | 16 | 22 | 30 | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2040

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

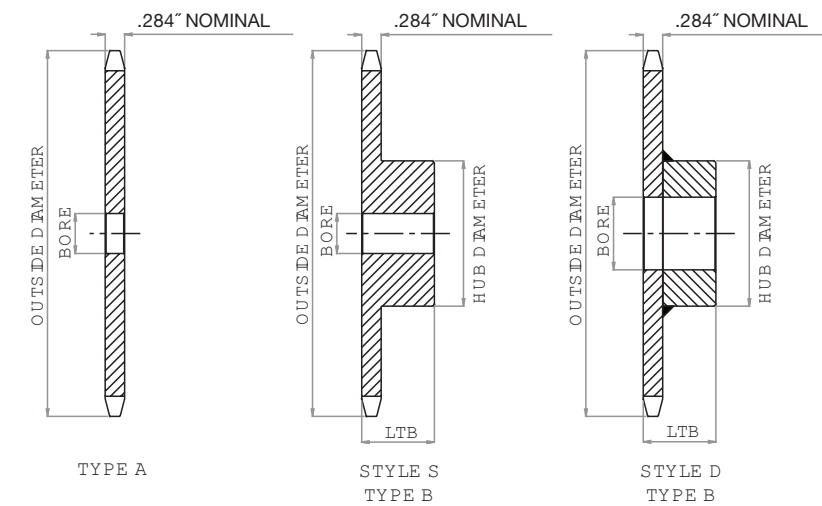
All dimensions in inches unless noted.

| No. Teeth | No. 2040 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 11 | 2.000 | 1.852 | 1.537 | N/A | N/A | 0.500 | 0.813 | 1.375 □ | 0.875 | B | S | 0.34 |
| 12 | 2.170 | 2.000 | 1.688 | N/A | N/A | 0.500 | 0.813 | 1.563 □ | 0.875 | B | S | 0.44 |
| 13 | 2.330 | 2.152 | 1.824 | N/A | N/A | 0.500 | 0.656 | 1.563 □ | 0.875 | B | S | 0.48 |
| 14 | 2.490 | 2.305 | 1.993 | N/A | N/A | 0.500 | 1.031 | 1.688 □ | 0.875 | B | S | 0.60 |
| 15 | 2.650 | 2.458 | 2.133 | N/A | N/A | 0.625 | 1.219 | 1.781 | 0.875 | B | S | 0.66 |
| 16 | 2.810 | 2.613 | 2.301 | N/A | N/A | 0.625 | 1.281 | 1.875 | 0.875 | B | S | 0.76 |
| 17 | 2.980 | 2.768 | 2.444 | N/A | N/A | 0.625 | 1.313 | 2.047 | 1.000 | B | S | 1.00 |
| 18 | 3.140 | 2.924 | 2.612 | N/A | N/A | 0.625 | 1.469 | 2.219 | 1.000 | B | S | 1.16 |
| 19 | 3.300 | 3.080 | 2.757 | N/A | N/A | 0.625 | 1.625 | 2.375 | 1.000 | B | S | 1.36 |
| 20 | 3.460 | 3.236 | 2.924 | N/A | N/A | 0.625 | 1.750 | 2.547 | 1.000 | B | S | 1.54 |
| 21 | 3.620 | 3.392 | 3.070 | N/A | N/A | 0.625 | 1.781 | 2.703 | 1.000 | B | S | 1.74 |
| 22 | 3.780 | 3.549 | 3.237 | N/A | N/A | 0.625 | 1.875 | 2.875 | 1.000 | B | S | 1.92 |
| 23 | 3.940 | 3.706 | 3.386 | 0.625 | 0.77 | 0.625 | 2.000 | 3.000 | 1.000 | B | D | 2.16 |
| 24 | 4.100 | 3.864 | 3.552 | 0.625 | 0.84 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 2.44 |
| 25 | 4.260 | 4.021 | 3.701 | 0.625 | 0.91 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 2.48 |
| 26 | 4.420 | 4.179 | 3.867 | 0.625 | 1.00 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 2.60 |
| 28 | 4.740 | 4.494 | 4.182 | 0.625 | 1.10 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 2.74 |
| 30 | 5.060 | 4.810 | 4.498 | 0.625 | 1.30 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 2.92 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

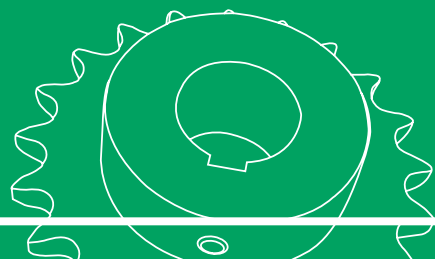
□ Has recessed groove in hub for chain clearance

N/A = Non applicable/Not Available as standard



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2042 1" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2042 |
| Pitch | 1" |
| Inside Width | 5/16" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.284" |

How to Order Code: Example Model # for 2042 Pitch Plain Bore Carbon Steel Sprockets

Conveyor Series large roller Double Pitch sprockets
For use with Tsubaki C2042 Chain - 1" Pitch

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|--|--|
| A | 2042 | B | 26 | | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | |
| A: Alteration Required | 2042: 1" Pitch | A: No Hub Extension | 16 | 21 | 26 | | | |
| | | | 17 | 22 | 28 | | | |
| | | | 18 | 23 | 30 | | | |
| | | | 19 | 24 | | | | |
| | | | 20 | 25 | | | | |
| | | B: Hub Extension One Side | 8 | 14 | 20 | 26 | | |
| | | | 9 | 15 | 21 | 28 | | |
| | | | 10 | 16 | 22 | 30 | | |
| | | | 11 | 17 | 23 | | | |
| | | | 12 | 18 | 24 | | | |
| | | | 13 | 19 | 25 | | | |
| | | | | | | | | |
| | | | | | | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2042

PLAIN BORE SPROCKET DIMENSIONS

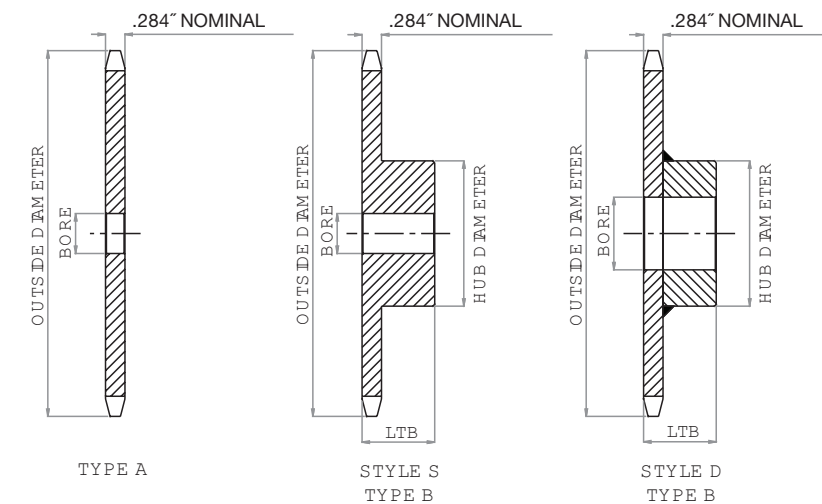
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. Teeth | No. 2042 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 8 | 3.010 | 2.613 | 1.988 | N/A | N/A | 0.625 | 1.281 | 1.875 | 0.875 | B | S | 0.72 |
| 9 | 3.350 | 2.924 | 2.255 | N/A | N/A | 0.625 | 1.469 | 2.219 | 0.875 | B | S | 1.02 |
| 10 | 3.680 | 3.236 | 2.611 | N/A | N/A | 0.625 | 1.750 | 2.547 | 1.000 | B | S | 1.50 |
| 11 | 4.000 | 3.549 | 2.888 | N/A | N/A | 0.625 | 1.875 | 2.625 | 1.000 | B | S | 1.68 |
| 12 | 4.330 | 3.864 | 3.239 | N/A | N/A | 0.625 | 2.250 | 3.063 | 1.000 | B | S | 2.22 |
| 13 | 4.660 | 4.179 | 3.523 | N/A | N/A | 0.625 | 2.250 | 3.250 | 1.000 | B | S | 2.56 |
| 14 | 4.980 | 4.494 | 3.869 | N/A | N/A | 0.625 | 2.250 | 3.250 | 1.000 | B | S | 2.72 |
| 15 | 5.300 | 4.810 | 4.158 | N/A | N/A | 0.625 | 2.250 | 3.250 | 1.000 | B | S | 2.90 |
| 16 | 5.630 | 5.126 | 4.501 | 0.594 | 1.38 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 3.10 |
| 17 | 5.950 | 5.442 | 4.794 | 0.594 | 1.66 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 3.40 |
| 18 | 6.270 | 5.759 | 5.134 | 0.594 | 1.88 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 3.56 |
| 19 | 6.590 | 6.076 | 5.430 | 0.594 | 2.06 | 0.625 | 2.250 | 3.250 | 1.000 | B | D | 3.72 |
| 20 | 6.910 | 6.392 | 5.768 | 0.719 | 2.40 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 4.72 |
| 21 | 7.240 | 6.710 | 6.066 | 0.719 | 2.62 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 4.84 |
| 22 | 7.560 | 7.027 | 6.402 | 0.719 | 2.88 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 5.04 |
| 23 | 7.880 | 7.344 | 6.702 | 0.719 | 3.14 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 5.18 |
| 24 | 8.200 | 7.661 | 7.036 | 0.719 | 3.22 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 5.58 |
| 25 | 8.520 | 7.979 | 7.338 | 0.719 | 3.50 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 5.96 |
| 26 | 8.840 | 8.296 | 7.671 | 0.719 | 3.74 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 6.22 |
| 28 | 9.480 | 8.931 | 8.307 | 0.719 | 4.76 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 6.78 |
| 30 | 10.110 | 9.567 | 8.942 | 0.719 | 5.08 | 0.750 | 2.375 | 3.500 | 1.125 | B | D | 7.56 |

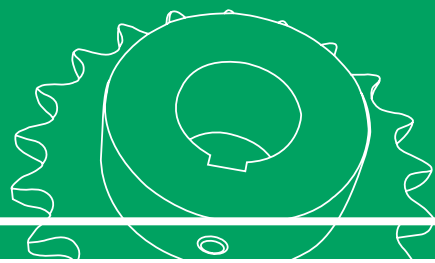
* Dimensions shown allow for standard keyway with set screw at 90 degrees

N/A = Non applicable/Not Available as standard



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2050 1 1/4" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2050 |
| Pitch | 1 1/4" |
| Inside Width | 3/8" |
| Roller Diameter | 0.400" |
| Nominal Tooth Width: | 0.343" |

How to Order Code: Example Model # for 2050 Pitch Plain Bore Carbon Steel Sprockets

Conveyor or Drive Series standard roller Double Pitch sprockets
For use with Tsubaki C2050/A2050 Chain - 1 1/4" Pitch

| | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|--|
| A | 2050 | B | 15 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 2050: 1 1/4" Pitch | A: No Hub Extension | 21 | 24 | 28 | | |
| | | | 22 | 25 | 30 | | |
| | | | 23 | 26 | | | |
| | | B: Hub Extension One Side | 11 | 17 | 23 | 30 | |
| | | | 12 | 18 | 24 | | |
| | | | 13 | 19 | 25 | | |
| | | | 14 | 20 | 26 | | |
| | | | 15 | 21 | 27 | | |
| | | | 16 | 22 | 28 | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2050

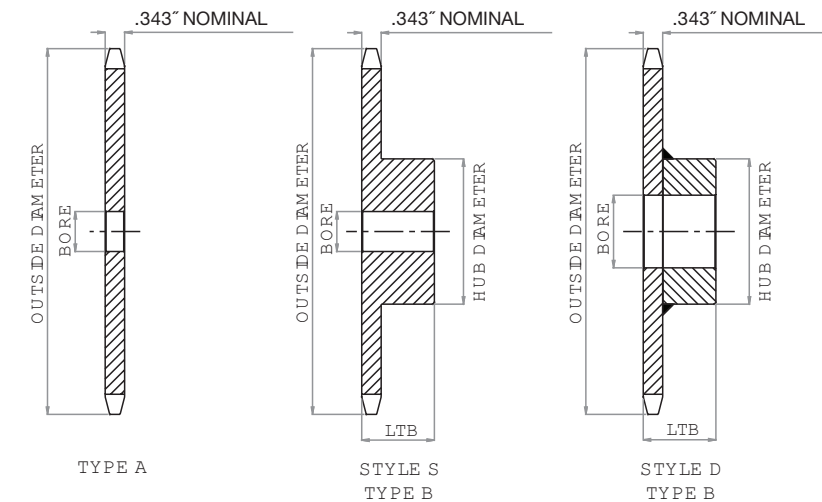
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

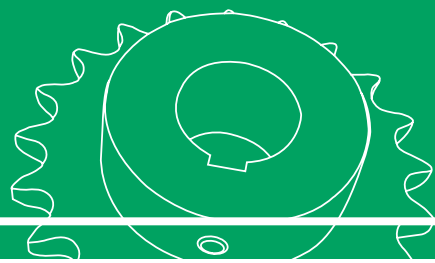
| No. Teeth | No. 2050 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 11 | 2.500 | 2.315 | 1.912 | N/A | N/A | 0.625 | 0.938 | 1.750 | 1.000 | B | S | 0.62 |
| 12 | 2.710 | 2.500 | 2.100 | N/A | N/A | 0.625 | 1.000 | 1.984 | 1.000 | B | S | 0.80 |
| 13 | 2.910 | 2.690 | 2.270 | N/A | N/A | 0.625 | 1.219 | 1.719 | 1.000 | B | S | 0.82 |
| 14 | 3.110 | 2.881 | 2.481 | N/A | N/A | 0.625 | 1.281 | 1.938 | 1.000 | B | S | 1.00 |
| 15 | 3.320 | 3.073 | 2.656 | N/A | N/A | 0.625 | 1.406 | 2.156 | 1.000 | B | S | 1.22 |
| 16 | 3.520 | 3.266 | 2.866 | N/A | N/A | 0.625 | 1.594 | 2.359 | 1.000 | B | S | 1.44 |
| 17 | 3.720 | 3.460 | 3.046 | N/A | N/A | 0.625 | 1.750 | 2.563 | 1.000 | B | S | 1.68 |
| 18 | 3.920 | 3.655 | 3.255 | N/A | N/A | 0.625 | 1.781 | 2.781 | 1.000 | B | S | 1.94 |
| 19 | 4.120 | 3.850 | 3.436 | N/A | N/A | 0.625 | 1.969 | 2.984 | 1.000 | B | S | 2.24 |
| 20 | 4.320 | 4.045 | 3.645 | N/A | N/A | 0.750 | 2.000 | 3.000 | 1.000 | B | D | 2.30 |
| 21 | 4.520 | 4.241 | 3.829 | 0.719 | 1.20 | 0.750 | 2.000 | 3.000 | 1.000 | B | D | 2.40 |
| 22 | 4.720 | 4.437 | 4.037 | 0.719 | 1.30 | 0.750 | 2.000 | 3.000 | 1.000 | B | S | 2.54 |
| 23 | 4.920 | 4.633 | 4.222 | 0.719 | 1.40 | 0.750 | 2.000 | 3.000 | 1.000 | B | D | 2.66 |
| 24 | 5.120 | 4.830 | 4.430 | 0.719 | 1.58 | 0.750 | 2.000 | 3.000 | 1.250 | B | D | 3.30 |
| 25 | 5.320 | 5.026 | 4.616 | 0.719 | 1.68 | 0.750 | 2.000 | 3.000 | 1.250 | B | D | 3.42 |
| 26 | 5.520 | 5.223 | 4.823 | 0.719 | 1.88 | 0.750 | 2.000 | 3.000 | 1.250 | B | D | 3.62 |
| 28 | 5.920 | 5.617 | 5.217 | 0.719 | 2.20 | 0.750 | 2.000 | 3.000 | 1.250 | B | D | 3.78 |
| 30 | 6.320 | 6.012 | 5.612 | 0.719 | 2.54 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 4.58 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees
N/A = Non applicable/Not Available as standard



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2052 1 1/4" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2052 |
| Pitch | 1 1/4" |
| Inside Width | 3/8" |
| Roller Diameter | 0.750" |
| Nominal Tooth Width: | 0.343" |

How to Order Code: Example Model # for 2052 Pitch Plain Bore Carbon Steel Sprockets

Conveyor Series large roller Double Pitch sprockets
For use with Tsubaki C2052 Chain - 1 1/4" Pitch

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|--|--|
| A | 2052 | B | 17 | | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | |
| A: Alteration Required | 2052: 1 1/4" Pitch | A: No Hub Extension | 12 | 18 | 24 | | | |
| | | | 13 | 19 | 25 | | | |
| | | | 14 | 20 | 26 | | | |
| | | | 15 | 21 | 28 | | | |
| | | | 16 | 22 | 30 | | | |
| | | | 17 | 23 | | | | |
| | | B: Hub Extension One Side | 8 | 14 | 20 | 26 | | |
| | | | 9 | 15 | 21 | 28 | | |
| | | | 10 | 16 | 22 | 30 | | |
| | | | 11 | 17 | 23 | | | |
| | | | 12 | 18 | 24 | | | |
| | | | 13 | 19 | 25 | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2052

