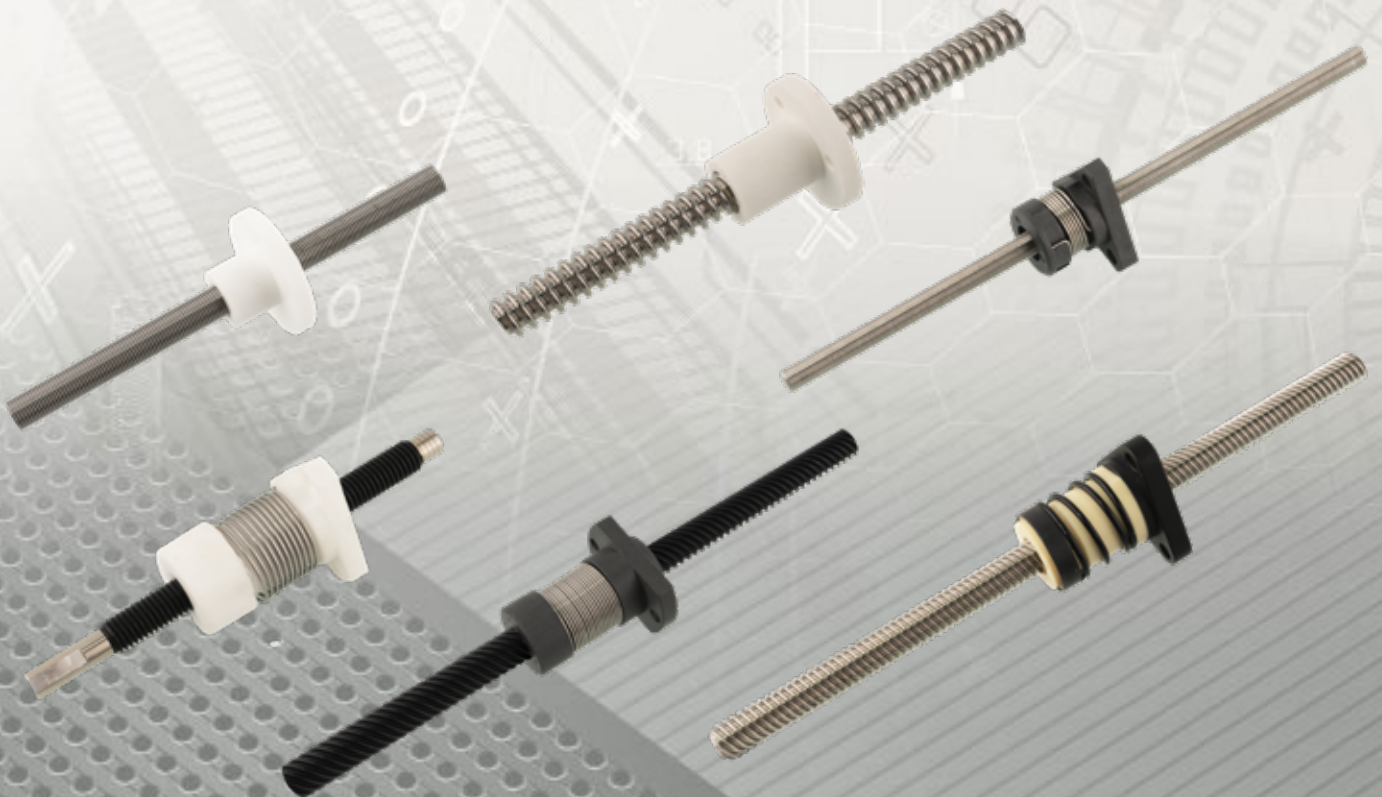


DINGS
Precision Motion Specialist

SCREW-NUT PRODUCT CATALOG





Since its establishment in 2008, Jiangsu DINGS' Intelligent Control Technology Co., Ltd adheres to the **"Quality comes from Responsibility, Details determine Success or Failure"** business concept, commits to become a Precision Motion Specialist and world-class motion control solutions provider. DINGS' provides precision stepper motor actuators, brushless DC motors and motion controllers.

Size

DINGS' facility covers an area of 56 acres, with more than 5,000 square meters of processing center, equipped with more than 100 sets of processing equipment such as wire rolling machine, automatic injection molding machine, CNC machine tools, machining centers, automatic screw straightening machine, etc., with a total investment of more than 100 million in equipment; there are more than 20 motor assembly lines in the production workshop, with an annual production capacity of up to 4 million units; and there is a product research and development center, a precision testing and inspection laboratory and an experimental center.

It is equipped with testing and inspection instruments such as positioning torque test, hardness test, precision measurement, dynamic balance, etc. It has an integrated management system of product design, manufacturing and inspection, which provides the necessary conditions to meet the customized demands of users.



Qualifications

DINGS' is a high-tech company listed on the new third board, NEEQ stock market in June, 2021. And listed on the Beijing Stock Exchange 13th Apr, 2023. DINGS has awards of "Jiangsu Private Science and Technology Enterprise", "Jiangsu Science and Technology Small and Medium-sized Enterprise" and "Jiangsu Specialized and New Small Giant Enterprise". In addition, DINGS' products have RoHS, CE, REACH and other certifications as ISO9001 and ISO14001. DINGS' has more than 80 invention patents.



Growth

2008

Established a company and registered DINGS' Brand

2010

Established DINGS' MOTION USA

2016

Established DINGS' Korea

2019

Join in LEILI group

2021

Company moved to Jiangsu Railway Industrial Park
Established Changzhou Intelligent Manufacturing Factory
Listed on the new third board, NEEQ stock market

2022

Application of Jiangsu Engineering Technology Research Center
Application of Changzhou Enterprise Technology Center
Set up R&D Center in Korea

2023

Application for National Specialized New Small Giant
Establishment of DINGS' Europe
Listed on the Beijing Stock Exchange [Stock Code : 873593]

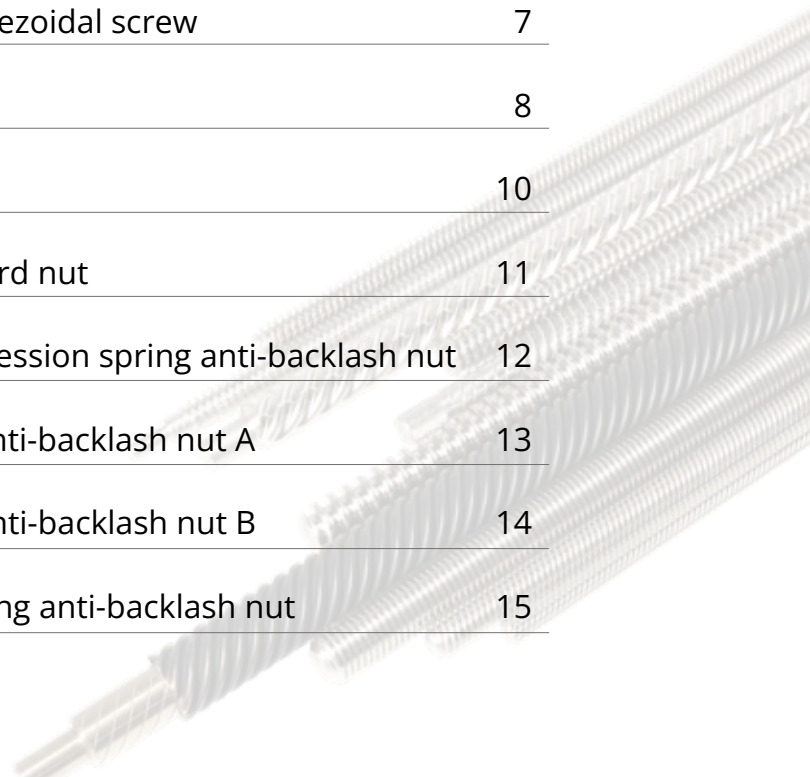
2024

Relocation of Headquarter into new plant

Content



| | |
|---|----|
| Technical introduction | 1 |
| Terminology and technical parameters | 2 |
| Lead screw components | 3 |
| Customized screw components | 6 |
| Installation and maintenance of trapezoidal screw | 7 |
| List of screw specifications | 8 |
| CS Circular flange standard nut | 10 |
| CTS Circular flange trimming standard nut | 11 |
| CTC Circular flange trimming compression spring anti-backlash nut | 12 |
| TTA Triangle flange torsion spring anti-backlash nut A | 13 |
| TTB Triangle flange torsion spring anti-backlash nut B | 14 |
| TC Triangle flange compression spring anti-backlash nut | 15 |



Technical Introduction

DINGS' is continuously exploring and improving its Linear Actuator products with the goal of meeting customers' application requirements. DINGS' products are not ordinary screws and nuts. The design of screw threads takes into account the requirements of high precision, long life and low noise, and some special designs are made to increase the fluidity of the material when the screw is processed, which is very important for the screw. Finally, it is used with special material nuts of DINGS' to get the maximum economic value.

