



PRECISION LEAD SCREW ASSEMBLY

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**PowerAC™ Precision
Lead Screw Assemblies**



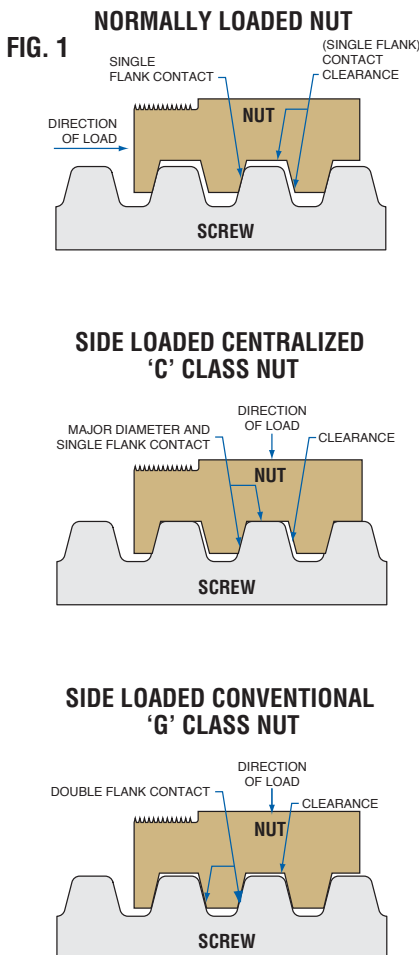
ACME THREAD FORM TERMS

THREAD TYPES

The acme thread form, established over 100 years ago, replaced square thread screws, which had straight-sided flanks and were difficult to manufacture.

There are three main classes of Acme thread forms: General Purpose (G), Centralizing (C), and Stub Acme. The General Purpose and Centralizing thread form have a nominal depth of thread of 0.50 x pitch and have a 29° included thread angle resulting in a trapezoidal tooth shape (some sizes have 40°). Metric trapezoidal thread forms have a 30° included thread angle.

When compared to general-purpose thread forms, centralizing threads are manufactured with tighter tolerances and limited clearance on the major diameter.



If an acme nut is side loaded, a “G” class acme nut will “wedge” when both of the nut thread flanks come in contact with the screw thread flanks. To prevent wedging, less clearance and tighter tolerances are allowed between the major diameter of the nut and the major diameter of the screw.

CAUTION - Although a side load will not cause a centralizing thread to wedge, the nut is not designed to operate with a side load such as a pulley, drive belt, etc. See “Load Definition” section for further information. (SEE FIG. 1)

Stub Acme threads follow the same basic design, but have a thread depth less than one half the pitch.

LAND (MAJOR) DIAMETER

The outside diameter of the screw.

PITCH DIAMETER

On an acme screw, this diameter is approximately halfway between the land diameter and the root diameter. It is the diameter at which the thread thickness is equal to the space between threads.

ROOT (MINOR) DIAMETER

The diameter of the screw measured at the bottom of the thread.

PITCH

The axial distance between threads. Pitch is equal to the lead in a single start screw.

LEAD

The axial distance the nut advances in one revolution of the screw. The lead is equal to the pitch times the number of starts.

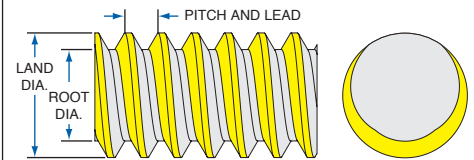
PITCH x STARTS = LEAD

NOTE: Nook Industries acme screw designations reference major diameter and effective turns per inch. For example: 1/4" – 4 RH requires four turns for one inch of travel. A 1/4" – 4 RH has four starts and a 0.062" pitch. 0.062" pitch X four starts = 0.250" lead.

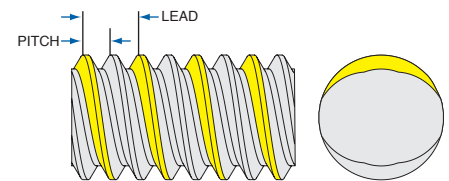
SCREW STARTS

The number of independent threads on the screw shaft; example one, two or four. (SEE FIG. 2)

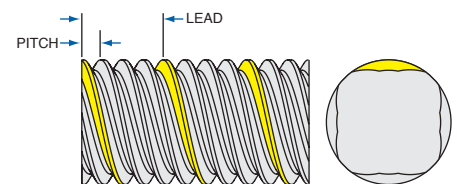
FIG. 2 SINGLE START (LEAD = PITCH)



DOUBLE START (LEAD = 2 x PITCH)



FOUR START (LEAD = 4 x PITCH)



LEAD ACCURACY

Lead accuracy is the difference between the actual distance traveled versus the theoretical distance traveled based on lead. For example: A screw with a 0.5 inch lead and 0.004 inch per foot lead accuracy rotated 24 times theoretically moves the nut 12 inches.

(24 Revolutions x .500 inches per revolution = 12.000 inches of travel)

With a Lead accuracy of 0.004 inch per foot, actual travel could be from 11.996 to 12.004 inches.

Refer to the listings in the design guide for the lead accuracy of a particular screw.

MATCHED LEAD

When multiple screws are used to move a load with precise synchronicity, screws of similar lead accuracy can be factory selected and supplied as sets. Consult factory for matched lead set tolerances.

STRAIGHTNESS

Although PowerAc™ Acme Screws are manufactured from straight, cylindrical material, internal stresses may cause the material to bend or yield. When ordering random lengths or cut material without end machining, straightening is recommended. Handling or machining of screws can also cause the material to bend or yield. Before, during and after machining, additional straightening is required.

When ordering screws with machined ends from Nook Industries, the following straightness tolerances can be expected:

PowerAc™ Rolled and Milled Acme Screws are straight within 0.010 inch/foot and will not exceed 0.030 inch in any 6-foot section, when shipped from the factory.

PowerAc™ Ground Acme Screws are straight within 0.001 inch/foot when shipped from the factory.

If tighter straightness tolerances are required, contact Nook Industries customer service.

LIFE

PowerAc™ Acme Screws are manufactured from high quality materials with excellent dynamic properties. Because of the variable effects of friction, lubrication and cleanliness, a specific life cannot be predicted. Proper lubrication, regular maintenance, and operation within specified limits will extend the life of PowerAc™ Acme Screws.

EFFICIENCY

Efficiency of PowerAc™ Acme Screw assemblies range from 15% to 85%. These efficiencies are dependent upon nut material, lubrication, lead and thread form. The efficiencies for each assembly are listed on the following pages.

BACKDRIVING

Normally, acme screws are used to convert rotary motion into linear motion. Backdriving is the result of the load pushing axially on the screw or nut to create rotary motion.

Generally, a nut with efficiency greater than 50% will have a tendency to backdrive. If a self-locking assembly is required, select a nut with efficiency below 35%.

CAUTION - Vibration can cause any acme screw assembly to creep or backdrive. When using lead screws, applications should be analyzed to determine the necessity of a brake, especially when the possibility of injury may occur.

BACKLASH

Backlash (lash) is the relative axial movement between a screw and nut without rotation of the screw or nut. Backlash information for PowerAc™ Acme Screws and Nuts is listed within the data section of this catalog.

Lash will always increase with use. Nook Industries has developed

several unique ways to reduce or remove the lash between the screw and nut.

For screw diameters over 5/8 inch, PowerAc™ No-Lash™ Flanges are available. The PowerAc™ No-Lash™ Flange is identical to a standard flange except for slotted mounting holes. The backlash can be removed by using a nut with a PowerAc™ No-Lash™ Flange in combination with a standard nut and flange. By rotating the slotted PowerAc™ No-Lash™ Flange and nut relative to the other, the thread in the second nut advances until the lash is reduced.

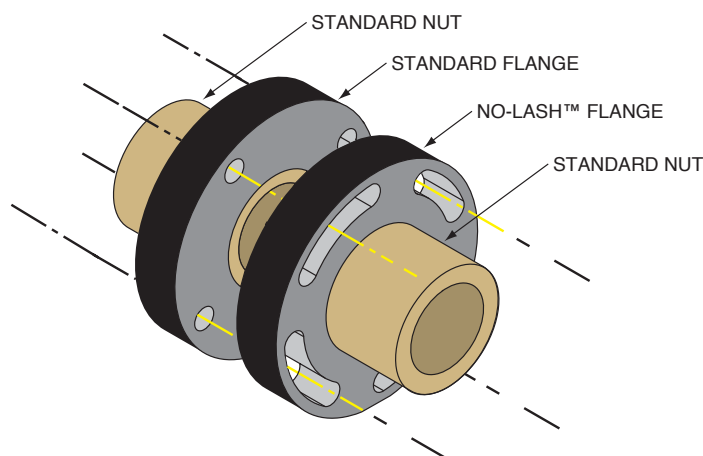
As the nuts wear and backlash increases, loosen the mounting bolts and readjust the PowerAc™ No-Lash™ Flange and nut until the lash is minimized. **(SEE FIG. 3)**

For a complete PowerAc™ No-Lash™ Flange assembly order 2 standard nuts, 1 standard flange and 1 No-Lash™ Flange. For example a 3/4"-2 assembly requires the following:

- 2 – 20072 Standard Nuts
- 1 – 70262 Standard Flange
- 1 – 73262 No-Lash™ Flange

CAUTION - When the uncompensated lash is equal to or greater than 1/4 times the pitch, the assembly should be replaced.

FIG. 3



LOAD DEFINITIONS

STATIC LOAD

The maximum thrust load – including shock – that should be applied to a non-moving PowerAc™ Acme screw and nut assembly.

DYNAMIC LOAD

The maximum recommended thrust load which should be applied to the PowerAc™ Acme screw and nut assembly while in motion.

PV LOAD

Any material which carries a sliding load is limited by heat buildup. The factors that affect heat generation rate in an application are the pressure on the nut in pounds per square inch and the surface velocity in feet per minute. The product of these factors provides a measure of the severity of an application.

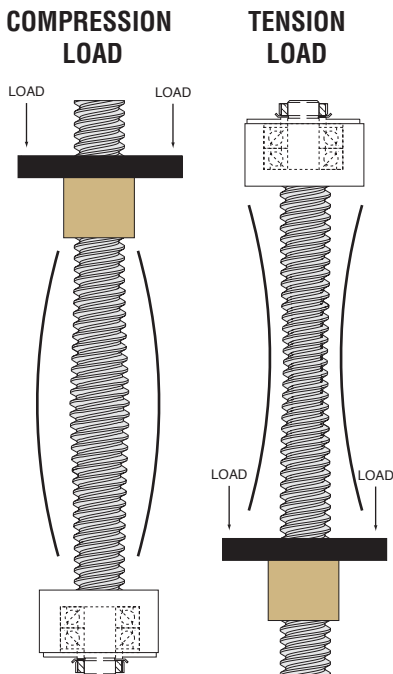
TENSION LOAD

A load that tends to “stretch” the screw. (SEE FIG. 4)

COMPRESSION LOAD

A load that tends to “squeeze” the screw. (SEE FIG. 4)

FIG. 4



THRUST LOAD

A load parallel to and concentric with the axis of the screw.

(SEE FIG. 5)

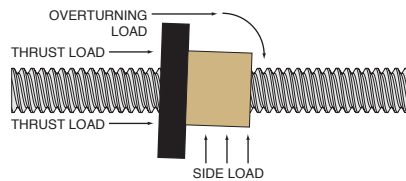
OVERTURNING LOAD

A load that tends to rotate the nut around the longitudinal axis of the screw. (SEE FIG. 5)

SIDE LOAD

A load that is applied radially to the nut. (SEE FIG. 5)

FIG. 5



DESIGN CONSIDERATIONS

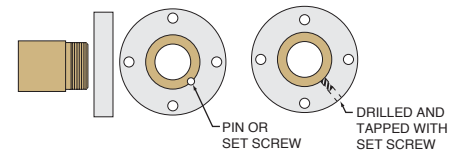
MOUNTING AND PINNING OF ACME NUT FLANGE

Flanges must be secured to acme nuts. The preferred method of locking a flange to a nut is a pin or set screw parallel to the screw which intersects the flange/nut mounting thread. Because of the dissimilarity of materials, the hole may need to be milled, not drilled.

Alternatively, the flange may be drilled and tapped radially for a set screw. After assembly of the flange to the nut, spot drill the nut threads through the flange and install a dog point set screw from the flange O.D. into the nut O.D. threads. Avoid getting metal chips in the nut when drilling. (SEE FIG. 6 and 7 for pin size)

Commercially available thread adhesives may be used for light load applications. Follow the manufacturers

FIG. 6



recommendations to ensure a satisfactory bond. Avoid getting the adhesive onto the acme screw thread.

LUBRICATION

Proper lubrication must be provided to achieve satisfactory service life. Nook PowerAc™ lubricant (E-100 spray lube or PAG-1 grease) is recommended for applications using PowerAc™ nuts.

NOTE: PowerAc™ PLAST/AC™ nuts are considered self-lubricating and may be operated without lubrication. To maximize the life of PLAST/AC™ nuts an initial lubrication is recommended.

Lubrication intervals are determined by the application. It is required that screw assemblies are lubricated often enough to maintain a film of lubricant on the screw.

DRIVING TORQUE

Driving torque is the torque required to move a load and is calculated by multiplying the force needed by the “Torque to raise one lb.” value listed in the technical data section for each screw and nut size.

EXAMPLE: To lift a 1,000 lb. load using a 1"- 6 RH acme screw with plastic nut, 74 in. lbs of torque are required.

.074in.-lb/lb. x 1000 lb. = 74 in.-lb.

FIG. 7

DIAMETER	DESCRIPTION	QUANTITY
Up to 1	#10 - 24 x 1/4 Set Screw	1
1.125 to 1.375	1/4 - 20 x 1/4 Set Screw	2
1.5 to 3	5/16 - 18 x 1/2 Set Screw	2
3.375	3/8 - 16 x 3/4 Set Screw	2
4 +	1/2 - 13 x 1 Set Screw	2



TEMPERATURE

With proper lubrication, PowerAc™ Acme Screws with BRONZ/AC™ nuts operate efficiently between 15°F and 350°F, and PLAST/AC™ nuts between 15°F and 175°F. Consult the factory for low temperature applications.

END MACHINING

To obtain optimum performance of your acme screw assembly, it is recommended that the machining be performed at the Nook Industries factory. Screws may be purchased machined to your specifications or to standard end machining designs shown on pages 212-213.

EZZE-MOUNT™

Lead screws in operation generate an axial load and a radial load; therefore, end mounts must be designed to accommodate these loads. Nook Industries has designed precision end mounts to work specifically with lead screws. For a detailed description of these bearing supports, see pages 214-218.

An EZZE-MOUNT™ can be shipped pre-assembled to a PowerAc™ Acme Screw. For complete PowerAc™ Acme Screw Assemblies refer to pages 41-43.

OPTIONAL SURFACE COATINGS

PowerAc™ Acme Screws are available with optional corrosion resistant and/or lubricated finishes like Nickel, Teflon, or Hard Chrome; consult Nook Industries for detailed specifications.

BOOTS AND BELLOWS

For contaminated environments, use of a boot or metal cover to protect the acme screw assembly is recommended.

ACME SCREW SELECTION

The selection of the correct acme screw and nut for a particular application involves four interrelated factors. Before attempting to determine the acme screw and nut combination, the following values must be known:

- Load measured in pounds or newtons
- Speed measured in inches or millimeters per minute
- Length between bearings measured in inches or millimeters
- End fixity type

LOAD

The loads that need to be considered are the static loads, dynamic loads, reaction forces and any external forces affecting the screw. See Load definitions section above for details.

SPEED

The travel rate (linear speed) is the rpm at which the screw or nut is rotating multiplied by the lead of the screw.

LENGTH

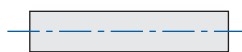
The unsupported length of the screw.

END FIXITY

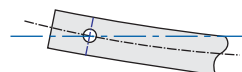
End fixity refers to the method by which the ends of the screw are supported. The degree of end fixity is related to the amount of restraint of the ends of the screw.

Examples of the three basic types of end fixity are:

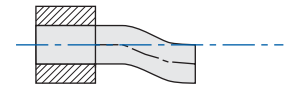
Free No support.



Simple Shaft supported at a single point.



Fixed Shaft rigidly restrained against axial rotation.

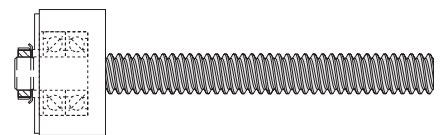


Simple End fixity can be provided through a single bearing support.

Multiple or spaced pairs of bearings are more rigid than a “Simple” support, but because of their compliance are not truly “Fixed”.

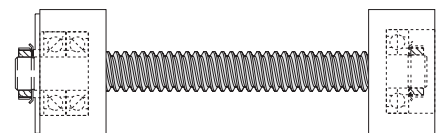
A screw can be supported with different combinations of end fixity. **(SEE FIG. 8: A – D)**

FIG. 8: A & B



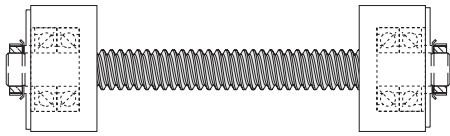
A: One end supported with a Double Bearing EZZE-MOUNT™, other end Free. Use Line “A” in reference to the charts shown on pages 10-11 and 48-49.

NOTE: Not recommended for any application other than short travels and slow speeds.

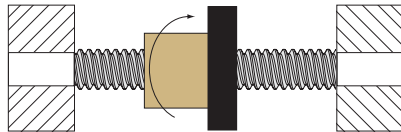


B: One end supported with a Double Bearing EZZE-MOUNT™, other supported with a Single Bearing EZZE-MOUNT™. Use Line “B” in reference to the charts shown on pages 10-11 and 48-49.

FIG. 8: C & D



C: Both ends supported with a Double Bearing EZZE-MOUNT™. Use Line “C” in reference to the charts shown on pages 10-11 and 48-49.



D: Both ends rigidly mounted with a rotating nut or both ends mounted with a double preloaded angular contact bearing spaced apart by at least 1.5 times the diameter of the mounting journal. Use Line “D” in reference to the charts shown on pages 10-11 and 48-49.

CRITICAL SPEED

Once the load, speed, length and end fixity are identified, the next factor to consider is the critical speed.

The speed that excites the natural frequency of the screw is referred to as the critical speed. Resonance at the natural frequency of the screw will occur regardless of the screw orientation (vertical, horizontal etc.) or if the system is designed so the nut rotates about the screw.

The critical speed will vary with the diameter, unsupported length, end fixity and rpm. Since critical speed can also be affected by shaft straightness and assembly alignment, it is recommended the maximum speed be limited to 80% of the calculated critical speed. The theoretical formula to calculate critical speed in rpm is:

$$N = \frac{C_s \times 4.76 \times 10^6 \times d}{L^2}$$

WHERE:

- N = Critical Speed
- d = Root Diameter of Screw
- L = Length Between Bearing Supports
- C_s = .36 for one end fixed, one end free
- 1.00 for both ends simple
- 1.47 for one end fixed, one end simple
- 2.23 for both ends fixed

The critical speed chart on page 11 is provided to quickly determine the minimum screw size applicable for Nook EZZE-MOUNT™ designs.

If the selected Acme screw does not meet critical speed criteria, consider the following options:

- a) Increase screw lead (reduces rpm)
- b) Change end fixity (e.g. simple to fixed)
- c) Increase screw diameter

COLUMN STRENGTH

When a screw is loaded in compression (see compression load definition on page 5), its limit of elastic stability can be exceeded and the screw will fail through bending or buckling.

The theoretical formula to calculate the column strength in pounds is:

$$P_{cr} = \frac{14.03 \times 10^6 \times F_c \times d^4}{L^2}$$

WHERE:

- P_{cr} = Maximum Load
- F_c = End Fixity Factor
- .25 for one end fixed, one end free
- 1.00 for both ends supported
- 2.00 for one end fixed, one end simple
- 4.00 for both ends rigid

d = Root Diameter of Screw

L = Distance between nut and load carrying bearing

The column strength chart, on page 10, may be used to verify that the screw can carry the required load without buckling.

The charts show the theoretical limitations of each screw on a separate line. The lines are limited horizontally by the slenderness ratio and vertically by the maximum static capacity of the BRONZ/AC™ nut. Actual load is limited by maximum nut capacity.

If the selected acme screw does not meet compression load criteria, consider the following options:

- a) Change end fixity (e.g. simple to fixed)
- b) Design to use screw in tension
- c) Increase screw diameter

PV VALUE

For PLAST/AC™ nuts, the PV value needs to be checked (see the PV load definition page 5) The operating load values for the PLAST/AC™ nuts are based on a pressure of 1,250 lbs. per square inch. Any loads less than the operating load can be evaluated by using the following formula:

$$P = \frac{\text{Actual Operating Load}}{\text{Chart Operating Load}} \times 1250$$

V is the relative speed between the nut and the screw in feet per minute. V can be calculated by using the following formula:

$$V = \frac{\text{Outside Dia. (in.) of the Screw} \times \pi \times \text{Operating Speed (rpm)}}{12} \text{ (ft./min)}$$

It is recommended that P x V be limited to values less than 10,000.



APPLICATION

Given the following requirements, select an acme screw for an application which uses Acme screws for an automatic part feeder on a machine.

Specifications:

- 5000 lb load supported and guided on linear bearings moving horizontally
- 36" travel
- Complete 36" travel in 10 seconds
- Bearing Support Undecided
- Positioning accuracy $\pm 1/4$ "

STEP 1

Find the axial force required to move load. The axial force is determined by multiplying the coefficient of friction of the guidance system by the load.

$$F = \mu \times N$$

μ = coefficient of friction of the guidance system

Using Nook linear bearings in this application;
 μ = Coefficient of Friction for lubricated Nook Linear Bearings = .0013
 (Refer to linear ball bearing engineering data found on page 223.)

$$N = \text{Load} = 5000 \text{ pounds}$$

$$F = \mu \times N$$

$$F = .0013 \times 5000 \text{ lbs.}$$

$$F = 6.5 \text{ lbs.}$$

Therefore:

The Axial Force the screw must produce to move the load is 6.5 lbs.

STEP 2

Find Average Travel Rate. The average travel rate is determined by dividing travel distance by travel time.
 $V \text{ average} = D/t$

$$D = \text{distance} = 36 \text{ inches}$$

$$t = \text{total time} = 10 \text{ seconds}$$

$$V \text{ avg.} = D/t$$

$$V \text{ avg.} = 36 \text{ in.} / 10 \text{ sec.}$$

$$V \text{ avg.} = 3.6 \text{ in.} / \text{sec.} \text{ or } 216 \text{ in/minute}$$

Therefore the average travel rate is 216 in/min.

STEP 3

Find Maximum Travel Rate. When considering critical speed, peak velocity should be used. Using a basic triangular motion profile (acceleration = deceleration with no constant velocity travel), the peak velocity equals twice the average velocity.

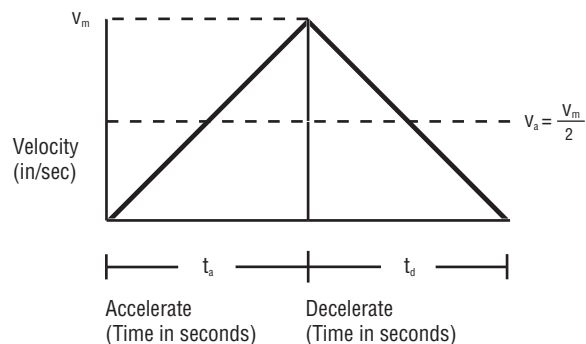
$$V \text{ peak} = 2 \times V \text{ avg.}$$

$$V \text{ avg.} = 3.6 \text{ in.} / \text{sec.} \text{ or } 216 \text{ in/minute}$$

$$V \text{ peak} = 2 \times V \text{ avg.}$$

$$V \text{ peak} = 432 \text{ in/min}$$

The Maximum Travel Rate is 432 in/min during the traverse of 36 inches in 10 seconds.



APPLICATION EXAMPLE

STEP 4

Determine total unsupported length. Total Travel is given as 36 inches, but extra screw length should be considered for travel nut, carriage, and or any extra screw length for over-travel.