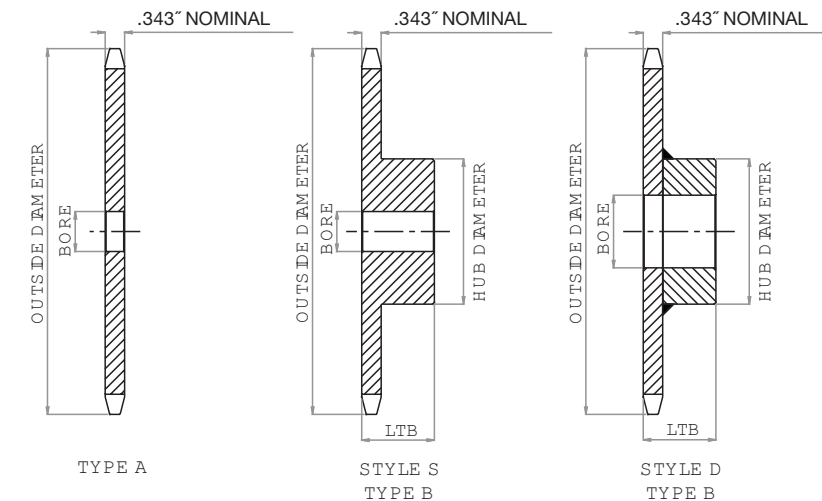
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

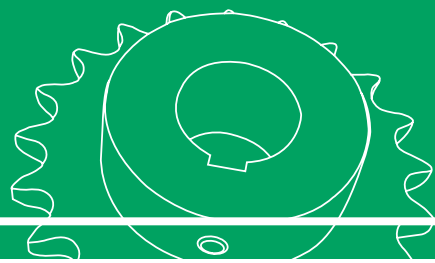
| No. Teeth | No. 2052 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 8 | 3.770 | 3.266 | 2.516 | N/A | N/A | 0.625 | 1.594 | 2.359 | 1.000 | B | S | 1.38 |
| 9 | 4.190 | 3.655 | 2.850 | N/A | N/A | 0.625 | 1.781 | 2.781 | 1.000 | B | S | 1.92 |
| 10 | 4.600 | 4.045 | 3.295 | N/A | N/A | 0.625 | 2.000 | 3.000 | 1.000 | B | S | 2.30 |
| 11 | 5.010 | 4.437 | 3.642 | N/A | N/A | 0.625 | 2.000 | 3.000 | 1.000 | B | S | 2.54 |
| 12 | 5.420 | 4.830 | 4.080 | 0.719 | 1.58 | 0.750 | 2.000 | 3.000 | 1.250 | B | D | 3.20 |
| 13 | 5.820 | 5.223 | 4.435 | 0.719 | 1.82 | 0.750 | 2.000 | 3.000 | 1.250 | B | D | 3.48 |
| 14 | 6.230 | 5.617 | 4.867 | 0.719 | 2.28 | 0.750 | 2.000 | 3.000 | 1.250 | B | D | 3.88 |
| 15 | 6.630 | 6.012 | 5.229 | 0.719 | 2.46 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 4.46 |
| 16 | 7.030 | 6.407 | 5.657 | 0.719 | 2.88 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 4.80 |
| 17 | 7.440 | 6.803 | 6.024 | 0.719 | 3.28 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 5.34 |
| 18 | 7.840 | 7.198 | 6.448 | 0.719 | 3.64 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 5.64 |
| 19 | 8.240 | 7.595 | 6.819 | 0.719 | 4.12 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 6.04 |
| 20 | 8.640 | 7.991 | 7.241 | 0.719 | 4.72 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 6.48 |
| 21 | 9.040 | 8.387 | 7.614 | 0.719 | 5.08 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 7.00 |
| 22 | 9.440 | 8.783 | 8.033 | 0.719 | 5.20 | 0.750 | 2.250 | 3.250 | 1.250 | B | D | 7.30 |
| 23 | 9.850 | 9.180 | 8.409 | 0.938 | 5.84 | 1.000 | 2.750 | 3.750 | 1.250 | B | D | 8.66 |
| 24 | 10.250 | 9.577 | 8.827 | 0.938 | 6.70 | 0.938 | 2.750 | 3.750 | 1.250 | B | D | 9.32 |
| 25 | 10.650 | 9.973 | 9.204 | 0.938 | 7.54 | 0.938 | 2.750 | 3.750 | 1.250 | B | D | 10.30 |
| 26 | 11.050 | 10.370 | 9.620 | 0.938 | 8.24 | 0.938 | 2.750 | 3.750 | 1.250 | B | D | 11.00 |
| 28 | 11.840 | 11.164 | 10.414 | 0.938 | 8.70 | 0.938 | 2.750 | 3.750 | 1.250 | B | D | 11.70 |
| 30 | 12.640 | 11.958 | 11.208 | 0.938 | 9.92 | 0.938 | 2.750 | 3.750 | 1.250 | B | D | 12.90 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees
N/A = Non applicable/Not Available as standard



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2060 1 1/2" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2060 |
| Pitch | 1 1/2" |
| Inside Width | 1/2" |
| Roller Diameter | 0.469" |
| Nominal Tooth Width: | 0.459" |

How to Order Code: Example Model # for 2060 Pitch Plain Bore Carbon Steel Sprockets

Conveyor or Drive Series standard roller Double Pitch sprockets
For use with Tsubaki C2060/A2060 Chain - 1 1/2" Pitch

| | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|--|--|
| A | 2060 | B | 13 | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 2060: 1 1/2" Pitch | A: No Hub Extension | 19 | 23 | 28 | | |
| | | | 20 | 24 | 30 | | |
| | | | 21 | 25 | | | |
| | | | 22 | 26 | | | |
| | | B: Hub Extension One Side | 11 | 17 | 23 | | |
| | | | 12 | 18 | 24 | | |
| | | | 13 | 19 | 25 | | |
| | | | 14 | 20 | 26 | | |
| | | | 15 | 21 | 28 | | |
| | | | 16 | 22 | 30 | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2060

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

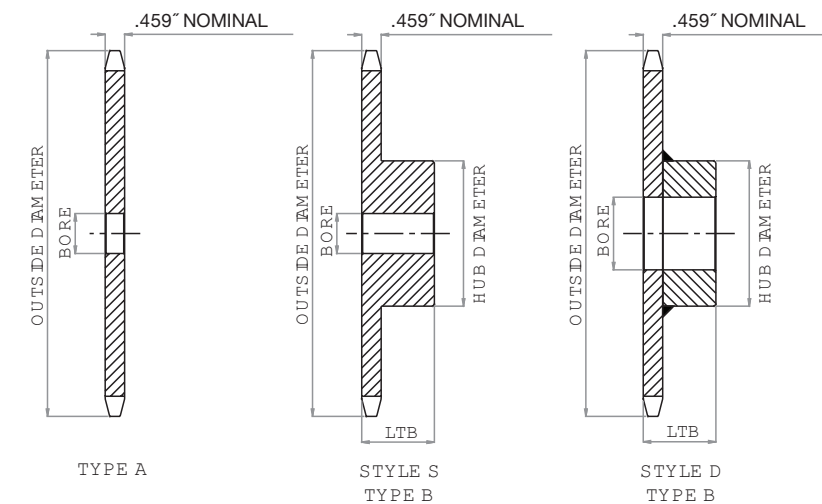
All dimensions in inches unless noted.

| No. Teeth | No. 2060 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 11 | 3.000 | 2.773 | 2.276 | N/A | N/A | 0.750 | 1.000 | 2.063 □ | 1.250 | B | S | 1.14 |
| 12 | 3.250 | 3.000 | 2.531 | N/A | N/A | 0.750 | 1.250 | 2.375 □ | 1.250 | B | S | 1.46 |
| 13 | 3.490 | 3.228 | 2.735 | N/A | N/A | 0.750 | 1.313 | 2.078 | 1.250 | B | S | 1.52 |
| 14 | 3.740 | 3.457 | 2.988 | N/A | N/A | 0.750 | 1.563 | 2.328 | 1.250 | B | S | 1.86 |
| 15 | 3.980 | 3.688 | 3.199 | N/A | N/A | 0.750 | 1.750 | 2.594 | 1.250 | B | S | 2.24 |
| 16 | 4.220 | 3.920 | 3.451 | N/A | N/A | 0.750 | 1.844 | 2.844 | 1.250 | B | S | 2.64 |
| 17 | 4.460 | 4.152 | 3.666 | N/A | N/A | 0.750 | 2.094 | 3.094 | 1.250 | B | S | 3.08 |
| 18 | 4.700 | 4.386 | 3.917 | N/A | N/A | 0.750 | 2.281 | 3.344 | 1.250 | B | S | 3.56 |
| 19 | 4.940 | 4.620 | 4.135 | 0.719 | 2.10 | 0.750 | 2.344 | 3.500 | 1.250 | B | D | 3.94 |
| 20 | 5.190 | 4.854 | 4.385 | 0.719 | 2.40 | 0.750 | 2.563 | 3.875 | 1.250 | B | D | 4.50 |
| 21 | 5.430 | 5.089 | 4.606 | 0.719 | 2.50 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 5.02 |
| 22 | 5.670 | 5.324 | 4.855 | 0.719 | 2.70 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 5.26 |
| 23 | 5.910 | 5.560 | 5.077 | 0.719 | 3.00 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 5.54 |
| 24 | 6.150 | 5.796 | 5.327 | 0.719 | 3.02 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 5.90 |
| 25 | 6.390 | 6.032 | 5.551 | 0.719 | 3.36 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 6.08 |
| 26 | 6.630 | 6.268 | 5.799 | 0.719 | 3.58 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 6.36 |
| 28 | 7.110 | 6.741 | 6.272 | 0.719 | 4.12 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 7.02 |
| 30 | 7.590 | 7.215 | 6.746 | 0.719 | 4.88 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 7.54 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

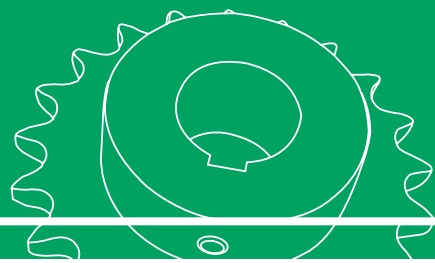
□ Has recessed groove in hub for chain clearance

N/A = Non applicable/Not Available as standard



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2062 1 1/2" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2062 |
| Pitch | 1 1/2" |
| Inside Width | 3/8" |
| Roller Diameter | 0.875" |
| Nominal Tooth Width: | 0.459" |

How to Order Code: Example Model # for 2062 Pitch Plain Bore Carbon Steel Sprockets

Conveyor Series large roller Double Pitch sprockets
For use with Tsubaki C2062/A2062 Chain - 1 1/2" Pitch

| | | | | | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|----|--|--|
| A | 2062 | B | 11 | | | | | |
| Altered ¹⁾ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | | |
| A: Alteration Required | 2062: 1 1/2" Pitch | A: No Hub Extension | 12 | 18 | 24 | | | |
| | | | 13 | 19 | 25 | | | |
| | | | 14 | 20 | 26 | | | |
| | | | 15 | 21 | 28 | | | |
| | | | 16 | 22 | 30 | | | |
| | | | 17 | 23 | | | | |
| | | B: Hub Extension One Side | 8 | 14 | 20 | 26 | | |
| | | | 9 | 15 | 21 | 28 | | |
| | | | 10 | 16 | 22 | 30 | | |
| | | | 11 | 17 | 23 | | | |
| | | | 12 | 18 | 24 | | | |
| | | | 13 | 19 | 25 | | | |

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2062

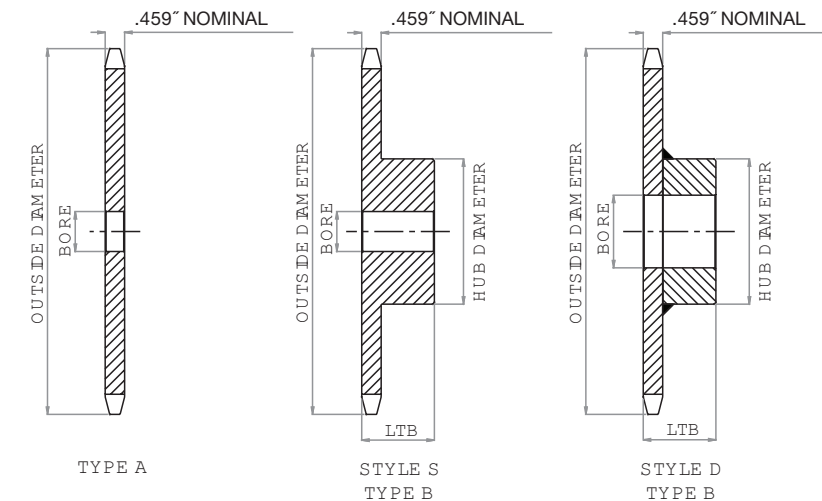
PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

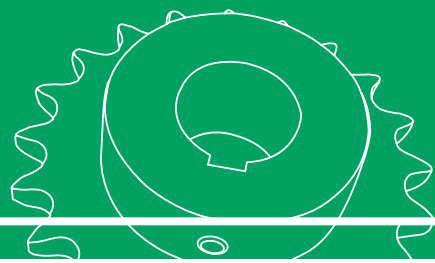
| No. Teeth | No. 2062 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 8 | 4.520 | 3.920 | 3.045 | N/A | N/A | 0.750 | 1.844 | 2.844 | 1.250 | B | S | 2.60 |
| 9 | 5.020 | 4.386 | 3.444 | N/A | N/A | 0.750 | 2.281 | 3.344 | 1.250 | B | S | 3.48 |
| 10 | 5.520 | 4.854 | 3.979 | N/A | N/A | 0.750 | 2.563 | 3.828 | 1.250 | B | S | 4.54 |
| 11 | 6.010 | 5.324 | 4.395 | N/A | N/A | 0.750 | 2.750 | 4.000 | 1.250 | B | S | 5.20 |
| 12 | 6.500 | 5.796 | 4.921 | 0.719 | 2.98 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 5.70 |
| 13 | 6.990 | 6.268 | 5.347 | 0.719 | 3.60 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 6.28 |
| 14 | 7.470 | 6.741 | 5.866 | 0.719 | 4.02 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 6.82 |
| 15 | 7.960 | 7.215 | 6.300 | 0.719 | 4.76 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 7.48 |
| 16 | 8.440 | 7.689 | 6.814 | 0.719 | 5.70 | 0.750 | 2.750 | 4.000 | 1.250 | B | D | 8.18 |
| 17 | 8.920 | 8.163 | 7.253 | 0.938 | 6.16 | 1.000 | 2.750 | 4.000 | 1.250 | B | D | 8.82 |
| 18 | 9.410 | 8.638 | 7.763 | 0.938 | 6.96 | 1.000 | 2.750 | 4.000 | 1.250 | B | D | 9.36 |
| 19 | 9.890 | 9.113 | 8.207 | 0.938 | 8.00 | 1.000 | 2.750 | 4.250 | 1.250 | B | D | 11.10 |
| 20 | 10.370 | 9.589 | 8.714 | 0.938 | 8.46 | 0.938 | 2.750 | 4.250 | 1.250 | B | D | 11.66 |
| 21 | 10.850 | 10.064 | 9.161 | 0.938 | 8.93 | 0.938 | 2.750 | 4.250 | 1.250 | B | D | 13.24 |
| 22 | 11.330 | 10.540 | 9.665 | 0.938 | 10.74 | 0.938 | 2.750 | 4.250 | 1.250 | B | D | 13.78 |
| 23 | 11.810 | 11.016 | 10.115 | 0.938 | 11.64 | 0.938 | 2.750 | 4.250 | 1.250 | B | D | 14.90 |
| 24 | 12.290 | 11.492 | 10.617 | 0.938 | 12.64 | 0.938 | 2.750 | 4.250 | 1.250 | B | D | 15.56 |
| 25 | 12.770 | 11.968 | 11.070 | 0.938 | 13.78 | 0.938 | 2.750 | 4.250 | 1.250 | B | D | 16.80 |
| 26 | 13.250 | 12.444 | 11.569 | 0.938 | 15.00 | 0.938 | 2.750 | 4.250 | 1.750 | B | D | 20.20 |
| 28 | 14.210 | 13.397 | 12.522 | 1.250 | 17.32 | 1.250 | 2.750 | 4.250 | 1.750 | B | D | 21.86 |
| 30 | 15.170 | 14.350 | 13.475 | 1.250 | 19.50 | 1.250 | 2.750 | 4.250 | 1.750 | B | D | 26.00 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees
N/A = Non applicable/Not Available as standard



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2080 2" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2080 |
| Pitch | 2" |
| Inside Width | 5/8" |
| Roller Diameter | 0.625" |
| Nominal Tooth Width: | 0.575" |

How to Order Code: Example Model # for 2080 Pitch Plain Bore Carbon Steel Sprockets

Conveyor Series large roller Double Pitch sprockets
For use with Tsubaki C2080/A2080 Chain - 2" Pitch

| A | 2080 | B | 20 | | | | |
|------------------------|-----------------------|---------------------------|-----------------|----|----|--|--|
| Altered ¹ | Chain Pitch in Inches | Hub Type | Number of Teeth | | | | |
| A: Alteration Required | 2080: 2" Pitch | A: No Hub Extension | 16 | 21 | 26 | | |
| | | | 17 | 22 | 28 | | |
| | | | 18 | 23 | 30 | | |
| | | | 19 | 24 | | | |
| | | | 20 | 25 | | | |
| | | | | | | | |
| | | B: Hub Extension One Side | 11 | 17 | 23 | | |
| | | | 12 | 18 | 24 | | |
| | | | 13 | 19 | 25 | | |
| | | | 14 | 20 | 26 | | |
| | | | 15 | 21 | 28 | | |
| | | | 16 | 22 | 30 | | |
| | | | | | | | |
| | | | | | | | |

¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2080

PLAIN BORE SPROCKET DIMENSIONS

U.S. Tsubaki Stock Sprockets

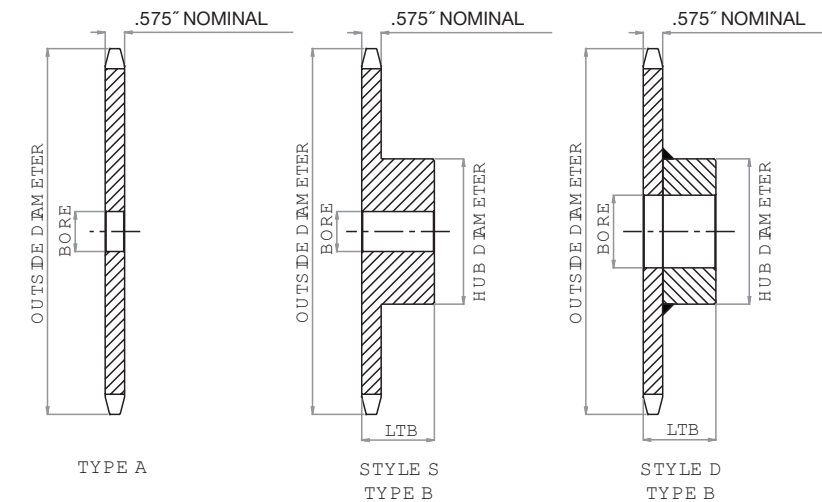
All dimensions in inches unless noted.

| No. Teeth | No. 2080 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 11 | 4.010 | 3.694 | 3.074 | N/A | N/A | 1.000 | 1.500 | 2.813 □ | 1.625 | B | S | 2.50 |
| 12 | 4.330 | 4.000 | 3.375 | N/A | N/A | 1.000 | 1.688 | 3.125 □ | 1.625 | B | S | 3.20 |
| 13 | 4.660 | 4.304 | 3.647 | N/A | N/A | 1.000 | 1.781 | 2.781 | 1.500 | B | S | 3.20 |
| 14 | 4.980 | 4.610 | 3.985 | N/A | N/A | 1.000 | 2.125 | 3.125 | 1.500 | B | S | 4.00 |
| 15 | 5.300 | 4.917 | 4.265 | N/A | N/A | 1.000 | 2.281 | 3.453 | 1.500 | B | S | 4.80 |
| 16 | 5.630 | 5.226 | 4.601 | 0.938 | 3.10 | 1.000 | 2.531 | 3.797 | 1.500 | B | D | 5.70 |
| 17 | 5.960 | 5.536 | 4.888 | 0.938 | 3.40 | 1.000 | 2.750 | 4.000 | 1.500 | B | D | 6.40 |
| 18 | 6.270 | 5.848 | 5.223 | 0.938 | 3.80 | 1.000 | 2.750 | 4.250 | 1.500 | B | D | 7.40 |
| 19 | 6.590 | 6.160 | 5.513 | 0.938 | 4.30 | 1.000 | 2.750 | 4.250 | 1.500 | B | D | 7.70 |
| 20 | 6.910 | 6.472 | 5.845 | 0.938 | 4.80 | 1.000 | 2.750 | 4.250 | 1.500 | B | D | 8.30 |
| 21 | 7.230 | 6.785 | 6.141 | 0.938 | 5.30 | 1.000 | 2.750 | 4.250 | 1.750 | B | D | 9.40 |
| 22 | 7.560 | 7.099 | 6.474 | 0.938 | 5.80 | 1.000 | 2.750 | 4.250 | 1.750 | B | D | 10.00 |
| 23 | 7.880 | 7.413 | 6.770 | 0.938 | 6.40 | 1.000 | 2.750 | 4.250 | 1.750 | B | D | 10.50 |
| 24 | 8.200 | 7.727 | 7.102 | 0.938 | 7.10 | 1.000 | 2.750 | 4.250 | 1.750 | B | D | 11.10 |
| 25 | 8.520 | 8.042 | 7.401 | 0.938 | 7.50 | 1.000 | 2.750 | 4.250 | 1.750 | B | D | 12.00 |
| 26 | 8.840 | 8.357 | 7.732 | 1.188 | 8.30 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 14.80 |
| 28 | 9.480 | 8.988 | 8.363 | 1.188 | 9.20 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 16.60 |
| 30 | 10.110 | 9.620 | 8.995 | 1.188 | 10.70 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 17.80 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees

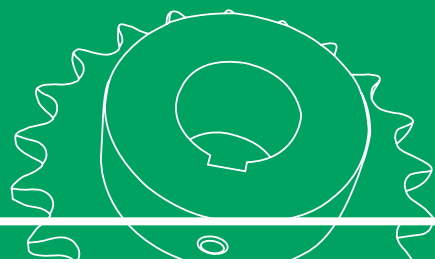
□ Has recessed groove in hub for chain clearance

N/A = Non applicable/Not Available as standard



HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



No. 2082 2" Pitch: DOUBLE PITCH

| Chain Data | |
|----------------------|--------|
| Size | 2082 |
| Pitch | 2" |
| Inside Width | 5/8" |
| Roller Diameter | 1.125" |
| Nominal Tooth Width: | 0.575" |

How to Order Code: Example Model # for 2082 Pitch Plain Bore Carbon Steel Sprockets

Conveyor Series large roller Double Pitch sprockets
For use with Tsubaki C2082/A2082 Chain - 2" Pitch

| A | 2082 | B | 28 | | | |
|------------------------|----------------|---------------------------|----|----|----|----|
| A: Alteration Required | 2082: 2" Pitch | A: No Hub Extension | 11 | 17 | 23 | |
| | | | 12 | 18 | 24 | |
| | | | 13 | 19 | 25 | |
| | | | 14 | 20 | 26 | |
| | | | 15 | 21 | 28 | |
| | | | 16 | 22 | 30 | |
| | | B: Hub Extension One Side | 8 | 14 | 20 | 26 |
| | | | 9 | 15 | 21 | 28 |
| | | | 10 | 16 | 22 | 30 |
| | | | 11 | 17 | 23 | |
| | | | 12 | 18 | 24 | |
| | | | 13 | 19 | 25 | |

¹Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.

No. 2082

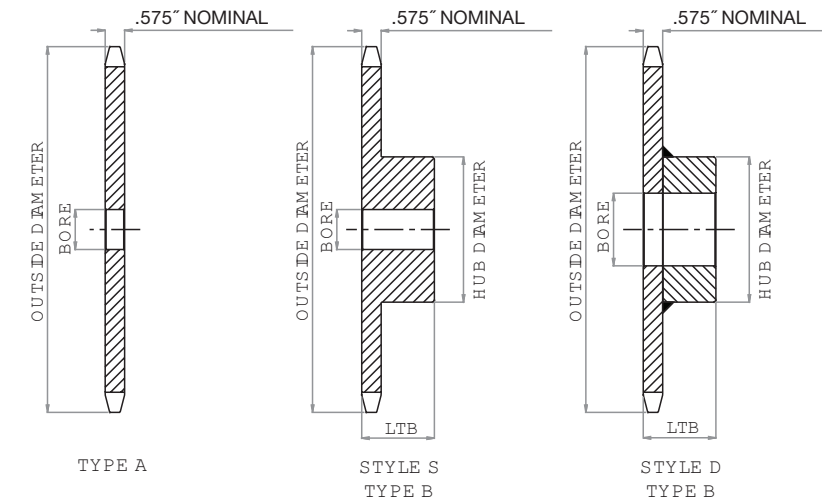
PLAIN BORE SPROCKET DIMENSIONS

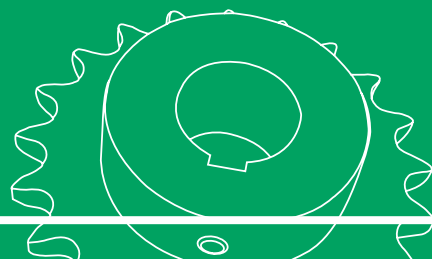
U.S. Tsubaki Stock Sprockets

All dimensions in inches unless noted.

| No. Teeth | No. 2082 Plain Bore Sprocket Dia. | | | Type "A" Plain Bore | | Type "B" Plain Bore | | | | | | |
|-----------|-----------------------------------|------------|--------------|---------------------|----------|---------------------|------------|----------|-------|----------|-----------|----------|
| | Outside Dia. | Pitch Dia. | Caliper Dia. | Plain Bore | Wt. Lbs. | Plain Bore | MAX Bore * | Hub Dia. | LTB | Hub Type | Hub Style | Wt. Lbs. |
| 8 | 6.030 | 5.226 | 4.101 | N/A | N/A | 1.000 | 2.531 | 3.797 | 1.750 | B | S | 6.40 |
| 9 | 6.700 | 5.848 | 4.634 | N/A | N/A | 1.000 | 2.750 | 4.250 | 1.750 | B | S | 8.20 |
| 10 | 7.360 | 6.472 | 5.347 | N/A | N/A | 1.000 | 2.750 | 4.250 | 1.750 | B | S | 9.20 |
| 11 | 8.010 | 7.099 | 5.902 | 0.938 | 5.70 | 1.000 | 2.750 | 4.250 | 1.750 | B | D | 10.10 |
| 12 | 8.660 | 7.727 | 6.602 | 0.938 | 6.80 | 1.000 | 2.750 | 4.250 | 1.750 | B | D | 11.20 |
| 13 | 9.310 | 8.357 | 7.171 | 1.188 | 7.70 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 15.00 |
| 14 | 9.960 | 8.988 | 7.863 | 1.188 | 9.10 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 15.80 |
| 15 | 10.610 | 9.620 | 8.442 | 1.188 | 10.70 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 17.80 |
| 16 | 11.250 | 10.252 | 9.127 | 1.188 | 12.40 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 19.30 |
| 17 | 11.900 | 10.885 | 9.713 | 1.188 | 14.10 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 21.40 |
| 18 | 12.540 | 11.512 | 10.393 | 1.188 | 15.40 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 22.90 |
| 19 | 13.190 | 12.151 | 10.985 | 1.188 | 18.00 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 24.40 |
| 20 | 13.830 | 12.785 | 11.660 | 1.188 | 19.20 | 1.188 | 3.250 | 4.750 | 2.000 | B | D | 26.70 |
| 21 | 14.470 | 13.419 | 12.256 | 1.250 | 20.80 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 28.40 |
| 22 | 15.110 | 14.053 | 12.928 | 1.250 | 23.70 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 32.20 |
| 23 | 15.750 | 14.688 | 13.528 | 1.250 | 24.90 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 34.90 |
| 24 | 16.390 | 15.323 | 14.198 | 1.250 | 27.60 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 37.80 |
| 25 | 17.030 | 15.958 | 14.801 | 1.250 | 30.20 | 1.250 | 3.250 | 4.750 | 2.000 | B | D | 39.60 |
| 26 | 17.670 | 16.593 | 15.468 | 1.250 | 32.80 | 1.250 | 3.500 | 5.250 | 2.000 | B | D | 41.50 |
| 28 | 18.950 | 17.863 | 16.738 | 1.250 | 38.60 | 1.250 | 3.500 | 5.250 | 2.000 | B | D | 47.70 |
| 30 | 20.230 | 19.134 | 18.009 | 1.250 | 43.80 | 1.250 | 3.500 | 5.250 | 2.000 | B | D | 54.50 |

* Dimensions shown allow for standard keyway with set screw at 90 degrees
N/A = Non applicable/Not Available as standard





DOUBLE PLUS SPROCKETS

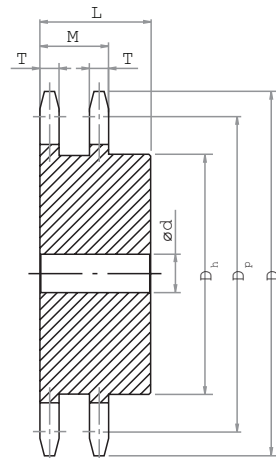
How to Order Code: Example Model # for Double Plus Carbon Steel Sprockets
Sprockets for Tsubaki Double Plus Chain Series VR, VRP, VR-SC and VRP-SC

| | | | |
|------------------------|-------------------------|---------------------------------|------------------|
| A | C2040 | VRP | -10 |
| Altered ^{!!} | Double Plus Chain Pitch | Chain Type: | Number of Teeth* |
| A: Alteration Required | C2030 | VRP: Plastic Roller Type | 10: 10 Teeth |
| | C2040 | | |
| | C2050 | | |
| | C2060 | | |
| | C2080 | | |

^{!!} Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.
* Number of Teeth*: Double Plus sprockets are available in 10 tooth configuration only as stock. Please consult factory for other options.

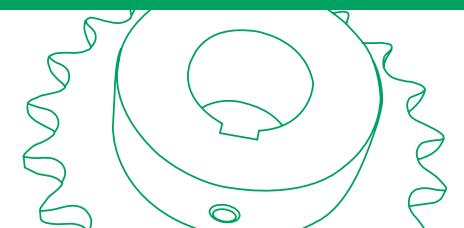
Dimensional data in inches unless noted.

| No. Teeth | Chain Pitch | Outside Dia. (Do) | Pitch Dia. (Dp) | Plain Bore (d) | Hub Dia. (DH) | Hub Length (L) | Hub Type | Tooth Thickness (T) | M | Wt. Lbs. |
|-----------|-------------|-------------------|-----------------|----------------|---------------|----------------|----------|---------------------|-------|----------|
| 10 | C2030 | 2.480 | 2.427 | 0.500 | 1.457 | 0.984 | B | 0.118 | 0.602 | 0.44 |
| 10 | C2040 | 3.346 | 3.326 | 0.630 | 2.047 | 1.575 | B | 0.157 | 0.803 | 1.76 |
| 10 | C2050 | 4.213 | 4.045 | 0.630 | 2.598 | 1.772 | B | 0.197 | 1.004 | 3.31 |
| 10 | C2060 | 5.039 | 4.854 | 0.748 | 3.189 | 1.969 | B | 0.236 | 1.201 | 5.52 |
| 10 | C2080 | 6.772 | 6.472 | 0.906 | 4.331 | 2.638 | B | 0.472 | 1.870 | 15.40 |

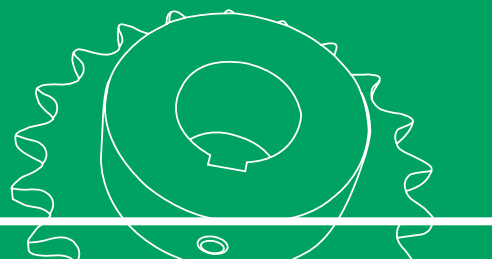


BUSHINGS, HUBS, IDLERS AND CHAIN TENSIONERS

| | |
|--|------------|
| Bushings, Hubs, Idlers and Chain Tensioners | 163 |
| TAPER-LOCK® Bushings | 164 - 167 |
| TAPER-LOCK® Weld-On Hubs | 168 - 169 |
| QD® Bushings | 170 - 173 |
| QD® Weld-On Hubs | 174 - 175 |
| Idler Sprockets | 176 - 178 |
| Chain Tensioners | 179 - 180 |



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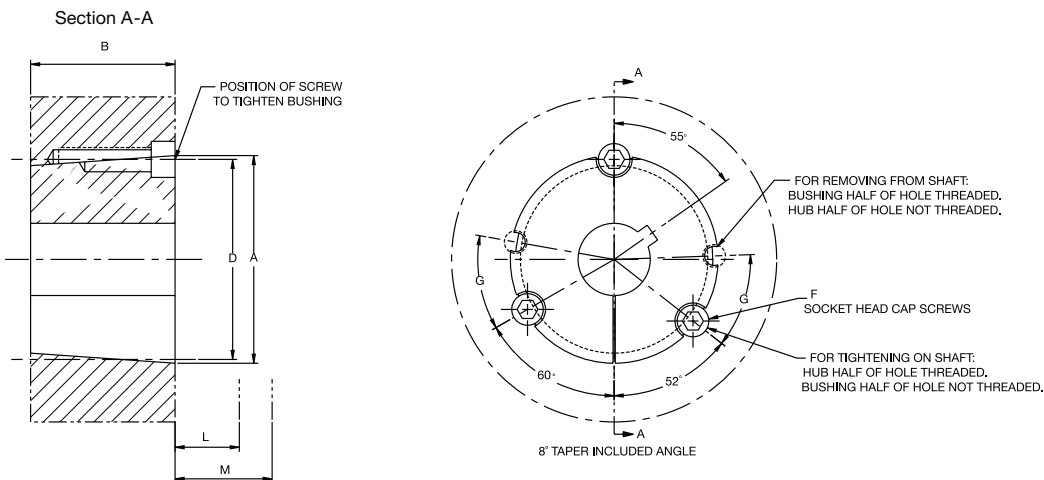
TAPER-LOCK® BUSHINGS

How to Order Code: Example Model # for TAPER-LOCK® Bushings

| A | 2517 | -1B |
|-------------------------------|----------------|--------------------------|
| Altered ¹⁾ | Bushing Number | Bore Size |
| A: Alteration Required | 1008 | Blank = stock plain bore |
| | 1108 | H 1/2" (0.500") |
| | 1210 | I 9/16" (0.563") |
| | 1215 | J 5/8" (0.625") |
| | 1310 | K 11/16" (0.688") |
| | 1610 | L 3/4" (0.750") |
| | 1615 | M 13/16" (0.813") |
| | 2012 | P 7/8" (0.875") |
| | 2517 | R 15/16" (0.938") |
| | 2525 | 1 1" (1.000") |
| | 3020 | 1A 1-1/16" (1.063") |
| | 3030 | 1B 1-1/8" (1.125") |
| | 3535 | |
| | 4040 | |
| | 4545 | |
| 5050 | | |

Above are examples.
There are more sizes available.
See chart on page 166.