Lead Screw Material

DINGS' standard screw material is SUS303/316, we believe that to get a high quality screw, the material performance is the key. We strictly inspect the size and hardness of the material of each batch; customers can find that DINGS' screws are very stable and have good anti-corrosion properties, which can be applied to a variety of strict environments. In order to get a more accurate thread, the key lies in the stability of the process such as: speed, vibration, temperature and precise control of the flow of coolant. Precision CNC tumblers ensure that the process is stable and adjustable.



CNC Straightening

Maximizing the straightness of the screw results in a smoother surface and longer product life. This process eliminates human error and minimizes vibration, noise and premature wear caused by axial play.



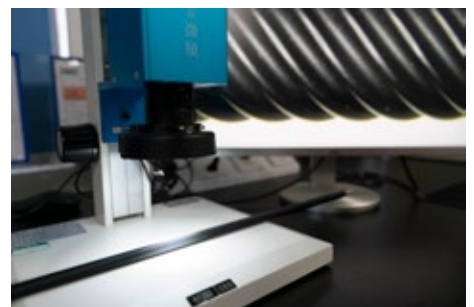
Excellent Lead Accuracy

DINGS' has a dynamic lead accuracy measuring instrument, so that the lead accuracy already gets a stable detection in the manufacturing stage. Accuracy can be stably controlled within 0.07mm/300mm, 2 times higher than the industrial standard.



Quality Inspection

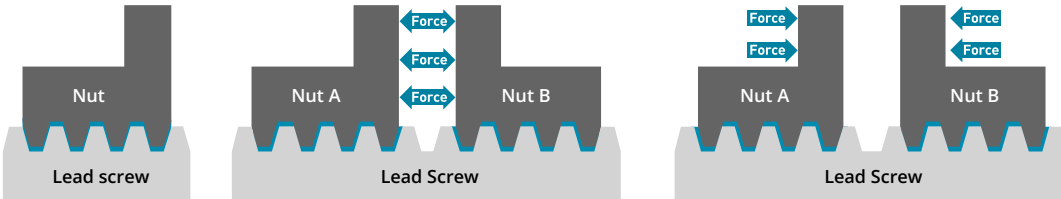
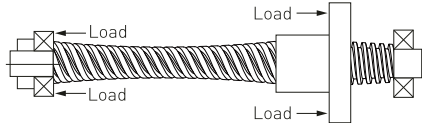
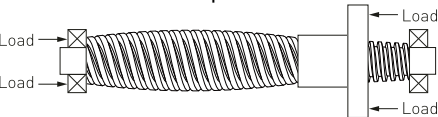

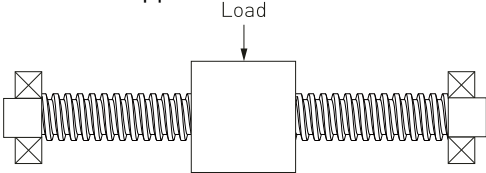
Thread surface is inspected using a high magnification optical imager in the manufacturing and coating process.



Teflon Coating Technology

Teflon coating technology, developed and processed in-house, reduces the friction coefficient on the surface of the screw, improving its efficiency and extending its service life. Every coated screw is inspected with an optical imager to ensure that there is no flaking or unevenness in the layers.

Terminology and Technical Parameters

| | |
|------------------|--|
| Backlash | <p>Backlash (clearance) is the relative axial movement between a screw and a nut without rotating the screw or nut. Backlash increases with operating time. DINGS' has developed several unique methods to minimize or eliminate the clearance between a screw and a nut.</p>  <p>The diagram shows three cross-sectional views of a lead screw and nut assembly. 1. Standard nut: A single nut on a lead screw. 2. Torsional spring anti-backlash nut: Two nuts, Nut A and Nut B, are mounted on the same lead screw. Nut A is on the left and Nut B is on the right. They are connected by a torsional spring. 3. C ompression spring anti-backlash nut: Similar to the torsional spring design, but the two nuts are connected by a compression spring. Blue arrows labeled 'Force' indicate the direction of movement for each nut.</p> <p>Standard nut Torsional spring anti-backlash nut C ompression spring anti-backlash nut</p> |
| Tension load | <p>Load that tends to stretch the screw.</p>  <p>The diagram shows a lead screw with a nut at each end. Arrows labeled 'Load' point outwards from the center of the screw, indicating a tensile force.</p> |
| Compression load | <p>Load that tends to press the screw.</p>  <p>The diagram shows a lead screw with a nut at each end. Arrows labeled 'Load' point inwards towards the center of the screw, indicating a compressive force.</p> |
| Axial load | <p>A load parallel to and concentric with the axis of the screw.</p>  <p>The diagram shows a lead screw with a nut at each end. Arrows labeled 'Load' point parallel to the axis of the screw, indicating an axial force.</p> |
| Radial load | <p>Radial load applied to the nut.</p>  <p>The diagram shows a lead screw with a nut at each end. A downward arrow labeled 'Load' is applied to the top of the central nut, indicating a radial force.</p> |

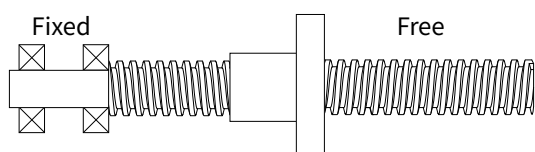
Lead Screw Components

End Machining

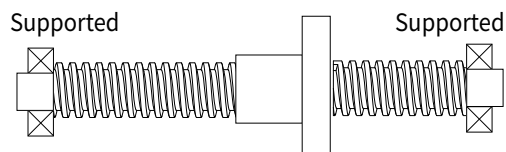
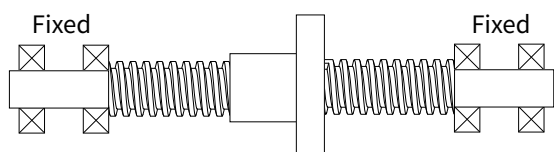
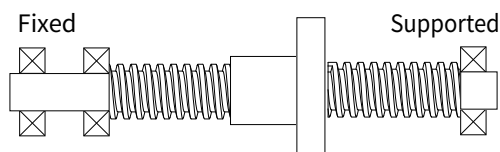
Select the end machining specification according to the actual size of the outer diameter of the screw, and contact our technical support engineers for confirmation.



Type of End Fixity



Free

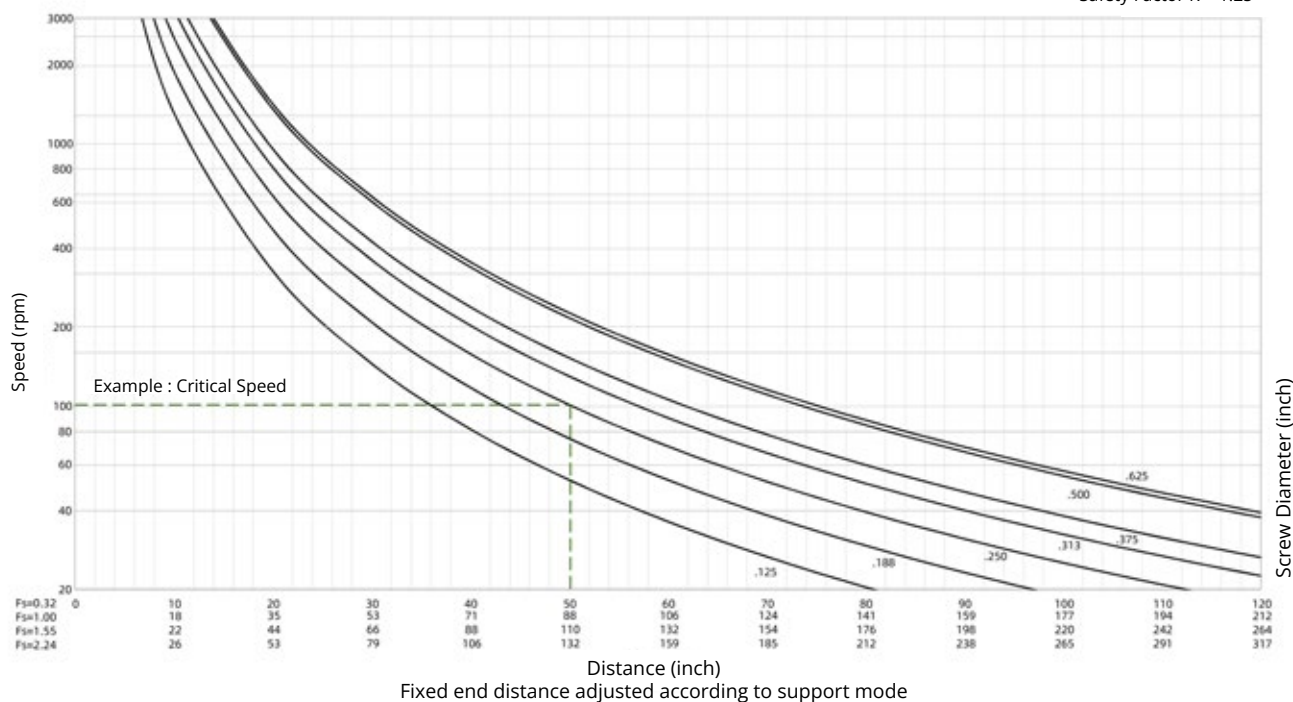


Critical Speed of the Screw

When customers use this chart, they need to determine the fixing method and linear speed of the screw ends, and then calculate the rotational speed based on the lead of the screw.