Based on the travel nut and attachment of the nut to the carriage in this application, it is determined an extra 4" of screw length will be required. (Refer to the dimensional information of the particular nut used)

$$L \text{ total} = 36 \text{ in} + 4 \text{ in} = 40 \text{ inches}$$

The total unsupported length to be used for critical speed and column loading calculations is 40 inches.

STEP 5

Determining end fixity. The layout of the application shows that adequate space is available to use a double bearing EZZE-MOUNT™ at each end. (See end fixity definitions on page 6)

$$\text{End Fixity} = \text{Type "C"}$$

STEP 6

Select a screw based on the critical speed. Use previously determined values with the Critical Speed chart on page 11.

$$\text{Max Travel Rate} = 432 \text{ in/min}$$

$$\text{End Fixity} = \text{Type "C"}$$

$$\text{Length Between Bearing Supports} = 40 \text{ inches}$$

Based on the Critical Speed Chart, a 1"- 5 Acme Screw (1 inch diameter, 5 threads per inch) is selected.

STEP 7

Check Column Strength of screw. Use previously determined values with the Column Strength chart on page 10.

$$\text{Load} = 6.4 \text{ pounds}$$

$$\text{End Fixity} = \text{Type "C"}$$

$$\text{Length Between Bearing Supports} = 40 \text{ inches}$$

Based on the Column Strength Chart, the load is within the column strength of this screw.

NOTE: If this were a vertical application, the full 5000 pound load would be used. Also, under high acceleration conditions, the inertia load must be determined and added to the total load for column considerations.

STEP 8

Check the PV Value. This relates the pressure load to the speed of the nut. First find the actual "P" value based on the calculation. Using the formulas from page 7:

$$P = \frac{\text{Actual Operating Load}}{\text{Nut Dynamic Load Capacity}} \times 1250 \text{ psi}$$

$$\frac{6.5 \text{ pounds}}{2,500 \text{ pounds}} \times 1250 \text{ psi} = 3.2 \text{ psi}$$

Next the "V" value or maximum relative speed between the screw and nut is:

$$V = \frac{\text{Outside Dia. (in.)}}{\text{of the Screw}} \times \pi \times \frac{\text{Operating Speed (rpm)}}{12"/\text{ft.}}$$

$$\frac{1" \times \pi \times 2160 \text{ rpm}}{12"/\text{ft.}} = 565 \text{ ft/per minute}$$

This results in a "PV" value of 3.2 times 565 or 1808 which is below the maximum recommended value of 10,000.

STEP 9

Create a reference number for the assembly.

See page 15 for Reference Number System Chart.

The 1"- 5 Acme Screw is thread form code 105. The screw material is right-hand thread, alloy steel. The end code used for machining this screw is end code 17. The type of machining will be a Type 3 on both ends of screw to allow for mounting a double bearing EZZE-MOUNT™. One end will have a section to attach a coupling, the other will not. To determine the overall length of the assembly, add up the length of the ends plus the unsupported length:

$$\text{One end Type 3K (drive end with keyway)} = 3.65"$$

$$\text{One end Type 3N (no drive end)} = 2.33"$$

$$40 \text{ inches between supports}$$

$$\text{Over-all length is } 40" + 3.65" + 2.33" = 45.98"$$

The Part List Includes:

One PLAST/AC™ Acme Nut – RH30105

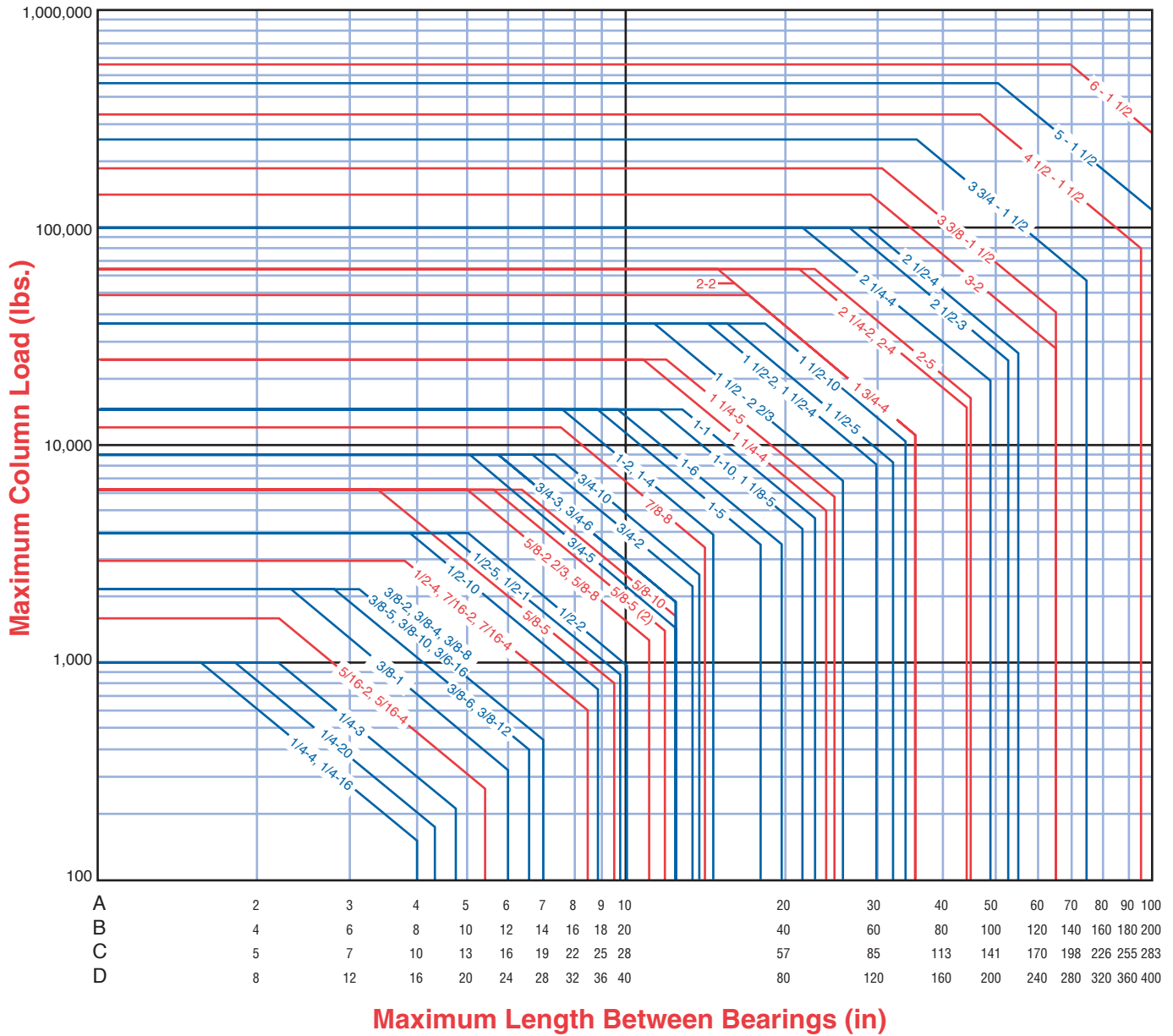
One Steel Flange - 70275

EZZE-MOUNT™ Bearing blocks (2 req'd) - EZM-3017

To receive an assembly of these components with the EZZE-MOUNT™, nut, and flange installed on the screw, the order reference number is:

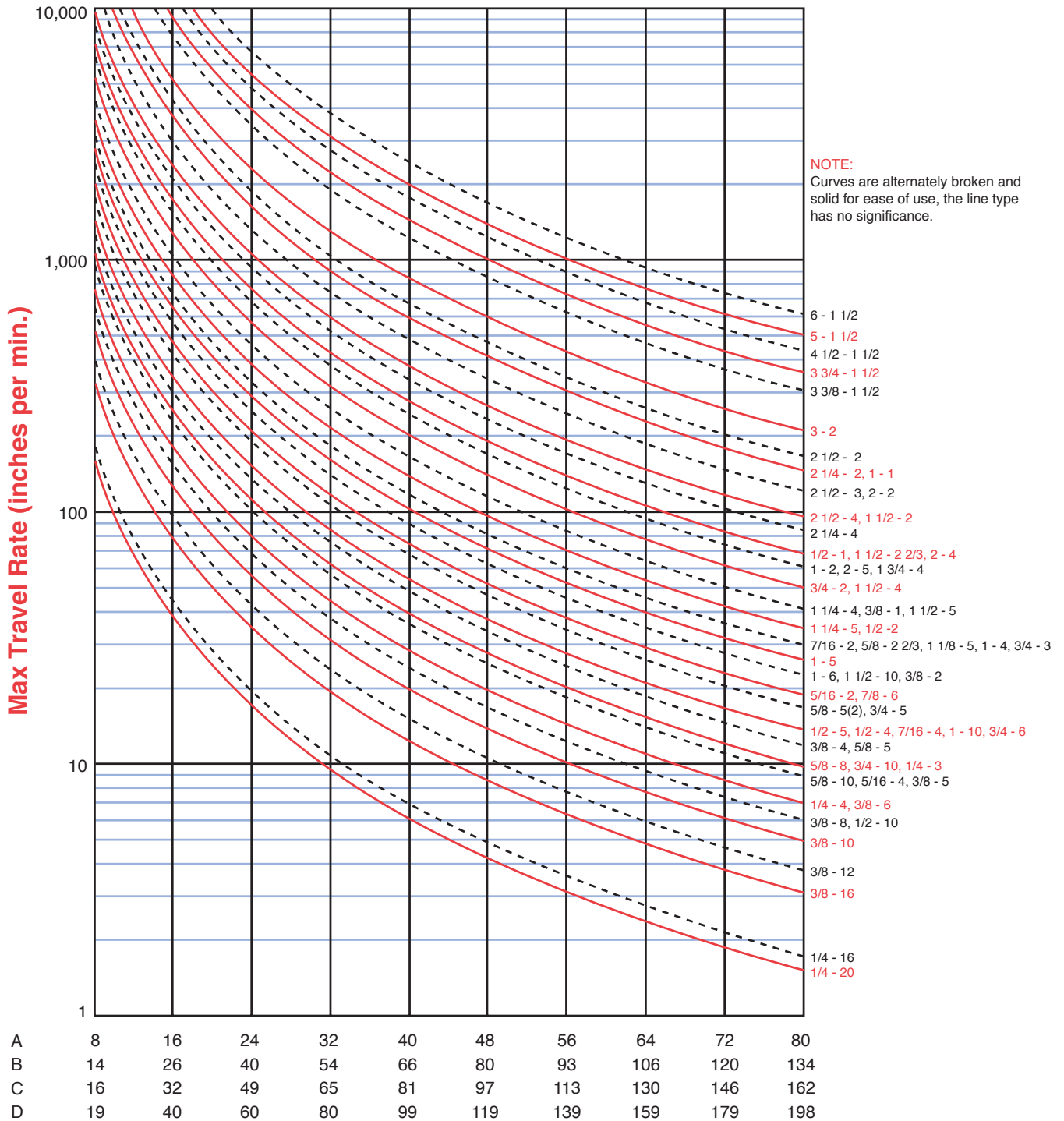
105 - RA/EK/EN/45.98/30105/FS

NOTE: The nut will be installed with the flange facing towards the first specified end. In this example, the EK end.



NOTE: Acme Screws are limited by both Maximum Static Load and Slenderness Ratio

See Page 6 for Reference Description on "A-B-C-D" end fixity.



Maximum Length Between Bearings (in)

NOTE: Maximum Speed is limited to 80% of the calculated critical speed

See Page 6 for Reference Description on "A-B-C-D" end fixity.

Nook Industries expertly manufactures precision acme screws through thread rolling, thread milling, or thread grinding processes. Each process produces unique

qualities in precision screws. Nook acme screw products feature centralizing thread forms for smooth, no-wedging performance.



ROLLED ACME SCREWS

Nook rolled thread acme screws offer the largest selection of size and pitch choices in the industry. Rolled thread screws are cost effective and are stocked for quick delivery.

	THREAD CLASS	LEAD ACCURACY	SCREW DIAMETERS	SCREW LENGTHS
ALLOY	Centralizing 2C or Stub	± .0003"/" up to 2-1/2" diameter	1/4" to 6"	limited only by material availability
STAINLESS	Centralizing 2C or Stub	± .0003"/" up to 1-1/2" diameter	1/4" to 1-1/2"	limited only by material availability



MILLED ACME SCREWS

Milled thread screws allow more variety in journal machining, particularly where a design requires the journal O.D. to be larger than the screw major diameter.

THREAD CLASS	LEAD ACCURACY	SCREW DIAMETERS	SCREW LENGTHS
Centralizing 2C or 3C	± .002"/ft.	1/2" to 3" (Single Starts)	up to 96"
General Purpose 2G or 3G			



GROUND ACME SCREWS

Ground thread screws offer higher lead accuracy performance for applications where positioning tolerances are extremely critical.

THREAD CLASS	LEAD ACCURACY	SCREW DIAMETERS	THREAD LENGTH
Centralizing 3C or 4C	± .0005"/ft.	5/8" to 3"	up to 69"
General Purpose 3G or 4G			

ACME NUT AND SCREW MATERIALS

Materials used in Nook acme nuts have been selected for low friction, minimum wear, long life, and clean operation.

Nut specifications can be found in the Quick References on pages 39-40 and 77-78. Flange and nut dimensions are listed with the appropriate screw data on pages 18-38 and 50-76.



BRONZ/AC™ ACME & ISO NUT

Special high tensile bronze is selected for our smooth running, anti-wedging BRONZ/AC™ nuts.

BRONZ/AC™ BRONZE NUT	
MATERIAL	NOOK BRONZE
TENSILE YIELD	50,000 psi
TENSILE ULTIMATE	65,000 psi
HARDNESS	RB75
DYNAMIC CO-EFFICIENT OF FRICTION	0.125 with NOOK Lubricant



PLAST/AC™ ACME, ISO TRAPEZOIDAL AND SPEEDY™ NUT

The high strength and inherent lubricity of PLAST/AC™ Acme, ISO Trapezoidal and Speedy™ material can result in product life that can equal or exceed conventional nut materials.

ACME & ISO PLASTIC NUT SPECIFICATIONS	
TENSILE STRENGTH @ 70°F	8,000 psi
COMPRESSIVE STRENGTH @ 70°F	16,000 psi
PV LIMIT @ ft-lbs./in ² -min	10,000
CO-EFFICIENT OF FRICTION	0.10
SPEEDY™ PLASTIC NUT SPECIFICATIONS	
TENSILE STRENGTH @ 70°F	9,500 psi
COMPRESSIVE STRENGTH @ 70°F	15,000 psi
PV LIMIT @ ft-lbs./in ² -min	2,700
CO-EFFICIENT OF FRICTION	0.17



ACME, ISO & SPEEDY™ SCREW SPECIFICATIONS	ACME & ISO ALLOY	STAINLESS STEEL	SPEEDY™ ALLOY
MATERIAL	4140 Series	300 Series	420 Series
MINIMUM HARDNESS	200 Brinell	170 Brinell	240 Brinell
TENSILE ULTIMATE STRENGTH	95,000 psi	85,000 psi	100,000 psi
FINISH	Black Oxide	Natural	Natural

POWERAC™ FLANGES FOR BRONZ/AC™ & PLAST/AC™ NUTS

Made of black oxidized carbon steel. See page 5 for Mounting and Pinning Acme Nut flange installation instructions.

Prolong Acme Screw Assembly Reliability and Life

Proper lubrication is the key to continued performance and reliability of acme screw assemblies.

Use E-100 spray and PAG-1 grease lubricants to maximize life of your acme screw assembly.

LUBRICATION FOR PRECISION LEAD SCREW ASSEMBLIES



PAG-1 and E-100 LUBRICANT BENEFITS

- Shear Stability
- High Temperature Resistant
- Corrosion Protection
- Separation Resistant
- Extreme Pressure Properties
- Shelf Stable
- Water Resistant

PAG-1 and E-100 SPECIFICATIONS		
NLGI GRADE NUMBER	2	
PENETRATION (worked)	285	
DROPPING POINT	550°F	
GELLING AGENT	Synthetic	
OIL VISCOSITY	cst @ 40°C	96
	cst @ 100°C	11.3
TEMPERATURE RANGE	15° F TO 400° F	

PAG-1 GREASE

1 lb. Can or One-time use packets.

PAG-1 GREASE	
PART NAME	PAG-1
NET CONTENTS PER UNIT	1 lb.
PART # NLU-1001	1 CAN weight of 1 lbs.
PART # NLU-2001	1 CASE with 12 cans total weight of 13 lbs.
PART NAME	PAG-45
NET CONTENTS PER UNIT	.45 oz.
PART # NLU-2000	1 CASE with 50 packets weight of 1 lb. 6.5.oz.

E-100 SPRAY 12 oz. Spray Can

E-100 SPRAY CAN	
PART NAME	E-100
NET CONTENTS PER UNIT	12 oz.
PART # NLU-1002	1 CAN weight of 1 lb.
PART # NLU-2002	1 CASE with 12 cans total weight of 15 lbs.

105 – RA / EK / 4N / 41.87 / 20105 / FS

ACME SCREW

Thread Form Codes

025 = 1/4"-3	044 = 7/16"-4	070 = 3/4"-10	150 = 1-1/2"-10
024 = 1/4"-4	051 = 1/2"-1	086 = 7/8"-6	174 = 1-3/4"-4
026 = 1/4"-16	052 = 1/2"-2	111 = 1"-1	202 = 2"-2
020 = 1/4"-20	054 = 1/2"-4	112 = 1"-2	204 = 2"-4
022 = 5/16"-2	055 = 1/2"-5	104 = 1"-4	205 = 2"-5
028 = 5/16"-4	050 = 1/2"-10	105 = 1"-5	222 = 2-1/4"-2
031 = 3/8"-1	063 = 5/8"-2-2/3	106 = 1"-6	224 = 2-1/4"-4
037 = 3/8"-2	065 = 5/8"-5	110 = 1"-10	252 = 2-1/2"-2
034 = 3/8"-4	652 = 5/8"-5(2)	115 = 1-1/8"-5	253 = 2-1/2"-3
035 = 3/8"-5	068 = 5/8"-8	124 = 1-1/4"-4	254 = 2-1/2"-4
036 = 3/8"-6	060 = 5/8"-10	125 = 1-1/4"-5	302 = 3"-2
038 = 3/8"-8	072 = 3/4"-2	152 = 1-1/2"-2	332 = 3-3/8"-1-1/2
030 = 3/8"-10	073 = 3/4"-3	153 = 1-1/2"-2-2/3	372 = 3-3/4"-1-1/2
032 = 3/8"-12	075 = 3/4"-5	154 = 1-1/2"-4	452 = 4-1/2"-1-1/2
033 = 3/8"-16	076 = 3/4"-6	155 = 1-1/2"-5	552 = 5"-1-1/2
042 = 7/16"-2			602 = 6"-1-1/2

MATERIAL

RA

R = Right Hand Thread
L = Left Hand Thread

A = Alloy Steel, Rolled
B = Alloy Steel, Milled
C = Alloy Steel, Ground
S = Stainless Steel, Rolled
T = Stainless Steel, Milled
U = Stainless Steel, Ground

NOTE:

Not all threads/materials are available for all sizes.

FIRST END CONFIGURATION

EZZE-MOUNT™ / End Machining

(see page 214 & 212)

1 = Type 1 3 = Type 3
2 = Type 2 4 = Type 4

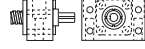
EK

EK = Universal Double Bearing Support, with Keyway

Shaft Extension

(see page 212)

B = Universal Double Bearing Support End Cap Facing Screw Thread



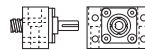
C = Universal Single Bearing Support



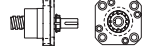
D = Flanged Single Bearing Support Flange Facing Screw Thread



E = Universal Double Bearing Support End Cap Facing Away From Screw Thread



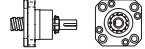
F = Flanged Double Bearing Support Flange Facing Screw Thread



G = Flanged Single Bearing Support Flange Facing Away From Screw Thread



H = Flanged Double Bearing Support Flange Facing Away From Screw Thread



U_ = Universal Double Bearing Support with Motor Mount (see page 217)



Y_ = Flanged Double Bearing Support with Motor Mount (see page 218)



00 = No End Machining (Screw will be cut to desired length).

XX = Custom Machining (Print or specified data must be provided).

K = Shaft Extension with Keyway

L = Shaft Extension without Keyway

Q = HandWheel

N = No Shaft Extension

NOTE: Both Ends must be specified.

Single Bearing Supports are used in conjunction with Type 1N end machining.

Double Bearing Supports are used in conjunction with Type 3K, 3L, or 3N end machining.

SECOND END CONFIGURATION

Refer to the First End Configuration.

NOTE: Both Ends must be specified.

OVER - ALL - LENGTH (OAL)

Length in inches, 2 place decimal.

ACME NUT

Nut will be installed with flange or threaded end toward first end designation. 00000 = No Nut

MODIFIER LIST

F Optional

F = Round Flange

S or M Required

S = Standard, no additional description required

M = Modified, additional description required



These definitions/descriptions are for the Product Specifications listed on the acme screw pages. Additional technical information on the following pages is designed to help in selecting an acme

screw and nut that is best for your application. For additional assistance please contact our Application Engineers at 800-321-7800.

INCH ACME SCREW AND NUT TECHNICAL DATA

1/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in

Lead Accuracy Measured in inch/inch or µm/25mm. See page 12 for additional screw lead accuracy specifications.

Load Capacity Measured in lbs. or N, this is the dynamic and static load rating of the nut.

Nut Materials See page 13 for additional specifications for BRONZ/AC and PLAST/AC nuts.

Lead The distance the nut advances in one revolution (lead = pitch x number of starts).

Pitch The distance along the screw axis from a point on one thread to a corresponding point on the adjacent thread.

Starts The integral number of helical thread elements on the screw shaft.

Lash Maximum axial free travel of the nut relative to the screw when new.

Root Diameter The diameter of the screw at the bottom of the thread groove.

Thread Code Used to build the "Reference Number". See page 15.

Form This describes the accuracy and geometry of the screw and nut.

Standard Screw Threads, Lengths and Materials All screws are available in sizes that have a right hand thread and many sizes that have a left hand thread.

Standard cut lengths are 36", 72", 144" and 240" (depending on screw size), custom cut screws up to 240" (depending on screw size) in length are available. Custom length screws over 144" can be manufactured, based on material availability. See the Reference Number Configurator on page 15 for additional explanation on specifying a custom length screw.

Standard length part number product or unmachined cut to length material may have approximately one inch of lead in taper on one or both ends.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	312	1.000
PLASTIC NUT	156	156

PRODUCT SPECIFICATIONS		SC		
Lead		.333	.250	
Pitch		.083	.062	
Starts		4	4	
Threads Per Inch		12	16	
Lash (Maximum Axial)		.005	.007	
"A" - Root Diameter (min.)		.192	.162	
Weight (lbs./ft.)		.13	.13	
Thread Code		025	024	
Form		Stub	2C	
36" Standard Length Part No. *	RH	4140	11025	—
		Stainless	91025	910
72" Standard Length Part No. *	LH	4140	—	—
		Stainless	—	—
72" Standard Length Part No. *	RH	4140	12025	—
		Stainless	92025	920
72" Standard Length Part No. *	LH	4140	—	—
		Stainless	—	—

* Custom Lengths Available - See Reference Number Configurator

Bronze Nut Material See page 13 for additional specifications.

Efficiency The ratio of work output to work input. These are calculated as lubricated efficiencies.

Torque to Raise A linearly scalable value measured in in.-lb./lb. or N•m/kN. This is the torque required to keep one pound or one N of load in motion.

Plastic Nut Material See page 13 for additional specifications.

Flange Made of steel and black oxidized. These flanges are manufactured to be pinned to the nut.