¹⁾ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



TAPER-LOCK® BUSHINGS DIMENSIONS

All dimensions in inches unless noted.

| Bushing No. | Bore Range | | | | Torque Capacity (lb-in) | A | B | C | Wt. Lbs* |
|-------------|------------|------------------------|-----------------------|-----------------|-------------------------|-------|-------|-------|----------|
| | Minimum | Max w/ Standard Keyway | Max w/ Shallow Keyway | Max w/No Keyway | | | | | |
| 1008 | 0.500 | 0.875 | 1.000 | 1.000 | 1,200 | 1.386 | 0.875 | 1.328 | 0.20 |
| 1108 | 0.500 | 1.000 | 1.125 | 1.125 | 1,300 | 1.511 | 0.875 | 1.453 | 0.25 |
| 1210 | 0.500 | 1.250 | 1.250 | 1.250 | 3,600 | 1.875 | 1.000 | 1.750 | 0.55 |
| 1215 | 0.500 | 1.250 | 1.250 | 1.250 | 3,550 | 1.875 | 1.500 | 1.750 | 0.70 |
| 1310 | 0.500 | 1.375 | 1.438 | 1.438 | 3,850 | 2.000 | 1.000 | 1.875 | 0.70 |
| 1610 | 0.500 | 1.625 | 1.688 | 1.688 | 4,300 | 2.250 | 1.000 | 2.125 | 0.75 |
| 1615 | 0.500 | 1.625 | 1.688 | 1.688 | 4,300 | 2.250 | 1.500 | 2.125 | 1.00 |
| 2012 | 0.500 | 2.000 | 2.125 | 2.125 | 7,150 | 2.750 | 1.250 | 2.625 | 1.40 |
| 2517 | 0.500 | 2.438 | 2.688 | 2.688 | 11,600 | 3.375 | 1.750 | 3.250 | 3.20 |
| 2525 | 0.750 | 2.375 | 2.688 | 2.688 | 11,300 | 3.375 | 2.500 | 3.250 | 4.30 |
| 3020 | 0.875 | 3.000 | 3.250 | 3.250 | 24,000 | 4.250 | 2.000 | 4.000 | 5.80 |
| 3030 | 0.938 | 3.000 | 3.250 | 3.250 | 24,000 | 4.250 | 3.000 | 4.000 | 8.00 |
| 3535 | 1.188 | 3.500 | 3.938 | 3.938 | 44,800 | 5.000 | 3.500 | 4.830 | 11.00 |
| 4040 | 1.438 | 4.000 | 4.438 | 4.438 | 77,300 | 5.750 | 4.000 | 5.540 | 17.00 |
| 4545 | 1.938 | 4.500 | 4.938 | 4.938 | 110,000 | 6.375 | 4.500 | 6.130 | 24.00 |
| 5050 | 2.438 | 5.000 | 5.313 | 5.313 | 126,000 | 7.000 | 5.000 | 6.720 | 32.00 |

* Bushing weight changes with bore size. Weight depicted reflects approximate weight.

NOTE: Torque Capacity shown is for light starting and steady running. For more sever applications apply Service Factor as needed.

All dimensions in inches unless noted.

| Bushing No. | Locking Screws (F) | | Clearance L* | | Clearance M# | | Hex Key Torque in./lbs |
|-------------|--------------------|-----|--------------|---------------|--------------|---------------|------------------------|
| | Size | Qt. | Std. Hey Key | Short Hex Key | Std. Hey Key | Short Hex Key | |
| 1008 | .250 X .500 | 2 | 1.125 | 0.625 | 1.250 | 0.750 | 55 |
| 1108 | .250 X .500 | 2 | 1.125 | 0.625 | 1.250 | 0.750 | 55 |
| 1210 | .375 X .625 | 2 | 1.375 | 0.813 | 1.625 | 1.063 | 175 |
| 1215 | .375 X .625 | 2 | 1.375 | 0.813 | 1.625 | 1.063 | 175 |
| 1310 | .375 X .625 | 2 | 1.375 | 0.813 | 1.625 | 1.063 | 175 |
| 1610 | .375 X .625 | 2 | 1.375 | 0.813 | 1.625 | 1.063 | 175 |
| 1615 | .375 X .625 | 2 | 1.375 | 0.813 | 1.625 | 1.063 | 175 |
| 2012 | .438 X .875 | 2 | 1.563 | 0.938 | 2.000 | 1.375 | 280 |
| 2517 | .500 X 1.000 | 2 | 1.625 | 1.000 | 2.250 | 1.625 | 430 |
| 2525 | .500 X 1.000 | 2 | 1.625 | 1.000 | 2.250 | 1.625 | 430 |
| 3020 | .625 X 1.250 | 2 | 1.813 | 1.188 | 2.688 | 2.063 | 800 |
| 3030 | .625 X 1.250 | 2 | 1.813 | 1.188 | 2.688 | 2.063 | 800 |
| 3535 | .500 X 1.500 | 3 | 2.000 | 1.313 | 3.375 | 2.688 | 1000 |
| 4040 | .625 X 1.750 | 3 | 2.375 | 1.625 | 4.125 | 3.375 | 1700 |
| 4545 | .750 X 2.000 | 3 | 2.625 | 1.938 | 4.750 | 4.063 | 2450 |
| 5050 | .875 X 2.250 | 3 | 2.813 | 2.313 | 5.250 | 4.813 | 3100 |

* Space required to tighten bushing. Also space required to loosen screws to permit removal of hub by puller.

Space required to remove bushing using jackscrews - no puller required

Short Hex Key = Standard hex key cut to minimum usable length.

TAPER-LOCK® BUSHINGS

| Bore Size in Inches | Item Code | Bushing Number | | | | | | | | | | | | | | | |
|---------------------|-----------|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1008 | 1108 | 1210 | 1215 | 1310 | 1610 | 1615 | 2012 | 2517 | 2525 | 3020 | 3030 | 3535 | 4040 | 4545 | 5050 |
| 1/2" | H | • | • | • | • | • | • | • | • | • | | | | | | | |
| 9/16" | I | • | • | • | • | • | • | • | • | | | | | | | | |
| 5/8" | J | • | • | • | • | • | • | • | • | | | | | | | | |
| 11/16" | K | • | • | • | • | • | • | • | • | | | | | | | | |
| 3/4" | L | • | • | • | • | • | • | • | • | • | | | | | | | |
| 13/16" | M | • | • | • | • | • | • | • | • | • | | | | | | | |
| 7/8" | P | • | • | • | • | • | • | • | • | • | • | | | | | | |
| 15/16" | R | S | • | • | • | • | • | • | • | • | • | • | | | | | |
| 1" | 1 | S | • | • | • | • | • | • | • | • | • | • | • | | | | |
| 1-1/16" | 1A | | S | • | • | • | • | • | • | • | • | • | • | | | | |
| 1-1/8" | 1B | | S | • | • | • | • | • | • | • | • | • | • | | | | |
| 1-3/16" | 1C | | | • | • | • | • | • | • | • | • | • | • | • | | | |
| 1-1/4" | 1D | | | • | • | • | • | • | • | • | • | • | • | • | | | |
| 1-5/16" | 1E | | | | | • | • | • | • | • | • | • | • | • | | | |
| 1-3/8" | 1F | | | | | • | • | • | • | • | • | • | • | • | | | |
| 1-7/16" | 1G | | | | | | S | • | • | • | • | • | • | • | • | | |
| 1-1/2" | 1H | | | | | | | • | • | • | • | • | • | • | • | | |
| 1-9/16" | 1I | | | | | | | S | S | • | • | • | • | • | • | | |
| 1-5/8" | 1J | | | | | | | S | S | • | • | • | • | • | • | | |
| 1-11/16" | 1K | | | | | | | S | S | • | • | • | • | • | • | | |
| 1-3/4" | 1L | | | | | | | | | • | • | • | • | • | • | | |
| 1-13/16" | 1M | | | | | | | | | • | • | • | • | • | • | | |
| 1-7/8" | 1P | | | | | | | | | • | • | • | • | • | • | | |
| 1-15/16" | 1R | | | | | | | | | S | • | • | • | • | • | • | |
| 2" | 2 | | | | | | | | | S | • | • | • | • | • | • | |
| 2-1/16" | 2A | | | | | | | | | | • | • | • | • | • | • | |
| 2-1/8" | 2B | | | | | | | | | S | • | • | • | • | • | • | |
| 2-3/16" | 2C | | | | | | | | | | • | • | • | • | • | • | |
| 2-1/4" | 2D | | | | | | | | | | • | • | • | • | • | • | |
| 2-5/16" | 2E | | | | | | | | | S | S | • | • | • | • | • | |
| 2-3/8" | 2F | | | | | | | | | S | S | • | • | • | • | • | |
| 2-7/16" | 2G | | | | | | | | | S | S | • | • | • | • | • | • |
| 2-1/2" | 2H | | | | | | | | | S | S | • | • | • | • | • | • |
| 2-9/16" | 2I | | | | | | | | | | • | • | • | • | • | • | |
| 2-5/8" | 2J | | | | | | | | | S | • | • | • | • | • | • | |
| 2-11/16" | 2K | | | | | | | | | S | • | • | • | • | • | • | |
| 2-3/4" | 2L | | | | | | | | | | • | • | • | • | • | • | |
| 2-13/16" | 2M | | | | | | | | | | S | • | • | • | • | • | |
| 2-7/8" | 2P | | | | | | | | | | S | S | • | • | • | • | |
| 2-15/16" | 2R | | | | | | | | | | S | S | • | • | • | • | • |
| 3" | 3 | | | | | | | | | | S | S | • | • | • | • | |
| 3-1/8" | 3B | | | | | | | | | | S | S | • | • | • | • | |
| 3-3/16" | 3C | | | | | | | | | | S | S | • | • | • | • | |
| 3-1/4" | 3D | | | | | | | | | | S | S | • | • | • | • | |
| 3-5/16" | 3E | | | | | | | | | | | S | • | • | • | • | |
| 3-3/8" | 3F | | | | | | | | | | | S | • | • | • | • | |
| 3-7/16" | 3G | | | | | | | | | | | S | • | • | • | • | |
| 3-1/2" | 3H | | | | | | | | | | | S | • | • | • | • | |
| 3-5/8" | 3J | | | | | | | | | | | S | • | • | • | • | • |
| 3-11/16" | 3K | | | | | | | | | | | S | S | • | • | • | |
| 3-3/4" | 3L | | | | | | | | | | | S | S | • | • | • | |
| 3-7/8" | 3P | | | | | | | | | | | S | S | • | • | • | • |
| 3-15/16" | 3R | | | | | | | | | | | S | S | • | • | • | • |
| 4" | 4 | | | | | | | | | | | | S | • | • | • | • |
| 4-1/8" | 4B | | | | | | | | | | | | S | • | • | • | • |
| 4-3/16" | 4C | | | | | | | | | | | | | S | • | • | • |
| 4-1/4" | 4D | | | | | | | | | | | | | S | • | • | • |
| 4-3/8" | 4F | | | | | | | | | | | | | | S | • | • |
| 4-7/16" | 4G | | | | | | | | | | | | | S | • | • | • |
| 4-1/2" | 4H | | | | | | | | | | | | | | S | • | • |
| 4-3/4" | 4P | | | | | | | | | | | | | | | S | S |
| 4-15/16" | 4R | | | | | | | | | | | | | | | S | S |
| 5" | 5 | | | | | | | | | | | | | | | | S |

See page 194 for Shallow keyway dimensions.

• Denotes stocking item

S = Shallow keyway in hub

TAPER-LOCK® BUSHING INSTALLATION AND REMOVAL

TAPER-LOCK® Bushing Installation

- 1 Clean and degrease the bore and tapered surface of the bushing and the tapered bore of the pulley/hub/sprocket.
- 2 Insert the bushing into the pulley/hub/sprocket bore and line up the holes (Half threaded holes must line up the half straight non-threaded holes).
- 3 Lightly oil the locking screws and insert but do not tighten yet.
- 4 When using a key, it should be fitted to the shaft keyway. There should be a top clearance between the key and the keyway in the mating bushing.
- 5 Clean and degrease the shaft. Fit pulley/hub/sprocket onto the shaft and locate in the desired position.
- 6 Using a hexagon socket wrench, gradually tighten the locking screws in accordance with the required tightening torque.
- 7 When the drive has been operating under load for a short period, approximately 30 to 60 minutes, stop the equipment and check that the screws remain at the required tightening torque. Adjust if necessary.
- 8 To avoid the ingress of dirt, fill all empty holes with grease.

TAPER-LOCK® Bushing Removal

- A Remove any loading to the equipment to enable a safe removal of components.
- B Slacken and remove all locking screws.
- C Add lubricant to the previously removed screws and insert into jack-out hole/holes in the bushing.
- D Tighten the screws uniformly and alternately until the bushing is loose and the pulley/hub/sprocket can be moved freely on the shaft.
- E Remove the bushing/pulley/hub/sprocket assembly from the shaft.

TAPER-LOCK® WELD-ON HUBS

U.S. Tsubaki offers the most complete line of TAPER-LOCK® weld-on hubs for insertion and welding to produce “B” type sprockets, sheaves, and other applications without hub protrusion. To provide greater strength for this type of shaft locking mechanism and to reduce heat distortion caused by welding, these hubs are dimensionally interchangeable with our sprocket items.

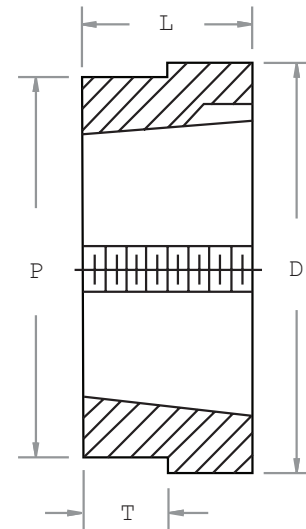
Special dimension hubs are available per your application requirements on a Made-To-Order basis. All stock U.S. Tsubaki hubs are made from 1045 steel bar stock. No powdered or sintered metal is used. The TAPER-LOCK® weld-on hubs listed below include the appropriate tapered bores and mounting holes to mate with U.S. Tsubaki sprockets and other U.S. sprocket manufactures that conform to ANSI specifications.

TAPER-LOCK® WELD-ON HUBS

All dimensions in inches unless noted.

| Model # | Use with Bushing # | D | P | L | T | Wt. Lbs |
|---------|--------------------|-------|---------|-------|-------|---------|
| 35TL1 | 1610 | 3.000 | 2.875 | 1.000 | 0.141 | 0.80 |
| 41TL1 | 1610 | 3.000 | 2.875 | 1.000 | 0.219 | 0.80 |
| 40TL1 | 1610 | 3.000 | 2.875 | 1.000 | 0.250 | 0.80 |
| 40TL2 | 2012 | 3.625 | 3.438 | 1.250 | 0.250 | 1.50 |
| 40TL3 | 2517 | 4.250 | 4.125 | 1.750 | 0.250 | 2.70 |
| 50TL1 | 2012 | 3.625 | 3.438 | 1.250 | 0.313 | 1.50 |
| 50TL2 | 2517 | 4.250 | 4.125 | 1.750 | 0.313 | 2.70 |
| 60TL1 | 2012 | 3.625 | 3.438 | 1.250 | 0.438 | 1.50 |
| 60TL2 | 2517 | 4.250 | 4.125 | 1.750 | 0.438 | 2.70 |
| 80TL1 | 2012 | 3.625 | 3.438 | 1.250 | 0.563 | 1.50 |
| 80TL2 | 2517 | 4.250 | 4.125 | 1.750 | 0.563 | 2.70 |
| 80TL3 | 3020 | 5.250 | 5.000 | 2.000 | 0.563 | 4.30 |
| 100TL1 | 2517 | 4.500 | 4.125 | 1.750 | 0.688 | 2.70 |
| 100TL2 | 3020 | 5.250 | 5.000 | 2.000 | 0.688 | 4.30 |
| 120TL1 | 2517 | 4.250 | 4.000 | 1.750 | 0.875 | 2.60 |
| 120TL2 | 3020 | 5.250 | 5.000 | 2.000 | 0.875 | 4.20 |
| 120TL3 | 3535 | 6.500 | 6.500 * | 3.500 | - | 13.00 |
| 140TL1 | 4040 | 7.750 | 7.750 * | 4.000 | - | 25.00 |
| 160TL1 | 3020 | 5.250 | 5.000 | 2.000 | 1.125 | 4.00 |
| 160TL2 | 3535 | 6.500 | 6.250 | 3.500 | 1.125 | 12.60 |
| 160TL3 | 4545 | 8.750 | 8.750 * | 4.500 | - | 42.00 |

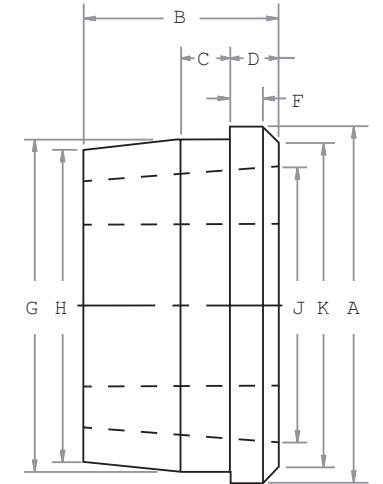
* These items have no step on the hubs.



TAPER-LOCK® WELD-ON HUBS

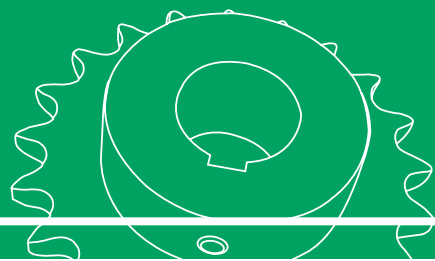
TAPER-LOCK® TYPE W WELD-ON HUBS

TAPER-LOCK® type W weld-on hubs are designed for use in applications such as welding to plate sprockets, pulleys, and agitators. Each is made of steel, drilled, tapped, and taper bored for TAPER-LOCK® bushings. The W-series Weld-On Hubs are generally used for severe duty applications.