Note: The speed of the screw should be less than 80% of the critical speed.

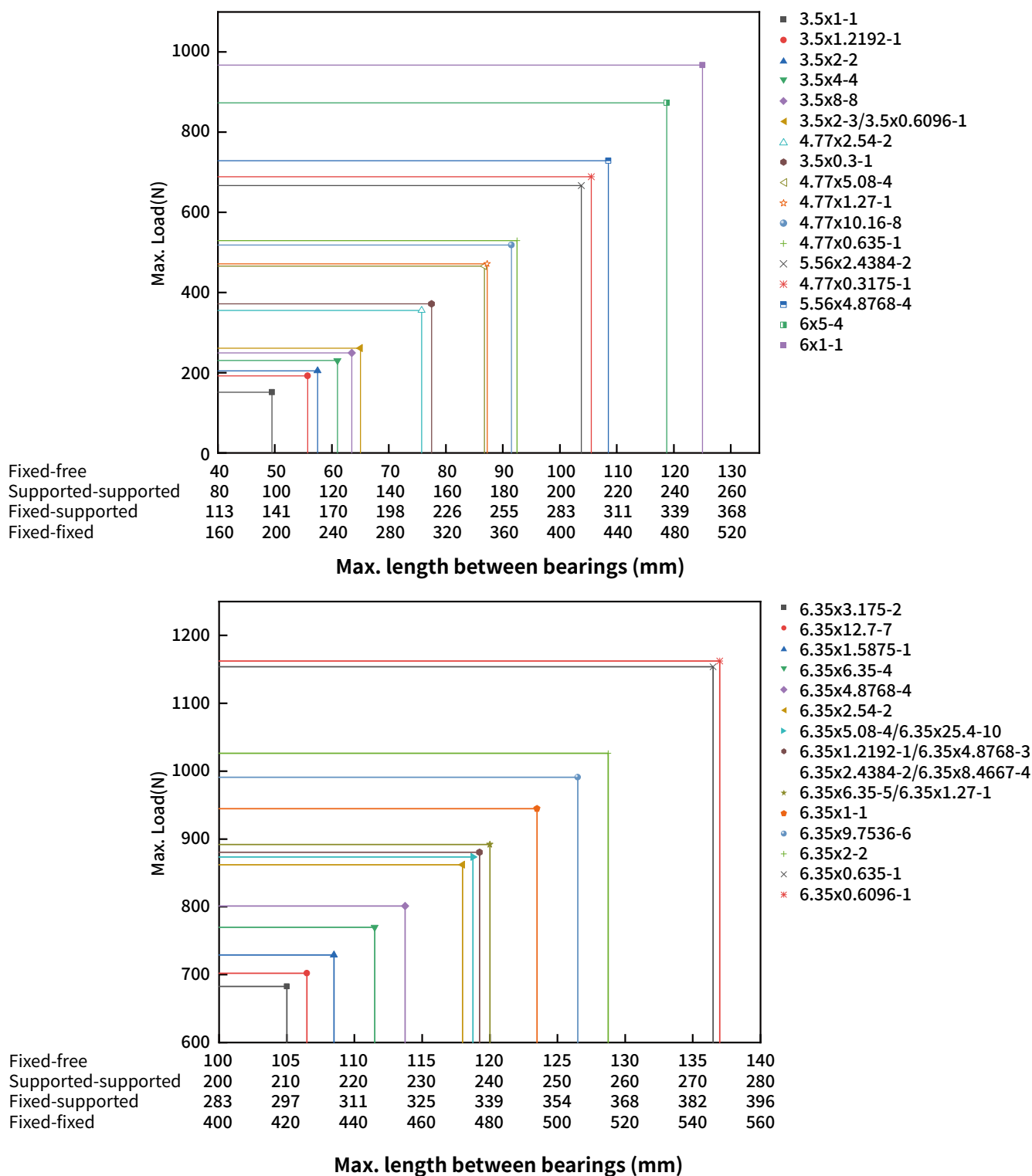
Safety Factor K = 1.25



Lead Screw Components

Critical Load of the Screw

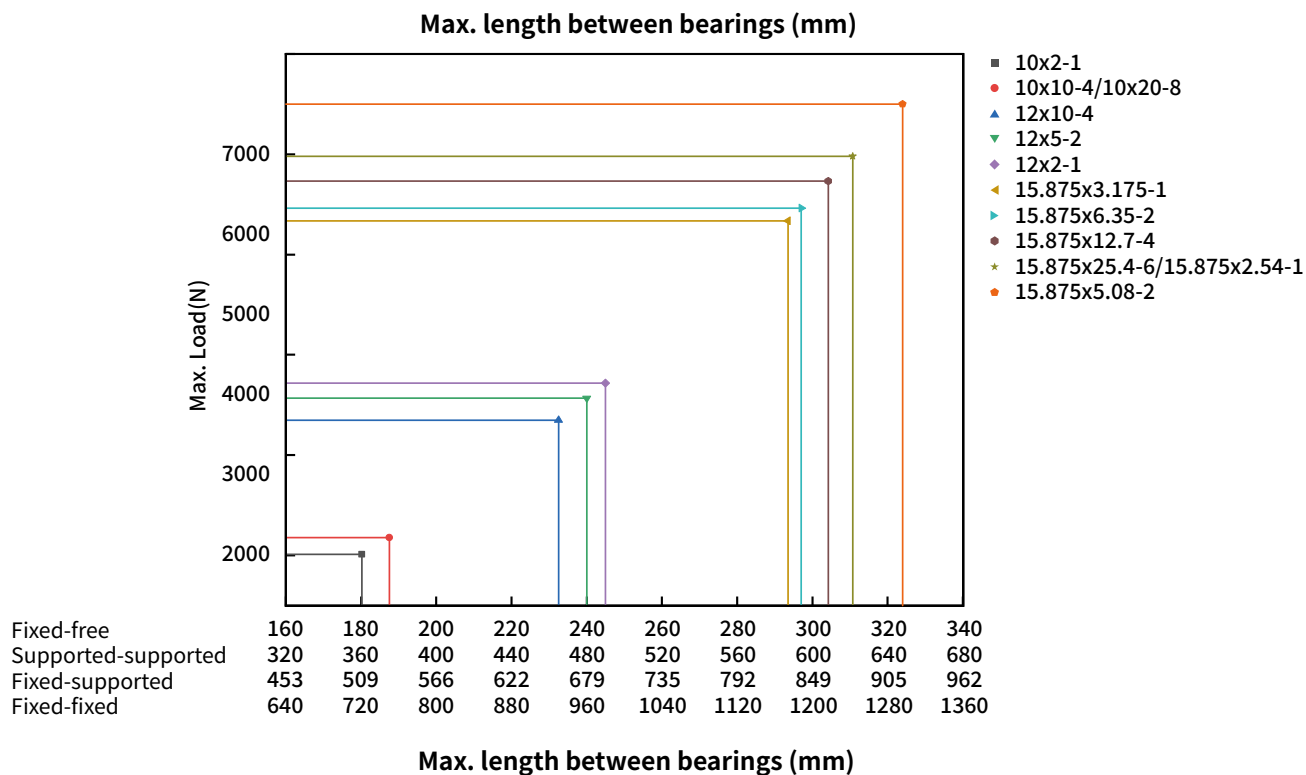
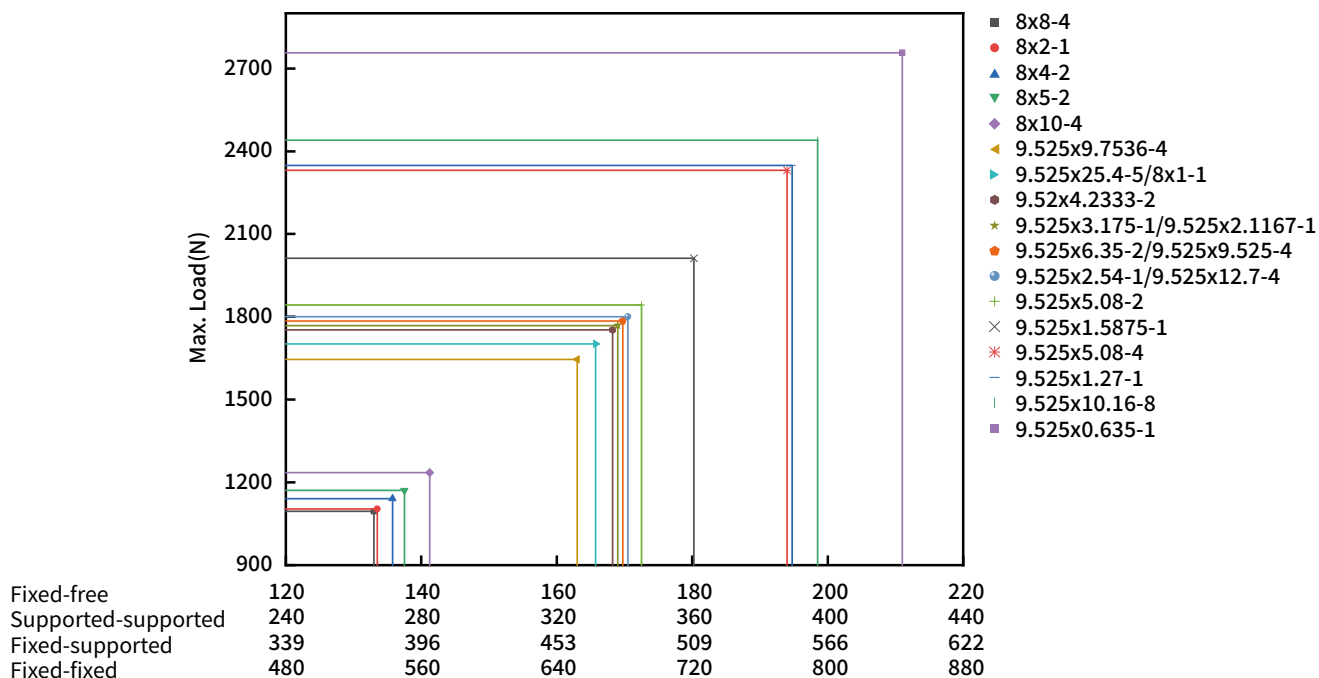
To use this chart: first confirm the fixing method by locating the point where the maximum length between the bearing support and the trapezoidal nut intersects the maximum load, and then ensure that the selected screws are located above and to the right of this point.