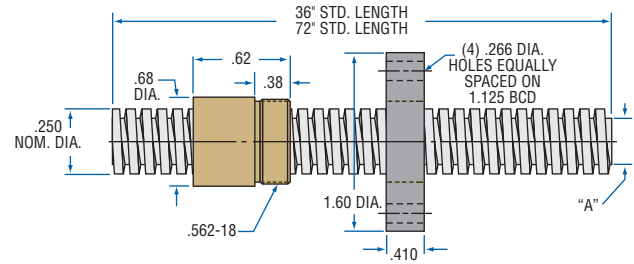
BRONZ/AC BRONZE NUT			
Efficiency		73%	
Torque to Raise 1 lb. (in.-lb.)		.073	
Weight (lbs.)		.13	
Part No.	RH	20025	
	LH	—	
PLAST/AC PLASTIC NUT			
Efficiency		82%	
Torque to Raise 1 lb. (in.-lb.)		.065	
Weight (lbs.)		.06	
Part No.	RH	30025	
	LH	—	
FLANGE - STEEL			
Weight (lbs.)		.23	
Part No.		70160	



1/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	312	1,000
PLASTIC NUT	156	156



INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE				
		1/4"-3	1/4"-4	1/4"-16	1/4"-20	
Lead		.333	.250	.062	.050	
Pitch		.083	.062	.062	.050	
Starts		4	4	1	1	
Threads Per Inch		12	16	16	20	
Lash (Maximum Axial)		.005	.007	.005	.006	
"A" – Root Diameter (min.)		.192	.162	.162	.175	
Weight (lbs./ft.)		.13	.13	.13	.13	
Thread Code		025	024	026	020	
Form		Stub	2C	2C	2C	
36" Standard Length Part No. *	RH	4140	11025	—	11026	—
		Stainless	91025	91024	91026	91020
	LH	4140	—	—	51026	—
		Stainless	—	—	—	—
72" Standard Length Part No. *	RH	4140	12025	—	12026	—
		Stainless	92025	92024	92026	92020
	LH	4140	—	—	52026	—
		Stainless	—	—	—	—

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		1/4"-3	1/4"-4	1/4"-16	1/4"-20
Efficiency		73%	71%	39%	36%
Torque to Raise 1 lb. (in.-lb.)		.073	.056	.026	.022
Weight (lbs.)		.13	.13	.13	.13
Part No.	RH	20025	20024	20026	20020
	LH	—	—	80026	—

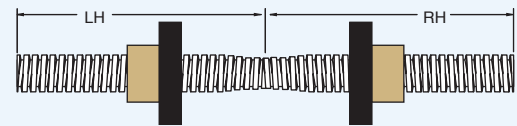
PLAST/AC PLASTIC NUT		1/4"-3	1/4"-4	1/4"-16	1/4"-20
Efficiency		79%	75%	46%	40%
Torque to Raise 1 lb. (in.-lb.)		.067	.053	.021	.020
Weight (lbs.)		.06	.06	.06	.06
Part No.	RH	30025	30024	30026	30020
	LH	—	—	40026	—

FLANGE - STEEL		1/4"-3	1/4"-4	1/4"-16	1/4"-20
Weight (lbs.)		.23	.23	.23	.23
Part No.		70160	70160	70160	70160

* Lead accuracy for 3/8" - 1" is equal to 0.0006 in/in

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: 1/4"-16
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz. Acme Screw Spray Lubricant

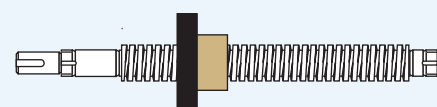


PAG-1 1 lb. Acme Screw Grease

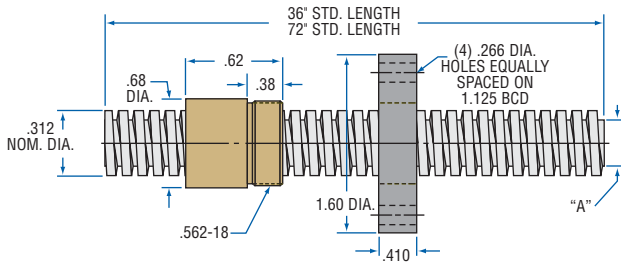
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.



5/16" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	510	1,625
PLASTIC NUT	205	205

PRODUCT SPECIFICATIONS		SCREW SIZE	
		5/16"-2	5/16"-4
Lead		.500	.250
Pitch		.125	.125
Starts		4	2
Threads Per Inch		8	8
Lash (Maximum Axial)		.008	.008
"A" – Root Diameter (min.)		.216	.216
Weight (lbs./ft.)		.18	.18
Thread Code		022	028
Form		Stub	Stub
36" Standard Length Part No. *	RH	4140	—
		Stainless	91022
	LH	4140	—
		Stainless	—
72" Standard Length Part No. *	RH	4140	—
		Stainless	92022
	LH	4140	—
		Stainless	—

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT	5/16"-2	5/16"-4
Efficiency	—	67%
Torque to Raise 1 lb. (in.-lb.)	—	.059
Weight (lbs.)	—	.05
Part No.	RH	20028
	LH	—

PLAST/AC PLASTIC NUT	5/16"-2	5/16"-4
Efficiency	81%	73%
Torque to Raise 1 lb. (in.-lb.)	.099	.054
Weight (lbs.)	.01	.01
Part No.	RH	30022
	LH	—

FLANGE - STEEL	5/16"-2	5/16"-4
Weight (lbs.)	.23	.23
Part No.	70160	70160

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz. Acme Screw Spray Lubricant

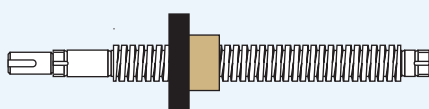


PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.

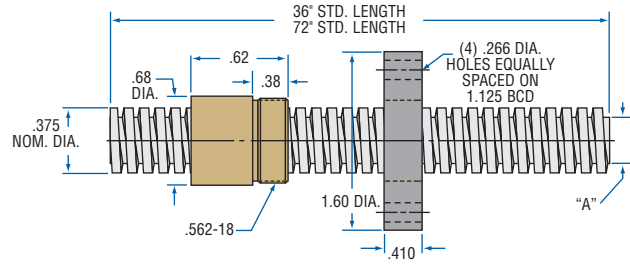


See page 212 for complete product details.

INCH ACME SCREW AND NUT TECHNICAL DATA

3/8" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.*



INCH ACME SCREW AND NUT TECHNICAL DATA

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	703	2,250
PLASTIC NUT	351	351

PRODUCT SPECIFICATIONS		SCREW SIZE				
		3/8"-1	3/8"-2	3/8"-4	3/8"-5	
Lead		1.00	.500	.250	.200	
Pitch		.200	.125	.125	.100	
Starts		5	4	2	2	
Threads Per Inch		5	8	8	10	
Lash (Maximum Axial)		.010	.009	.009	.008	
"A" – Root Diameter (min.)		.238	.278	.278	.282	
Weight (lbs./ft.)		.29	.29	.29	.29	
Thread Code		031	037	034	035	
Form		Fast	Stub	Stub	Stub	
36" Standard Length Part No.*	RH	4140	—	11037	11034	11035
		Stainless	91031	91037	91034	91035
	LH	4140	—	—	—	—
		Stainless	—	—	—	—
72" Standard Length Part No.*	RH	4140	—	12037	12034	12035
		Stainless	92031	92037	92034	92035
	LH	4140	—	—	—	—
		Stainless	—	—	—	—

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		3/8"-1	3/8"-2	3/8"-4	3/8"-5
Efficiency		—	74%	63%	59%
Torque to Raise 1 lb. (in.-lb.)		—	.107	.063	.054
Weight (lbs.)		—	.05	.05	.05
Part No.	RH	—	20037	20034	20035
	LH	—	—	—	—

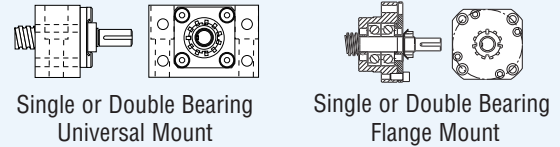
PLAST/AC PLASTIC NUT		3/8"-1	3/8"-2	3/8"-4	3/8"-5
Efficiency		80%	79%	69%	64%
Torque to Raise 1 lb. (in.-lb.)		.199	.101	.057	.050
Weight (lbs.)		.01	.01	.01	.01
Part No.	RH	30031	30037	30034	30035
	LH	—	—	—	—

FLANGE - STEEL		3/8"-1	3/8"-2	3/8"-4	3/8"-5
Weight (lbs.)		.23	.23	.23	.23
Part No.		70160	70160	70160	70160

* Lead accuracy for 3/8" - 1" is equal to 0.0006 in/in

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



EZZE-MOUNT™ available for: 3/8"-2, 3/8"-4, and 3/8"-5
See page 214 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz. Acme Screw Spray Lubricant

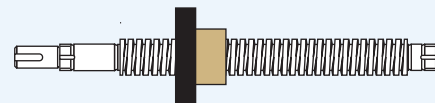


PAG-1 1 lb. Acme Screw Grease

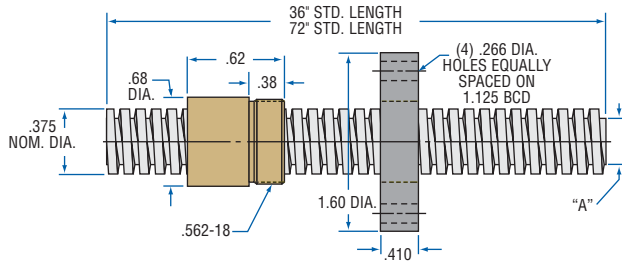
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.



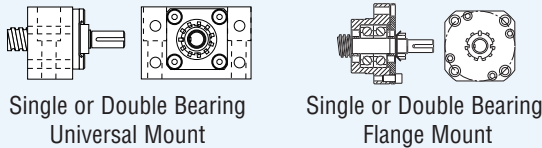
3/8" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	703	2,250
PLASTIC NUT	351	351

EZZE-MOUNT™ END BEARING SUPPORTS

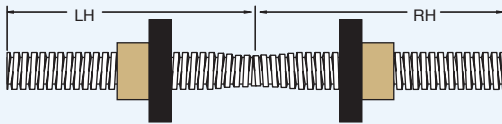
A convenient solution for mounting acme screw assemblies.



EZZE-MOUNT™ available for: These 3/8" screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



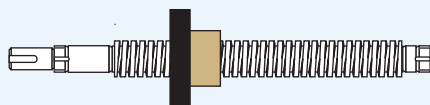
Twin-Lead Screw available for: 3/8"-6 and 3/8"-12
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE					
		3/8"-6	3/8"-8	3/8"-10	3/8"-12	3/8"-16	
Lead		.166	.125	.100	.083	.062	
Pitch		.083	.125	.100	.083	.062	
Starts		2	1	1	1	1	
Threads Per Inch		12	8	10	12	16	
Lash (Maximum Axial)		.006	.009	.008	.006	.007	
"A" – Root Diameter (min.)		.263	.278	.282	.263	.286	
Weight (lbs./ft.)		.29	.29	.29	.29	.29	
Thread Code		036	038	030	032	033	
Form		2C	Stub	Stub	2C	Stub	
36" Standard Length Part No. *	RH	4140	11036	11038	11030	11032	11033
	Stainless	91036	91038	91030	91032	91033	
72" Standard Length Part No. *	LH	4140	51036	—	—	51032	—
	Stainless	—	—	—	94032	—	
36" Standard Length Part No. *	RH	4140	12036	12038	12030	12032	12033
	Stainless	92036	92038	92030	92032	92033	
72" Standard Length Part No. *	LH	4140	52036	—	—	52032	—
	Stainless	—	—	—	95032	—	

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		3/8"-6	3/8"-8	3/8"-10	3/8"-12	3/8"-16
Efficiency		54%	48%	42%	37%	32%
Torque to Raise 1 lb. (in.-lb.)		.049	.042	.038	.036	.031
Weight (lbs.)		.05	.05	.05	.05	.05
Part No.	RH	20036	20038	20030	20032	20033
	LH	80036	—	—	80032	—

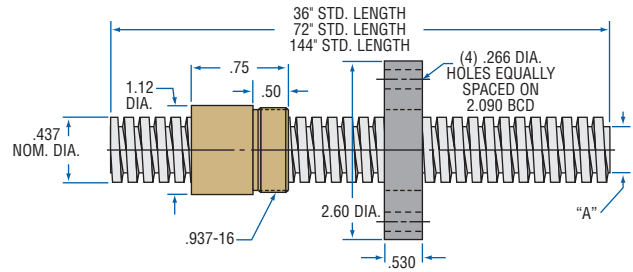
PLAST/AC PLASTIC NUT		3/8"-6	3/8"-8	3/8"-10	3/8"-12	3/8"-16
Efficiency		60%	54%	48%	43%	35%
Torque to Raise 1 lb. (in.-lb.)		.044	.037	.033	.031	.028
Weight (lbs.)		.01	.01	.01	.01	.01
Part No.	RH	30036	30038	30030	30032	30033
	LH	40036	—	—	40032	—

FLANGE - STEEL		3/8"-6	3/8"-8	3/8"-10	3/8"-12	3/8"-16
Weight (lbs.)		.23	.23	.23	.23	.23
Part No.		70160	70160	70160	70160	70160

INCH ACME SCREW AND NUT TECHNICAL DATA

7/16" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.



LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	975	3,000
PLASTIC NUT	450	450

INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE	
		7/16"-2	7/16"-4
Lead		.500	.250
Pitch		.125	.125
Starts		4	2
Threads Per Inch		8	8
Lash (Maximum Axial)		.009	.009
"A" – Root Diameter (min.)		.340	.340
Weight (lbs./ft.)		.40	.40
Thread Code		042	044
Form		Stub	Stub
36" Standard Length Part No. *	RH	4140	11042
		Stainless	91042
	LH	4140	—
		Stainless	—
72" Standard Length Part No. *	RH	4140	12042
		Stainless	92042
	LH	4140	—
		Stainless	—
144" Standard Length Part No. *	RH	4140	13042
		Stainless	93042
	LH	4140	—
		Stainless	—

* Custom Lengths Available - See page 15 to specify length

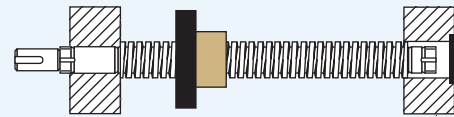
BRONZ/AC BRONZE NUT		7/16"-2	7/16"-4
Efficiency		—	60%
Torque to Raise 1 lb. (in.-lb.)		—	.067
Weight (lbs.)		—	.19
Part No.	RH	—	20044
	LH	—	—

PLAST/AC PLASTIC NUT		7/16"-2	7/16"-4
Efficiency		77%	66%
Torque to Raise 1 lb. (in.-lb.)		.103	.060
Weight (lbs.)		.03	.03
Part No.	RH	30042	30044
	LH	—	—

FLANGE - STEEL		7/16"-2	7/16"-4
Weight (lbs.)		.77	.77
Part No.		70260	70260

ACME SCREW ASSEMBLIES

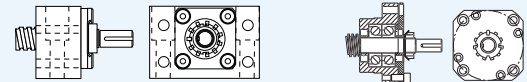
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



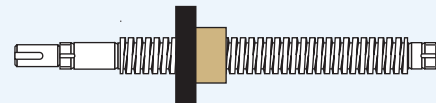
Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: All 7/16" Screws
See page 214 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

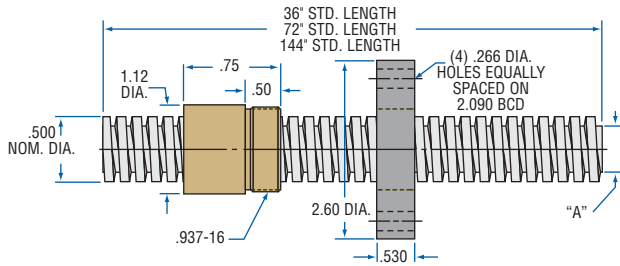


E-100 12 Oz. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.



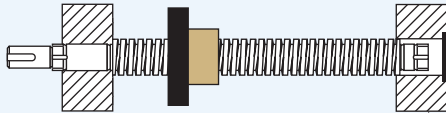
1/2" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	1,250	4,000
PLASTIC NUT	625	625

ACME SCREW ASSEMBLIES

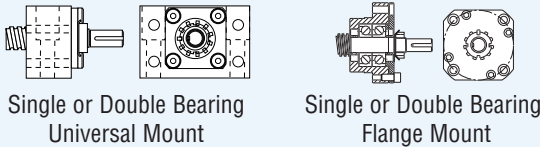
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

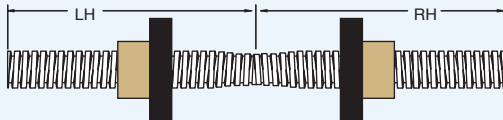
A convenient solution for mounting acme screw assemblies.



EZZE-MOUNT™ available for: All 1/2" Screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: 1/2"-10
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant



PAG-1 1 lb.
Acme Screw
Grease

See page 14 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE					
		1/2"-1	1/2"-2	1/2"-4	1/2"-5	1/2"-10	
Lead		1.00	.500	.250	.200	.100	
Pitch		.125	.100	.125	.100	.100	
Starts		8	5	2	2	1	
Threads Per Inch		8	10	8	10	10	
Lash (Maximum Axial)		.007	.006	.007	.009	.007	
"A" – Root Diameter (min.)		.392	.406	.332	.391	.359	
Weight (lbs./ft.)		.53	.53	.53	.53	.53	
Thread Code		051	052	054	055	050	
Form		Stub	Stub	2C	Stub	2C	
36" Standard Length Part No. *	RH	4140	—	11052	11054	11055	11050
	Stainless	91051	91052	91054	91055	91050	
72" Standard Length Part No. *	RH	4140	—	12052	12054	12055	12050
	Stainless	92051	92052	92054	92055	92050	
144" Standard Length Part No. *	RH	4140	—	13052	13054	13055	13050
	Stainless	93051	93052	93054	93055	93050	
72" Standard Length Part No. *	LH	4140	—	—	—	—	52050
	Stainless	—	—	—	—	—	95050
144" Standard Length Part No. *	LH	4140	—	—	—	—	53050
	Stainless	—	—	—	—	—	96050

* Custom Lengths Available - See Page 15 to specify length

BRONZ/AC BRONZE NUT	1/2"-1	1/2"-2	1/2"-4	1/2"-5	1/2"-10	
Efficiency	—	69%	57%	52%	34%	
Torque to Raise 1 lb. (in.-lb.)	—	.115	.070	.061	.047	
Weight (lbs.)	—	.18	.19	.18	.18	
Part No.	RH	—	20052	20054	20055	20050
	LH	—	—	—	—	80050

PLAST/AC PLASTIC NUT	1/2"-1	1/2"-2	1/2"-4	1/2"-5	1/2"-10	
Efficiency	75%	75%	63%	57%	40%	
Torque to Raise 1 lb. (in.-lb.)	.106	.107	.064	.056	.039	
Weight (lbs.)	.03	.03	.03	.03	.03	
Part No.	RH	30051	30052	30054	30055	30050
	LH	—	—	—	—	40050

FLANGE - STEEL	1/2"-1	1/2"-2	1/2"-4	1/2"-5	1/2"-10
Weight (lbs.)	.77	.77	.77	.77	.77
Part No.	70260	70260	70260	70260	70260

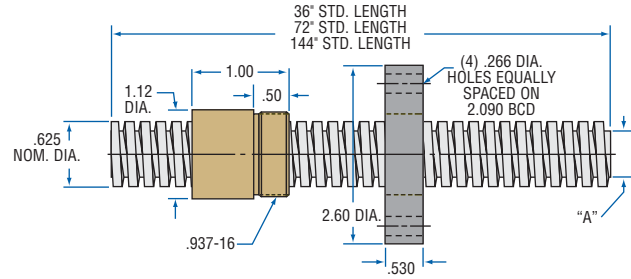
INCH ACME SCREW AND NUT TECHNICAL DATA



5/8" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	1,953	6,250
PLASTIC NUT	976	976



INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE					
		5/8"-2 ² / ₃	5/8"-5	5/8"-5(2)	5/8"-8	5/8"-10	
Lead		.375	.200	.200	.125	.100	
Pitch		.125	.200	.100	.125	.100	
Starts		3	1	2	1	1	
Threads Per Inch		8	5	10	8	10	
Lash (Maximum Axial)		.010	.009	.009	.008	.009	
"A" – Root Diameter (min.)		.457	.377	.484	.457	.516	
Weight (lbs./ft.)		.84	.84	.85	.84	.87	
Thread Code		063	065	652	068	060	
Form		2C	2C	2C	2C	Stub	
36" Standard Length Part No. *	RH	4140	11063	11065	11652	11068	11060
	Stainless	—	—	—	91652	91068	91060
72" Standard Length Part No. *	LH	4140	51063	51065	—	51068	—
	Stainless	—	—	—	—	94068	—
144" Standard Length Part No. *	RH	4140	12063	12065	12652	12068	12060
	Stainless	—	—	—	92652	92068	92060
36" Standard Length Part No. *	LH	4140	52063	52065	—	52068	—
	Stainless	—	—	—	—	95068	—
72" Standard Length Part No. *	RH	4140	13063	13065	13652	13068	13060
	Stainless	—	—	—	93652	93068	93060
144" Standard Length Part No. *	LH	4140	53063	53065	—	53068	—
	Stainless	—	—	—	—	96068	—

* Custom Lengths Available - See Page 15 to specify length

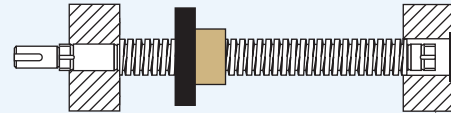
BRONZ/AC BRONZE NUT		5/8"-2 ² / ₃	5/8"-5	5/8"-5(2)	5/8"-8	5/8"-10
Efficiency		60%	44%	46%	34%	30%
Torque to Raise 1 lb. (in.-lb.)		.100	.072	.069	.058	.053
Weight (lbs.)		.22	.23	.22	.22	.21
Part No.	RH	20063	20065	20652	20068	20060
	LH	80063	80065	—	80068	—

PLAST/AC PLASTIC NUT		5/8"-2 ² / ₃	5/8"-5	5/8"-5(2)	5/8"-8	5/8"-10
Efficiency		66%	53%	51%	40%	35%
Torque to Raise 1 lb. (in.-lb.)		.091	.060	.062	.049	.046
Weight (lbs.)		.03	.03	.03	.03	.03
Part No.	RH	30063	30065	30652	30068	30060
	LH	40063	40065	—	40068	—

FLANGE - STEEL		5/8"-2 ² / ₃	5/8"-5	5/8"-5(2)	5/8"-8	5/8"-10
Weight (lbs.)		.77	.77	.77	.77	.77
Part No.		70260	70260	70260	70260	70260

ACME SCREW ASSEMBLIES

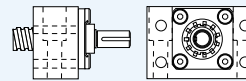
These assemblies are shipped with screw, nut, flange, and bearing supports.



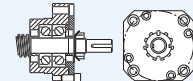
See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing Universal Mount

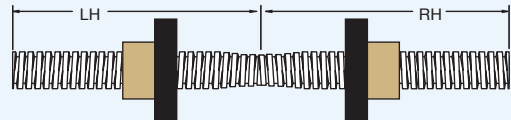


Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: All 5/8" Screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for:
5/8"-2 2/3, 5/8"-5 and 5/8"-8

See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

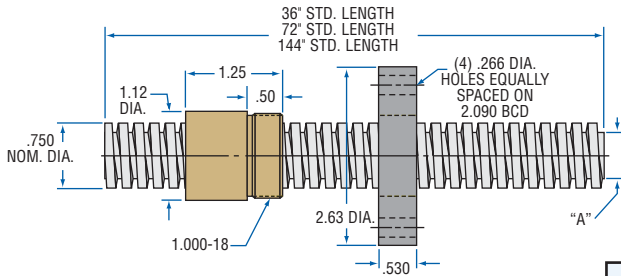


E-100 12 Oz. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.



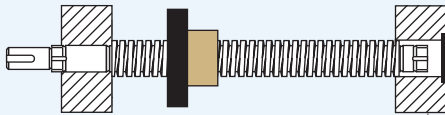
3/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	2,812	9,000
PLASTIC NUT	1,406	1,406

ACME SCREW ASSEMBLIES

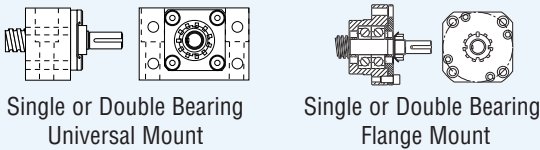
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

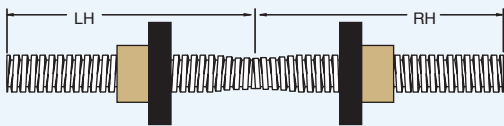
A convenient solution for mounting acme screw assemblies.