All dimensions in inches unless noted.

| Hub Number | Use with Bushing # | A | B | C | D | F | G | H | J | K | Wt. Lbs |
|------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| W12 | 1215 | 2.875 | 1.500 | 0.375 | 0.625 | 0.375 | 2.500 | 2.375 | 1.875 | 2.625 | 1.30 |
| W16 | 1615 | 3.250 | 1.500 | 0.375 | 0.625 | 0.375 | 2.875 | 2.750 | 2.375 | 3.000 | 1.50 |
| W25 | 2517 | 4.875 | 1.750 | 0.500 | 0.750 | 0.375 | 4.375 | 4.250 | 3.375 | 4.625 | 4.00 |
| W30 | 3030 | 5.500 | 3.000 | 0.750 | 0.750 | 0.250 | 5.125 | 4.813 | 4.125 | 5.000 | 8.60 |
| W35 | 3535 | 6.750 | 3.500 | 1.250 | 1.000 | 0.375 | 6.250 | 5.938 | 5.000 | 6.000 | 15.00 |
| W40 | 4040 | 7.750 | 4.000 | 1.500 | 1.000 | 0.375 | 7.250 | 6.875 | 5.750 | 7.000 | 29.00 |
| W45 | 4545 | 8.750 | 4.500 | 1.750 | 1.000 | 0.375 | 8.000 | 7.625 | 6.375 | 8.000 | 42.00 |



QD® BUSHINGS

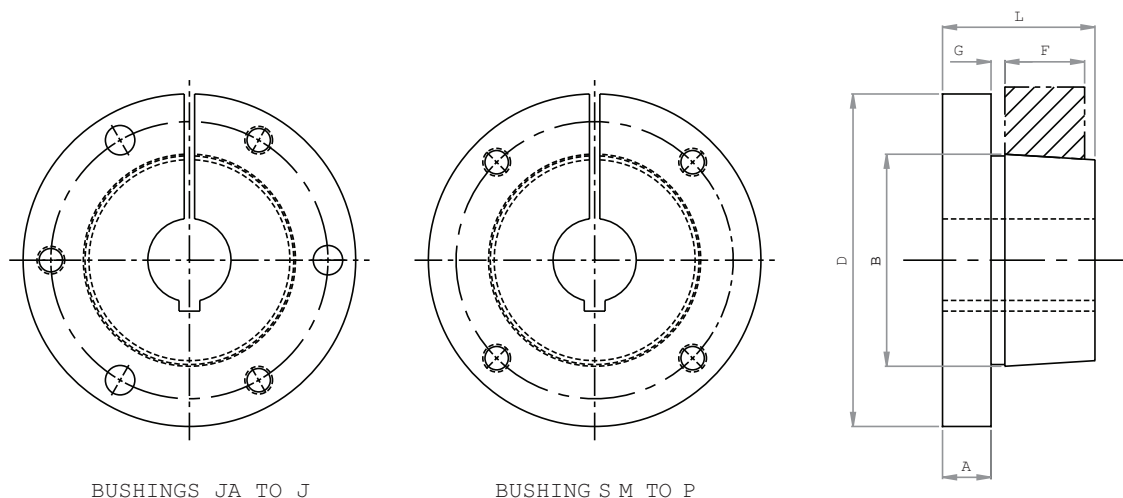
How to Order Code: Example Model # for QD® Bushings

| | | |
|----------|------------|------------|
| A | SDS | -1B |
|----------|------------|------------|

| Altered ¹¹ | QD® Bushing | Bore Size | | |
|------------------------|-------------|--------------------------|---------|----------|
| A: Alteration Required | JA | Blank = stock plain bore | | |
| | SH | H | 1/2" | (0.500") |
| | SDS | I | 9/16" | (0.563") |
| | SDS | J | 5/8" | (0.625") |
| | SK | K | 11/16" | (0.688") |
| | SF | L | 3/4" | (0.750") |
| | E | M | 13/16" | (0.813") |
| | F | P | 7/8" | (0.875") |
| | J | R | 15/16" | (0.938") |
| | M | 1 | 1" | (1.000") |
| | N | 1A | 1-1/16" | (1.063") |
| | P | 1B | 1-1/8" | (1.125") |

Above are examples. There are more sizes available. Please see QD® Bushing selection chart on pages 172 and 173.

¹¹ Alteration field only to be denoted if a deviation from standard is required. Please reference Alterations in engineering section, page 182.



BUSHINGS JA TO J

BUSHING S M TO P

QD® BUSHINGS

QD® Bushing Dimensional Information

All dimensions in inches unless noted.

| QD® Bushing | Bore Range | | | | Torque Capacity (lb-in) | A | B | D | F | G | L | Wt. Lbs |
|-------------|------------|------------------------|-----------------------|-----------------|-------------------------|-------|-------|--------|-------|-------|-------|---------|
| | Min. | Max w/ Standard Keyway | Max w/ Shallow Keyway | Max w/No Keyway | | | | | | | | |
| JA | 0.500 | 1.000 | 1.188 | 1.250 | 1,000 | 0.375 | 1.375 | 2.000 | 0.563 | 0.125 | 1.063 | 0.80 |
| SH | 0.500 | 1.375 | 1.625 | 1.688 | 3,500 | 0.438 | 1.871 | 2.625 | 0.813 | 0.125 | 1.313 | 0.70 |
| SDS | 0.500 | 1.625 | 1.938 | 2.000 | 5,000 | 0.438 | 2.187 | 3.188 | 0.760 | 0.125 | 1.313 | 1.00 |
| SD | 0.500 | 1.625 | 1.938 | 2.000 | 5,000 | 0.438 | 2.187 | 3.188 | 1.250 | 0.125 | 1.813 | 1.20 |
| SK | 0.500 | 2.125 | 2.500 | 2.625 | 7,000 | 0.563 | 2.812 | 3.875 | 1.250 | 0.125 | 1.938 | 2.10 |
| SF | 0.500 | 2.313 | 2.938 | 2.938 | 11,000 | 0.625 | 3.125 | 4.625 | 1.250 | 0.125 | 2.063 | 3.10 |
| E | 0.875 | 2.875 | 3.500 | - | 20,000 | 0.873 | 3.834 | 6.000 | 1.625 | 0.250 | 2.750 | 7.10 |
| F | 1.000 | 3.250 | 3.938 | 4.000 | 30,000 | 0.938 | 4.437 | 6.625 | 2.500 | 0.344 | 3.750 | 8.70 |
| J | 1.500 | 3.750 | 4.500 | - | 45,000 | 1.125 | 5.148 | 7.250 | 3.188 | 0.375 | 4.625 | 16.80 |
| M | 2.000 | 4.750 | 5.500 | - | 85,000 | 1.250 | 6.500 | 9.000 | 5.188 | 0.400 | 6.750 | 56.00 |
| N | 2.438 | 5.000 | 6.000 | - | 150,000 | 1.500 | 7.000 | 10.000 | 6.250 | 0.563 | 8.125 | 68.00 |
| P | 2.938 | 5.938 | 7.000 | - | 250,000 | 1.750 | 8.250 | 11.750 | 7.250 | 0.625 | 9.375 | 120.00 |

All dimensions in inches unless noted.

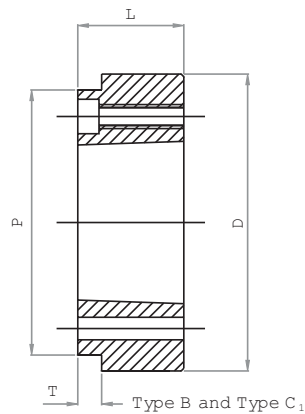
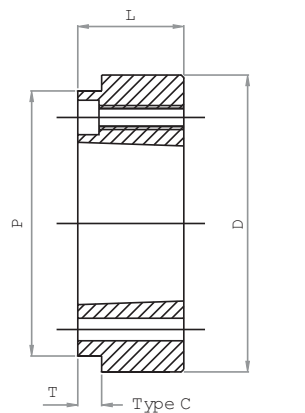
| QD® Bushing | Cap Screws | | | Bolt Torque (FT. LBS.) |
|-------------|--------------|---------------|--------------|------------------------|
| | Size | Quantity Req. | Bolt Circle* | |
| JA | 10 - 24 x 1 | 3 | 1.656 | 5 |
| SH | 1/4 x 1 3/8 | 3 | 2.250 | 9 |
| SDS | 1/4 x 1 3/8 | 3 | 2.688 | 9 |
| SD | 1/4 x 1 7/8 | 3 | 2.688 | 9 |
| SK | 5/16 x 2 | 3 | 3.313 | 15 |
| SF | 3/8 x 2 | 3 | 3.875 | 30 |
| E | 1/2 x 2 3/4 | 3 | 5.000 | 60 |
| F | 9/16 x 3 5/8 | 3 | 5.625 | 75 |
| J | 5/8 x 4 1/2 | 3 | 6.250 | 135 |
| M | 3/4 x 6 3/4 | 4 | 7.875 | 225 |
| N | 7/8 x 8 | 4 | 8.500 | 300 |
| P | 1 x 9 1/2 | 4 | 10.000 | 450 |

QD[®] WELD-ON HUBS

Tsubaki offers the most complete line of “QD” Style weld-on hubs for insertion and welding to produce “B” style sprockets, sheaves, and other applications. 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 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 “QD” Style Weld-On hubs listed below include appropriate tapered bores and mounting holes. QD[®] Weld-On hubs are manufactured with a step for assistance in locating the attached plate. This is shown as the “T” dimension and depending on the width of the plate, the result is either a B-style or C-style sprocket.

All dimensions in inches unless noted.

| Catalog Number | Use with Bushing # | Dim. D | Dim. P | Dim. L | Dim. T | Hub Type | Wt. Lbs. |
|----------------|--------------------|--------|--------|--------|--------|----------|----------|
| 35SHW | SH | 3.00 | 2.875 | 0.813 | 0.141 | B | .90 |
| 40SDSW | SDS | 3.500 | 3.125 | 0.750 | 0.250 | B | 1.00 |
| 40SKW | SK | 4.250 | 3.875 | 1.250 | 0.250 | B | 2.40 |
| 50SDSW | SDS | 3.625 | 3.438 | 0.750 | 0.313 | B | 1.00 |
| 50SKW | SK | 4.250 | 4.125 | 1.250 | 0.313 | B | 2.40 |
| 50SFW | SF | 5.000 | 4.625 | 1.250 | 0.313 | B | 3.70 |
| 60SDSW | SDS | 3.500 | 3.125 | 0.750 | 0.438 | B | 1.00 |
| 60SKW | SK | 4.250 | 3.875 | 1.250 | 0.438 | B | 2.40 |
| 60SFW | SF | 5.000 | 4.625 | 1.250 | 0.438 | B | 3.60 |
| 60EW | E | 6.250 | 5.875 | 1.625 | 0.438 | B | 7.80 |
| 80SFW | SF | 5.000 | 4.625 | 1.250 | 0.563 | B | 3.50 |
| 80EW | E | 6.250 | 5.875 | 1.625 | 0.563 | C | 7.70 |
| 80FW | F | 7.000 | 6.625 | 2.500 | 0.563 | C | 14.70 |
| 100EWB | E | 6.250 | 5.875 | 1.625 | 0.688 | B | 7.50 |
| 100EWC | E | 6.250 | 5.875 | 1.625 | 0.688 | C | 7.50 |
| 100FW | F | 7.000 | 6.625 | 2.500 | 0.688 | C | 14.60 |
| 120EW | E | 6.250 | 5.875 | 1.625 | 0.875 | B | 7.40 |
| 120FW | F | 7.000 | 6.625 | 2.500 | 0.875 | C | 14.30 |
| 120JW | J | 8.000 | 7.500 | 3.188 | 0.875 | C | 23.70 |
| 160FW | F | 7.000 | 6.625 | 2.500 | 1.094 | B | 14.00 |
| 160JW | J | 8.000 | 7.500 | 3.188 | 1.125 | C | 23.30 |
| 160MW | M | 10.000 | 9.500 | 5.188 | 2.250 | C1 | 59.30 |

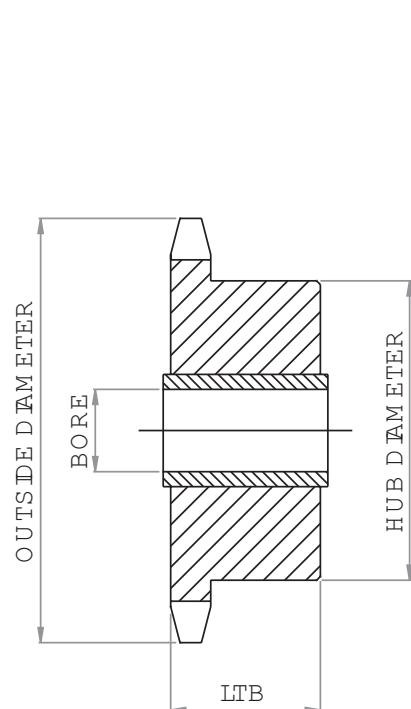


NOTES

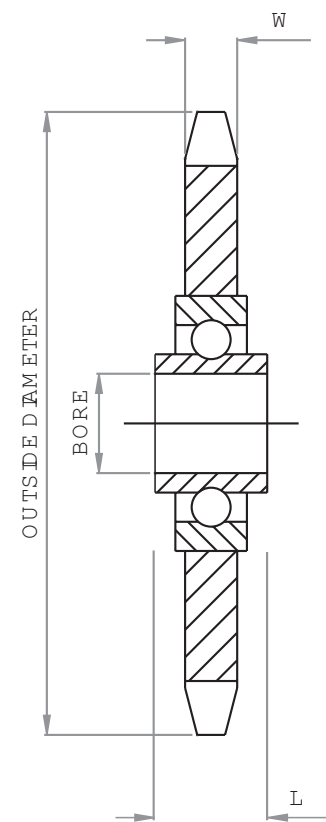
Adjustable Idler Sprockets are used to:

- Obtain proper chain tension when either driving or driven shaft is not adjustable.
- Guide chain around an obstruction.
- Prevent whipping action in the slack span of chain.
- Bring about greater chain wrap around a small sprocket, particularly if it is the lower sprocket in a vertical drive.
- Take up slack chain caused by normal chain wear.
- Provide for reversed direction of rotation of a sprocket in contact with the outside of the chain.

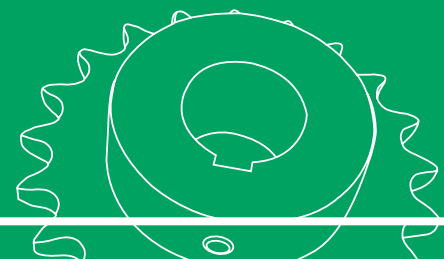
Idler sprockets should not rotate at greater speeds than are allowable for drive sprockets of the same diameter. They should be mounted in contact with the “slack” span of chain, whenever possible. Mount them on the outside of the chain when the arc of chain wrap on the smaller sprocket would otherwise be less than 120°. It is advisable that idler sprockets have at least three teeth in mesh with the chain. Inside mounted idlers usually account for quieter operation, especially if sprocket to sprocket centers are short and speed is moderately high.



Bronze Bushed Idler



Ball Bearing Idler



IDLER SPROCKETS - BRONZE BUSHED TYPE

How to Order Code:

Example Model # for Bronze Bushed Idler Sprockets for use with all steel chain

| | | |
|---|----------------------------------|----------------------|
| 35 | B | 15T |
| Roller Chain Pitch Size | Hub Type | Number of Teeth |
| 35: 3/8" Pitch (example pitch size) | B: Hub Extension One Side | 15T: 15 Teeth |

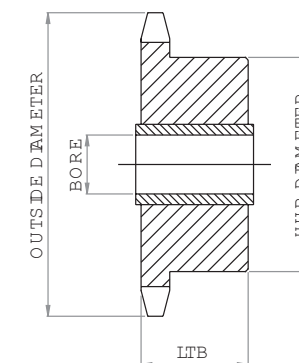
Bronze Bushed Idler Sprocket with Hardened Teeth

Note: Bronze Idler Sprockets should not exceed 2500-rpm and have a radial loading of 50 lbs. or less.

All dimensions in inches unless noted.

| ANSI Chain # | Sprocket # | # of Teeth | Suggested Tensioner # * | Outside Diameter | HUB Type | Hub Diameter | LTB | Bushed Bore Dia. | Wt. Lbs. |
|--------------|------------|------------|-------------------------|------------------|----------|--------------|-------|------------------|----------|
| 35 | 35B15T | 15 | 0 | 1.990 | B | 1.375 | 0.938 | 0.500 | 0.32 |
| 35 | 35B21T | 21 | 1 | 2.713 | B | 2.125 | 1.063 | 0.875 | 0.82 |
| 40 | 40B13T | 13 | 0 | 2.329 | B | 1.563 | 0.938 | 0.500 | 0.52 |
| 40 | 40B19T | 19 | 1 | 3.296 | B | 2.438 | 1.063 | 0.875 | 1.50 |
| 41 | 41B13T | 13 | 0 | 2.329 | B | 1.563 | 0.938 | 0.500 | 0.52 |
| 41 | 41B19T | 19 | 1 | 3.296 | B | 2.438 | 1.063 | 0.875 | 1.30 |
| 50 | 50B13T | 13 | 0 | 2.911 | B | 2.000 | 0.938 | 0.500 | 0.97 |
| 50 | 50B17T | 17 | 1 | 3.719 | B | 2.625 | 1.063 | 0.875 | 1.80 |
| 60 | 60B15T | 15 | 1 | 3.979 | B | 2.688 | 1.063 | 0.875 | 2.50 |
| 60 | 60B17T | 17 | 2 | 4.462 | B | 2.875 | 1.563 | 1.125 | 3.30 |
| 80 | 80B15T | 15 | 2 | 5.305 | B | 3.500 | 1.563 | 1.125 | 5.60 |
| 100 | 100B13T | 13 | 2 | 5.821 | B | 4.000 | 1.563 | 1.125 | 5.70 |
| 120 | 120B13T | 13 | 2 | 6.986 | B | 4.500 | 1.563 | 1.125 | 13.00 |
| 140 | 140B15T | 15 | 3 | 9.283 | B | 5.750 | 2.500 | 1.750 | 27.30 |
| 160 | 160B13T | 13 | 3 | 9.318 | B | 5.750 | 2.500 | 1.750 | 26.40 |
| 200 | 200B13T | 13 | 3 | 11.642 | B | 5.750 | 2.500 | 1.750 | 58.00 |

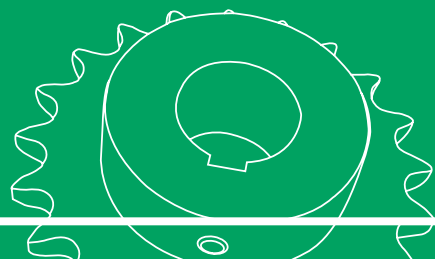
* Please reference page 179 for chain tensioner information.