Lead Screw Components

Critical Load of the Screw

To use this chart, first confirm the fixing method by locating the point where the maximum length between the bearing support and the trapezoidal nut intersects the maximum load, and then ensure that the selected screws are located above and to the right of this point.



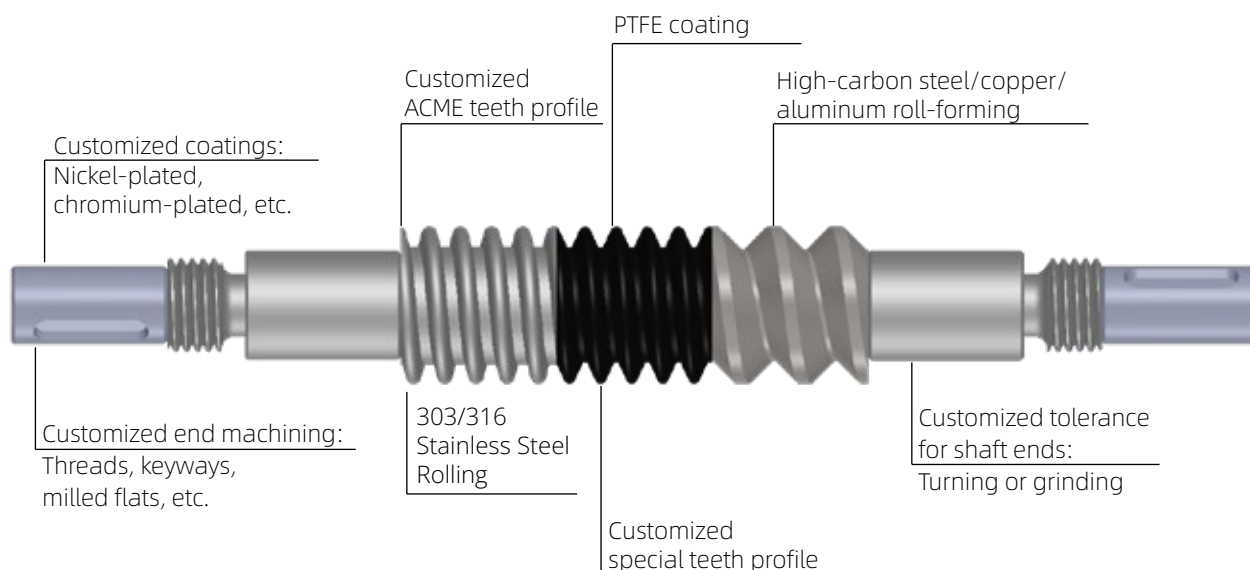
Customized Screw Components

Customized Nuts

DINGS' can machine nuts from a wide range of high performance engineered materials such as polyacetal, polyamide, polyphenylene sulfide, polyester or custom engineered polymers including fillers, PTFE, carbon fibers, aramid fibers, glass fibers, etc. In your R&D phase we can provide you with rapid prototyping through machining or 3D printing. In the mass production phase, if you have significant cost and design constraints, then our engineers can help you to reduce costs and optimize your design by opening molds.

Customized Screws

DINGS' manufactures world-class precision screws. Over the years, we have continuously optimized our screw design and rolling process, and we also have the ability to grind and turn screws, all in order to satisfy our customers' requirements. We have customized hundreds of non-standard screws in sizes that are not in our catalog, and we are experts in rolled screws in non-standard materials such as aluminum, copper, high carbon steel, 300 and 400 series stainless steel, etc.



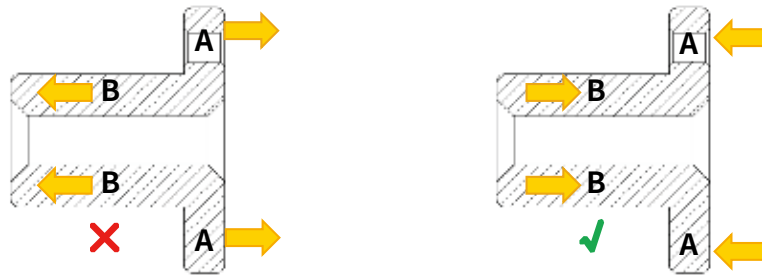
Installation and Maintenance of Trapezoidal Screw

Mounting Screws

The screw must be carefully aligned with the aid of a measuring tool to ensure that the axis is horizontal or vertical. If no measuring tool is available, rotate the screw manually over its entire length before installing the drive unit. Unevenness of force or traces of movement on the outer diameter of the screw may result in axial deviation between the screw shaft and the guide element. In this case the corresponding fixing bolts should be loosened and the screw manually rotated again until the strength is even.

Mounting Nuts

The installation of the nut usually requires attention to coincide with the axis of the screw and is usually commissioned using the same method as for the installation of the screw. It should also be noted that the direction of the load should not attempt to separate flange A from cylinder B, as this is detrimental to the strength of the mechanism.



Lubrication

1. Lubricating oil: Not commonly used, special cases only (e.g. strict costs, short-term use, inability to get the right grease fast enough)
2. Grease: The lubrication method in common cases, will generally give a long service life. It is recommended to clean the screws before lubrication.
3. Type of grease: Bearing grease without solid lubricant or with very fine solid lubricant.

Operating Temperature

Depends on the nut material used, lubrication conditions and operating conditions. For temperatures above 100°C, please consult our engineers.

Wear and Maintenance

The lubricating frequency of the screws depend on the operating conditions :

1. Smaller loads and speeds and proper installation are generally associated with a longer service life, which is usually maintenance-free, as we simply wait for the nut to reach the end of its service life and then replace it.
2. Moderate loads and speeds usually require periodic inspection of the condition of the screw and nut. We recommend annual maintenance to remove dust from the surface of the screw and then re-grease the screw, which will prolong its service life.
3. For higher loads and speeds, we recommend that the screws be maintained every three months by cleaning the surface of the screws of dust and replenishing the grease.
4. During maintenance, the screw needs to be rotated manually, if the backlash exceeds the customer's ideal value, then the nut needs to be replaced. If the customer has no requirements for backlash, then according to DINGS' standard, the nut must be replaced when the backlash exceeds 1/3 of the pitch.