EZZE-MOUNT™ available for: All 3/4" Screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: 3/4"-3, 3/4"-5, 3/4"-6, and 3/4"-10 See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant



PAG-1 1 lb.
Acme Screw
Grease

See page 14 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE					
		3/4"-2	3/4"-3	3/4"-5	3/4"-6	3/4"-10	
Lead		.500	.333	.200	.166	.100	
Pitch		.125	.167	.200	.166	.100	
Starts		4	2	1	1	1	
Threads Per Inch		8	6	5	6	10	
Lash (Maximum Axial)		.010	.009	.009	.008	.007	
"A" – Root Diameter (min.)		.581	.537	.502	.537	.608	
Weight (lbs./ft.)		1.18	1.17	1.23	1.17	1.29	
Thread Code		072	073	075	076	070	
Form		2C	2C	2C	2C	2C	
36" Standard Length Part No. *	RH	4140	11072**	11073	11075	11076	11070
		Stainless	—	—	91075	91076	91070
72" Standard Length Part No. *	LH	4140	—	51073	51075	51076	51070
		Stainless	—	—	94075	94076	94070
144" Standard Length Part No. *	RH	4140	12072**	12073	12075	12076	12070
		Stainless	—	—	92075	92076	92070
72" Standard Length Part No. *	LH	4140	—	52073	52075	52076	52070
		Stainless	—	—	95075	95076	95070
144" Standard Length Part No. *	RH	4140	13072**	13073	13075	13076	13070
		Stainless	—	—	93075	93076	93070
72" Standard Length Part No. *	LH	4140	—	53073	53075	53076	53070
		Stainless	—	—	96075	96076	96070

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		3/4"-2	3/4"-3	3/4"-5	3/4"-6	3/4"-10
Efficiency		62%	54%	40%	36%	25%
Torque to Raise 1 lb. (in.-lb.)		.129	.099	.080	.073	.064
Weight (lbs.)		.23	.23	.24	.23	.22
Part No.	RH	20072	20073	20075	20076	20070
	LH	—	80073	80075	80076	80070

PLAST/AC PLASTIC NUT		3/4"-2	3/4"-3	3/4"-5	3/4"-6	3/4"-10
Efficiency		68%	60%	48%	43%	30%
Torque to Raise 1 lb. (in.-lb.)		.118	.089	.066	.061	.052
Weight (lbs.)		.03	.03	.03	.03	.03
Part No.	RH	30072	30073	30075	30076	30070
	LH	—	40073	40075	40076	40070

FLANGE - STEEL		3/4"-2	3/4"-3	3/4"-5	3/4"-6	3/4"-10
Weight (lbs.)		.78	.78	.78	.78	.78
Standard Part No.		70262	70262	70262	70262	70262
No-Lash™ Part No.		73262	73262	73262	73262	73262

** These screws are low carbon steel



7/8" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	3,828	12,250
PLASTIC NUT	1,914	1,914

INCH ACME SCREW AND NUT TECHNICAL DATA

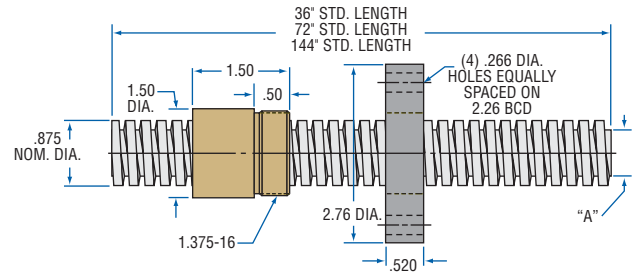
PRODUCT SPECIFICATIONS		SCREW SIZE	
		7/8"-6	
Lead		.166	
Pitch		.166	
Starts		1	
Threads Per Inch		6	
Lash (Maximum Axial)		.009	
"A" – Root Diameter (min.)		.661	
Weight (lbs./ft.)		1.65	
Thread Code		086	
Form		2C	
36" Standard Length Part No. *	RH	4140	11086
	Stainless	—	
72" Standard Length Part No. *	LH	4140	51086
	Stainless	—	
144" Standard Length Part No. *	RH	4140	12086
	Stainless	—	
36" Standard Length Part No. *	RH	4140	12086
	Stainless	—	
72" Standard Length Part No. *	LH	4140	52086
	Stainless	—	
144" Standard Length Part No. *	RH	4140	13086
	Stainless	—	
36" Standard Length Part No. *	RH	4140	13086
	Stainless	—	
72" Standard Length Part No. *	LH	4140	53086
	Stainless	—	

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		7/8"-6
Efficiency		32%
Torque to Raise 1 lb. (in.-lb.)		.083
Weight (lbs.)		.57
Part No.	RH	20086
	LH	80086

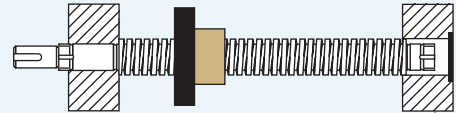
PLAST/AC PLASTIC NUT		7/8"-6
Efficiency		39%
Torque to Raise 1 lb. (in.-lb.)		.068
Weight (lbs.)		.08
Part No.	RH	30086
	LH	40086

FLANGE - STEEL		7/8"-6
Weight (lbs.)		.85
Standard Part No.		70275
No-Lash™ Part No.		73275



ACME SCREW ASSEMBLIES

These assemblies are shipped with screw, nut, flange, and bearing supports.

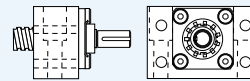


See page 41 for complete product details.

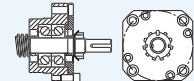
EZZE-MOUNT™

END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing Universal Mount

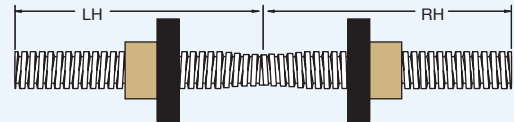


Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: All 7/8" Screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 7/8" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

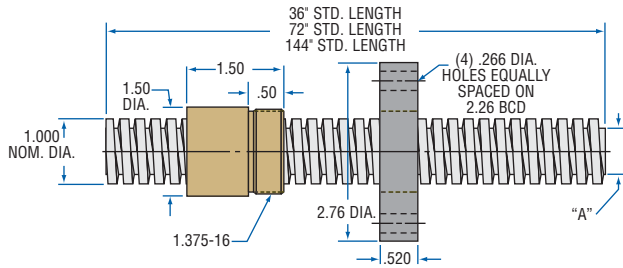


E-100 12 Oz. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.



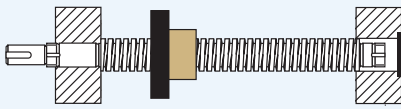
1" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	5,000	16,000
PLASTIC NUT	2,500	2,500

ACME SCREW ASSEMBLIES

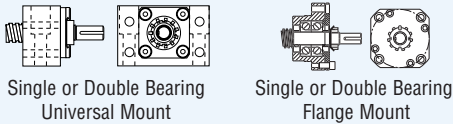
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing
Universal Mount

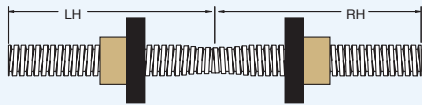
Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for:
1"-2, 1"-4, 1"-5, 1"-6 and 1"-10

See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 1" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant

PAG-1 1 lb.
Acme Screw
Grease



See page 14 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE						
		1"-1	1"-2	1"-4	1"-5	1"-6	1"-10	
Lead		1.00	.500	.250	.200	.167	.100	
Pitch		.100	.250	.250	.200	.167	.100	
Starts		10	2	1	1	1	1	
Threads Per Inch		10	4	4	5	6	10	
Lash (Maximum Axial)		.008	.010	.010	.009	.009	.008	
"A" – Root Diameter (min.)		.906	.698	.698	.750	.786	.857	
Weight (lbs./ft.)		2.38	2.22	2.22	2.16	2.16	2.10	
Thread Code		111	112	104	105	106	110	
Form		Stub	2C	2C	2C	2C	2C	
36" Standard Length Part No. *	RH	4140	11111	11112	11104	11105	11106	11110
		Stainless	—	—	91104	91105	91106	91110
	LH	4140	51111	51112	51104	51105	51106	51110
		Stainless	—	—	94104	—	94106	94110
72" Standard Length Part No. *	RH	4140	12111	12112	12104	12105	12106	12110
		Stainless	—	—	92104	92105	92106	92110
	LH	4140	52111	52112	52104	52105	52106	52110
		Stainless	—	—	95104	—	95106	95110
144" Standard Length Part No. *	RH	4140	13111	13112	13104	13105	13106	13110
		Stainless	—	—	93104	93105	93106	93110
	LH	4140	53111	53112	53104	53105	53106	53110
		Stainless	—	—	96104	—	96106	96110

* Custom Lengths Available - See page 15 to specify length

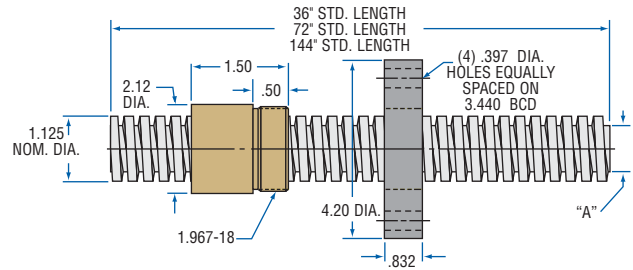
BRONZ/AC BRONZE NUT		1"-1	1"-2	1"-4	1"-5	1"-6	1"-10
Efficiency		69%	57%	38%	34%	30%	20%
Torque to Raise 1 lb. (in.-lb.)		.231	.139	.105	.094	.089	.078
Weight (lbs.)		.46	.52	.52	.50	.49	.47
Part No.	RH	20111	20112	20104	20105	20106	20110
	LH	80111	80112	80104	80105	80106	80110

PLAST/AC PLASTIC NUT		1"-1	1"-2	1"-4	1"-5	1"-6	1"-10
Efficiency		74%	63%	46%	40%	36%	24%
Torque to Raise 1 lb. (in.-lb.)		.216	.127	.086	.079	.074	.065
Weight (lbs.)		.07	.08	.08	.07	.07	.07
Part No.	RH	30111	30112	30104	30105	30106	30110
	LH	40111	40112	40104	40105	40106	40110

FLANGE - STEEL		1"-1	1"-2	1"-4	1"-5	1"-6	1"-10
Weight (lbs.)		.85	.85	.85	.85	.85	.85
Standard Part No.		70275	70275	70275	70275	70275	70275
No-Lash™ Part No.		73275	73275	73275	73275	73275	73275

1-1/8" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.



LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	6,330	20,500
PLASTIC NUT	3,165	3,165

INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE	
		1 1/8"-5	
Lead		.200	
Pitch		.200	
Starts		1	
Threads Per Inch		5	
Lash (Maximum Axial)		.010	
"A" – Root Diameter (min.)		.875	
Weight (lbs./ft.)		2.80	
Thread Code		115	
Form		2C	
36" Standard Length Part No. *	RH	4140	11115
		Stainless	—
	LH	4140	51115
		Stainless	—
72" Standard Length Part No. *	RH	4140	12115
		Stainless	—
	LH	4140	52115
		Stainless	—
144" Standard Length Part No. *	RH	4140	13115
		Stainless	—
	LH	4140	53115
		Stainless	—

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		1 1/8"-5
Efficiency		32%
Torque to Raise 1 lb. (in.-lb.)		.100
Weight (lbs.)		1.21
Part No.	RH	20115
	LH	80115

PLAST/AC PLASTIC NUT		1 1/8"-5
Efficiency		37%
Torque to Raise 1 lb. (in.-lb.)		.085
Weight (lbs.)		.18
Part No.	RH	30115
	LH	40115

FLANGE - STEEL		1 1/8"-5
Weight (lbs.)		3.19
Standard Part No.		70420
No-Lash™ Part No.		73420

ACME SCREW ASSEMBLIES

These assemblies are shipped with screw, nut, flange, and bearing supports.

See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.

EZZE-MOUNT™ available for: All 1-1/8" Screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.

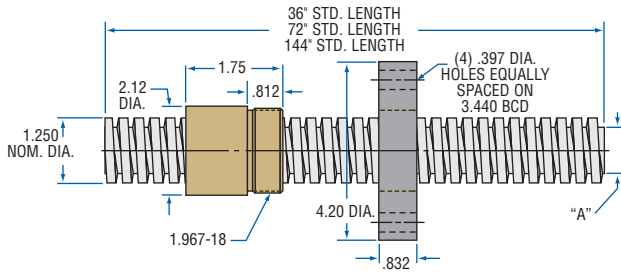
Twin-Lead Screw available for: All 1-1/8" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

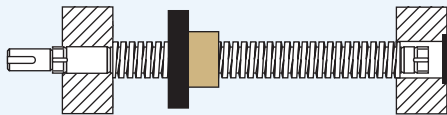
E-100 12 Oz. Acme Screw Spray Lubricant
PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.



ACME SCREW ASSEMBLIES

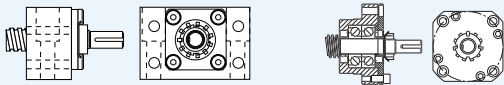
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



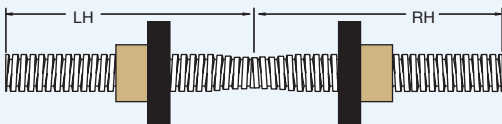
Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: All 1-1/4" Screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 1-1/4" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant



PAG-1 1 lb.
Acme Screw
Grease

See page 14 for complete product details.

1-1/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	7,812	25,000
PLASTIC NUT	3,906	3,906

PRODUCT SPECIFICATIONS	SCREW SIZE			
	1 1/4"-4	1 1/4"-5		
Lead	.250	.200		
Pitch	.250	.200		
Starts	1	1		
Threads Per Inch	4	5		
Lash (Maximum Axial)	.011	.010		
"A" – Root Diameter (min.)	.947	.999		
Weight (lbs./ft.)	3.34	3.49		
Thread Code	124	125		
Form	2C	2C		
36" Standard Length Part No.*	RH	4140	11124	11125
		Stainless	91124	91125
	LH	4140	51124	51125
		Stainless	94124	94125
72" Standard Length Part No.*	RH	4140	12124	12125
		Stainless	92124	92125
	LH	4140	52124	52125
		Stainless	95124	95125
144" Standard Length Part No.*	RH	4140	13124	13125
		Stainless	93124	93125
	LH	4140	53124	53125
		Stainless	96124	96125

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		1 1/4"-4	1 1/4"-5
Efficiency		34%	28%
Torque to Raise 1 lb. (in.-lb.)		.117	.114
Weight (lbs.)		1.32	1.29
Part No.	RH	20124	20125
	LH	80124	80125

PLAST/AC PLASTIC NUT		1 1/4"-4	1 1/4"-5
Efficiency		40%	35%
Torque to Raise 1 lb. (in.-lb.)		.099	.092
Weight (lbs.)		.19	.19
Part No.	RH	30124	30125
	LH	40124	40125

FLANGE - STEEL		1 1/4"-4	1 1/4"-5
Weight (lbs.)		3.19	3.19
Standard Part No.		70420	70420
No-Lash™ Part No.		73420	73420

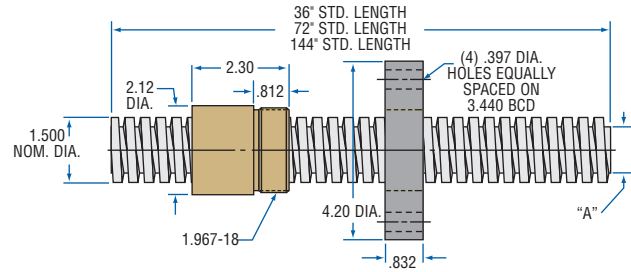
INCH ACME SCREW AND NUT TECHNICAL DATA



1-1/2" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	11,250	36,000
PLASTIC NUT	5,625	5,625



INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE					
		1 1/2"-2	1 1/2"-2 2/3	1 1/2"-4	1 1/2"-5	1 1/2"-10	
Lead		.500	.375	.250	.200	.100	
Pitch		.250	.375	.250	.200	.100	
Starts		2	1	1	1	1	
Threads Per Inch		4	2 2/3	4	5	10	
Lash (Maximum Axial)		.012	.010	.010	.010	.009	
"A" – Root Diameter (min.)		1.196	1.066	1.196	1.249	1.355	
Weight (lbs./ft.)		4.95	4.55	4.99	4.90	5.47	
Thread Code		152	153	154	155	150	
Form		2C	40°	2C	2C	2C	
36" Standard Length Part No. *	RH	4140	11152	11153	11154	11155	11150
		Stainless	—	91153	91154	91155	—
	LH	4140	51152	51153	51154	51155	51150
		Stainless	—	—	94154	94155	—
72" Standard Length Part No. *	RH	4140	12152	12153	12154	12155	12150
		Stainless	—	92153	92154	92155	—
	LH	4140	52152	52153	52154	52155	52150
		Stainless	—	—	95154	95155	—
144" Standard Length Part No. *	RH	4140	13152	13153	13154	13155	13150
		Stainless	—	93153	93154	93155	—
	LH	4140	53152	53153	53154	53155	53150
		Stainless	—	—	96154	96155	—

* Custom Lengths Available - See page 15 to specify length

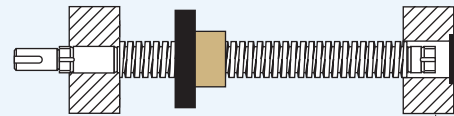
BRONZ/AC BRONZE NUT		1 1/2"-2	1 1/2"-2 2/3	1 1/2"-4	1 1/2"-5	1 1/2"-10
Efficiency		46%	40%	30%	25%	15%
Torque to Raise 1 lb. (in.-lb.)		.173	.149	.133	.127	.110
Weight (lbs.)		1.38	1.49	1.53	1.35	1.28
Part No.	RH	20152	20153	20154	20155	20150
	LH	80152	80153	80154	80155	80150

PLAST/AC PLASTIC NUT		1 1/2"-2	1 1/2"-2 2/3	1 1/2"-4	1 1/2"-5	1 1/2"-10
Efficiency		52%	46%	36%	30%	17%
Torque to Raise 1 lb. (in.-lb.)		.152	.129	.111	.105	.091
Weight (lbs.)		.20	.22	.22	.20	.19
Part No.	RH	30152	30153	30154	30155	30150
	LH	40152	40153	40154	40155	40150

FLANGE - STEEL		1 1/2"-2	1 1/2"-2 2/3	1 1/2"-4	1 1/2"-5	1 1/2"-10
Weight (lbs.)		3.19	3.19	3.19	3.19	3.19
Standard Part No.		70420	70420	70420	70420	70420
No-Lash™ Part No.		73420	73420	73420	73420	73420

ACME SCREW ASSEMBLIES

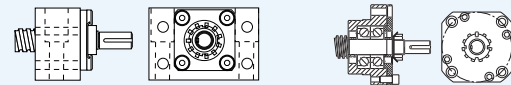
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



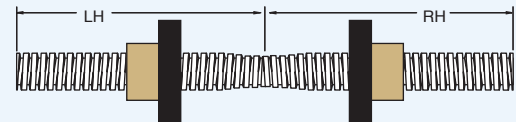
Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: All 1-1/2" Screws
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 1-1/2" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

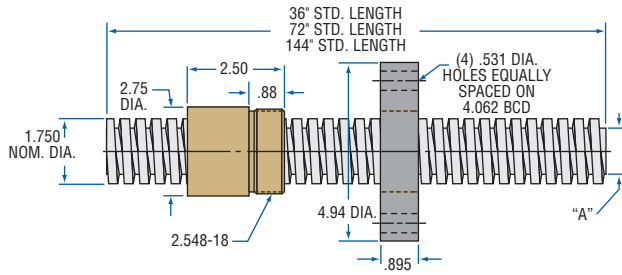


E-100 12 Oz. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.



1-3/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	15,312	49,900
PLASTIC NUT	7,656	7,656

PRODUCT SPECIFICATIONS		SCREW SIZE	
		1 3/4"-4	
Lead		.250	
Pitch		.250	
Starts		1	
Threads Per Inch		4	
Lash (Maximum Axial)		.011	
"A" – Root Diameter (min.)		1.427	
Weight (lbs./ft.)		6.97	
Thread Code		174	
Form		2C	
36" Standard Length Part No. *	RH	4140	11174
		Stainless	—
72" Standard Length Part No. *	RH	4140	12174
		Stainless	—
144" Standard Length Part No. *	RH	4140	13174
		Stainless	—
36" Standard Length Part No. *	LH	4140	51174
		Stainless	—
72" Standard Length Part No. *	LH	4140	52174
		Stainless	—
144" Standard Length Part No. *	LH	4140	53174
		Stainless	—

* Custom Lengths Available - See page 15 to specify length

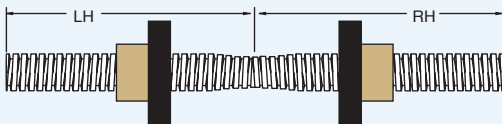
BRONZ/AC BRONZE NUT		1 3/4"-4
Efficiency		26%
Torque to Raise 1 lb. (in.-lb.)		.153
Weight (lbs.)		3.05
Part No.	RH	20174
	LH	80174

PLAST/AC PLASTIC NUT		1 3/4"-4
Efficiency		32%
Torque to Raise 1 lb. (in.-lb.)		.124
Weight (lbs.)		.44
Part No.	RH	30174
	LH	40174

FLANGE - STEEL		1 3/4"-4
Weight (lbs.)		4.73
Standard Part No.		70500
No-Lash™ Part No.		73500

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 1-3/4" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant

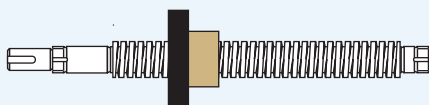


PAG-1 1 lb.
Acme Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



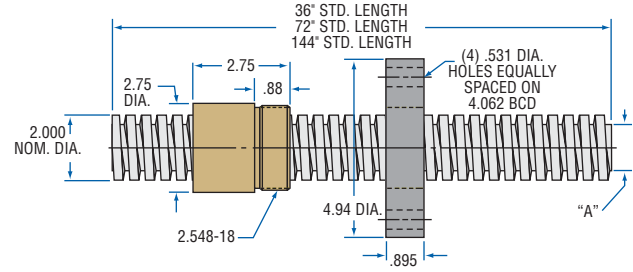
See page 212 for complete product details.