Bronze Bushed Idler

HOW TO ORDER

U.S. TSUBAKI STOCK SPROCKETS



IDLER SPROCKETS - BALL BEARING TYPE

How to Order Code: Example Model # for Ball Bearing Idler Sprockets

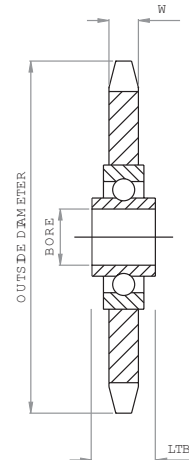
| | | |
|---|-------------------------------|---------------------------------|
| 35 | BB | 20H |
| Roller Chain Pitch Size | Idler Type | Number of Teeth |
| 35: 3/8" Pitch (example pitch size) | BB: Ball Bearing Idler | 20H: 20 Teeth - Hardened |

Ball Bearing Idler Sprocket with Hardened Teeth

All dimensions in inches unless noted.

| ANSI Chain # | Sprocket # | # of Teeth | Outside Diameter | HUB Type | Nominal Tooth Width (W) | LTB | Bore Dia. | Wt. Lbs. |
|--------------|------------|------------|------------------|----------|-------------------------|-------|-----------|----------|
| 35 | 35BB20H | 20 | 2.600 | C | 0.168 | 0.720 | 0.638 | 0.38 |
| 40 | 40BB17H | 17 | 2.970 | C | 0.284 | 0.720 | 0.638 | 0.52 |
| 40 | 40BB18H | 18 | 3.140 | C | 0.284 | 0.720 | 0.638 | 0.53 |
| 50 | 50BB15H | 15 | 3.320 | C | 0.343 | 0.720 | 0.638 | 0.75 |
| 50 | 50BB17H | 17 | 3.720 | C | 0.343 | 0.720 | 0.638 | 0.78 |
| 60 | 60BB13H | 13 | 3.510 | C | 0.459 | 0.720 | 0.638 | 0.76 |
| 60 | 60BB15H | 15 | 3.980 | C | 0.459 | 0.720 | 0.638 | 1.06 |
| 80 | 80BB12H | 12 | 4.360 | C | 0.575 | 0.610 | 0.750 | 1.50 |

Note: Bore tolerance for 35BB20H - 60BB15H is 0.638" - 0.643".
These often utilize a 5/8" bolt to secure.
Bore tolerance for 80BB12H is 0.750" - 0.755".
This size will often use a 3/4" bolt to secure.



Ball Bearing Idler Sprocket Radial Load Capacity in Pounds

| Description | R.P.M. | | | | | | | | | | | | | | | |
|-----------------|--------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| | 50 | 100 | 300 | 500 | 750 | 1000 | 1200 | 1500 | 1800 | 2400 | 2600 | 3000 | 3600 | 4000 | 4500 | 5000 |
| 35BB20H-60BB13H | 650 | 515 | 357 | 300 | 265 | 240 | 225 | 208 | 195 | 179 | 173 | 155 | 156 | 151 | 143 | 140 |
| 80BB12H | 1630 | 1290 | 895 | 755 | 665 | 600 | 565 | 523 | 493 | 447 | 434 | 415 | - | - | - | - |

Ratings shown above are based on an average bearing life of 2500 hours.

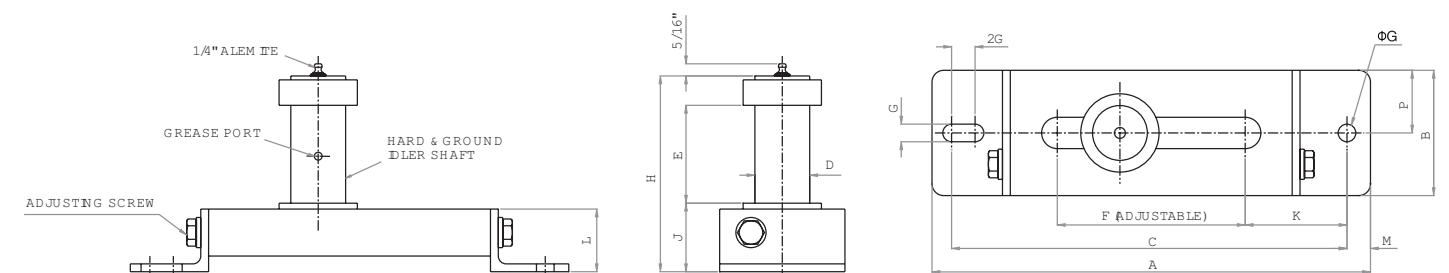
CHAIN TENSIONER - MANUAL TYPE

Proper chain tension is necessary to obtain acceptable chain life. Tensioners are designed to adjust the slack that is needed and develops as chains operate on a daily basis. Tensioners contribute to efficient, quiet operation of the drive assembly.

Selection Code:

| Suggested Chain Size | Manual Tensioner Model # |
|----------------------|--------------------------|
| 35 | 0-B |
| 40, 41 | 0-B or 1-B |
| 50 | 1-B |
| 60 | 1-B |
| 80 | 2-B |
| 100 | 2-B |
| 120 | 2-B |
| 140 | 3-B |
| 160 | 3-B |
| 200 | 3-B |

Manual Tensioner



All dimensions in inches unless noted.

| Model Number | A | B | C | D | E | F | G | 2G | H | J | K | L | M | P | Wt. Lbs. |
|--------------|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| 0-B | 5.875 | 1.500 | 5.250 | 0.500 | 1.000 | 2.500 | 0.281 | 0.375 | 2.813 | 1.313 | 1.375 | 1.250 | 0.375 | 0.750 | 1.00 |
| 1-B | 9.000 | 2.000 | 8.125 | 0.875 | 1.750 | 4.500 | 0.344 | 0.500 | 4.000 | 1.625 | 1.750 | 1.500 | 0.500 | 1.000 | 2.50 |
| 2-B | 13.000 | 3.000 | 11.875 | 1.125 | 1.875 | 6.000 | 0.563 | 0.750 | 5.688 | 2.156 | 2.875 | 2.000 | 0.625 | 1.500 | 6.00 |
| 3-B | 14.000 | 4.000 | 12.625 | 1.750 | 3.125 | 6.000 | 0.563 | 0.750 | 6.250 | 2.188 | 3.250 | 2.000 | 0.750 | 2.000 | 12.00 |

CHAIN TENSIONER - AUTOMATIC TYPE

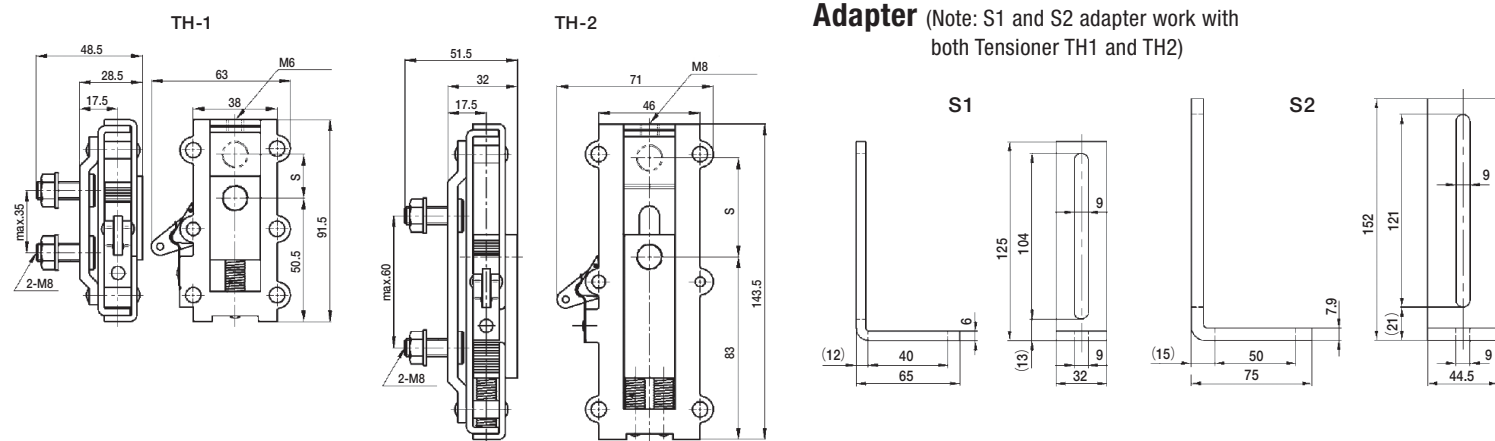
MAXTON series automated chain tensioners

- * Automatic tensioning
- * Stable vibration dampening
- * Operates on return side in any position
- * Simple adjusting
- * Quick and easy installation

AUTOMATIC TENSIONER

All dimensions in millimeters unless noted.

| Chain Size | Automated Model Number | Stroke (S) | Push-up Force (lbs.) | |
|------------|------------------------|------------|----------------------|-------|
| | | | Min. | Max |
| 35 | TH1 | 25.0 | 8.81 | 26.44 |
| 40, 41 | TH1 | 25.0 | 8.81 | 26.44 |
| 50 | TH2 | 45.0 | 22.03 | 66.10 |
| 60 | TH2 | 45.0 | 22.03 | 66.10 |
| 80 | TH2 | 45.0 | 22.03 | 66.10 |

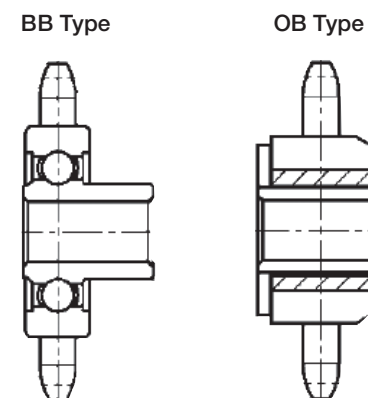


Adapter (Note: S1 and S2 adapter work with both Tensioner TH1 and TH2)

IDLER SPROCKETS FOR AUTOMATIC TENSIONER

| Chain Size | No. of Teeth | Pitch Diameter (in inches) | Model No. | |
|------------|--------------|----------------------------|---------------------|-----------------|
| | | | Sintered Bushing ID | Ball Bearing ID |
| 35 | 20 | 2.397 | SP-320-OB | SP-320-BB |
| 40,41 | 15 | 2.405 | SP-415-OB | SP-415-BB |
| 50 | 15 | 3.006 | SP-515-OB | SP-515-BB |
| 60 | 14 | 3.371 | SP-604-OB | SP-604-BB |
| 80 | 11 | 3.550 | - | SP-811-BB |

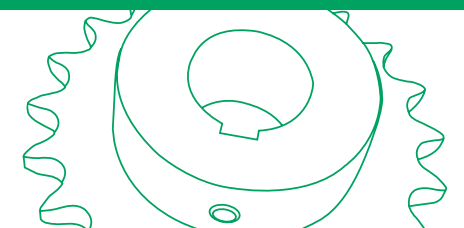
Idler Sprocket



ENGINEERING DATA

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ALTERATIONS

The term “alteration” applies to a modification/change in configuration from standard for a stock sprocket. All U.S. Tsubaki sprockets can be “Altered” to meet select application requirements. The following provides a list of common alterations performed by U.S. Tsubaki to stock sprockets, and an explanation of what each is. In the event that the modification requested is not listed, it does not mean that the sprocket cannot be altered. However, it may mean that the alteration in question would require the sprocket be Made-To-Order (MTO) to meet the application requirements at hand. Please consult a U.S. Tsubaki Customer Service Representative to review additional options available for altered and MTO sprockets.

Sprocket Reboring

Reboring is a process of changing the dimension or configuration of the sprocket inner hub diameter to meet the application requirements at hand. Typical reboring alterations include:

- Hub inside diameter dimension not listed as standard
- Hub inside diameter dimension greater than standard
- Hub inside diameter dimension smaller than standard
- Metric inside hub diameter dimension
- Hexagon broached inside diameter hub configuration
- Splined broached inside diameter hub configuration
- Change to Length Through Bore (LTB) dimension

Please reference **Figure 1** for an illustration of a typical finished bore sprocket.

Sprocket Keyway & Set Screw

U.S. Tsubaki standard keyway configuration facilitates use of industry standard square key stock in inch sizes with use of common set screws. The standard keyway location is center line of tooth ± 0.015 ". Two set screws are furnished with finished bore sprockets. One set screw is placed directly over the keyway. The second set screw is placed at 90 degrees from the keyway set screw. Application requirements may demand a different keyway and set screw configuration than standard. Common alterations to standard keyway / set screw configurations include:

- Keyway non center line of tooth
- Tapered keyway
- Multiple keyways
- Metric keyway
- Metric set screws
- Set screw location other than standard

Please see **Figure 2** for standard keyway locations.

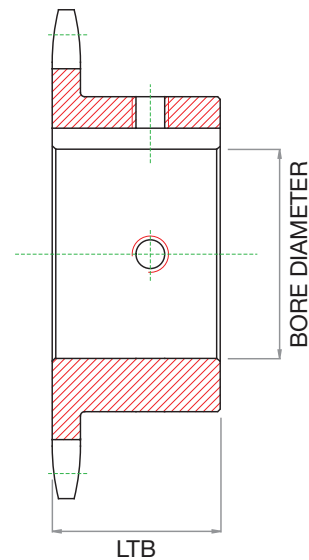


Figure 1 - Typical finished bore sprocket

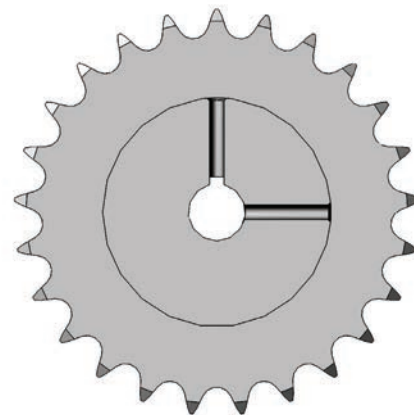


Figure 2 - Standard Keyway and set screw location

ALTERATIONS

Sprocket Hub Mounting Holes

U.S. Tsubaki stock sprockets do not come with bolt mounting holes with the exception of Taper-Lock® and QD® hubs. In select instances, bolt mounting holes may be required in order to facilitate attachment of custom hubs, or accessory pieces that may be required to fulfill the needs of the application at hand. Sprocket bolt mounting holes typically apply to “A” plate sprocket types, where the holes required are located around the circumference of the plate bore. However, select “B” style sprockets may also require mounting holes. Please reference **Figure 3** for a depiction of an “A” plate sprocket with mounting holes installed.

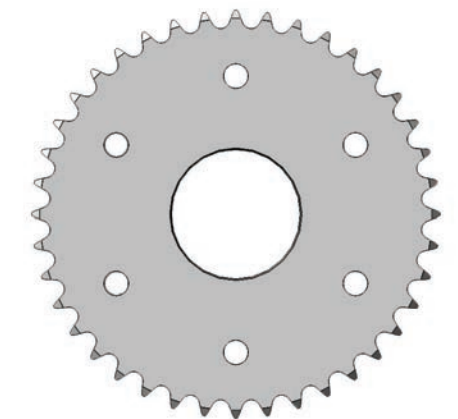


Figure 3 - “A” plate sprocket with mounting holes

Sprocket Lightening Holes

There may be instances where reducing the weight of a given sprocket would be advantageous for the application. This is more common for applications that utilize large pitch sprockets. U.S. Tsubaki offers the option to incorporate lightening holes into sprockets at an additional charge. Please reference **Figure 4** for a depiction of an “A” plate sprocket with lightening holes.

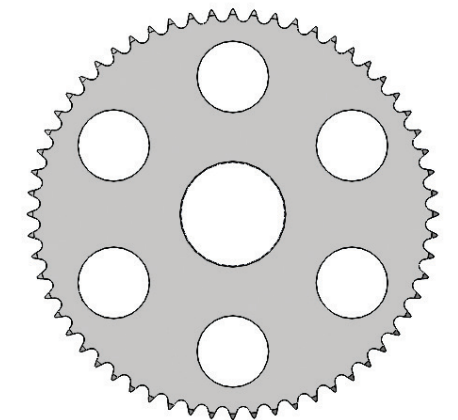


Figure 4 - “A” plate sprocket with lightening holes

Sprocket Hub Outside Diameter

Select applications may call for the sprocket hub diameter to be reduced in size or increased for various reasons. U.S. Tsubaki offers the option to reduce the outside diameter of a given hub by removing material. Please reference **Figure 5** for a depiction of a “B” style sprocket with a smaller hub diameter versus standard. Larger diameter hubs may be more difficult to accommodate but please contact U.S. Tsubaki if needed.



Figure 5 - Reduced hub diameter

Tapered Hub Bore/Tapered Keyway

U.S. Tsubaki offers the option to taper the inside bore diameter or keyway for all “B” style stock sprockets. Please reference **Figure 6** for a depiction of a tapered bore “B” style sprocket.

ALTERATIONS

Snap Ring Grooves

U.S. Tsubaki offers the option of implementing snap ring grooves on all stock “B” and “C” style sprockets. The snap ring and groove can be used in conjunction to position the sprocket or to limit movement along the shaft. Please reference [Figure 7](#) for a depiction of snap ring grooves installed on a “B” style sprocket.

Slotted Plates

U.S. Tsubaki offers the option to implement slots into the sprocket plate. Similar to lightening holes, slotted plates reduce weight or may be used along with mounting bolts to adjust the sprocket timing. Please reference [Figure 8](#) for a depiction of a slotted “B” style sprocket.

Split Sprockets

Steel split sprockets offer ease of installation and removal for applications that require the sprocket be changed frequently or quickly. U.S. Tsubaki offers the option of cutting and providing the steel split hub as an assembly or package to suit your needs. Please reference [Figure 9](#) for a depiction of a steel split sprocket assembly.