Service

We can carry out professional repair work on screws within a short period of time, either at DINGS' or at the customer's premises. This service is also available for third party products. If DINGS' has the standardized product, it can be obtained within a very short period of time.

List of Screw Specifications

| Standard Dia. | | Dia. Code | Lead | | Lead Code | Outer Dia. (Reference) | | Bottom Dia. (Reference) | | Corresponding to Left-Handed Thread | Efficiency %* |
|-----------------|-------------|-----------|-----------------|-------------|-----------|------------------------|-------------|-------------------------|-------------|-------------------------------------|---------------|
| Imperial (inch) | Metric (mm) | | Imperial (inch) | Metric (mm) | | Imperial (inch) | Metric (mm) | Imperial (inch) | Metric (mm) | | |
| 0.098 | 2.50 | 009 | 0.0394 | 1.0000 | AB | 0.0976 | 2.48 | 0.0780 | 1.98 | | 55 |
| 9/64 | 3.50 | 014 | 0.0118 | 0.3000 | AF | 0.1370 | 3.48 | 0.1213 | 3.08 | ** | 24 |
| | | | 0.0240 | 0.6096 | AA | 0.1358 | 3.45 | 0.1020 | 2.59 | ** | 40 |
| | | | 0.0394 | 1.0000 | AB | 0.1283 | 3.26 | 0.0780 | 1.98 | ** | 58 |
| | | | 0.0480 | 1.2192 | B | 0.1366 | 3.47 | 0.0878 | 2.23 | ** | 61 |
| | | | 0.0787 | 2.0000 | G | 0.1370 | 3.48 | 0.0874 | 2.22 | yes | 72 |
| | | | 0.1575 | 4.0000 | M | 0.1366 | 3.47 | 0.0961 | 2.44 | ** | 79 |
| | | | 0.3150 | 8.0000 | T | 0.1366 | 3.47 | 0.1000 | 2.54 | ** | 81 |
| 3/16 | 4.77 | 018 | 0.0125 | 0.3175 | AL | 0.1882 | 4.78 | 0.1661 | 4.22 | ** | 21 |
| | | | 0.0250 | 0.6350 | A | 0.1874 | 4.76 | 0.1457 | 3.70 | ** | 33 |
| | | | 0.0500 | 1.2700 | D | 0.1882 | 4.78 | 0.1374 | 3.49 | yes | 58 |
| | | | 0.0625 | 1.5875 | F | 0.1878 | 4.77 | 0.1563 | 3.97 | ** | 60 |
| | | | 0.1000 | 2.5400 | K | 0.1882 | 4.78 | 0.1193 | 3.03 | ** | 69 |
| | | | 0.1920 | 4.8768 | Q | 0.1878 | 4.77 | 0.1378 | 3.50 | ** | 79 |
| | | | 0.2000 | 5.0800 | R | 0.1874 | 4.76 | 0.1366 | 3.47 | ** | 80 |
| | | | 0.4000 | 10.1600 | X | 0.1874 | 4.76 | 0.1441 | 3.66 | ** | 82 |
| 0.24 | 6.00 | 024 | 0.0394 | 1.0000 | AB | 0.2354 | 5.9800 | 0.1961 | 4.9800 | ** | 40 |
| | | | 0.0787 | 2.0000 | G | 0.2303 | 5.8500 | 0.1752 | 4.4500 | ** | 59 |
| | | | 0.1969 | 5.0000 | E | 0.2354 | 5.9800 | 0.1862 | 4.7300 | ** | 76 |
| 1/4 | 6.35 | 025 | 0.0240 | 0.6096 | AA | 0.2492 | 6.33 | 0.2157 | 5.48 | ** | 26 |
| | | | 0.0250 | 0.6350 | A | 0.2500 | 6.35 | 0.2150 | 5.46 | ** | 27 |
| | | | 0.0313 | 0.7940 | N | 0.2492 | 6.33 | 0.2106 | 5.35 | ** | 32 |
| | | | 0.0394 | 1.0000 | AB | 0.2500 | 6.35 | 0.1945 | 4.94 | ** | 37 |
| | | | 0.0480 | 1.2192 | B | 0.2492 | 6.33 | 0.1878 | 4.77 | ** | 45 |
| | | | 0.0500 | 1.2700 | D | 0.2492 | 6.33 | 0.1894 | 4.81 | ** | 46 |
| | | | 0.0625 | 1.5875 | F | 0.2469 | 6.27 | 0.1894 | 4.81 | yes | 46 |
| | | | 0.0960 | 2.4384 | J | 0.2496 | 6.34 | 0.1886 | 4.79 | ** | 61 |
| | | | 0.1000 | 2.5400 | K | 0.2488 | 6.32 | 0.1886 | 4.79 | yes | 62 |
| | | | 0.1250 | 3.1750 | L | 0.2488 | 6.32 | 0.1669 | 4.24 | ** | 67 |
| | | | 0.1920 | 4.8768 | Q | 0.2492 | 6.33 | 0.1791 | 4.55 | ** | 76 |
| | | | 0.2000 | 5.0800 | R | 0.2496 | 6.34 | 0.1870 | 4.75 | ** | 76 |
| | | | 0.2500 | 6.3500 | S | 0.2488 | 6.32 | 0.1890 | 4.80 | ** | 76 |
| | | | 0.2500 | 6.3500 | S | 0.2488 | 6.32 | 0.1756 | 4.4600 | ** | 78 |
| | | | 0.3333 | 8.4667 | U | 0.2492 | 6.33 | 0.1886 | 4.79 | ** | 78 |
| | | | 0.3840 | 9.7536 | W | 0.2492 | 6.33 | 0.1992 | 5.06 | ** | 78 |
| | | | 0.5000 | 12.7000 | Y | 0.2480 | 6.30 | 0.1677 | 4.26 | ** | 82 |
| | | | 1.0000 | 25.4000 | Z | 0.2496 | 6.34 | 0.1870 | 4.75 | ** | 84 |