INCH ACME SCREW AND NUT TECHNICAL DATA

2" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	20,000	64,000
PLASTIC NUT	10,000	10,000



INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE			
		2"-2	2"-4	2"-5	
Lead		.500	.250	.200	
Pitch		.500	.250	.200	
Starts		1	1	1	
Threads Per Inch		2	4	5	
Lash (Maximum Axial)		.020	.012	.011	
"A" – Root Diameter (min.)		1.410	1.694	1.747	
Weight (lbs./ft.)		8.09	9.28	9.53	
Thread Code		202	204	205	
Form		40°	2C	2C	
36" Standard Length Part No. *	RH	4140	11202	11204	11205
		Stainless	—	—	—
	LH	4140	51202	51204	51205
		Stainless	—	—	—
72" Standard Length Part No. *	RH	4140	12202	12204	12205
		Stainless	—	—	—
	LH	4140	52202	52204	52205
		Stainless	—	—	—
144" Standard Length Part No. *	RH	4140	13202	13204	13205
		Stainless	—	—	—
	LH	4140	53202	53204	53205
		Stainless	—	—	—

* Custom Lengths Available - See page 15 to specify length

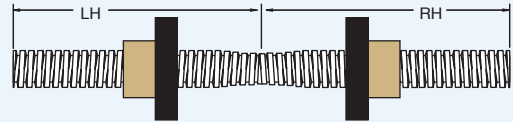
BRONZ/AC BRONZE NUT		2"-2	2"-4	2"-5
Efficiency		40%	24%	20%
Torque to Raise 1 lb. (in.-lb.)		.199	.166	.159
Weight (lbs.)		2.87	2.59	2.53
Part No.	RH	20202	20204	20205
	LH	80202	80204	80205

PLAST/AC PLASTIC NUT		2"-2	2"-4	2"-5
Efficiency		46%	29%	24%
Torque to Raise 1 lb. (in.-lb.)		.174	.137	.130
Weight (lbs.)		.42	.38	.37
Part No.	RH	30202	30204	30205
	LH	40202	40204	40205

FLANGE - STEEL		2"-2	2"-4	2"-5
Weight (lbs.)		4.73	4.73	4.73
Standard Part No.		70500	70500	70500
No-Lash™ Part No.		73500	73500	73500

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 2" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz. Acme Screw Spray Lubricant

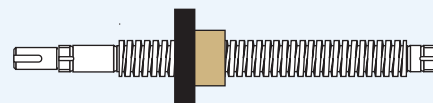


PAG-1 1 lb. Acme Screw Grease

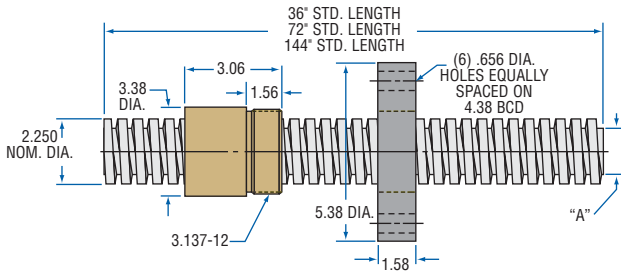
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.



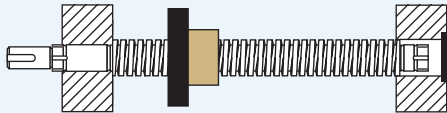
2-1/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	25,312	81,000
PLASTIC NUT	12,656	12,656

ACME SCREW ASSEMBLIES

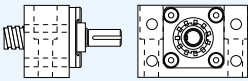
These assemblies are shipped with screw, nut, flange, and bearing supports.



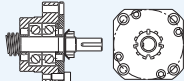
See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing
Universal Mount

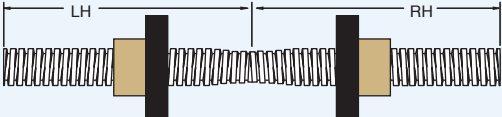


Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 2-1/4"-4"
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 2-1/4" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant



PAG-1 1 lb.
Acme Screw
Grease

See page 14 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE	
		2 1/4"-2	2 1/4"-4
Lead		.500	.250
Pitch		.500	.250
Starts		1	1
Threads Per Inch		2	4
Lash (Maximum Axial)		.021	.012
"A" – Root Diameter (min.)		1.684	1.944
Weight (lbs./ft.)		10.58	11.29
Thread Code		222	224
Form		40°	2C
36" Standard Length Part No. *	RH	4140	11222
	Stainless	—	—
72" Standard Length Part No. *	RH	4140	12222
	Stainless	—	—
144" Standard Length Part No. *	RH	4140	13222
	Stainless	—	—

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		2 1/4"-2	2 1/4"-4
Efficiency		37%	22%
Torque to Raise 1 lb. (in.-lb.)		.215	.181
Weight (lbs.)		5.25	4.98
Part No.	RH	20222	20224
	LH	80222	80224

PLAST/AC PLASTIC NUT		2 1/4"-2	2 1/4"-4
Efficiency		42%	27%
Torque to Raise 1 lb. (in.-lb.)		.188	.150
Weight (lbs.)		.76	.72
Part No.	RH	30222	30224
	LH	40222	40224

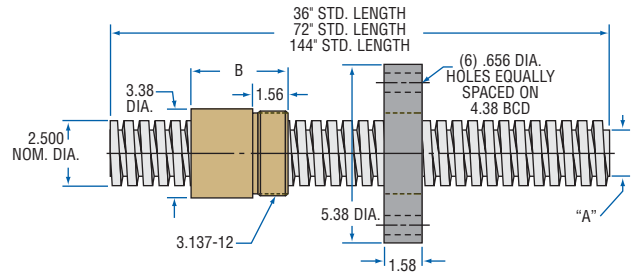
FLANGE - STEEL		2 1/4"-2	2 1/4"-4
Weight (lbs.)		9.88	9.88
Standard Part No.		70540	70540
No-Lash™ Part No.		73540	73540

INCH ACME SCREW AND NUT TECHNICAL DATA

2-1/2" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	31,250	100,000
PLASTIC NUT	15,625	15,625



INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE		
		2 1/2"-2	2 1/2"-3	2 1/2"-4
Lead		.500	.333	.250
Pitch		.500	.333	.250
Starts		1	1	1
Threads Per Inch		2	3	4
Lash (Maximum Axial)		.012	.013	.012
"A" – Root Diameter (min.)		1.908	2.106	2.193
"B" – Nut Body Length		3.38	4.25	3.38
Weight (lbs./ft.)		13.41	14.38	14.89
Thread Code		252	253	254
Form		40°	2C	2C
36" Standard Length Part No. *	RH	4140	11252	11253
	Stainless	—	—	—
72" Standard Length Part No. *	RH	4140	12252	12253
	Stainless	—	—	—
144" Standard Length Part No. *	RH	4140	13252	13253
	Stainless	—	—	—
36" Standard Length Part No. *	LH	4140	51252	51253
	Stainless	—	—	—
72" Standard Length Part No. *	LH	4140	52252	52253
	Stainless	—	—	—
144" Standard Length Part No. *	LH	4140	53252	53253
	Stainless	—	—	—

* Custom Lengths Available - See page 15 to specify length

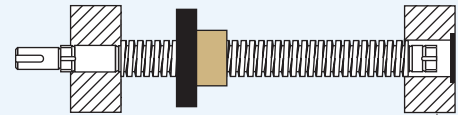
BRONZ/AC BRONZE NUT		2 1/2"-2	2 1/2"-3	2 1/2"-4
Efficiency		34%	25%	20%
Torque to Raise 1 lb. (in.-lb.)		.234	.212	.199
Weight (lbs.)		5.00	5.91	4.55
Part No.	RH	20252	20253	20254
	LH	80252	80253	80254

PLAST/AC PLASTIC NUT		2 1/2"-2	2 1/2"-3	2 1/2"-4
Efficiency		40%	30%	24%
Torque to Raise 1 lb. (in.-lb.)		.201	.174	.163
Weight (lbs.)		.73	.86	.66
Part No.	RH	30252	30253	30254
	LH	40252	40253	40254

FLANGE - STEEL		2 1/2"-2	2 1/2"-3	2 1/2"-4
Weight (lbs.)		9.88	9.88	9.88
Standard Part No.		70540	70540	70540
No-Lash™ Part No.		73540	73540	73540

ACME SCREW ASSEMBLIES

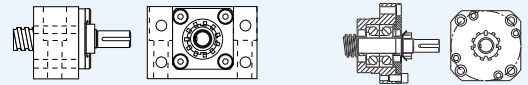
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



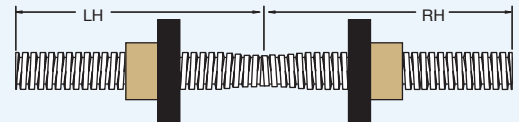
Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: 2-1/2"-2
See page 214 for complete product details.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 2-1/2" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

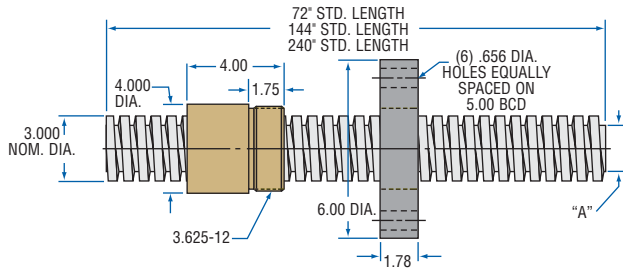


E-100 12 Oz. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.



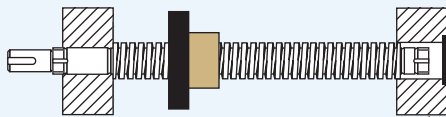
3" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	45,000	144,000

ACME SCREW ASSEMBLIES

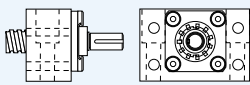
These assemblies are shipped with screw, nut, flange, and bearing supports.



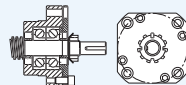
See page 41 for complete dimensions.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing
Universal Mount

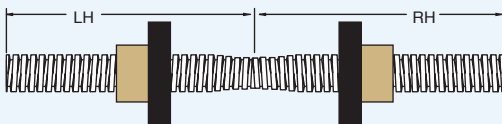


Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 3"-2
See page 214 for complete dimensions.

TWIN-LEAD SCREW

Single piece twin-lead screws offer opposing motion through a single drive system.



Twin-Lead Screw available for: All 3" Screws
See page 44 for complete product details.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant



PAG-1 1 lb.
Acme Screw
Grease

See page 14 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE	
		3"-2	
Lead		.500	
Pitch		.500	
Starts		1	
Threads Per Inch		2	
Lash (Maximum Axial)		.016	
"A" – Root Diameter (min.)		2.410	
Weight (lbs./ft.)		19.96	
Thread Code		302	
Form		2C	
72" Standard Length Part No. *	RH	4140	12302
		Stainless	—
144" Standard Length Part No. *	LH	4140	51302
		Stainless	—
240" Standard Length Part No. *	RH	4140	13302
		Stainless	—
240" Standard Length Part No. *	LH	4140	52302
		Stainless	—
240" Standard Length Part No. *	RH	4140	10302
		Stainless	—
240" Standard Length Part No. *	LH	4140	53302
		Stainless	—

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		3"-2
Efficiency		30%
Torque to Raise 1 lb. (in.-lb.)		.265
Weight (lbs.)		7.85
Part No.	RH	20302
	LH	80302

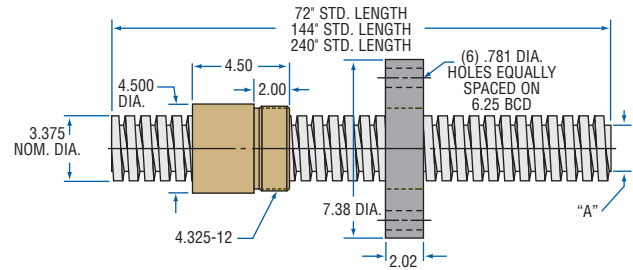
FLANGE - STEEL	3"-2
Weight (lbs.)	13.83
Standard Part No.	70600
No-Lash™ Part No.	73302

INCH ACME SCREW AND NUT TECHNICAL DATA

3-3/8" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	60,000	192,000



INCH ACME SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE	
		3³/₈"-1¹/₂	
Lead		.667	
Pitch		.667	
Starts		1	
Threads Per Inch		1 1/2	
Lash (Maximum Axial)		.020	
"A" – Root Diameter (min.)		2.652	
Weight (lbs./ft.)		20.15	
Thread Code		332	
Form		2G	
72" Standard Length Part No. *	RH	4140	12332
		Stainless	—
144" Standard Length Part No. *	LH	4140	—
		Stainless	—
144" Standard Length Part No. *	RH	4140	13332
		Stainless	—
240" Standard Length Part No. *	LH	4140	—
		Stainless	—

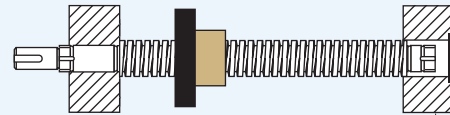
* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		3 ³ / ₈ "-1 ¹ / ₂
Efficiency		34%
Torque to Raise 1 lb. (in.-lb.)		.312
Weight (lbs.)		11.62
Part No.	RH	20332
	LH	—

FLANGE - STEEL	3 ³ / ₈ "-1 ¹ / ₂
Weight (lbs.)	23.82
Standard Part No.	70740
No-Lash™ Part No.	73332

ACME SCREW ASSEMBLIES

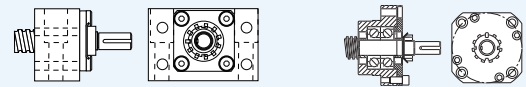
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete dimensions.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 3-3/8"-1-1/2

See page 214 for complete dimensions.

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 Oz.
Acme Screw
Spray Lubricant

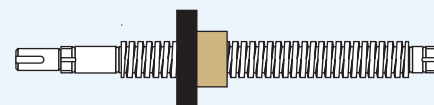


PAG-1 1 lb.
Acme Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.

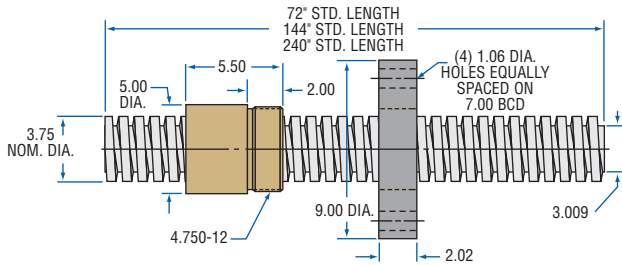


See page 212 for complete product details.

3-3/4" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	81,000	260,000



PRODUCT SPECIFICATIONS		SCREW SIZE	
		3³/₄"-1¹/₂	
Lead		.667	
Pitch		.667	
Starts		1	
Threads Per Inch		1 1/2	
Lash (Maximum Axial)		.020	
Weight (lbs./ft.)		38.30	
Thread Code		372	
Form		2G	
72" Standard Length Part No. *	RH 4140	12372	
144" Standard Length Part No. *	RH 4140	13372	
240" Standard Length Part No. *	RH 4140	10372	

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		3³/₄"-1¹/₂	
Efficiency		30%	
Torque to Raise 1 lb. (in.-lb.)		.345	
Weight (lbs.)		16.89	
Part No.	RH	20372	

FLANGE - STEEL		3³/₄"-1¹/₂	
Weight (lbs.)		23.82	
Standard Part No.		70775	
No-Lash™ Part No.		73372	

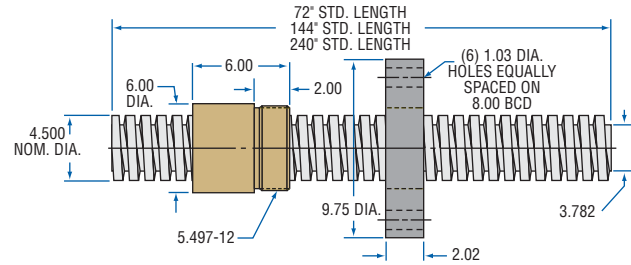
LUBRICANT

Prolong acme screw and nut performance with these special lubricants.
See page 14 for complete product details.

4-1/2" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	100,000	320,000



PRODUCT SPECIFICATIONS		SCREW SIZE	
		4¹/₂"-1¹/₂	
Lead		.667	
Pitch		.667	
Starts		1	
Threads Per Inch		1 1/2	
Lash (Maximum Axial)		.022	
Weight (lbs./ft.)		45.00	
Thread Code		452	
Form		2G	
72" Standard Length Part No. *	RH 4140	12452	
144" Standard Length Part No. *	RH 4140	13452	
240" Standard Length Part No. *	RH 4140	10452	

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		4¹/₂"-1¹/₂	
Efficiency		28%	
Torque to Raise 1 lb. (in.-lb.)		.379	
Weight (lbs.)		25.82	
Part No.	RH	20452	

FLANGE - STEEL		4¹/₂"-1¹/₂	
Weight (lbs.)		26.00	
Standard Part No.		71000	
No-Lash™ Part No.		73452	

EZZE-MOUNT™ END BEARING SUPPORTS

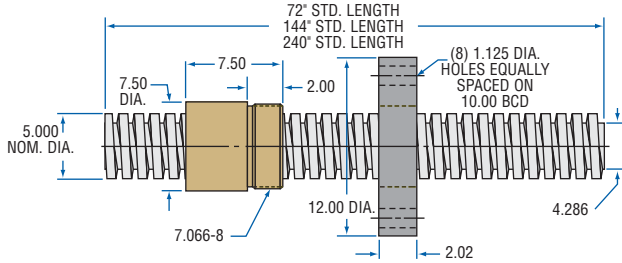
A convenient solution for mounting
acme screw assemblies.

EZZE-MOUNT™ available for: 4-1/2"-1-1/2"
See page 214 for complete dimensions.

5" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	145,000	470,000



			SCREW SIZE
PRODUCT SPECIFICATIONS			5"-1 1/2
Lead			.667
Pitch			.667
Starts			1
Threads Per Inch			1 1/2
Lash (Maximum Axial)			.022
Weight (lbs./ft.)			57.50
Thread Code			552
Form			2G
72" Standard Length Part No.*	RH	4140	12552
144" Standard Length Part No.*	RH	4140	13552
240" Standard Length Part No.*	RH	4140	10552

* Custom Lengths Available - See page 15 to specify length

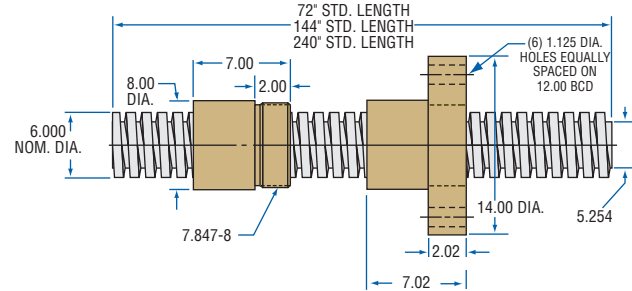
BRONZ/AC BRONZE NUT		5"-1 1/2
Efficiency		26%
Torque to Raise 1 lb. (in.-lb.)		.398
Weight (lbs.)		60.59
Part No.	RH	20552

FLANGE - STEEL		5"-1 1/2
Weight (lbs.)		110
Standard Part No.		75000
No-Lash™ Part No.		73552

6" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

LOAD CAPACITY (lbs.)	DYNAMIC	STATIC
BRONZE NUT	180,000	576,000



			SCREW SIZE
PRODUCT SPECIFICATIONS			6"-1 1/2
Lead			.667
Pitch			.667
Starts			1
Threads Per Inch			1 1/2
Lash (Maximum Axial)			.025
Weight (lbs./ft.)			87.00
Thread Code			602
Form			2G
72" Standard Length Part No.*	RH	4140	12602
144" Standard Length Part No.*	RH	4140	13602
240" Standard Length Part No.*	RH	4140	10602

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		6"-1 1/2
Efficiency		22%
Torque to Raise 1 lb. (in.-lb.)		.474
Weight (lbs.)		52.5
Part No. V thread	RH	20602
Part No. Integral Flange	RH	6954-1

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

See page 14 for complete product details.



E-100 12 Oz.
Acme Screw
Spray Lubricant



PAG-1 1 lb.
Acme Screw
Lubricant

SCREW SIZES			NUT SELECTION								Back Lash (max)	Page Ref
			BRONZ/AC				PLAST/AC					
SIZE DIA-TPI	Lead	Root Dia.	LOAD RATING		Torque To Raise 1 lb. (in-lb)	Efficiency %	LOAD RATING		Torque To Raise 1 lb. (in-lb)	Efficiency %		
			Static lbs.	Dynamic lbs.			Static lbs.	Dynamic lbs.				
1/4 - 3*	.333	.192	1000	312	.073	73	156	156	.067	79	.005	18
1/4 - 4*	.250	.162	1000	312	.056	71	156	156	.053	75	.007	18
1/4 - 16	.062	.162	1000	312	.026	39	156	156	.021	46	.005	18
1/4 - 20	.050	.175	1000	312	.022	36	156	156	.020	40	.006	18
5/16 - 2*	.500	.216	—	—	—	—	205	205	.099	81	.008	19
5/16 - 4*	.250	.216	1625	510	.059	67	205	205	.054	73	.008	19
3/8 - 1*	1.000	.238	—	—	—	—	351	351	.199	80	.021	20
3/8 - 2*	.500	.278	2250	703	.107	74	351	351	.101	79	.009	20
3/8 - 4*	.250	.278	2250	703	.063	63	351	351	.057	69	.009	20
3/8 - 5*	.200	.282	2250	703	.054	59	351	351	.050	64	.008	20
3/8 - 6*	.166	.263	2250	703	.049	54	351	351	.044	60	.006	21
3/8 - 8	.125	.278	2250	703	.042	48	351	351	.037	54	.009	21
3/8 - 10	.100	.282	2250	703	.038	42	351	351	.033	48	.008	21
3/8 - 12	.083	.263	2250	703	.036	37	351	351	.031	43	.006	21
3/8 - 16	.062	.286	2250	703	.031	32	351	351	.028	35	.007	21
7/16 - 2*	.500	.340	—	—	—	—	450	450	.103	77	.009	22
7/16 - 4*	.250	.340	3000	975	.067	60	450	450	.060	66	.009	22
1/2 - 1*	1.000	.392	—	—	—	—	625	625	.106	75	.007	23
1/2 - 2*	.500	.406	4000	1250	.115	69	625	625	.107	75	.006	23
1/2 - 4*	.250	.332	4000	1250	.070	57	625	625	.064	63	.007	23
1/2 - 5*	.200	.391	4000	1250	.061	52	625	625	.056	57	.009	23
1/2 - 10	.100	.359	4000	1250	.047	34	625	625	.039	40	.007	23
5/8 - 2 ² / ₃ *	.375	.457	6250	1953	.100	60	976	976	.091	66	.010	24
5/8 - 5	.200	.377	6250	1953	.072	44	976	976	.060	53	.009	24
5/8 - 5(2)*	.200	.484	6250	1953	.069	46	976	976	.062	51	.009	24
5/8 - 8	.125	.457	6250	1953	.058	34	976	976	.049	40	.008	24
5/8 - 10	.100	.516	6250	1953	.053	30	976	976	.046	35	.009	24
3/4 - 2*	.500	.581	9000	2812	.129	62	1406	1406	.118	68	.010	25
3/4 - 3*	.333	.537	9000	2812	.099	54	1406	1406	.089	60	.009	25
3/4 - 5	.200	.502	9000	2812	.080	40	1406	1406	.066	48	.009	25
3/4 - 6	.166	.537	9000	2812	.073	36	1406	1406	.061	43	.008	25

*Effective Threads per inch for multiple start screws.