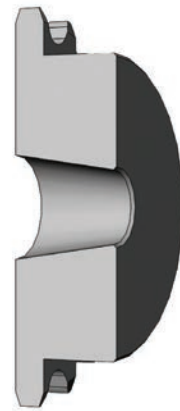


Figure 6 - Tapered bore “B” style sprocket



Figure 7 - “B” style sprocket with snap ring groove



Figure 8 - Slotted “B” style sprocket

ALTERATIONS

Sprocket Plating/Coating

U.S. Tsubaki offers special plating/coating options on all stock sprockets. Plating options include: Zinc, Electroless Nickel, Cadmium, and other common industry coatings to increase corrosion resistance. Please reference [Figure 10](#) for a depiction of a cadmium plated sprocket.

Sprocket Coating Removal

(stripped sprockets)

All U.S. Tsubaki stock carbon steel sprockets are black oxide coated for corrosion resistance from the factory. Select end-users may opt to paint or anodize the sprocket themselves. U.S. Tsubaki does offer the option to have the black oxide coating removed per customer request.

Segmental Rim Sprockets

Segmental Rim Sprockets are designed to save time and money. They eliminate costly downtime during installation and adjustment. The segmental rim is bolted to a solid or split body. That means bodies or entire sprockets may be replaced without removing shaft or bearings, saving maintenance time and money. Please refer to [Figure 11](#) for an illustration.

NOTES:



Figure 9 - Steel split sprocket



Figure 10 - Cadmium plated “B” style sprocket

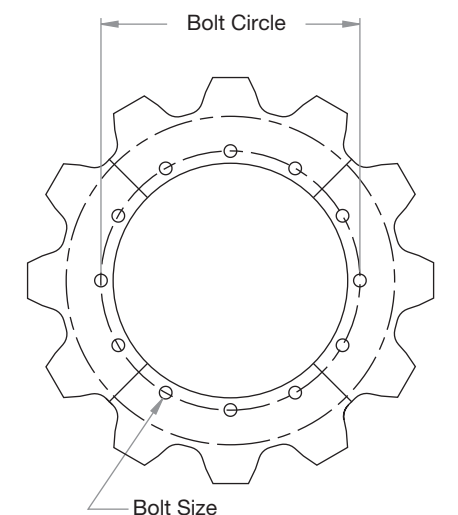


Figure 11 - Segmental rim sprocket

SPROCKET HARDENING

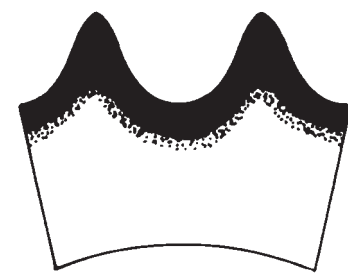
| Hardness Conversion Table | | | | |
|------------------------------|-------------|------------------|------------------------------|----------------------------------|
| Rockwell "C" 150 KG. Load | A 60 KG. | Shore Model C | Brinell No. 3000 KG. Load | Tensile Str. Lbs. per Sq. In. |
| 10 | | 27 | 183 | 91,000 |
| 11 | | 28 | 187 | 93,000 |
| 13 | | 28 | 192 | 95,000 |
| 14 | | 29 | 197 | 97,000 |
| 15 | | 30 | 202 | 99,000 |
| 16 | | 30 | 207 | 101,000 |
| 17 | | 31 | 212 | 104,000 |
| 18 | | 31 | 217 | 107,000 |
| 20 | 60.5 | 32 | 223 | 110,000 |
| 21 | 61.0 | 33 | 229 | 113,000 |
| 22 | 61.5 | 34 | 235 | 116,000 |
| 23 | 62.0 | 35 | 241 | 119,000 |
| 24 | 62.5 | 36 | 248 | 122,000 |
| 25 | 63.0 | 37 | 255 | 125,000 |
| 26 | 63.5 | 37 | 262 | 128,000 |
| 28 | 64.5 | 38 | 269 | 131,000 |
| 29 | 65.0 | 39 | 277 | 134,000 |
| 30 | 65.5 | 40 | 285 | 138,000 |
| 31 | 66.0 | 42 | 293 | 142,000 |
| 32 | 66.5 | 43 | 302 | 146,000 |
| 33 | 67.0 | 44 | 311 | 150,000 |
| 34 | 67.5 | 45 | 321 | 155,000 |
| 35 | 68.0 | 46 | 331 | 160,000 |
| 36 | 68.5 | 48 | 341 | 165,000 |
| 37 | 69.0 | 49 | 352 | 170,000 |
| 38 | 69.5 | 51 | 363 | 176,000 |
| 40 | 70.5 | 52 | 375 | 182,000 |
| 41 | 71.0 | 54 | 388 | 189,000 |
| 42 | 71.5 | 55 | 401 | 196,000 |
| 44 | 72.5 | 57 | 415 | 204,000 |
| 45 | 73.0 | 59 | 429 | 212,000 |
| 46 | 73.5 | 61 | 444 | 220,000 |
| 47 | 74.0 | 63 | 461 | 229,000 |
| 49 | 75.5 | 65 | 477 | 238,000 |
| 50 | 76.0 | 67 | 495 | 247,000 |
| 52 | 77.0 | 70 | 514 | 256,000 |
| 53 | 77.5 | 72 | 534 | 266,000 |
| 55 | 78.5 | 75 | 555 | 276,000 |
| 57 | 79.5 | 78 | 578 | 287,000 |
| 58 | 80.0 | 81 | 601 | 298,000 |
| 60 | 81.0 | 84 | 627 | 311,000 |
| 62 | 82.5 | 87 | 653 | 324,000 |
| 64 | 83.5 | 91 | 682 | 337,000 |
| 66 | 84.5 | 95 | 712 | 352,000 |
| 68 | 85.5 | 100 | 745 | 368,000 |
| 70 | 86.5 | 106 | 780 | 384,000 |

All U.S. Tsubaki sprockets are made using high quality 1045 steel. Since chain loadings are evenly distributed over all engaged sprocket teeth, tooth breakage or distortion is not normally a problem. It is seldom necessary to use special high-strength material.

The hardening process of small diameter, small pitch sprockets is usually a one-step procedure; heat treatment through electrical induction. Large diameter, large pitch sprockets can usually be directly flame hardened. These methods are used to provide a high hardness at the wear areas, plus provide the ability of the tooth to absorb shock loads. This is accomplished by hardening only the wear area of each tooth while maintaining a ductile tooth core which is tough and resilient. The hubs and bores remain soft to permit reworking.

The general guidelines for stock sprockets are:

| Size | Rockwell Scales | |
|---------------|-----------------|-------|
| | A | C |
| 35-80 Pitch | 68-76 | 35-50 |
| 100-240 Pitch | 63-70 | 25-40 |



Thru Hardened Teeth

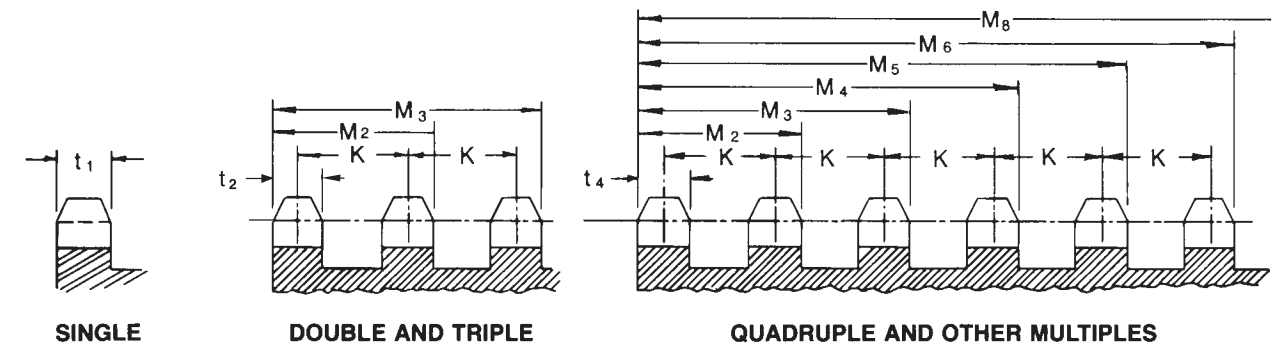
Case hardened on wear surfaces with tough resilient core

SPROCKET TOOTH DIMENSIONS

Sprocket Tooth Dimensions — Standard

All dimensions are in inches unless otherwise indicated.

| Chain Data for All Sprockets | | | | Single Strand t_1 | Double and Triple Strand | | | For 4 or more Strands | | | | | | | | Machining Tolerance on "t" and "M" |
|--|---------|----------------|--------------|---------------------|--------------------------|-------|-------|-----------------------|-------|-------|--------|--------|--------|--------|-------|------------------------------------|
| ANSI | Pitch P | Roller Width W | Roller Diam. | | t_2 | M_2 | M_3 | t_4 | M_2 | M_3 | M_4 | M_5 | M_6 | M_8 | K | |
| STANDARD SERIES CHAIN SPROCKETS | | | | | | | | | | | | | | | | |
| 25 | 1/4 | 1/8 | .130 | .110 | .107 | .359 | .611 | .096 | .348 | .600 | .852 | 1.140 | 1.356 | 1.860 | .252 | —.007 |
| 35 | 3/8 | 3/16 | .200 | .168 | .162 | .561 | .960 | .149 | .548 | .947 | 1.346 | 1.745 | 2.144 | 2.942 | .399 | —.008 |
| 40 | 1/2 | 5/16 | .312 | .284 | .275 | .841 | 1.407 | .256 | .822 | 1.388 | 1.954 | 2.520 | 3.086 | 4.218 | .566 | —.009 |
| 50 | 5/8 | 3/8 | .400 | .343 | .332 | 1.045 | 1.758 | .311 | 1.024 | 1.737 | 2.450 | 3.163 | 3.876 | 5.302 | .713 | —.010 |
| 60 | 3/4 | 1/2 | .469 | .459 | .444 | 1.341 | 2.238 | .418 | 1.315 | 2.212 | 3.109 | 4.006 | 4.903 | 6.697 | .897 | —.011 |
| 80 | 1 | 5/8 | .625 | .575 | .557 | 1.710 | 2.863 | .526 | 1.679 | 2.832 | 3.985 | 5.138 | 6.291 | 8.597 | 1.153 | —.012 |
| 100 | 1 1/4 | 3/4 | .750 | .692 | .669 | 2.077 | 3.485 | .633 | 2.041 | 3.449 | 4.857 | 6.265 | 7.673 | 10.489 | 1.408 | —.014 |
| 120 | 1 1/2 | 1 | .875 | .824 | .894 | 2.683 | 4.472 | .848 | 2.637 | 4.426 | 6.215 | 8.004 | 9.793 | 13.371 | 1.789 | —.016 |
| 140 | 1 3/4 | 1 | 1.000 | .924 | .894 | 2.818 | 4.742 | .848 | 2.772 | 4.696 | 6.620 | 8.544 | 10.468 | 14.316 | 1.924 | —.016 |
| 160 | 2 | 1 1/4 | 1.125 | 1.156 | 1.119 | 3.424 | 5.729 | 1.063 | 3.368 | 5.673 | 7.978 | 10.283 | 12.588 | 17.198 | 2.305 | —.019 |
| 180 | 2 1/4 | 1 13/32 | 1.406 | 1.301 | 1.259 | 3.851 | 6.443 | 1.197 | 3.789 | 6.381 | 8.973 | 11.565 | 14.157 | 19.341 | 2.592 | —.020 |
| 200 | 2 1/2 | 1 1/2 | 1.562 | 1.389 | 1.344 | 4.161 | 6.978 | 1.278 | 4.095 | 6.912 | 9.729 | 12.546 | 15.363 | 20.997 | 2.817 | —.021 |
| 240 | 3 | 1 7/8 | 1.875 | 1.738 | 1.682 | 5.140 | 8.598 | 1.601 | 5.059 | 8.517 | 11.975 | 15.433 | 18.891 | — | 3.458 | —.025 |



TAPER-LOCK® SHALLOW KEYWAY DIMENSIONS

All dimensions are in inches unless otherwise indicated.

| TAPER-LOCK Bushing Number | Bushing Bore ID | Keyway Width x Height | TAPER-LOCK Bushing Number | Bushing Bore ID | Keyway Width x Height | TAPER-LOCK Bushing Number | Bushing Bore ID | Keyway Width x Height |
|---------------------------|-----------------|-----------------------|---------------------------|-----------------|-----------------------|---------------------------|-----------------|-----------------------|
| 1008 | 15/16 | 1/4 X 1/16 | 2525 | 2-7/16 | 5/8 x 3/16 | 3535 | 3-7/8 | 1 x 1/4 |
| 1008 | 1 | 1/4 X 1/16 | 2525 | 2-1/2 | 5/8 x 3/16 | 3535 | 3-15/16 | 1 x 1/4 |
| 1108 | 1-1/16 | 1/4 X 1/16 | 3020 | 2-13/16 | 3/4 x 1/8 | 4040 | 3-11/19 | 7/8 x 3/16 |
| 1108 | 1-1/8 | 1/4 X 1/16 | 3020 | 2-7/8 | 3/4 x 1/8 | 4040 | 3-3/4 | 7/8 x 3/16 |
| 1310 | 1-7/16 | 3/8 X 1/8 | 3020 | 2-15/16 | 3/4 x 1/8 | 4040 | 3-7/8 | 1 x 1/4 |
| 1610 | 1-9/16 | 3/8 X 1/8 | 3020 | 3 | 3/4 x 1/8 | 4040 | 3-15/16 | 1 x 1/4 |
| 1610 | 1-5/8 | 3/8 X 1/8 | 3020 | 3-1/8 | 3/4 x 1/4 | 4040 | 4 | 1 x 1/4 |
| 1610 | 1-11/16 | 3/8 X 1/8 | 3020 | 3-3/16 | 3/4 x 1/4 | 4040 | 4-1/8 | 1 x 1/4 |
| 1615 | 1-9/16 | 3/8 X 1/8 | 3020 | 3-1/4 | 3/4 x 1/4 | 4040 | 4-3/16 | 1 x 1/4 |
| 1615 | 1-5/8 | 3/8 X 1/8 | 3030 | 2-7/8 | 3/4 x 1/8 | 4040 | 4-1/4 | 1 x 1/4 |
| 1615 | 1-11/16 | 3/8 X 1/8 | 3030 | 2-15/16 | 3/4 x 1/8 | 4040 | 4-3/8 | 1 x 1/4 |
| 2012 | 1-15/16 | 1/2 X 3/16 | 3030 | 3 | 3/4 x 1/8 | 4040 | 4-7/16 | 1 x 1/4 |
| 2012 | 2 | 1/2 X 3/16 | 3030 | 3-1/8 | 3/4 x 1/8 | 4545 | 4-3/8 | 1 x 1/4 |
| 2012 | 2-1/8 | 1/2 X 3/16 | 3030 | 3-3/16 | 3/4 x 1/8 | 4545 | 4-7/16 | 1 x 1/4 |
| 2517 | 2-5/16 | 5/8 x 3/16 | 3030 | 3-1/4 | 3/4 x 1/4 | 4545 | 4-1/2 | 1 x 1/4 |
| 2517 | 2-3/8 | 5/8 x 3/16 | 3535 | 3-5/16 | 7/8 x 1/8 | 4545 | 4-3/4 | 1-1/4 x 1/4 |
| 2517 | 2-7/16 | 5/8 x 3/16 | 3535 | 3-3/8 | 7/8 x 3/16 | 4545 | 4-7/8 | 1-1/4 x 1/4 |
| 2517 | 2-1/2 | 5/8 x 3/16 | 3535 | 3-7/16 | 7/8 x 3/16 | 4545 | 4-15/16 | 1-1/4 x 1/4 |
| 2517 | 2-5/8 | 5/8 x 3/16 | 3535 | 3-1/2 | 7/8 x 3/16 | 5050 | 4-7/8 | 1-1/4 x 1/4 |
| 2517 | 2-11/16 | 5/8 x 3/16 | 3535 | 3-5/8 | 7/8 x 1/4 | | | |
| 2525 | 2-5/16 | 5/8 x 3/16 | 3535 | 3-11/16 | 7/8 x 3/16 | | | |
| 2525 | 2-3/8 | 5/8 x 3/16 | 3535 | 3-3/4 | 7/8 x 3/16 | | | |

QD® SHALLOW KEYWAY DIMENSIONS

All dimensions are in inches unless otherwise indicated.