List of Screw Specifications

| Standard Dia. | | Dia. Code | Lead | | Lead Code | Outer Dia. (Reference) | | Bottom Dia. (Reference) | | Corresponding to Left-Handed Thread | Efficiency %* |
|--------------------|----------------|--------------|--------------------|----------------|--------------|------------------------|----------------|-------------------------|----------------|--|------------------|
| Imperial (inch) | Metric (mm) | | Imperial (inch) | Metric (mm) | | Imperial (inch) | Metric (mm) | Imperial (inch) | Metric (mm) | | |
| 0.315 | 8.000 | 032 | 0.0394 | 1.0000 | AB | 0.3118 | 7.92 | 0.2638 | 6.70 | ** | 34 |
| | | | 0.0787 | 2.0000 | G | 0.3122 | 7.93 | 0.2102 | 5.34 | ** | 53 |
| | | | 0.1575 | 4.0000 | M | 0.3146 | 7.99 | 0.2138 | 5.43 | ** | 68 |
| | | | 0.1969 | 5.0000 | E | 0.3142 | 7.98 | 0.2165 | 5.50 | ** | 73 |
| | | | 0.3150 | 8.0000 | T | 0.3209 | 8.15 | 0.2087 | 5.30 | ** | 80 |
| | | | 0.3937 | 10.0000 | C | 0.3142 | 7.98 | 0.2165 | 5.50 | ** | 82 |
| 3/8 | 9.525 | 0.37 | 0.0250 | 0.6350 | A | 0.3740 | 9.50 | 0.3323 | 8.44 | ** | 19 |
| | | | 0.0500 | 1.2700 | D | 0.3740 | 9.50 | 0.3067 | 7.79 | ** | 36 |
| | | | 0.0625 | 1.5875 | F | 0.3732 | 9.48 | 0.2839 | 7.21 | ** | 41 |
| | | | 0.0833 | 2.1167 | H | 0.3728 | 9.47 | 0.2673 | 6.79 | ** | 48 |
| | | | 0.1000 | 2.5400 | K | 0.3732 | 9.48 | 0.2677 | 6.80 | yes | 53 |
| | | | 0.1250 | 3.1750 | L | 0.3728 | 9.47 | 0.2657 | 6.75 | ** | 59 |
| | | | 0.1667 | 4.2333 | P | 0.3728 | 9.47 | 0.2650 | 6.73 | ** | 61 |
| | | | 0.2000 | 5.0800 | R | 0.3736 | 9.49 | 0.2398 | 6.9 | ** | 68 |
| | | | 0.2500 | 6.3500 | S | 0.3728 | 9.47 | 0.2665 | 6.77 | ** | 71 |
| | | | 0.3750 | 9.5250 | V | 0.3736 | 9.49 | 0.2673 | 6.79 | ** | 77 |
| | | | 0.3840 | 9.7536 | W | 0.3732 | 9.48 | 0.2567 | 6.52 | ** | 77 |
| | | | 0.4000 | 10.1600 | X | 0.3720 | 9.45 | 0.3126 | 7.94 | ** | 78 |
| | | | 0.5000 | 12.7000 | Y | 0.3740 | 9.50 | 0.2685 | 6.82 | ** | 80 |
| | | | 1.0000 | 25.4000 | Z | 0.3732 | 9.48 | 0.2610 | 6.63 | ** | 84 |
| 0.394 | 10.000 | 039 | 0.0787 | 2.0000 | G | 0.3902 | 9.91 | 0.2839 | 7.21 | ** | 47 |
| | | | 0.3937 | 10.0000 | C | 0.3929 | 9.98 | 0.2953 | 7.50 | ** | 79 |
| | | | 0.7874 | 20.0000 | I | 0.3929 | 9.98 | 0.2953 | 7.50 | ** | 82 |
| 0.470 | 12.000 | 047 | 0.0787 | 2.0000 | G | 0.4717 | 11.98 | 0.3858 | 9.80 | ** | 39 |
| | | | 0.1965 | 5.0000 | E | 0.4717 | 11.98 | 0.3780 | 9.60 | ** | 60 |
| | | | 0.3937 | 10.0000 | C | 0.4717 | 11.98 | 0.3661 | 9.30 | ** | 73 |
| | | | 0.5906 | 15.0000 | CE | 0.4717 | 11.98 | 0.3591 | 9.12 | ** | 78 |
| | | | 0.9843 | 25.0000 | IE | 0.4717 | 11.98 | 0.3543 | 9.00 | ** | 80 |
| 0.625 | 15.875 | 062 | 0.1000 | 2.5400 | K | 0.6228 | 15.82 | 0.4886 | 12.41 | ** | 40 |
| | | | 0.1250 | 3.1750 | L | 0.6236 | 15.84 | 0.4622 | 11.74 | ** | 47 |
| | | | 0.2000 | 5.0800 | R | 0.6205 | 15.76 | 0.5102 | 12.96 | ** | 58 |
| | | | 0.2500 | 6.3500 | S | 0.6220 | 15.80 | 0.4677 | 11.88 | ** | 63 |
| | | | 0.5000 | 12.7000 | Y | 0.6217 | 15.79 | 0.4791 | 12.17 | ** | 74 |
| | | | 1.0000 | 25.4000 | Z | 0.6228 | 15.82 | 0.4894 | 12.43 | ** | 80 |

CS Circular Flange Standard Nut

Part Number Construction

Example : L CS M1 G R - 014AB - 0150.00 - N - 001

L

Screw Type

L = Sliding Screw

CS

Nut Model

S = No Nut

CS = Circular flange standard nut

CTS = Circular flange trimming standard nut

CTC = Circular flange trimming compression spring anti-backlash nut

TTA = Triangle flange torsion spring anti-backlash nut A

TTB = Triangle flange torsion spring anti-backlash nut B

TC = Triangle flange compression spring anti-backlash nut

NS = Non-standard customization nut

M1

Nut Material

M1 = POM Option

M2 = PBT Option

M3 = PPS Option

M4 = Bronze

G

Screw Surface Treatment

G = Standard lubrication grease

T = PTFE Coating

S = No oil, No coating

D = Non-standard customization

R

Thread Direction

R = Right hand thread

L = Left hand thread

C = Non-standard customization

014AB

Screw Standard

014 = Diameter code

AB = Lead code

For details p8-9

0150.00

Screw Length

Imperial : 0000.00

Metric : 0000

N

Screw End Type

M = Metric thread (P8-9)

S = Smooth end

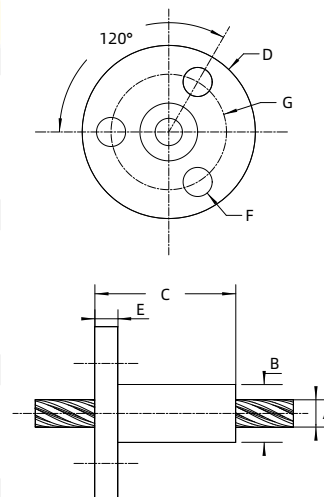
B = Non-standard customization

N = No processing

001

Customization Serial Number

Mechanical Dimension



| Material | Operation Temperature | | | | | | | | |
|--|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|
| POM | 5°C-80°C (41°F-176°F) | | | | | | | | |
| PBT | -40°C-120°C (-40°F-248°F) | | | | | | | | |
| PPS | -40°C-220°C (-40°F-428°F) | | | | | | | | |
| Screw diameter A mm (inch) | 3.5 (9/64) | 4.77 (3/16) | 6 (0.24) | 6.35 (1/4) | 8 (0.315) | 9.5 (3/8) | 10 (0.394) | 12 (0.47) | 15.8 (0.625) |
| Nut diameter B mm (inch) | 6.35 (0.25) | 8 (0.31) | 12 (0.47) | 12 (0.47) | 12 (0.47) | 15.88 (0.63) | 15.88 (0.63) | 22 (0.866) | 28.6 (1.13) |
| Nut length C mm (inch) | 15.5 (0.61) | 9.5 (0.37) | 13.4 (0.52) | 13.4 (0.52) | 13.4 (0.52) | 25.4 (1) | 25.4 (1) | 30 (1.181) | 31.7 (1.25) |
| Flange diameter D mm (inch) | 19.05 (0.75) | 19.05 (0.75) | 25.4 (1) | 25.4 (1) | 25.4 (1) | 31.75 (1.25) | 31.75 (1.25) | 44 (1.732) | 57.15 (2.25) |
| Flange thickness E mm (inch) | 2.54 (0.1) | 3.2 (0.126) | 3.8 (0.15) | 3.8 (0.15) | 3.8 (0.15) | 4.76 (0.19) | 4.76 (0.19) | 5 (0.197) | 12.7 (0.5) |
| Installation hole diameter F mm (inch) | 3.2 (0.126) | 3.2 (0.126) | 3.2 (0.126) | 3.2 (0.126) | 3.2 (0.126) | 3.5 (0.14) | 3.5 (0.14) | 5.4 (0.213) | 7 (0.28) |
| Screw hole center diameter G mm (inch) | 12.7 (0.5) | 12.7 (0.5) | 19.05 (0.75) | 19.05 (0.75) | 19.05 (0.75) | 22.22 (0.87) | 22.22 (0.87) | 31 (1.220) | 44.45 (1.75) |
| Dynamic allowable load max Kg (lbs) | 11 (24) | 15 (33) | 20 (44) | 20 (44) | 20 (44) | 35 (75) | 35 (75) | 68 (149) | 100 (220) |
| Torque max N-m (oz-in) | No torque | No torque | No torque | No torque | No torque | No torque | No torque | No torque | No torque |

CTS Circular Flange Trimming Standard Nut

Part Number Construction

Example : L CTS M1 G R - 014AB - 0150.00 - N - 001

L

Screw Type

L = Sliding Screw

CTS

Nut Model

S = No Nut

CS = Circular flange standard nut

CTS = Circular flange trimming standard nut

CTC = Circular flange trimming compression spring anti-backlash nut

TTA = Triangle flange torsion spring anti-backlash nut A

TTB = Triangle flange torsion spring anti-backlash nut B

TC = Triangle flange compression spring anti-backlash nut

NS = Non-standard customization nut

M1

Nut Material

M1 = POM Option

M2 = PBT Option

M3 = PPS Option

M4 = Bronze

G

Screw Surface Treatment

G = Standard lubrication grease

T = PTFE Coating

S = No oil, No coating

D = Non-standard customization

R

Thread Direction

R = Right hand thread

L = Left hand thread

C = Non-standard customization

014AB

Screw Standard

014 = Diameter code

AB = Lead code

For details p8-9

0150.00

Screw Length

Imperial : 0000.00

Metric : 0000

N

Screw End Type

M = Metric thread (P8-9)