CONTINUED ON NEXT PAGE

INCH ACME SCREW AND NUT TECHNICAL DATA



CONTINUED FROM PREVIOUS PAGE

INCH ACME SCREW AND NUT TECHNICAL DATA

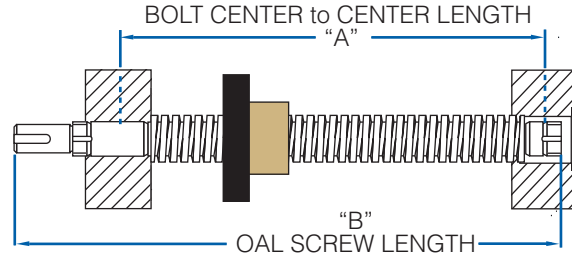
SCREW SIZES			NUT SELECTION								Back Lash (max)	Page Ref
			BRONZ/AC				PLAST/AC					
SIZE DIA-TPI	Lead	Root Dia.	LOAD RATING		Torque To Raise 1 lb. (in-lb)	Efficiency %	LOAD RATING		Torque To Raise 1 lb. (in-lb)	Efficiency %		
			Static lbs.	Dynamic lbs.			Static lbs.	Dynamic lbs.				
3/4 - 10	.100	.608	9000	2812	.064	25	1406	1406	.052	30	.007	25
7/8 - 6	.166	.661	12250	3828	.083	32	1914	1914	.068	39	.009	26
1 - 1*	1.000	.906	16000	5000	.231	69	2500	2500	.216	74	.008	27
1 - 2*	.500	.698	16000	5000	.139	57	2500	2500	.127	63	.010	27
1 - 4	.250	.698	16000	5000	.105	38	2500	2500	.086	46	.010	27
1 - 5	.200	.750	16000	5000	.094	34	2500	2500	.079	40	.009	27
1 - 6	.167	.786	16000	5000	.089	30	2500	2500	.074	36	.009	27
1 - 10	.100	.857	16000	5000	.078	20	2500	2500	.065	24	.008	27
1 1/8 - 5	.200	.875	20500	6330	.100	32	3165	3165	.085	37	.010	28
1 1/4 - 4	.250	.947	25000	7812	.117	34	3906	3906	.099	40	.011	29
1 1/4 - 5	.200	.999	25000	7812	.114	28	3906	3906	.092	35	.010	29
1 1/2 - 2*	.500	1.196	36000	11250	.173	46	5625	5625	.152	52	.012	30
1 1/2 - 2 2/3	.375	1.066	36000	11250	.149	40	5625	5625	.129	46	.010	30
1 1/2 - 4	.250	1.196	36000	11250	.133	30	5625	5625	.111	36	.010	30
1 1/2 - 5	.200	1.249	36000	11250	.127	25	5625	5625	.105	30	.010	30
1 1/2 - 10	.100	1.355	36000	11250	.110	15	5625	5625	.091	17	.009	30
1 3/4 - 4	.250	1.427	49900	15312	.153	26	7656	7656	.124	32	.011	31
2 - 2	.500	1.410	64000	20000	.199	40	10000	10000	.174	46	.020	32
2 - 4	.250	1.694	64000	20000	.166	24	10000	10000	.114	29	.012	32
2 - 5	.200	1.747	64000	20000	.159	20	10000	10000	.130	24	.011	32
2 1/4 - 2	.500	1.684	81000	25312	.215	37	12656	12656	.188	42	.021	33
2 1/4 - 4	.250	1.944	81000	25312	.181	22	12656	12656	.150	27	.012	33
2 1/2 - 2	.500	1.908	100000	31250	.234	34	15625	15625	.201	40	.012	34
2 1/2 - 3	.333	2.106	100000	31250	.212	25	15625	15625	.174	30	.013	34
2 1/2 - 4	.250	2.193	100000	31250	.199	20	15625	15625	.163	24	.012	34
3 - 2	.500	2.410	144000	45000	.265	30	—	—	—	—	.016	35
3 3/8 - 1 1/2	.666	2.652	192000	60000	.312	34	—	—	—	—	.020	36
3 3/4 - 1 1/2	.666	3.083	260000	81000	.345	30	—	—	—	—	.020	37
4 1/2 - 1 1/2	.666	3.782	320000	100000	.379	28	—	—	—	—	.022	37
5 - 1 1/2	.666	4.286	470000	145000	.398	26	—	—	—	—	.022	38
6 - 1 1/2	.666	5.254	576000	180000	.474	22	—	—	—	—	.025	38

*Effective Threads per inch for multiple start screw

CONVENIENCE AND MODULARITY

These PowerAc™ modular assemblies are pre-engineered and feature a 2-C acme screw, steel mounting flange with choice of nut material, one single and one double bearing EZZE-MOUNT™ support. One end of the mounted screw is provided with a drive shaft and keyway for coupling the assembly to a drive mechanism.

Use the reference number below to select the assembly that meets the design requirement. See page 214-218 for EZZE-MOUNT™ information and page 212-213 for End Machining information.



NOTE: "A" & "B" Dimensions reflect a 1/2" over travel at each end.

DIA-TPI	BOLT CENTER "A"	O.A.L. "B"	REF. NUMBER BRONZE NUT	REF. NUMBER PLASTIC NUT	Page
3/8 - 2	2.62" + Travel	4.4" + Travel	037 - RA / EK / CN / "B" / 20037 / FS	037 - RA / EK / CN / "B" / 20037 / FS	20
3/8 - 4	2.62" + Travel	4.4" + Travel	034 - RA / EK / CN / "B" / 20034 / FS	034 - RA / EK / CN / "B" / 20034 / FS	20
3/8 - 5	2.62" + Travel	4.4" + Travel	035 - RA / EK / CN / "B" / 20035 / FS	035 - RA / EK / CN / "B" / 20035 / FS	20
3/8 - 6	2.62" + Travel	4.4" + Travel	036 - RA / EK / CN / "B" / 20036 / FS	036 - RA / EK / CN / "B" / 20036 / FS	21
3/8 - 8	2.62" + Travel	4.4" + Travel	038 - RA / EK / CN / "B" / 20038 / FS	038 - RA / EK / CN / "B" / 20038 / FS	21
3/8 - 10	2.62" + Travel	4.4" + Travel	030 - RA / EK / CN / "B" / 20030 / FS	030 - RA / EK / CN / "B" / 20030 / FS	21
3/8 - 12	2.62" + Travel	4.4" + Travel	032 - RA / EK / CN / "B" / 20032 / FS	032 - RA / EK / CN / "B" / 20032 / FS	21
3/8 - 16	2.62" + Travel	4.4" + Travel	033 - RA / EK / CN / "B" / 20033 / FS	033 - RA / EK / CN / "B" / 30033 / FS	21
7/16 - 2	2.75" + Travel	4.62" + Travel	—	042 - RA / EK / CN / "B" / 30042 / FS	22
7/16 - 4	2.75" + Travel	4.62" + Travel	044 - RA / EK / CN / "B" / 20044 / FS	044 - RA / EK / CN / "B" / 30044 / FS	22
1/2 - 1	2.87" + Travel	5.23" + Travel	—	051 - RA / EK / CN / "B" / 30051 / FS	23
1/2 - 2	2.87" + Travel	5.32" + Travel	052 - RA / EK / CN / "B" / 20052 / FS	052 - RA / EK / CN / "B" / 30052 / FS	23
1/2 - 4	2.75" + Travel	4.62" + Travel	054 - RA / EK / CN / "B" / 20054 / FS	054 - RA / EK / CN / "B" / 30054 / FS	23
1/2 - 5	2.87" + Travel	5.23" + Travel	055 - RA / EK / CN / "B" / 20055 / FS	055 - RA / EK / CN / "B" / 30055 / FS	23
1/2 - 10	2.87" + Travel	5.23" + Travel	050 - RA / EK / CN / "B" / 20050 / FS	050 - RA / EK / CN / "B" / 30050 / FS	23
5/8 - 2 2/3	3.12" + Travel	5.57" + Travel	063 - RA / EK / CN / "B" / 20063 / FS	063 - RA / EK / CN / "B" / 30063 / FS	24
5/8 - 5	3.12" + Travel	5.48" + Travel	065 - RA / EK / CN / "B" / 20065 / FS	065 - RA / EK / CN / "B" / 30065 / FS	24
5/8 - 8	3.12" + Travel	5.57" + Travel	068 - RA / EK / CN / "B" / 20068 / FS	068 - RA / EK / CN / "B" / 30068 / FS	24
5/8 - 10	3.38" + Travel	6.43" + Travel	060 - RA / EK / CN / "B" / 20060 / FS	060 - RA / EK / CN / "B" / 30060 / FS	24
3/4 - 2	3.63" + Travel	6.68" + Travel	072 - RA / EK / CN / "B" / 20072 / FS	072 - RA / EK / CN / "B" / 30072 / FS	25
3/4 - 3	3.63" + Travel	6.68" + Travel	073 - RA / EK / CN / "B" / 20073 / FS	073 - RA / EK / CN / "B" / 30073 / FS	25
3/4 - 5	3.63" + Travel	6.68" + Travel	075 - RA / EK / CN / "B" / 20075 / FS	075 - RA / EK / CN / "B" / 30075 / FS	25
3/4 - 6	3.63" + Travel	6.68" + Travel	076 - RA / EK / CN / "B" / 20076 / FS	076 - RA / EK / CN / "B" / 30076 / FS	25
3/4 - 10	3.63" + Travel	6.60" + Travel	070 - RA / EK / CN / "B" / 20070 / FS	070 - RA / EK / CN / "B" / 30070 / FS	25
7/8 - 6	3.88" + Travel	6.85" + Travel	086 - RA / EK / CN / "B" / 20086 / FS	086 - RA / EK / CN / "B" / 30086 / FS	26
1 - 1	4.22" + Travel	8.14" + Travel	111 - RA / EK / CN / "B" / 20111 / FS	111 - RA / EK / CN / "B" / 30111 / FS	27
1 - 2	4.18" + Travel	7.45" + Travel	112 - RA / EK / CN / "B" / 20112 / FS	111 - RA / EK / CN / "B" / 30112 / FS	27
1 - 4	4.18" + Travel	7.45" + Travel	104 - RA / EK / CN / "B" / 20104 / FS	112 - RA / EK / CN / "B" / 30104 / FS	27
1 - 5	4.18" + Travel	7.45" + Travel	105 - RA / EK / CN / "B" / 20105 / FS	104 - RA / EK / CN / "B" / 30105 / FS	27
1 - 6	4.18" + Travel	7.45" + Travel	106 - RA / EK / CN / "B" / 20106 / FS	105 - RA / EK / CN / "B" / 30106 / FS	27
1 - 10	4.22" + Travel	8.14" + Travel	110 - RA / EK / CN / "B" / 20110 / FS	106 - RA / EK / CN / "B" / 30106 / FS	27
1 1/8 - 5	4.28" + Travel	8.14" + Travel	115 - RA / EK / CN / "B" / 20115 / FS	110 - RA / EK / CN / "B" / 30110 / FS	27
1 1/4 - 4	4.47" + Travel	8.39" + Travel	124 - RA / EK / CN / "B" / 20124 / FS	115 - RA / EK / CN / "B" / 30115 / FS	28
1 1/4 - 5	4.69" + Travel	8.84" + Travel	125 - RA / EK / CN / "B" / 20125 / FS	124 - RA / EK / CN / "B" / 30124 / FS	29
1 1/2 - 2	5.24" + Travel	9.84" + Travel	152 - RA / EK / CN / "B" / 20152 / FS	125 - RA / EK / CN / "B" / 30125 / FS	29
1 1/2 - 2 2/3	5.24" + Travel	9.39" + Travel	153 - RA / EK / CN / "B" / 20153 / FS	152 - RA / EK / CN / "B" / 30152 / FS	30
1 1/2 - 4	5.24" + Travel	9.84" + Travel	154 - RA / EK / CN / "B" / 20154 / FS	153 - RA / EK / CN / "B" / 30153 / FS	30
1 1/2 - 5	5.24" + Travel	9.84" + Travel	155 - RA / EK / CN / "B" / 20155 / FS	154 - RA / EK / CN / "B" / 30154 / FS	30
1 1/2 - 10	5.24" + Travel	9.84" + Travel	150 - RA / EK / CN / "B" / 20150 / FS	155 - RA / EK / CN / "B" / 30155 / FS	30

The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of Nook Industries products for a specific application. While defective products will be replaced without charge if promptly returned, no liability is assumed beyond such replacement.

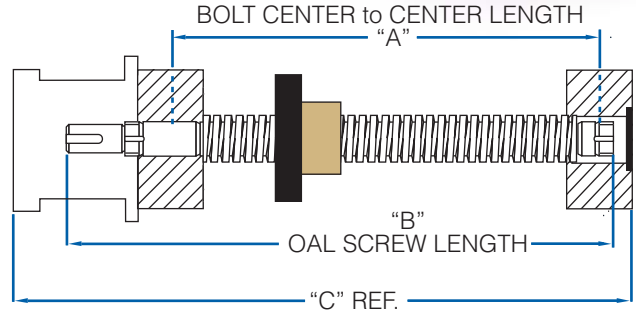


CONVENIENCE AND MODULARITY

These PowerAc™ modular assemblies are pre-engineered and feature a 2-C acme screw, steel mounting flange with choice of nut material, one single and one double bearing EZZE-MOUNT™ support with motor mount. One end of the mounted screw is provided with a drive shaft and keyway for coupling the motor mount assembly.



Use the reference number below to select the assembly that meets the design requirement. See pages 214-218 for EZZE-MOUNT™ information and pages 212-213 for End Machining information.



NOTE: "A" & "B" Dimensions reflect a 1/2" over travel at each end.

INCH ACME SCREW ASSEMBLIES TECHNICAL DATA

DIA-TPI	ADD MEASUREMENT BELOW + TRAVEL			REF. NUMBER BRONZE NUT	REF. NUMBER PLASTIC NUT	MOTOR MOUNT	Page
	BOLT CENTER "A"	O.A.L "B"	"C" REF.				
7/16 - 2	2.75"	4.62"	6.16"	—	042 - RA / U1 / CN / "B" / 30042 / FS	EZM-1008-17	22
7/16 - 4	2.75"	4.62"	6.16"	044 - RA / U1 / CN / "B" / 20044 / FS	044 - RA / U1 / CN / "B" / 30044 / FS	EZM-1008-17	22
1/2 - 1	2.87"	5.23"	7.04"	—	051 - RA / U2 / CN / "B" / 30051 / FS	EZM-1009-23	23
1/2 - 2	2.87"	5.32"	7.04"	052 - RA / U2 / CN / "B" / 20052 / FS	052 - RA / U2 / CN / "B" / 30052 / FS	EZM-3010-23	23
1/2 - 4	2.75"	4.62"	6.16"	054 - RA / U1 / CN / "B" / 20054 / FS	054 - RA / U1 / CN / "B" / 30054 / FS	EZM-1008-17	23
1/2 - 5	2.87"	5.23"	7.04"	055 - RA / U2 / CN / "B" / 20055 / FS	055 - RA / U2 / CN / "B" / 30055 / FS	EZM-1009-23	23
1/2 - 10	2.87"	5.23"	7.04"	050 - RA / U2 / CN / "B" / 20050 / FS	050 - RA / U2 / CN / "B" / 30050 / FS	EZM-1009-23	23
5/8 - 2 2/3	3.12"	5.57"	7.29"	063 - RA / U2 / CN / "B" / 20063 / FS	063 - RA / U2 / CN / "B" / 30063 / FS	EZM-3010-23	24
5/8 - 5	3.12"	5.48"	7.29"	065 - RA / U2 / CN / "B" / 20065 / FS	065 - RA / U2 / CN / "B" / 30065 / FS	EZM-1009-23	24
5/8 - 8	3.12"	5.57"	7.29"	068 - RA / U2 / CN / "B" / 20068 / FS	068 - RA / U2 / CN / "B" / 30068 / FS	EZM-3010-23	24
5/8 - 10	3.38"	6.43"	7.86"	060 - RA / U2 / CN / "B" / 20060 / FS	060 - RA / U2 / CN / "B" / 30060 / FS	EZM-3012-23	24
3/4 - 2	3.63"	6.68"	8.11"	072 - RA / U2 / CN / "B" / 20072 / FS	072 - RA / U2 / CN / "B" / 30072 / FS	EZM-3012-23	25
3/4 - 3	3.63"	6.68"	8.11"	073 - RA / U2 / CN / "B" / 20073 / FS	073 - RA / U2 / CN / "B" / 30073 / FS	EZM-3012-23	25
3/4 - 5	3.63"	6.68"	8.11"	075 - RA / U2 / CN / "B" / 20075 / FS	075 - RA / U2 / CN / "B" / 30075 / FS	EZM-3012-23	25
3/4 - 6	3.63"	6.68"	8.11"	076 - RA / U2 / CN / "B" / 20076 / FS	076 - RA / U2 / CN / "B" / 30076 / FS	EZM-3012-23	25
3/4 - 10	3.63"	6.60"	8.76"	070 - RA / U3 / CN / "B" / 20070 / FS	070 - RA / U3 / CN / "B" / 30070 / FS	EZM-3015-34	25
7/8 - 6	3.88"	6.85"	9.01"	086 - RA / U3 / CN / "B" / 20086 / FS	086 - RA / U3 / CN / "B" / 30086 / FS	EZM-3015-34	26
1 - 1	4.22"	8.14"	10.18"	111 - RA / U3 / CN / "B" / 20111 / FS	111 - RA / U3 / CN / "B" / 30111 / FS	EZM-2020-34	27
1 - 2	4.18"	7.45"	9.75"	112 - RA / U3 / CN / "B" / 20112 / FS	111 - RA / U3 / CN / "B" / 30112 / FS	EZM-3017-34	27
1 - 4	4.18"	7.45"	9.75"	104 - RA / U3 / CN / "B" / 20104 / FS	112 - RA / U3 / CN / "B" / 30104 / FS	EZM-3017-34	27
1 - 5	4.18"	7.45"	9.75"	105 - RA / U3 / CN / "B" / 20105 / FS	104 - RA / U3 / CN / "B" / 30105 / FS	EZM-3017-34	27
1 - 6	4.18"	7.45"	9.75"	106 - RA / U3 / CN / "B" / 20106 / FS	105 - RA / U3 / CN / "B" / 30106 / FS	EZM-3017-34	27
1 - 10	4.22"	8.14"	10.18"	110 - RA / U3 / CN / "B" / 20110 / FS	110 - RA / U3 / CN / "B" / 30110 / FS	EZM-2020-34	27
1 1/8 - 5	4.22"	8.14"	10.18"	115 - RA / U3 / CN / "B" / 20115 / FS	115 - RA / U3 / CN / "B" / 30115 / FS	EZM-2020-34	28
1 1/4 - 4	4.47"	8.39"	10.43"	124 - RA / U3 / CN / "B" / 20124 / FS	124 - RA / U3 / CN / "B" / 30124 / FS	EZM-2020-34	29
1 1/4 - 5	4.69"	8.14"	11.13"	125 - RA / U3 / CN / "B" / 20125 / FS	125 - RA / U3 / CN / "B" / 30125 / FS	EZM-3025-34	29
1 1/2 - 2	5.24"	9.84"	12.21"	152 - RA / U3 / CN / "B" / 20152 / FS	152 - RA / U3 / CN / "B" / 30152 / FS	EZM-2030-34	30
1 1/2 - 2 2/3	5.24"	9.39"	11.68"	153 - RA / U3 / CN / "B" / 20153 / FS	153 - RA / U3 / CN / "B" / 30153 / FS	EZM-3025-34	30
1 1/2 - 4	5.24"	9.84"	12.21"	154 - RA / U3 / CN / "B" / 20154 / FS	154 - RA / U3 / CN / "B" / 30154 / FS	EZM-2030-34	30
1 1/2 - 5	5.24"	9.84"	12.21"	155 - RA / U3 / CN / "B" / 20155 / FS	155 - RA / U3 / CN / "B" / 30155 / FS	EZM-2030-34	30
1 1/2 - 10	5.24"	9.84"	12.21"	150 - RA / U3 / CN / "B" / 20150 / FS	150 - RA / U3 / CN / "B" / 30150 / FS	EZM-2030-34	30

CONVENIENCE AND MODULARITY

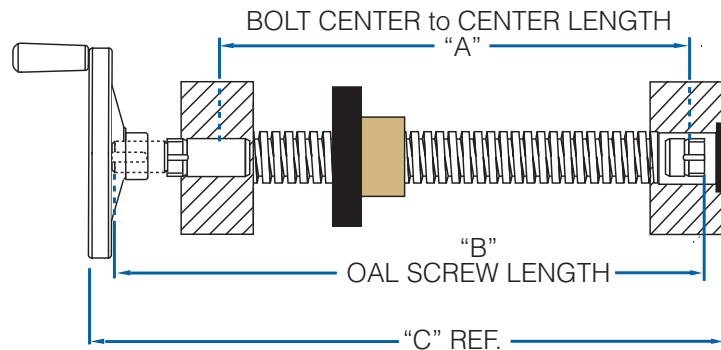
These PowerAc™ modular assemblies are pre-engineered and feature a 2-C acme screw, steel mounting flange with choice of nut material, one single and one double bearing EZZE-MOUNT™ support. Drive end of the mounted screw is provided with a handwheel for manual operation.

Use the reference number below to select the assembly that meets the design requirement. See page 214-218 for EZZE-MOUNT™ information, page 212-213 for End Machining information and page 287 for handwheel dimensional information.

EXAMPLE:

072 - RA / EQ / CN / 29.62 / 20072 / FS

Is a 1/2"-2 Acme Right Hand Alloy Steel Rolled Screw with a Universal Double and a Universal Single EZZE-MOUNT™ overall length of 29.62" with a 3/4"-2 right hand acme nut and a handwheel 4" diameter.



NOTE: "A" & "B" Dimensions reflect a 1/2" over travel at each end.

DIA-TPI	ADD MEASUREMENT BELOW + TRAVEL			REF. NUMBER BRONZE NUT	REF. NUMBER PLASTIC NUT	HANDWHEEL		PAGE
	BOLT CENTER "A"	O.A.L "B"	"C" REF.			SIZE	PART NO.	
5/8 - 10	3.38"	6.43"	7.17"	060 - RA / EQ / CN / "B" / 20060 / FS	060 - RA / EQ / CN / "B" / 30060 / FS	4"	H043*	24
3/4 - 2	3.63"	6.68"	7.42"	072 - RA / EQ / CN / "B" / 20072 / FS	072 - RA / EQ / CN / "B" / 30072 / FS	4"	H043	25
3/4 - 3	3.63"	6.68"	7.42"	073 - RA / EQ / CN / "B" / 20073 / FS	073 - RA / EQ / CN / "B" / 30073 / FS	4"	H043	25
3/4 - 5	3.63"	6.68"	7.42"	075 - RA / EQ / CN / "B" / 20075 / FS	075 - RA / EQ / CN / "B" / 30075 / FS	4"	H043	25
3/4 - 6	3.63"	6.68"	7.42"	076 - RA / EQ / CN / "B" / 20076 / FS	076 - RA / EQ / CN / "B" / 30076 / FS	4"	H043	25
3/4 - 10	3.63"	6.60"	7.31"	070 - RA / EQ / CN / "B" / 20070 / FS	070 - RA / EQ / CN / "B" / 30070 / FS	4"	H044	25
7/8 - 6	3.88"	6.85"	7.81"	086 - RA / EQ / CN / "B" / 20086 / FS	086 - RA / EQ / CN / "B" / 30086 / FS	6"	H064	26
1 - 1	4.22"	8.14"	9.00"	111 - RA / EQ / CN / "B" / 20111 / FS	111 - RA / EQ / CN / "B" / 30111 / FS	6"	H065**	27
1 - 2	4.18"	7.45"	8.59"	112 - RA / EQ / CN / "B" / 20112 / FS	111 - RA / EQ / CN / "B" / 30112 / FS	6"	H064	27
1 - 4	4.18"	7.45"	8.59"	104 - RA / EQ / CN / "B" / 20104 / FS	112 - RA / EQ / CN / "B" / 30104 / FS	6"	H064	27
1 - 5	4.18"	7.45"	8.59"	105 - RA / EQ / CN / "B" / 20105 / FS	104 - RA / EQ / CN / "B" / 30105 / FS	6"	H064	27
1 - 6	4.18"	7.45"	8.59"	106 - RA / EQ / CN / "B" / 20106 / FS	105 - RA / EQ / CN / "B" / 30106 / FS	6"	H064	27
1 - 10	4.22"	8.14"	9.00"	110 - RA / EQ / CN / "B" / 20110 / FS	110 - RA / EQ / CN / "B" / 30110 / FS	6"	H065**	27
1 1/8 - 5	4.22"	8.14"	9.00"	115 - RA / EQ / CN / "B" / 20115 / FS	115 - RA / EQ / CN / "B" / 30115 / FS	6"	H065**	28
1 1/4 - 4	4.47"	8.39"	9.25"	124 - RA / EQ / CN / "B" / 20124 / FS	124 - RA / EQ / CN / "B" / 30124 / FS	6"	H065**	29
1 1/4 - 5	4.69"	8.14"	9.89"	125 - RA / EQ / CN / "B" / 20125 / FS	125 - RA / EQ / CN / "B" / 30125 / FS	8"	H086	29
1 1/2 - 2	5.24"	9.84"	10.85"	152 - RA / EQ / CN / "B" / 20152 / FS	152 - RA / EQ / CN / "B" / 30152 / FS	8"	H088	30
1 1/2 - 2 2/3	5.24"	9.39"	10.44"	153 - RA / EQ / CN / "B" / 20153 / FS	153 - RA / EQ / CN / "B" / 30153 / FS	8"	H086	30
1 1/2 - 4	5.24"	9.84"	10.85"	154 - RA / EQ / CN / "B" / 20154 / FS	154 - RA / EQ / CN / "B" / 30154 / FS	8"	H088	30
1 1/2 - 5	5.24"	9.84"	10.85"	155 - RA / EQ / CN / "B" / 20155 / FS	155 - RA / EQ / CN / "B" / 30155 / FS	8"	H088	30
1 1/2 - 10	5.24"	9.84"	10.85"	150 - RA / EQ / CN / "B" / 20150 / FS	150 - RA / EQ / CN / "B" / 30150 / FS	8"	H088	30

* Indicates modified Type III End Machining required.