| QD Bushing | Bushing Bore ID | Keyway Width x Height | QD Bushing | Bushing Bore ID | Keyway Width x Height | QD Bushing | Bushing Bore ID | Keyway Width x Height |
|------------|-----------------|-----------------------|------------|-----------------|-----------------------|------------|-----------------|-----------------------|
| JA | 1-1/16 | 1/4 X 1/16 | SF | 2-11/16 | 5/8 X 1/16 | J | 4-3/16 | 1 X 1/8 |
| JA | 1-1/8 | 1/4 X 1/16 | SF | 2-3/4 | 5/8 X 1/16 | J | 4-1/4 | 1 X 1/8 |
| JA | 1-3/16 | 1/4 X 1/16 | SF | 2-13/16 | 3/4 X 1/8 | J | 4-3/8 | 1 X 1/8 |
| SH | 1-7/16 | 3/8 X 1/16 | SF | 2-7/8 | 3/4 X 1/32 | J | 4-7/16 | 1 X 1/8 |
| SH | 1-1/2 | 3/8 X 1/16 | SF | 2-15/16 | 3/4 X 1/32 | J | 4-1/2 | 1 X 1/8 |
| SH | 1-9/16 | 3/8 X 1/16 | E | 2-15/16 | 3/4 X 1/8 | M | 4-7/8 | 1-1/4 X 1/4 |
| SH | 1-5/8 | 3/8 X 1/16 | E | 3 | 3/4 X 1/8 | M | 4-15/16 | 1-1/4 X 1/4 |
| SDS | 1-11/16 | 3/8 x 1/8 | E | 3-1/8 | 3/4 X 1/8 | M | 5 | 1-1/4 X 1/4 |
| SDS | 1-3/74 | 3/8 x 1/8 | E | 3-3/16 | 3/4 X 1/8 | M | 5-1/8 | 1-1/4 X 1/4 |
| SDS | 1-13/16 | 1/2 x 1/16 | E | 3-1/4 | 3/4 X 1/8 | M | 5-3/16 | 1-1/4 X 1/4 |
| SDS | 1-7/8 | 1/2 x 1/16 | E | 3-5/16 | 7/8 X 1/8 | M | 5-1/4 | 1-1/4 X 1/4 |
| SDS | 1-15/16 | 1/2 x 1/16 | E | 3-3/8 | 7/8 X 1/16 | M | 5-7/16 | 1-1/4 X 1/4 |
| SD | 1-3/4 | 3/8 X 1/8 | E | 3-7/16 | 7/8 X 1/16 | M | 5-1/2 | 1-1/4 X 1/4 |
| SD | 1-13/16 | 1/2 X 1/16 | E | 3-1/2 | 7/8 X 1/16 | N | 5-1/8 | 1-1/4 X 1/4 |
| SD | 1-7/8 | 1/2 X 1/16 | F | 3-3/8 | 7/8 X 3/16 | N | 5-1/8 | 1-1/4 X 1/4 |
| SD | 1-15/16 | 1/2 X 1/16 | F | 3-7/16 | 7/8 X 3/16 | N | 5-1/4 | 1-1/4 X 1/4 |
| SK | 2-3/16 | 1/2 X 3/16 | F | 3-1/2 | 7/8 X 3/16 | N | 5-7/16 | 1-1/4 X 1/4 |
| SK | 2-1/4 | 1/2 X 3/16 | F | 3-5/8 | 7/8 X 3/16 | N | 5-1/2 | 1-1/4 X 1/4 |
| SK | 2-5/16 | 5/8 X 1/16 | F | 3-11/16 | 7/8 X 3/16 | N | 5-3/4 | 1-1/2 X 1/8 |
| SK | 2-3/8 | 5/8 X 1/16 | F | 3-3/4 | 7/8 X 3/16 | N | 5-7/8 | 1-1/2 X 1/8 |
| SK | 2-7/16 | 5/8 X 1/16 | F | 3-7/8 | 1 X 1/8 | N | 5-15/16 | 1-1/2 X 1/8 |
| SK | 2-1/2 | 5/8 X 1/16 | F | 3-15/16 | 1 X 1/8 | N | 6 | 1-1/2 X 1/8 |
| SF | 2-3/8 | 5/8 X 3/16 | J | 3-7/8 | 1 X 1/8 | P | 6 | 1-1/2 X 1/4 |
| SF | 3-7/16 | 5/8 X 3/16 | J | 3-15/16 | 1 X 1/8 | P | 6-7/16 | 1-1/2 X 1/4 |
| SF | 2-1/2 | 5/8 X 3/16 | J | 4 | 1 X 1/8 | P | 6-1/2 | 1-1/2 X 1/4 |
| SF | 2-5/8 | 5/8 X 1/16 | J | 4-1/8 | 1 X 1/8 | P | 7 | 1-3/4 X 1/8 |

MAINTENANCE CHECKLIST

Regardless of the application, all chain systems should be inspected on a regularly scheduled basis for worn, damaged or broken parts, possible interference by other system components, and proper lubrication. Normal maintenance procedures can prevent most of the conditions described below. Carefully inspect roller chain drives on the same schedule as associated equipment.

SPROCKET MISALIGNMENT

Wear on the sides of sprocket teeth generally indicates improper installation of sprockets and/or shafts. If shafts are out of parallel or not in the same plane, non-symmetrical wear will appear on sprockets or chain rollers.

After proper alignment is made, retighten set screws in sprocket hubs.

CHAIN WEAR AND ELONGATION

Normal wear will cause some increase in chain length. However, if a sudden increase in elongation occurs, look for severe wear on the tips of sprocket teeth. This may be caused by any of the following: excessive loading or shock loading, displacement and/or wear in bearings, displacement of takeups, or under-designed drive. Elongation of 3% or more may be an indication that chain and/or sprockets should be replaced.

Before replacing chain or sprockets, recalculate initial drive design. Check chain for broken parts. Check chain tension if there is too much accumulated slack in the drive.

BROKEN CHAIN PARTS

Generally caused by an overload drive, extreme misalignment, excessive elongation causing chain to jump sprocket teeth, heavy shock, improper drive design geometry, or foreign objects.

Recalculate initial drive design and make necessary corrections. Inspect sprockets and shafts for proper alignment or looseness.

LINK PLATE WEAR

Wear on edges of outer sides of link plates may be caused by chain contacting a case or fixed object.

Remove or relocate fixed object. Readjust chain properly.

EXCESSIVE NOISE

Can be caused by broken links and chain rollers, extreme misalignment, elongation, chain jumping sprocket teeth, loose sprockets, broken teeth, accumulation of dirt packed into the chain or sprocket teeth, interference by foreign objects, or contacting a fixed object.

Check for worn, broken, or missing parts. Check alignment of shafts and/or sprockets.

EXCESSIVE VIBRATION

Unbalanced rotating parts, broken or missing rollers, too much chain slack, loose or misaligned sprockets or shafts.

Inspect chain and drive equipment. Replace or readjust as needed.

IMPROPER LUBRICATION

Light or dark brown discoloration of pin-bushing joints and connecting link pins, or brown-red oxide color in oil may indicate chain is not dipping into the oil reservoir, or drip lubricator or spray is plugged.

Carefully clean and dry chain, immerse in oil, and reinstall. Change oil in chain case and flush case. Determine that oil supply is adequate and unimpeded.

SUGGESTED REPLACEMENT PROCEDURES

Chain parts should never be altered or tampered with by makeshift repairs and/or with parts or components which have not been authorized by the company.

WARNING

USE CARE TO PREVENT INJURY COMPLY WITH THE FOLLOWING TO AVOID SERIOUS PERSONAL INJURY:

1. Guards must be provided on all chain and sprocket installations in accordance with provisions of ANSI/ASME B15.1—2000 (R2008) “Safety Standards for Mechanical Power Transmission Apparatus,” and ANSI/ASME B20.1—2012 “Safety Standards for Conveyors and Related Equipment,” or other applicable safety standards. When revisions of these standards are published, the updated edition shall apply.
2. Always lock out the power switch before installing, removing, lubricating or servicing a chain system.
3. When connecting or disconnecting chain:
 - a. Eye protection is required. Wear safety glasses, protective clothing, gloves and safety shoes.
 - b. Support the chain to prevent uncontrolled movement of chain and parts.
 - c. Use of pressing equipment is recommended. Tools must be in good condition and properly used.
 - d. Determine correct direction for pin/rievet removal or insertion.

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OTHER SPROCKET TECHNICAL CONSIDERATIONS

Other Considerations

When determining whether you need replacement sprockets, consider the following important points:

Chain Interaction

The chain-sprocket interaction is the criterion upon which most users make their judgments about replacing sprockets. If the chain engages and disengages the sprocket smoothly without hanging up or snapping into place, most people will not replace it. If a chain does start to hang up on the sprocket, damaging chain overload conditions can develop rapidly. We suggest replacing sprockets before hang-up develops.

Reversible

Almost all sprockets are reversible. The key to being able to reverse sprockets is symmetry. If the sprockets are symmetrical from side to side, then they can be reversed. Reversing is not suggested in most circumstances, especially with those applications that wear the sprocket bottom diameter.

New Chain

We suggest you order new sprockets when chain is replaced. New sprockets ensure proper chain interaction and also provide maximum wear performance.

Attachment Clearance

Any time an attachment is in the area between, above, or below the sidebars, make sure the attachment does not interfere with sprocket action.

Relief Pocket (Mud Relief)

In applications where material buildup may be a problem, the bottom of the tooth pocket can be beveled on the side to allow the material to “squeeze” out. This reduction of contact area is not critical because the pressure on the bottom of the pocket is very light in horizontal conveyors. Other relief styles may be necessary for vertical conveyors.

Advantages of Using Larger Sprockets

Choose the largest sprocket that will fit your application. Small sprockets cause greater shock and consequently more wear on both chain and sprockets. There are several reasons for this.

1. To engage small sprockets, chain must flex more which causes increased rotation of the pin in the bushing. Since this is one of the major causes of chain wear, this flexing action should be minimized.
2. Small sprockets with fewer teeth wear out much faster than sprockets with more teeth. More teeth provide an opportunity to distribute the wearing action.
3. Larger sprockets cause smoother operation because the greater number of teeth will pick up the load more frequently.

Chordal Action

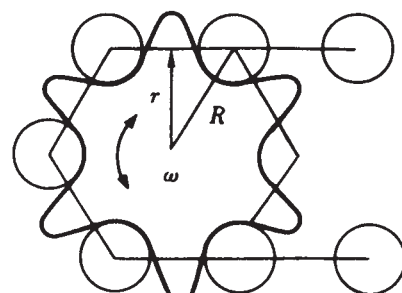
Chordal action is a very important concept in sprocket function. A sprocket is a collection of chords, or straight segments, that approximate a circle. The more teeth a sprocket has, the closer the chords are to a circle.

The problem with a chordal form is that the lineal output is not consistent. Since the sprocket is not a perfect circle, the distance from the shaft center to the chain center line varies. As this distance varies, so does the lineal output (assuming a constant shaft rotational speed).

A hexagon inscribed by a circle represents the six-tooth sprocket shown below. You can see that the distance from the center to the corner is different than from the center to the middle of the side. The corner would be the equivalent to the chain joint center, and the side is equivalent to the chain center line at mid-pitch.

Minimum Chain Speed

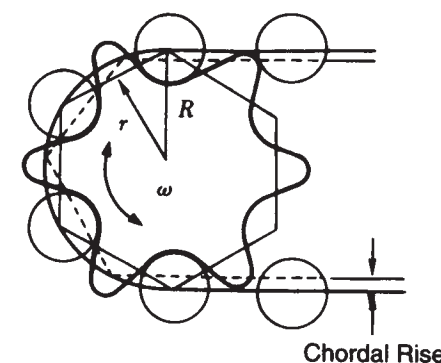
$$V_{\min} = r\omega$$



$$V_1 = .2618 (PD) \cos (180/T) N$$

Maximum Chain Speed

$$V_{\max} = R\omega$$



$$V_2 = .2618 (PD) N$$

Where
 V_1 and V_2 in fpm
 N in r.p.m.
 PD in pitch diameter, in inches

OTHER SPROCKET TECHNICAL CONSIDERATIONS

Sprockets Keyed-In-Line

When two strands of chain run parallel with each other and they are to be timed identically, it is important to have the keyway position to be in the same relationship on both sprockets. This is referred to, and should be ordered as “keyed-in-line” or “matched in pairs” to obtain this feature (**Figure 1**).

Sprocket Size

Use the largest diameter conveyor sprocket that space and economics permit. This minimizes chain speed variations and pulsations and reduces wear to the chain and sprocket.

Sprocket Life

When sprockets are worn, the chain tends to cling to the sprockets or vibrate. The amount of allowable wear depends on the application type and chain size. Wear to a depth of 0.12" (3 mm) to 0.24" (6 mm) is usually a sign that the existing sprocket should be replaced, illustrated in **Figure 2**.

If the sprocket teeth are worn, the alignment may be incorrect. Proper axial alignment of the sprockets will help reduce or even eliminate wear of sprocket teeth, illustrated in **Figure 3**.

Figure 1

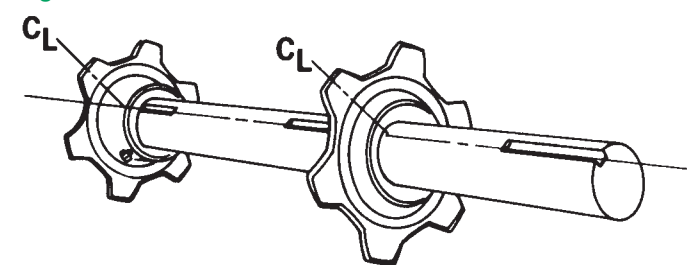
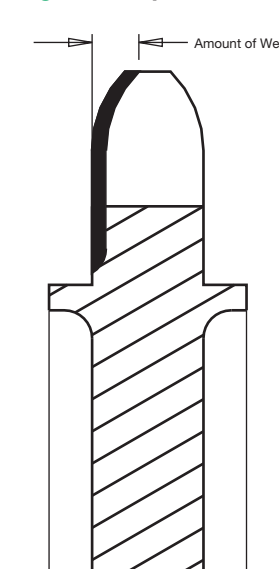


Figure 2 - Sprocket Wear



Figure 3 - Sprocket Tooth Wear



TERMS AND CONDITIONS OF SALE

PRICE-PAYMENT

The prices stated, if any, are those in effect on the date hereof and are subject to change based on prices in effect on the date of shipment. Interest at the rate of 18% per annum shall be charged on overdue payments. Prices are for Seller's standard packaging only, and F.O.B. Seller's plant or warehouse. All orders are subject to credit approval. Terms of payment are net, 30 days. In the event of non-payment by Buyer, Buyer shall pay all of Seller's costs of collection, including reasonable attorneys' fees. Up to 5% over or under the specified quantity for made-to-order products may be shipped at Seller's option.

PERFORMANCE-CHANGES-DELAYS

- (a) Any time for delivery stated herein is approximate. Delivery shall be deemed complete by tender of the products to a common carrier. Partial shipments are permitted.
- (b) Orders are not subject to cancellation or revision, in whole or in part, without written approval of Seller.
- (c) Should Buyer cause changes to be made in the design or construction of said products, or otherwise delay or interrupt the progress of the work hereunder, Buyer will reimburse Seller for any additional expenses arising therefrom.
- (d) Seller shall not be liable for any delay caused by acts of God, riot or civil commotion, government orders, rules, regulations, suspensions or requisitions of any kind, strikes or other stoppages of labor or shortage in the supply of labor or material, fire casualties or accidents, or any cause, whether of the same or a different character, beyond Seller's control. Any such delay shall extend the time for delivery of the products. Delay in delivery of any installment shall not relieve Buyer of its obligation to accept remaining deliveries.
- (e) If delays due to Buyer's fault exceed 60 days in the aggregate, the entire purchase price shall be due and payable to Seller on demand.

RISK OF LOSS

After delivery to the carrier, Buyer assumes the risk of all loss or damage to the products resulting from any cause whatever.

LIMITED WARRANTY

Products manufactured by Seller: (a) conform to the design and specifications, if any, expressly agreed to in writing by Seller; and (b) are free of defects in workmanship and materials at the time of shipment. The warranties set forth in the preceding sentence are exclusive of all other warranties, express or implied, and extend only to Buyer and to no other person. **ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED.**

NON-RELIANCE

Buyer is not relying upon any advice, representations or warranties (except the warranties expressly set forth above) of Seller, or upon Seller's skill or judgment regarding the Seller's products. Buyer is solely responsible for the design and specifications of the products, including without limitation, the determination of suitability for Buyer's application of the products.

CLAIMS

- (a) Any claim relating to quantity or type shall be made to Seller in writing within 7 days after receipt of the products; any such claim made thereafter shall be barred.
- (b) Any claim under the above-stated Limited Warranty shall be made to Seller in writing within three (3) months after receipt of the products; any such claim made thereafter shall be barred.
- (c) Seller's liability for breach of warranty or otherwise is limited to repair or replacement, at Seller's option, of non-conforming or defective products. Buyer waives all other remedies, including, but not limited to, all rights to consequential, special or incidental damages, including, but not limited to, damages resulting from personal injury, death or damage to or loss of use of property.
- (d) Repair, alteration, neglect or misuse of the products shall void all applicable warranties.

INDEMNIFICATION

Buyer will indemnify, defend and hold Seller harmless from all loss, liability, damage and expense, including attorneys' fees, arising out of any claim (a) for infringement of any patent, trademark, copyright, misappropriation of trade secrets, unfair competition or similar charge by any products supplied by Seller in accordance with the design or specifications furnished by Buyer, or (b) arising out of or connected with the products or any items into which the products are incorporated, including, but not limited to, any claim for product liability (whether or not based on negligence or strict liability of Seller), breach of warranty, breach of contract or otherwise.

DUTIES AND TAXES

In addition to the specified purchase price, Buyer will pay any and all federal, state or local taxes, duties, excises, license fees and other charges leveled, assessed or imposed upon Seller due to the manufacture, sale, purchase or delivery of the products. Buyer shall also pay the cost by which such manufacture is increased by reason of any law, ordinance or regulation adopted or promulgated by any government or governmental subdivision, department or agency, or other source, after the date hereof, but prior to the completion and delivery hereunder.

SPECIFICATIONS, DRAWINGS, PATTERNS AND TOOLS

Seller's specifications, drawings, patterns and tooling shall be the sole and exclusive property of Seller unless otherwise agreed in writing.

ENTIRE AGREEMENT

These terms and conditions constitute the entire agreement between Buyer and Seller and supersede any inconsistent terms and conditions, whether contained in Buyer's purchase order or otherwise, and whether made heretofore or hereafter. No statement or writing subsequent to the date hereof which purports to modify or add to the terms and conditions hereof shall be binding unless consented to in writing, which makes specific reference hereto, and which has been signed by the party against which enforcement thereof is sought. Seller reserves the right to change these terms and conditions without prior notice.

RETURNED GOODS

No goods will be accepted for return without prior written authorization by Seller. Freight must be prepaid on all such returns, and each return is subject to inspection and acceptance by Seller to assure the goods are in a "resalable" condition. A minimum 10% handling and restocking charge will be applied to all authorized returns. Special or made-to-order goods are NOT returnable. Attachment chains returned are at the manufacturer's discretion.