S = Smooth end

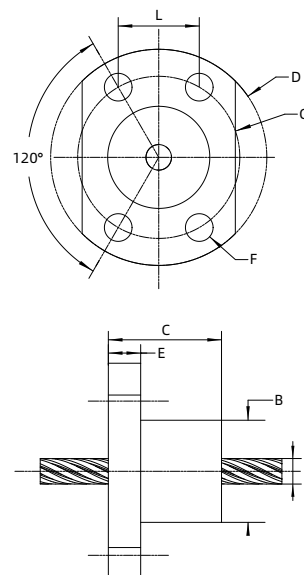
B = Non-standard customization

N = No processing

001

Customization Serial Number

Mechanical Dimension



| Material | Operation Temperature |
|----------|---------------------------|
| POM | 5°C-80°C (41°F-176°F) |
| PBT | -40°C-120°C (-40°F-248°F) |
| PPS | -40°C-220°C (-40°F-428°F) |

| Screw diameter A mm (inch) | 6 (0.24) | 6.35 (1/4) | 8 (0.315) | 9.5 (3/8) | 10 (0.394) |
|--|-----------------|-----------------|-----------------|------------------|------------------|
| Nut diameter B mm (inch) | 12 (0.47) | 12 (0.47) | 12 (0.47) | 15.8 (0.62) | 15.8 (0.62) |
| Nut length C mm (inch) | 13.3 (0.52) | 13.3 (0.52) | 13.3 (0.52) | 25.25 (0.99) | 25.25 (0.99) |
| Flange diameter D mm (inch) | 24.4 (0.96) | 25.4 (1) | 24.4 (0.96) | 31.8 (1.25) | 31.8 (1.25) |
| Flange thickness E mm (inch) | 3.8 (0.15) | 3.8 (0.15) | 3.8 (0.15) | 4.7 (0.185) | 4.7 (0.185) |
| Installation hole diameter F mm (inch) | 3.25 (0.13) | 3.25 (0.13) | 3.25 (0.13) | 4.2 (0.165) | 4.2 (0.165) |
| Screw hole center diameter G mm (inch) | 19.05 (0.75) | 19.05 (0.75) | 19.05 (0.75) | 22.22 (0.87) | 22.22 (0.87) |
| Mounting hole distance L mm (inch) | 9.45 (0.37) | 9.45 (0.37) | 9.45 (0.37) | 11.05 (0.435) | 11.05 (0.435) |
| Dynamic allowable load max Kg (lbs) | 20 (44) | 20 (44) | 20 (44) | 35 (75) | 35 (75) |
| Torque max N-m (oz-in) | No torque | No torque | No torque | No torque | No torque |

CTC Circular Flange Trimming Compression Spring Anti-backlash Nut

Part Number Construction

Example : L CTC M1 G R - 014AB - 0150.00 - N - 001

L

Screw Type

L = Sliding Screw

CTC

Nut Model

S = No Nut

CS = Circular flange standard nut

CTS = Circular flange trimming standard nut

CTC = Circular flange trimming compression spring anti-backlash nut

TTA = Triangle flange torsion spring anti-backlash nut A

TTB = Triangle flange torsion spring anti-backlash nut B

TC = Triangle flange compression spring anti-backlash nut

NS = Non-standard customization nut

M1

Nut Material

M1 = POM Option

M5 = PA66 Option

G

Screw Surface Treatment

G = Standard lubrication grease

T = PTFE Coating

S = No oil, No coating

D = Non-standard customization

R

Thread Direction

R = Right hand thread

L = Left hand thread

C = Non-standard customization

014AB

Screw Standard

014 = Diameter code

AB = Lead code

For details p8-9

0150.00

Screw Length

Imperial : 0000.00

Metric : 0000

N

Screw End Type

M = Metric thread (P8-9)

S = Smooth end

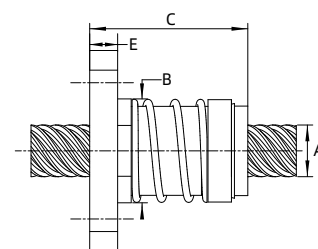
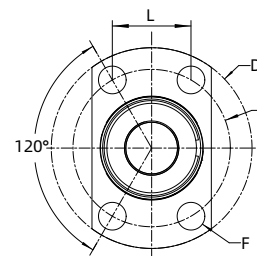
B = Non-standard customization

N = No processing

001

Customization Serial Number

Mechanical Dimension



| Material | Operation Temperature | | | | |
|--|--------------------------|-----------------|-----------------|-----------------|-----------------|
| POM | 5°C-80°C (41°F-176°F) | | | | |
| PA66 | -5°C-100°C (-23°F-212°F) | | | | |
| Screw diameter A mm (inch) | 6 (0.24) | 6.35 (1/4) | 8 (0.315) | 9.5 (3/8) | 10 (0.394) |
| Nut diameter B mm (inch) | 15.9 (0.625) | 15.9 (0.625) | 15.9 (0.625) | 19.15 (0.75) | 19.15 (0.75) |
| Nut length C mm (inch) | 25 (0.98) | 25 (0.98) | 25 (0.98) | 30 (1.18) | 30 (1.18) |
| Flange diameter D mm (inch) | 31 (1.22) | 31 (1.22) | 31 (1.22) | 37 (1.46) | 37 (1.46) |
| Flange thickness E mm (inch) | 4.1 (0.16) | 4.1 (0.16) | 4.1 (0.16) | 5.15 (0.20) | 5.15 (0.20) |
| Installation hole diameter F mm (inch) | 3.2 (0.126) | 3.2 (0.126) | 3.2 (0.126) | 5.1 (0.2) | 5.1 (0.2) |
| Screw hole center diameter G mm (inch) | 25 (0.98) | 25 (0.98) | 25 (0.98) | 29 (1.14) | 29 (1.14) |
| Mounting hole distance L mm (inch) | 12.5 (0.49) | 12.5 (0.49) | 12.5 (0.49) | 14.5 (0.57) | 14.5 (0.57) |
| Dynamic allowable load max Kg (lbs) | 2.3 (5) | 2.3 (5) | 3.6 (8) | 3.6 (8) | 3.6 (8) |
| Torque max N-m (oz-in) | 0.03 (4) | 0.03 (4) | 0.04 (5) | 0.04 (5) | 0.04 (5) |

TTA Triangle Flange Torsion Spring Anti-backlash Nut A

Part Number Construction

Example : L TTA M1 G R - 014AB - 0150.00 - N - 001

L

Screw Type

L = Sliding Screw

TTA

Nut Model

S = No Nut

CS = Circular flange standard nut

CTS = Circular flange trimming standard nut

CTC = Circular flange trimming compression spring anti-backlash nut

TTA = Triangle flange torsion spring anti-backlash nut A

TTB = Triangle flange torsion spring anti-backlash nut B

TC = Triangle flange compression spring anti-backlash nut

NS = Non-standard customization nut

M1

Nut Material

M1 = POM Option

M5 = PA66 Option

G

Screw Surface Treatment

G = Standard lubrication grease

T = PTFE Coating

S = No oil, No coating

D = Non-standard customization

R

Thread Direction

R = Right hand thread

L = Left hand thread

C = Non-standard customization

014AB

Screw Standard

014 = Diameter code

AB = Lead code

For details p8-9

0150.00

Screw Length

Imperial : 0000.00

Metric : 0000

N

Screw End Type

M = Metric thread (P8-9)

S = Smooth end

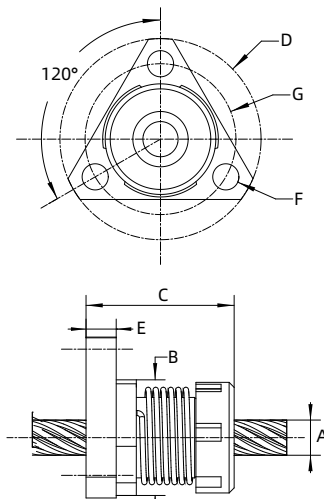
B = Non-standard customization

N = No processing

001

Customization Serial Number

Mechanical Dimension



| Material | Operation Temperature | |
|--|--------------------------|----------------|
| POM | 5°C-80°C (41°F-176°F) | |
| PA66 | -5°C-100°C (-23°F-212°F) | |
| Screw diameter A mm (inch) | 3.5 (9/64) | 4.77(3/16) |
| Nut diameter B mm (inch) | 11.5 (0.45) | 11.5 (0.45) |
| Nut length C mm (inch) | 14.5 (0.57) | 14.5 (0.58) |
| Flange diameter D mm (inch) | 20 (0.79) | 20 (0.79) |
| Flange thickness E mm (inch) | 3 (0.12) | 3 (0.12) |
| Installation hole diameter F mm (inch) | 2.6 (0.1) | 2.6 (0.1) |
| Screw hole center diameter G mm (inch) | 15 (0.59) | 15 (0.59) |
| Dynamic allowable load max Kg (lbs) | 2.3 (5) | 2.3 (5) |
| Torque max N-m (oz-in) | 0.004 (0.5) | 0.004 (0.5) |