** H065 handwheel has the same outer dimensions as H064, but different bore.

Other combinations of screw assemblies and handwheels are available upon request.



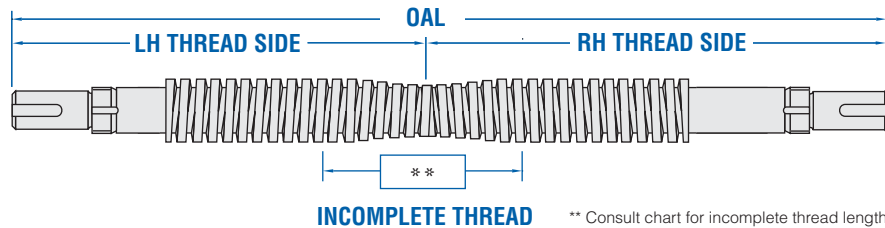
Twin-lead acme screws offer dual opposing motion using a single drive system. These one-piece high performance acme screws are made from high alloy steel that is black oxidized for protection. Twin-lead acme screw assemblies can be assembled with Nook PowerAc™ acme nuts, flanges and EZZE-MOUNT™ (see page 212-213) bearing supports to form cost effective systems. Twin-lead acme screws can be used in molding machines, packaging equipment, food processing machinery, robotics, material handling equipment, tire manufacturing and assembly applications.



Twin-Lead screws are stocked for immediate delivery without machined ends in the sizes and are highlighted in the chart below. To order a twin-lead cut to a custom length and/or with machined ends, select a size from the Twin-Lead Chart, determine OAL, LH and RH thread length, nut, flange and, if required, EZZE-MOUNT™ bearing support.

Consult the Twin-Lead Reference Number System on the next page to complete your part number.

- Lead accuracy of 0.004"/foot
- For 0.002"/foot lead accuracy contact Nook Industries customer service. 800-321-7800



** Consult chart for incomplete thread length

Measurements in inches Stock Sizes highlighted in BLUE

SCREW SIZE DIA-LEAD	ROOT DIA. (min)	MAX OVERALL LENGTH	MAX USEABLE LH & RH THREAD	INCOMPLETE OVERLAPPING THREAD LENGTH	PAGE
1/4 - 16	.162	36	17.25	1.50	18
3/8 - 6	.263	36	17.00	2.00	21
3/8 - 12	.263	36	17.00	1.50	21
1/2 - 10	.359	36	17.00	2.00	23
5/8 - 2 ² / ₃	.457	36	16.75	2.50	24
5/8 - 5	.377	36	16.75	2.50	24
5/8 - 8	.457	36	16.50	2.00	24
3/4 - 3	.537	72	34.50	3.00	25
3/4 - 5	.502	72	34.50	3.00	25
3/4 - 6	.537	72	34.50	3.00	25
3/4 - 10	.608	72	34.50	2.50	25
7/8 - 6	.661	72	34.50	3.00	26
1 - 1	.906	72	34.50	3.00	27
1 - 2	.698	72	34.25	3.50	27
1 - 4	.698	72	34.25	3.50	27
1 - 5	.750	72	34.25	3.50	27
1 - 6	.786	72	34.50	3.00	27
1 - 10	.857	72	34.50	2.50	27

SCREW SIZE DIA-LEAD	ROOT DIA. (min)	MAX OVERALL LENGTH	MAX USEABLE LH & RH THREAD	INCOMPLETE OVERLAPPING THREAD LENGTH	PAGE
1 1/8 - 5	.875	72	34.25	3.50	28
1 1/4 - 4	.947	144	70.25	3.50	29
1 1/4 - 5	.999	144	70.25	3.50	29
1 1/2 - 2	1.196	144	70.25	3.50	30
1 1/2 - 2 ² / ₃	1.066	144	70.00	4.00	30
1 1/2 - 4	1.196	144	70.00	3.50	30
1 1/2 - 5	1.249	144	70.25	3.50	30
1 1/2 - 10	1.355	144	70.50	2.50	30
1 3/4 - 4	1.427	144	70.00	4.00	31
2 - 2	1.410	144	69.50	6.00	32
2 - 4	1.694	144	70.00	4.00	32
2 - 5	1.747	144	70.00	3.50	32
2 1/4 - 2	1.684	144	69.00	6.00	33
2 1/4 - 4	1.944	144	70.00	4.00	33
2 1/2 - 2	1.908	144	69.00	6.00	34
2 1/2 - 3	2.106	144	69.00	4.50	34
2 1/2 - 4	2.193	144	70.00	4.00	34
3 - 2	2.410	144	69.00	6.00	35

INCH TWIN-LEAD ACME SCREW ASSEMBLIES TECHNICAL DATA

105 - TA / EK / 4N / 33.50 / 16.75 / 16.75 / 80105A / 20105A / FS

TWIN-LEAD ACME SCREW

Thread Form Codes

CODE	Dia. - Lead	CODE	Dia. - Lead	CODE	Dia. - Lead	CODE	Dia. - Lead
026	= 1/4"-16*	086	= 7/8"-6	153	= 1-1/2"-2 2/3	253	= 2-1/2"-3
032	= 3/8"-12*	112	= 1"-2	154	= 1-1/2"-4*	254	= 2-1/2"-4
036	= 3/8"-6	104	= 1"-4	155	= 1-1/2"-5	302	= 3"-2
050	= 1/2"-10	105	= 1"-5*	150	= 1-1/2"-10		
063	= 5/8"-2 2/3	106	= 1"-6	174	= 1-3/4"-4		
065	= 5/8"-5	110	= 1"-10*	202	= 2"-2		
068	= 5/8"-8*	111	= 1"-1	204	= 2"-4*		
073	= 3/4"-3	115	= 1-1/8"-5	205	= 2"-5		
075	= 3/4"-5*	124	= 1-1/4"-4	222	= 2-1/4"-2		
076	= 3/4"-6	125	= 1-1/4"-5*	224	= 2-1/4"-4		
070	= 3/4"-10	152	= 1-1/2"-2	252	= 2-1/2"-2		

* These twin-lead screws are stocked without end machining

MATERIAL

T A	MATERIAL	T	U
T	= Twin-Lead	A	= Alloy Steel - Rolled
		B	= Alloy Steel - Milled
		C	= Alloy Steel - Ground
		S	= Stainless Steel - Rolled
		T	= Stainless Steel - Milled
		U	= Stainless Steel - Ground

NOTE: Not all materials/threads are available for all sizes.

FIRST END CONFIGURATION

EZZE-MOUNT™ / End Machining

(see page 214 & 212)

- 1 = Type 1
- 2 = Type 2
- 3 = Type 3
- 4 = Type 4

B = Universal Double Bearing Support End Cap Facing Screw Thread

C = Universal Single Bearing Support

D = Flanged Single Bearing Support Flange Facing Screw Thread

E = Universal Double Bearing Support End Cap Facing Away From Screw Thread

F = Flanged Double Bearing Support Flange Facing Screw Thread

G = Flanged Single Bearing Support Flange Facing Away From Screw Thread

H = Flanged Double Bearing Support Flange Facing Away From Screw Thread

U = Universal Double Bearing Support with Motor Mount (see page 217)

Y = Flanged Double Bearing Support with Motor Mount (see page 218)

00 = No End Machining (Screw will be cut to desired length).

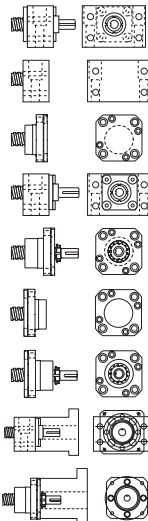
XX = Custom Machining (Print or specified data must be provided).

EK

EK = Universal Double Bearing Support, with Keyway

Shaft Extension
(see page 212)

- K** = Shaft Extension with Keyway
- L** = Shaft Extension without Keyway
- N** = No Shaft Extension



NOTE: Both Ends must be specified.

Single Bearing Supports are used in conjunction with Type 1N end machining.

Double Bearing Supports are used in conjunction with Type 3K, 3L, or 3N end machining.

SECOND END CONFIGURATION

Refer to the First End Configuration section above.

NOTE: Both Ends must be specified.

OVER - ALL - LENGTH (OAL)

Length in inches, 2 place decimal

LEFT HAND THREAD

Length in inches, 2 place decimal. **NOTE:** See figure on page 44

RIGHT HAND THREAD

Length in inches, 2 place decimal. **NOTE:** See figure on page 44

LEFT HAND ACME NUT

000000 = No Nut

RIGHT HAND ACME NUT

000000 = No Nut

NOTE: To Select the Nut Direction After Nut Part # Add
A = Nut Thread or Flange installed towards center of screw

B = Nut Thread or Flange installed towards end of screw

MODIFIER LIST

S or M Required

S = Standard, no additional description required **M** = Modified, additional description required

F Optional

F = Round Flange

The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of Nook Industries products for a specific application. While defective products will be replaced without charge if promptly returned, no liability is assumed beyond such replacement.



With over thirty years of experience manufacturing precision acme screws, Nook Industries has expanded the PowerAc™ offering to include metric lead screws providing design engineers a globally accepted product. Metric lead screws are available in many diameters, leads, and pitches in both ISO Trapezoidal

and Speedy™ styles. The ISO trapezoidal screws use bronze or plastic nuts with optional steel flanges. Speedy products use plastic or bronze nuts with integral mounting flanges. All Nook metric products can be assembled with anti-backlash nut systems.

METRIC LEAD SCREW AND NUT TECHNICAL DATA



ISO TRAPEZOIDAL SCREW AND NUT

Similar in construction and materials to PowerAc™ Inch Acme Screws and Nuts, the ISO Trapezoidal thread form has been enhanced to include a centralizing thread form to prevent wedging and binding. See the PowerAc™ technical data on pages 50-76 for additional screw and nut details.

Standard lead accuracy: is $\pm 6.25\mu\text{m} / 25\text{mm}$

Temperature Range: Plastic Nuts: -9° to $+79^\circ$ C
Bronze Nuts: -9° to $+177^\circ$ C



SPEEDY™ SCREW AND NUT

Designed to move light loads at high travel rates and have lead-to-diameter ratios of up to 6:1, these metric screws are extremely efficient and cost effective when compared to other methods of high-speed actuation.

Speedy™ screws are available with durable wear-resistant plastic nuts and are manufactured from corrosion resistant alloy steel or stainless steel. For higher loads, bronze nuts are available. Special plastic materials can be ordered for demanding applications.

Standard lead accuracy: is $\pm 17.5\mu\text{m} / 25\text{mm}$
Accuracy of $\pm 8.3\mu\text{m} / 25\text{mm}$ available on request

Temperature Range: Plastic Nuts: -40° to $+60^\circ$ C
Bronze Nuts: -40° to $+200^\circ$ C

Lubrication: An initial oil lubrication is generally sufficient for plastic. Lubrication intervals should be adjusted to address the application, environment and duty cycle. Bronze nuts must be lubricated regularly.

ESS-1625 - RA / EK / 4N / 1063 / ESN-1625-RBN / S

LEAD SCREW

Thread Form Codes

SPEEDY	Dia. x Lead	SPEEDY	Dia. x Lead	SPEEDY	Dia. x Lead	ISO	Dia. x Lead
ESS-0505	= 5 x 5	ESS-1245	= 12 x 45	ESS-1810	= 18 x 100	900	= 10 x 3 (1.5)
ESS-0520	= 5 x 20	ESS-1235	= 12.8 x 35.6	ESS-1930	= 19 x 30	901	= 12 x 3
ESS-0625	= 6 x 25	ESS-1320	= 13 x 20	ESS-2012	= 20 x 12	902	= 16 x 4
ESS-0707	= 7.5 x 7.5	ESS-1370	= 13 x 70	ESS-2045	= 20 x 45	903	= 20 x 4
ESS-0810	= 8 x 10	ESS-1408	= 14 x 8	ESS-2220	= 22 x 20	904	= 26 x 6
ESS-0830	= 8 x 30	ESS-1418	= 14 x 18	ESS-2250	= 22 x 50	905	= 47 x 7
ESS-0975	= 9.7 x 25.4	ESS-1430	= 14 x 30	ESS-2330	= 23 x 30	906	= 55 x 12
ESS-1010	= 10 x 10	ESS-1440	= 14.3 x 40.6	ESS-2455	= 24 x 55	907	= 65 x 12
ESS-1012	= 10 x 12	ESS-1580	= 15 x 80	ESS-2576	= 25.7 x 76.2		
ESS-1035	= 10 x 35	ESS-1621	= 16 x 21	ESS-2624	= 26 x 24		
ESS-1050	= 10 x 50	ESS-1625	= 16 x 25	ESS-2660	= 26 x 60		
ESS-1140	= 11 x 40	ESS-1690	= 16 x 90	ESS-3028	= 30 x 28		
ESS-1160	= 11 x 60	ESS-1750	= 17.6 x 50.8	ESS-3050	= 30 x 50		
ESS-1130	= 11.2 x 30.5	ESS-1816	= 18 x 16	ESS-3070	= 30 x 70		
ESS-1215	= 12 x 15	ESS-1824	= 18 x 24	ESS-3480	= 34 x 80		
ESS-1225	= 12 x 25	ESS-1840	= 18 x 40	ESS-3620	= 36 x 200		

THREAD & MATERIAL

THREAD	RA	MATERIAL	T
R = Right Hand		A = Alloy Steel - Rolled	T = Stainless Steel - Milled*
L = Left Hand		B = Alloy Steel - Milled*	U = Stainless Steel - Ground*
		C = Alloy Steel - Ground*	* Only available for ISO Screws
		S = Stainless Steel - Rolled	

NOTE: Not all materials/threads are available for all sizes.

FIRST END CONFIGURATION

EZZE-MOUNT™ / End Machining

(see page 214 & 212)

- 1 = Type 1
- 2 = Type 2
- 3 = Type 3
- 4 = Type 4

B = Universal Double Bearing Support End Cap Facing Screw Thread

C = Universal Single Bearing Support

D = Flanged Single Bearing Support Flange Facing Screw Thread

E = Universal Double Bearing Support End Cap Facing Away From Screw Thread

F = Flanged Double Bearing Support Flange Facing Screw Thread

G = Flanged Single Bearing Support Flange Facing Away From Screw Thread

H = Flanged Double Bearing Support Flange Facing Away From Screw Thread

U = Universal Double Bearing Support with Motor Mount (see page 217)

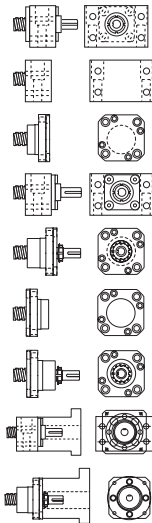
Y = Flanged Double Bearing Support with Motor Mount (see page 218)

00 = No End Machining (Screw will be cut to desired length).
XX = Custom Machining (Print or specified data must be provided).

EK = Universal Double Bearing Support, with Keyway

Shaft Extension
(see page 212)

- K** = Shaft Extension with Keyway
- L** = Shaft Extension without Keyway
- N** = No Shaft Extension



NOTE: Both Ends must be specified.

Single Bearing Supports are used in conjunction with Type 1N end machining.

Double Bearing Supports are used in conjunction with Type 3K, 3L, or 3N end machining.

SECOND END CONFIGURATION

Refer to the First End Configuration section above.

NOTE: Both Ends must be specified.

OVER - ALL - LENGTH (OAL)

Length in mm.

TRAVEL NUT

Nut will be installed with flange or threaded end toward first end designation. 00000 = No Nut

Use standard part number found in the Technical Data Section for Metric ISO Trapezoidal and Speedy™ Screws.

Example:

20904 = 26 x 6 ISO Trapezoidal Nut

ESN-1625-RBN = 16 x 25 Speedy™ Bronze Nut

MODIFIER LIST

F Optional (specify for ISO Trapezoidal screws only)
F = Round Flange

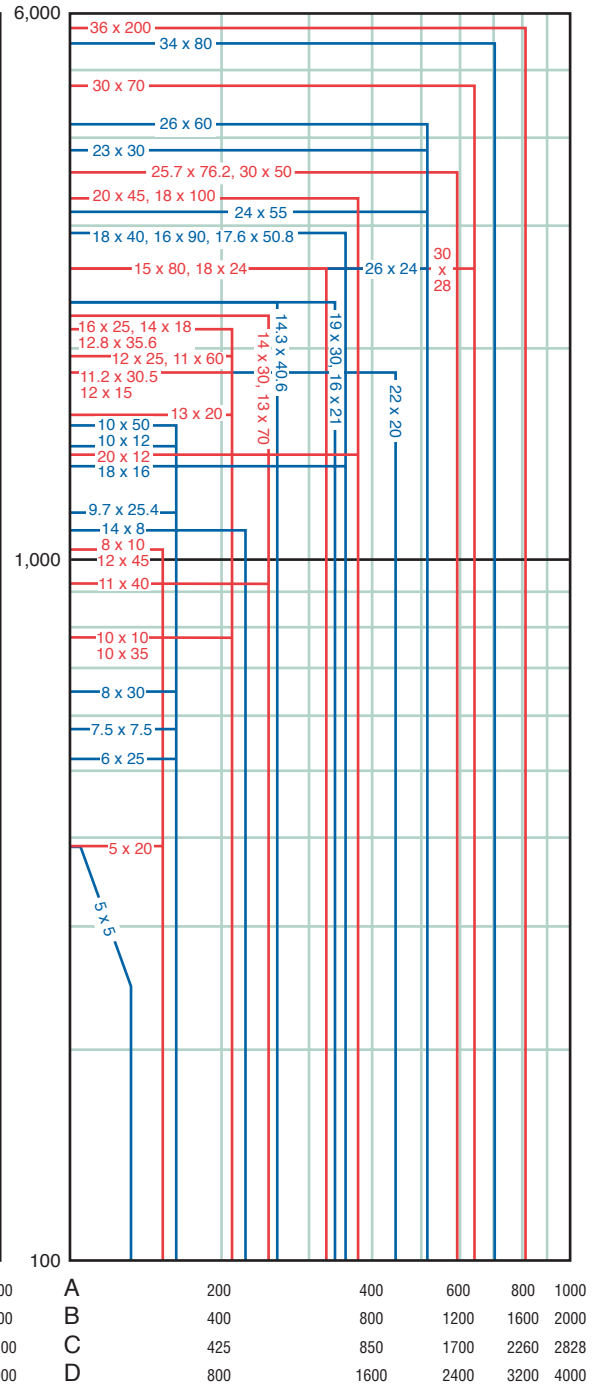
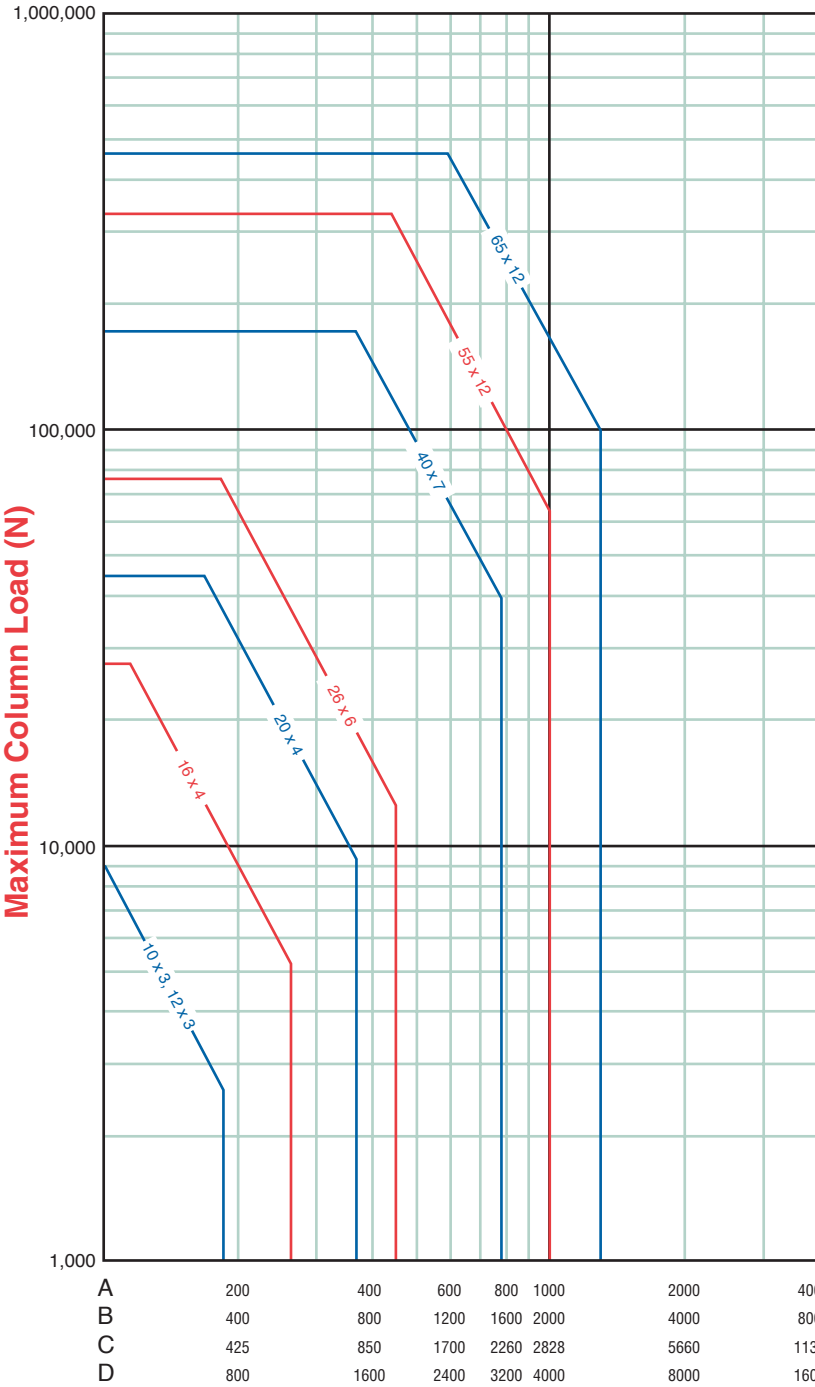
S or M Required
S = Standard. no additional description required **M** = Modified, additional description required



ISO METRIC THREAD

SPEEDY METRIC THREAD

METRIC LEAD SCREW AND NUT TECHNICAL DATA



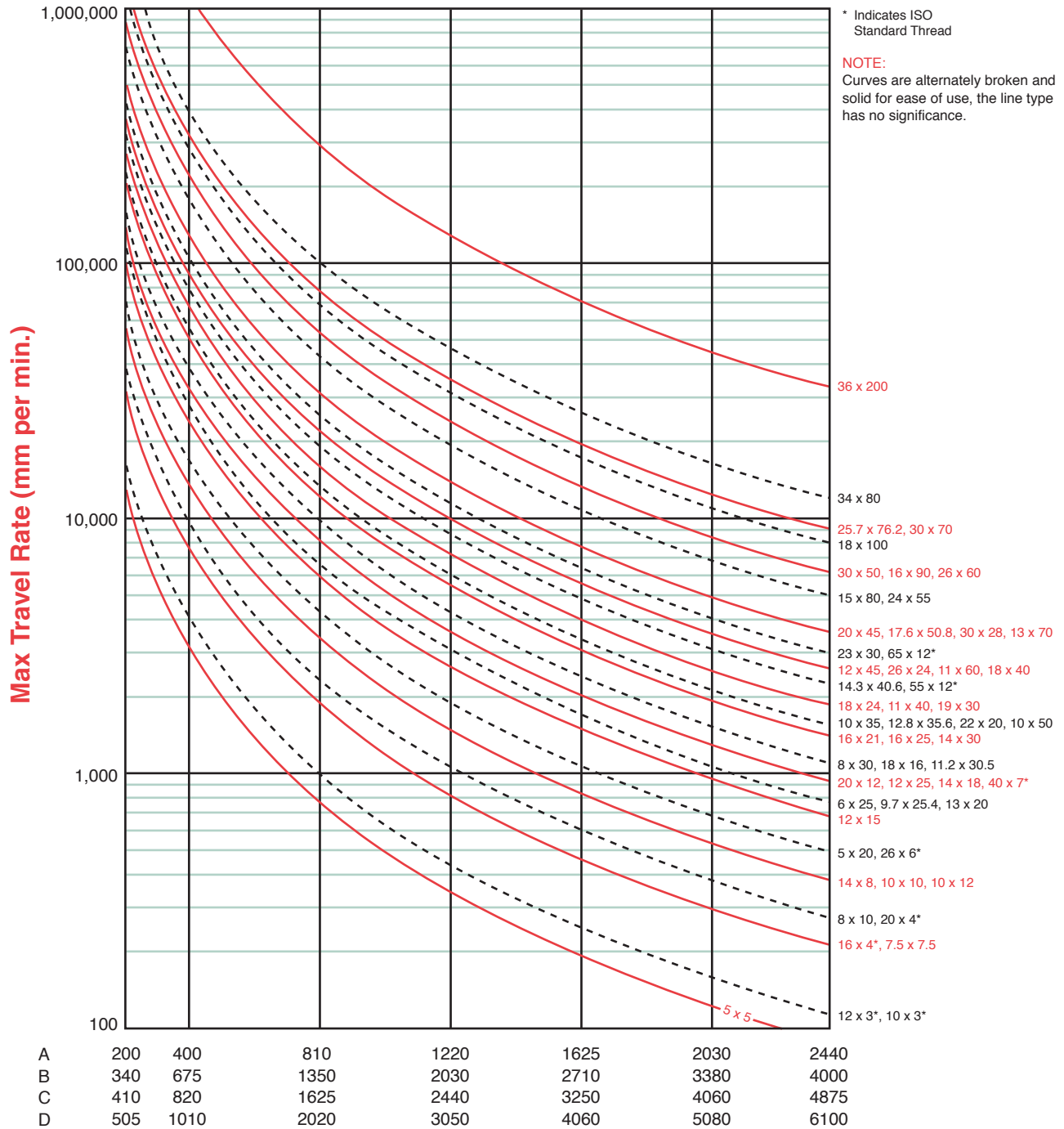
Maximum Length Between Bearings (mm)

NOTE: Metric Screws are limited by both Maximum Static Load and Slenderness Ratio

See Page 6 for Reference Description on "A-B-C-D" end fixity.