TTB Triangle Flange Torsion Spring Anti-backlash Nut B

Part Number Construction

Example : L TTB M1 G R - 014AB - 0150.00 - N - 001

L

Screw Type

L = Sliding Screw

CS

Nut Model

S = No Nut

CS = Circular flange standard nut

CTS = Circular flange trimming standard nut

CTC = Circular flange trimming compression spring anti-backlash nut

TTA = Triangle flange torsion spring anti-backlash nut A

TTB = Triangle flange torsion spring anti-backlash nut B

TC = Triangle flange compression spring anti-backlash nut

NS = Non-standard customization nut

M1

Nut Material

M1 = POM Option

M2 = PBT Option

M3 = PPS Option

G

Screw Surface Treatment

G = Standard lubrication grease

T = PTFE Coating

S = No oil, No coating

D = Non-standard customization

R

Thread Direction

R = Right hand thread

L = Left hand thread

C = Non-standard customization

014AB

Screw Standard

014 = Diameter code

AB = Lead code

For details p8-9

0150.00

Screw Length

Imperial : 0000.00

Metric : 0000

N

Screw End Type

M = Metric thread (P8-9)

S = Smooth end

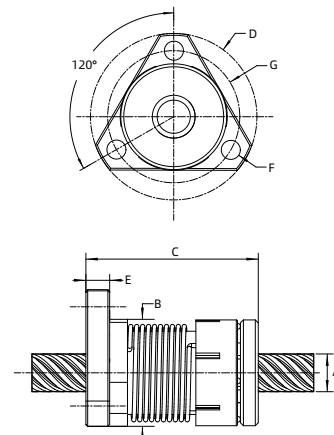
B = Non-standard customization

N = No processing

001

Customization Serial Number

Mechanical Dimension



| Material | Operation Temperature | | | | |
|--|---------------------------|------------------------|----------------------|----------------------|----------------------|
| POM | 5°C-80°C (41°F-176°F) | | | | |
| PBT | -40°C-120°C (-40°F-248°F) | | | | |
| PPS | -40°C-220°C (-40°F-428°F) | | | | |
| Screw diameter A mm (inch) | 6 (0.24)" | 6.35 (1/4)" | 8 (0.315) | 9.5 (3/8) | 10 (0.394) |
| Nut diameter B mm (inch) | 18 (0.7) | 18 (0.7) | 18 (0.7) | 20 (0.79) | 20 (0.79) |
| Nut length C mm (inch) | 30 (1.18) | 30 (1.18) | 30 (1.18) | 40 (1.57) | 40 (1.57) |
| Flange diameter D mm (inch) | 28 (1.1) | 28 (1.1) | 28 (1.1) | 38.1 (1.5) | 38.1 (1.5) |
| Flange thickness E mm (inch) | 4 (0.157) | 4 (0.157) | 4 (0.157) | 7 (0.276) | 7 (0.276) |
| Installation hole diameter F mm (inch) | 3.2 (0.126) | 3.2 (0.126) | 3.2 (0.126) | 5.1 (0.2) | 5.1 (0.2) |
| Screw hole center diameter G mm (inch) | 22.22 (0.87) | 22.22 (0.87) | 22.22 (0.87) | 28.6 (1.125) | 28.6 (1.125) |
| Dynamic allowable load max Kg (lbs) | 5 (11) | 5 (11) | 10 (20) | 10 (20) | 10 (20) |
| Torque max N-m (oz-in) | 0.004-0.014 (0.5-2) | 0.004-0.014 (0.5-2) | 0.007-0.020 (1-3) | 0.007-0.020 (1-3) | 0.007-0.020 (1-3) |

TC Triangle Flange Compression Spring Anti-backlash Nut

Part Number Construction

Example : L TC M1 G R - 014AB - 0150.00 - N - 001

L

Screw Type

L = Sliding Screw

TC

Nut Model

S = No Nut

CS = Circular flange standard nut

CTS = Circular flange trimming standard nut

CTC = Circular flange trimming compression spring anti-backlash nut

TTA = Triangle flange torsion spring anti-backlash nut A

TTB = Triangle flange torsion spring anti-backlash nut B

TC = Triangle flange compression spring anti-backlash nut

NS = Non-standard customization nut

M1

Nut Material

M1 = POM Option

M5 = PA66 Option

G

Screw Surface Treatment

G = Standard lubrication grease

T = PTFE Coating

S = No oil, No coating

D = Non-standard customization

R

Thread Direction

R = Right hand thread

L = Left hand thread

C = Non-standard customization

014AB

Screw Standard

014 = Diameter code

AB = Lead code

For details p8-9

0150.00

Screw Length

Imperial : 0000.00

Metric : 0000

N

Screw End Type

M = Metric thread (P8-9)

S = Smooth end

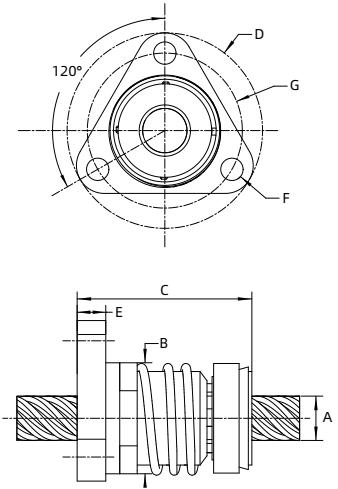
B = Non-standard customization

N = No processing

001

Customization Serial Number

Mechanical Dimension



| Material | Operation Temperature |
|----------|--------------------------|
| POM | 5°C-80°C (41°F-176°F) |
| PA66 | -5°C-100°C (-23°F-212°F) |

| Screw diameter A mm (inch) | 6 (0.24) | 6.35 (1/4) | 8 (0.315) | 9.5 (3/8) | 10 (0.394) |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| Nut diameter B mm (inch) | 15.9 (0.625) | 15.9 (0.625) | 15.9 (0.625) | 19.15 (0.75) | 19.15 (0.75) |
| Nut length C mm (inch) | 25 (0.98) | 25 (0.98) | 25 (0.98) | 30 (1.18) | 30 (1.18) |
| Flange diameter D mm (inch) | 28 (1.1) | 28 (1.1) | 28 (1.1) | 38.3 (1.5) | 38.3 (1.5) |
| Flange thickness E mm (inch) | 4.1 (0.16) | 4.1 (0.16) | 4.1 (0.16) | 5.15 (0.2) | 5.15 (0.2) |
| Installation hole diameter F mm (inch) | 3.2 (0.126) | 3.2 (0.126) | 3.2 (0.126) | 5.1 (0.2) | 5.1 (0.2) |
| Screw hole center diameter G mm (inch) | 22.22 (0.87) | 22.22 (0.87) | 22.22 (0.87) | 28.4 (1.12) | 28.4 (1.12) |
| Dynamic allowable load max Kg (lbs) | 2.3 (5) | 2.3 (5) | 3.6 (8) | 3.6 (8) | 3.6 (8) |
| Torque max N-m (oz-in) | 0.03 (4) | 0.03 (4) | 0.04 (5) | 0.04 (5) | 0.04 (5) |

DINGS'

Precision Motion Specialist

Headquarter , CHINA

Jiangsu DINGS' Intelligent Control Technology Co., LTD

Building 1#, 355 Longjin Road, Changzhou Economic Development Zone, Jiangsu, China

Phone : +86-519-85177825

Fax : +86-519-85177807

E-mail : info@dingsmotion.com

www.dingsmotion.com

Shenzhen Office

Room 1105, Block C, CIMC industry demonstration park, Qiaoming Road, Guangming district, Shenzhen City

E-mail : info@dingsmotion.com

International Office

DINGS' Motion USA

355 Cochrane Circle Morgan Hill, CA 95037

Phone : +1-408-612-4970

E-mail : sales@dingsmotionusa.com

www.dingsmotionusa.com

DINGS' KOREA Co., Ltd

C-702, 158, Haneulmaeul-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do, Republic of Korea

Phone : +82-31-994-0755

Fax : +82-70-4325-0755

E-mail : daniel@dingsmotion.com

www.dingsmotion.kr

DINGS' JAPAN

101, 2-27-18, Nishi-kojiya, Ota-ku, Tokyo 144-0034 JAPAN

Phone : +81-90-7730-0034

E-mail : tsukahara@dingsmotion.com

www.dingsmotion.com

- This catalog is the sole property of DINGS' and without the written authorization of DINGS', any copy or forwarding is prohibited.
- DINGS' reserves the right to make changes without further notification to any products herein to improve the reliability, function or design.
- DINGS' reserves the final interpretation.