Metric to Inch Conversions:

1 Newton = .224 lbf 1mm = 0.039 in. 1 N•m = 8.85 in.-lb.



METRIC LEAD SCREW AND NUT TECHNICAL DATA

NOTE: Maximum Speed is limited to 80% of the calculated critical speed

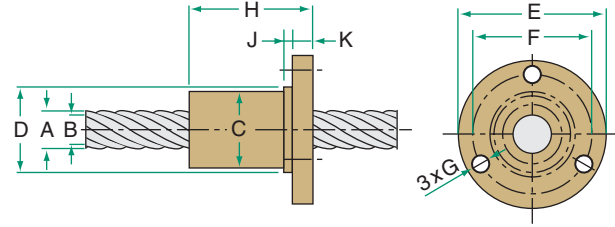
See Page 6 for Reference Description on "A-B-C-D" end fixity.

Metric to Inch Conversions:

1 Newton = .224 lbf 1mm = 0.039 in. 1 N•m = 8.85 in.-lb.

5 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE		
		5x5	5x20	
Diameter - A (mm)		5.4	6.0	
Lead (mm)		5	20	
Pitch (mm)		1.25	1.25	
Starts		4	16	
Weight (kg/m)		.14	.20	
B - root diameter (mm)		3.6	5.0	
Part No. *	RH	Alloy	ESS-0505-RA	ESS-0520-RA
		Stainless	ESS-0505-RS	ESS-0520-RS
	LH	Alloy	—	ESS-0520-LA
		Stainless	—	ESS-0520-LS

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		5x5	5x20
Load Rating (N)		390	390
Efficiency		68.5%	78.4%
Torque to Raise 1 kN (N·m)		1.2	4.1
Weight (g)		80	83
Part No.	RH	ESN-0505-RBN	ESN-0520-RBN
	LH	—	ESN-0520-LBN

PLASTIC NUT		5x5	5x20
Load Rating (N)		300	300
Efficiency		78.2%	86.1%
Torque to Raise 1 kN (N·m)		1.0	3.7
Weight (g)		16	15
Part No.	RH	ESN-0505-RPN	ESN-0520-RPN
	LH	—	ESN-0520-LPN

NUT DIMENSIONS (mm)		5x5	5x20
C Nut Diameter		20.5	20.5
D Pilot Diameter		21	21
E Flange Diameter		38	38
F BCD Mounting Hole		29	29
G Mounting Hole Diameter		4.2	4.2
H Nut Length	Bronze	18	18
	Plastic	25	25
J Pilot Width		3	3
K Flange Width		5	5

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.

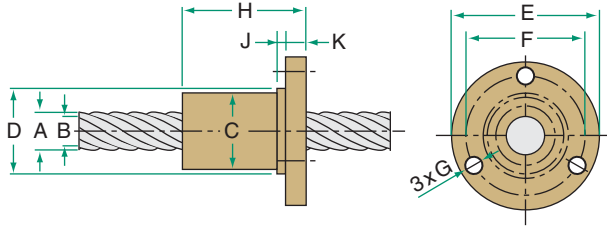


E-100 12 Oz.
Lead Screw
Spray Lubricant



PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.



6 and 7.5 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant



PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE		
		6x25	7.5x7.5	
Diameter - A (mm)		7.4	7.7	
Lead (mm)		25	7.5	
Pitch (mm)		1.25	1.25	
Starts		20	6	
Weight (kg/m)		.30	.31	
B - root diameter (mm)		6.3	5.9	
Part No. *	RH	Alloy	ESS-0625-RA	ESS-0707-RA
		Stainless	ESS-0625-RS	ESS-0707-RS
	LH	Alloy	ESS-0625-LA	—
		Stainless	ESS-0625-LS	—

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		6x25	7.5x7.5
Load Rating (N)		520	585
Efficiency		78.3%	69.4%
Torque to Raise 1 kN (N·m)		5.1	1.7
Weight (g)		77	77
Part No.	RH	ESN-0625-RBN	ESN-0707-RBN
	LH	ESN-0625-LBN	—

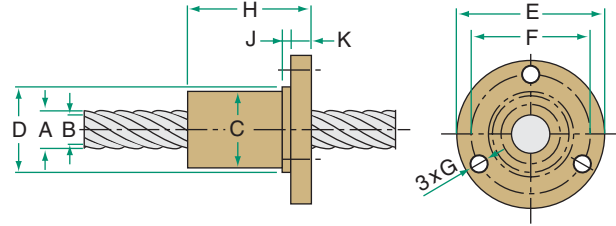
PLASTIC NUT		6x25	7.5x7.5
Load Rating (N)		400	450
Efficiency		86.1%	78.9%
Torque to Raise 1 kN (N·m)		4.6	1.5
Weight (g)		15	15
Part No.	RH	ESN-0625-RPN	ESN-0707-RPN
	LH	ESN-0625-LPN	—

NUT DIMENSIONS (mm)		6x25	7.5x7.5
C Nut Diameter		20.5	20.5
D Pilot Diameter		21	21
E Flange Diameter		38	38
F BCD Mounting Hole		29	29
G Mounting Hole Diameter		4.2	4.2
H Nut Length	Bronze	18	18
	Plastic	25	25
J Pilot Width		3	3
K Flange Width		5	5

METRIC LEAD SCREW AND NUT TECHNICAL DATA

8 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE		
		8x10	8x30	
Diameter - A (mm)		8.2	8.6	
Lead (mm)		10	30	
Pitch (mm)		2.5	1.25	
Starts		4	24	
Weight (kg/m)		.30	.44	
B - root diameter (mm)		5.5	7.5	
Part No. *	RH	Alloy	ESS-0810-RA	ESS-0830-RA
		Stainless	ESS-0810-RS	ESS-0830-RS
	LH	Alloy	—	ESS-0830-LA
		Stainless	—	ESS-0830-LS

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		8x10	8x30
Load Rating (N)		1040	650
Efficiency		72.7%	78.2%
Torque to Raise 1 kN (N·m)		2.2	6.1
Weight (g)		95	74
Part No.	RH	ESN-0810-RBN	ESN-0830-RBN
	LH	—	ESN-0830-LBN

PLASTIC NUT		8x10	8x30
Load Rating (N)		800	500
Efficiency		81.5%	86.0%
Torque to Raise 1 kN (N·m)		2.0	5.8
Weight (g)		95	74
Part No.	RH	ESN-0810-RPN	ESN-0830-RPN
	LH	—	ESN-0830-LPN

NUT DIMENSIONS (mm)		8x10	8x30
C Nut Diameter		23.5	20.5
D Pilot Diameter		24	21
E Flange Diameter		42	38
F BCD Mounting Hole		32	29
G Mounting Hole Diameter		4.2	4.2
H Nut Length	Bronze	18	18
	Plastic	25	25
J Pilot Width		3	3
K Flange Width		5	5

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.

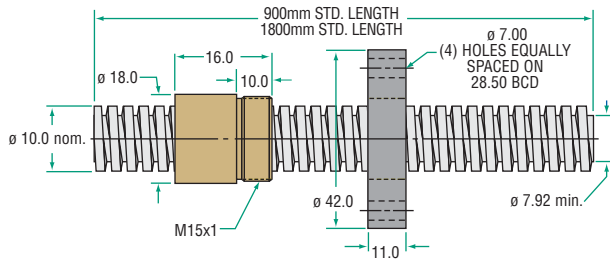


E-100 12 Oz.
Lead Screw
Spray Lubricant



PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.



10mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	3447	11032
PLASTIC NUT	1723	1723

PRODUCT SPECIFICATIONS		SCREW SIZE	
		Tr 10x3(1.5)	
Lead (mm)		3	
Pitch (mm)		1.5	
Starts		2	
Lash (Maximum Axial in mm)		0.13	
Weight (kg/m)		.50	
Thread Code		900	
900mm Standard Length Part No. *	RH	4140	14900
		Stainless	54900
	LH	4140	—
		Stainless	—
1800mm Standard Length Part No. *	RH	4140	15900
		Stainless	55900
	LH	4140	—
		Stainless	—

* Custom Lengths Available - See page 47 to specify length

BRONZ/AC BRONZE NUT		Tr 10x3(1.5)
Efficiency		44%
Torque to Raise 1 kN (N·m)		1.090
Weight (g)		25
Part No.	RH	20900
	LH	—

PLAST/AC PLASTIC NUT		Tr 10x3(1.5)
Efficiency		49%
Torque to Raise 1 kN (N·m)		.966
Weight (g)		4.5
Part No.	RH	30900
	LH	—

FLANGE - STEEL		Tr 10x3(1.5)
Weight (kg)		.09
Part No.		72001

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

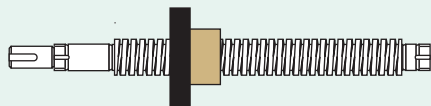


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



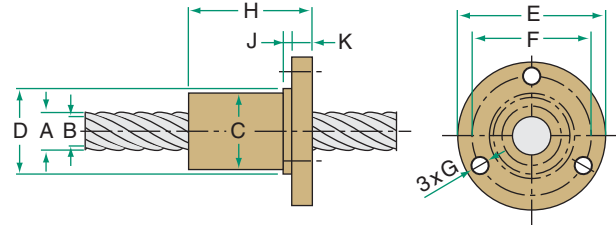
See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA



10 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE				
		10x10	10x12	10x35	10x50	
Diameter - A (mm)		10.0	10.0	10.1	10.0	
Lead (mm)		10	12	35	50	
Pitch (mm)		1.25	2.5	0.36	5	
Starts		8	4	28	10	
Weight (kg/m)		.54	.46	.59	.48	
B - root diameter (mm)		8.2	7.1	8.9	7.4	
Part No. *	RH	Alloy	ESS-1010-RA	ESS-1012-RA	ESS-1035-RA	ESS-1050-RA
		Stainless	ESS-1010-RS	ESS-1012RS	ESS-1035-RS	ESS-1050-RS
	LH	Alloy	—	ESS-1012-LA	ESS-1035-LA	ESS-1050-LS
		Stainless	—	ESS-1012-LS	ESS-1035-LS	ESS-1050-LS

* Custom Lengths Available - See page 47 to specify length

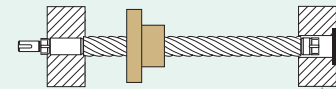
BRONZE NUT		10x10	10x12	10x35	10x50
Load Rating (N)		780	1560	780	1625
Efficiency		69.8%	72.5%	78.2%	75.1%
Torque to Raise 1 kN (N·m)		22.9	2.6	7.1	10.6
Weight (g)		95	100	95	105
Part No.	RH	ESN-1010-RBN	ESN-1012-RBN	ESN-1035-RBN	ESN-1050-RBN
	LH	—	ESN-1012-LBN	ESN-1035-LBN	ESN-1050-LBN

PLASTIC NUT		10x10	10x12	10x35	10x50
Load Rating (N)		600	1250	600	1250
Efficiency		79.2%	81.3%	86.1%	84.2%
Torque to Raise 1 kN (N·m)		2.0	2.3	6.5	9.4
Weight (g)		18	19	19	37
Part No.	RH	ESN-1010-RPN	ESN-1012-RPN	ESN-1035-RPN	ESN-1050-RPN
	LH	—	ESN-1012-LPN	ESN-1035-LPN	ESN-1050-LPN

NUT DIMENSIONS (mm)		10x10	10x12	10x35	10x50
C Nut Diameter		23.5	23.5	23.5	25.5
D Pilot Diameter		24	24	24	26
E Flange Diameter		42	42	42	46
F BCD Mounting Hole		32	32	32	36
G Mounting Hole Diameter		4.2	4.2	4.2	5.1
H Nut Length	Bronze	18	18	18	30
	Plastic	25	25	25	42
J Pilot Width		3	3	3	3
K Flange Width		5	5	5	7

LEAD SCREW ASSEMBLIES

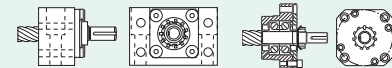
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for:

All 10mm Screws

See page 214 for complete dimensions.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



PAG-1 1 lb. Lead Screw Grease

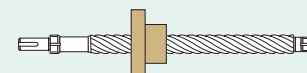


E-100 12 Oz. Lead Screw Spray Lubricant

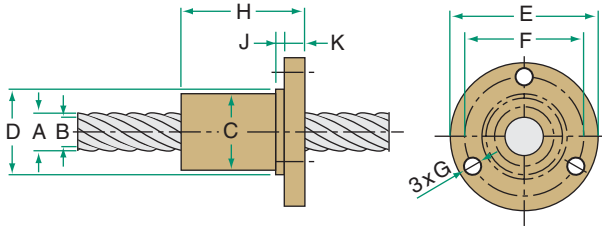
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

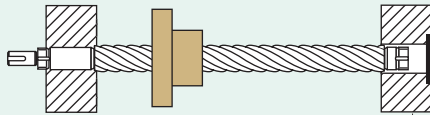


11 and 11.2 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

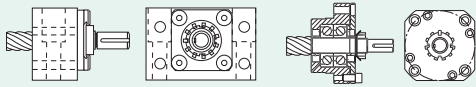
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing Universal Mount Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: 11 and 11.2mm Screws
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

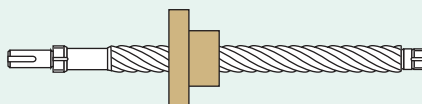


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE			
		11x40	11x60	11.2x30.5	
Diameter - A (mm)		11.5	11.7	11.2	
Lead (mm)		40	60	30.5	
Pitch (mm)		1.25	5	5.08	
Starts		32	12	6	
Weight (kg/m)		.78	.69	.58	
B - root diameter (mm)		10.2	9.1	8.0	
Part No. *	RH	Alloy	ESS-1140-RA	ESS-1160-RA	ESS-1130-RA
		Stainless	ESS-1140-RS	ESS-1160-RS	ESS-1130-RS
	LH	Alloy	ESS-1140-LA	ESS-1160-LA	—
		Stainless	ESS-1140-LS	ESS-1160-LS	—

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		11x40	11x60	11.2x30.5
Load Rating (N)		1040	1950	1820
Efficiency		78.2%	74.8%	78.5%
Torque to Raise 1 kN (N·m)		8.1	13.5	6.2
Weight (g)		95	179	100
Part No.	RH	ESN-1140-RBN	ESN-1160-RBN	ESN-1130-RBN
	LH	ESN-1140-LBN	ESN-1160-LBN	—

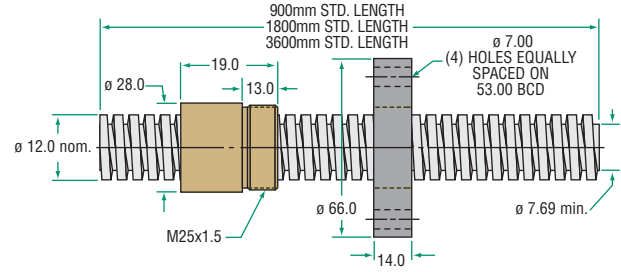
PLASTIC NUT		11x40	11x60	11.2x30.5
Load Rating (N)		800	1500	1400
Efficiency		86.0%	84.0%	86.1%
Torque to Raise 1 kN (N·m)		7.4	11.4	5.6
Weight (g)		18	35	18
Part No.	RH	ESN-1140-RPN	ESN-1160-RPN	ESS-1130-RPN
	LH	ESN-1140-LPN	ESN-1160-LPN	—

NUT DIMENSIONS (mm)		11x40	11x60	11.2x30.5
C Nut Diameter		23.5	25.5	23.5
D Pilot Diameter		24	26	24
E Flange Diameter		42	46	42
F BCD Mounting Hole		32	36	32
G Mounting Hole Diameter		4.2	5.1	4.2
H Nut Length	Bronze	18	30	18
	Plastic	25	42	25
J Pilot Width		3	3	3
K Flange Width		5	7	5



12mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm



LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	4963	15858
PLASTIC NUT	2481	2481

PRODUCT SPECIFICATIONS		SCREW SIZE	
		Tr 12x3	
Lead (mm)		3	
Pitch (mm)		3	
Starts		1	
Lash (Maximum Axial in mm)		0.16	
Weight (kg/m)		.70	
Thread Code		901	
900mm Standard Length Part No. *	RH	4140	14901
	Stainless		54901
1800mm Standard Length Part No. *	LH	4140	—
	Stainless		—
900mm Standard Length Part No. *	RH	4140	15901
	Stainless		55901
1800mm Standard Length Part No. *	LH	4140	—
	Stainless		—

* Custom Lengths Available - See page 47 to specify length

BRONZ/AC BRONZE NUT		Tr 12x3
Efficiency		33%
Torque to Raise 1 kN (N·m)		1.119
Weight (g)		84
Part No.	RH	20901
	LH	—

PLAST/AC PLASTIC NUT		Tr 12x3
Efficiency		48%
Torque to Raise 1 kN (N·m)		.989
Weight (g)		15
Part No.	RH	30901
	LH	—

FLANGE - STEEL		Tr 12x3
Weight (kg)		.31
Part No.		72002

METRIC LEAD SCREW AND NUT TECHNICAL DATA

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

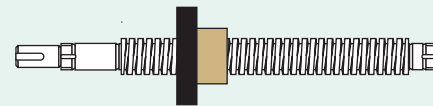


PAG-1 1 lb. Lead Screw Grease

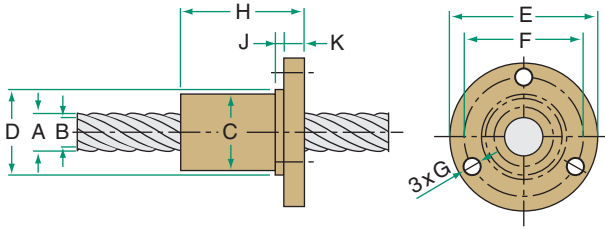
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

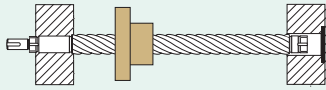


12 and 12.8 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

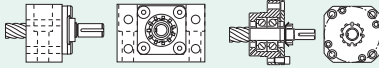
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double
Bearing
Universal Mount

Single or
Double Bearing
Flange Mount

EZZE-MOUNT™ available for:
All 12 and 12.8mm Screws
See page 214 for complete dimensions.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

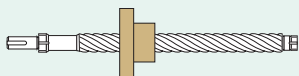
PAG-1 1 lb.
Lead Screw
Grease



See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE				
		12x15	12x25	12x45	12.8x35.6	
Diameter - A (mm)		12.2	11.9	12.8	12.8	
Lead (mm)		15	25	45	35.6	
Pitch (mm)		3	5	1.25	5.08	
Starts		5	5	36	7	
Weight (kg/m)		.72	.63	.98	.79	
B - root diameter (mm)		9.2	8.0	11.4	9.6	
Part No. *	RH	Alloy	ESS-1215-RA	ESS-1225-RA	ESS-1245-RA	ESS-1235-RA
		Stainless	ESS-1215-RS	ESS-1225-RS	ESS-1245-RS	ESS-1235-RS
	LH	Alloy	ESS-1215-LA	ESS-1225-LA	ESS-1245-LA	—
		Stainless	ESS-1215-LS	ESS-1225-LS	ESS-1245-LS	—

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		12x15	12x25	12x45	12.8x35.6
Load Rating (N)		1820	1950	1040	2080
Efficiency		72.8%	77.7%	78.2%	78.5%
Torque to Raise 1 kN (N·m)		3.3	5.1	9.2	7.2
Weight (g)		95	96	90	95
Part No.	RH	ESN-1215-RBN	ESN-1225-RBN	ESN-1245-RBN	ESN-1235-RBN
	LH	ESN-1215-LBN	ESN-0830-LBN	ESN-1245-LBN	—

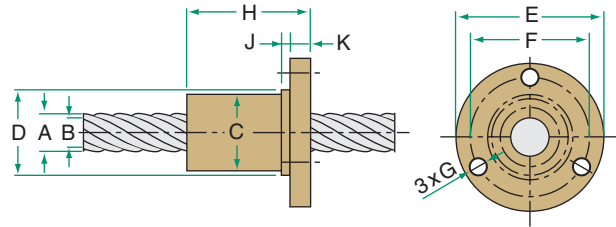
PLASTIC NUT		12x15	12x25	12x45	12.8x35.6
Load Rating (N)		1400	1500	800	1600
Efficiency		81.6%	85.4%	86.0%	86.1%
Torque to Raise 1 kN (N·m)		2.9	4.6	8.3	6.6
Weight (g)		18	18	17	17
Part No.	RH	ESN-1215-RPN	ESN-1225-RPN	ESN-1245-RPN	ESN-1235-RPN
	LH	ESN-1215-LPN	ESN-1225-LPN	ESN-1245-LPN	—

NUT DIMENSIONS (mm)		12x15	12x25	12x45	12.8x35.6
C Nut Diameter		23.5	23.5	23.5	23.5
D Pilot Diameter		24	24	24	24
E Flange Diameter		42	42	42	42
F BCD Mounting Hole		32	32	32	32
G Mounting Hole Diameter		4.2	4.2	4.2	4.2
H Nut Length	Bronze	18	18	18	18
	Plastic	25	25	25	25
J Pilot Width		3	3	3	3
K Flange Width		5	5	5	5



13 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE		
		13x20	13x70	
Diameter - A (mm)		13.3	13.5	
Lead (mm)		20	70	
Pitch (mm)		5	5	
Starts		4	14	
Weight (kg/m)		.75	.94	
B - root diameter (mm)		8.8	10.9	
Part No. *	RH	Alloy	ESS-1320-RA	ESS-1370-RA
		Stainless	ESS-1320-RS	ESS-1370-RS
	LH	Alloy	—	ESS-1370-LA
		Stainless	—	ESS-1370-LS

* Custom Lengths Available - See page 47 to specify length

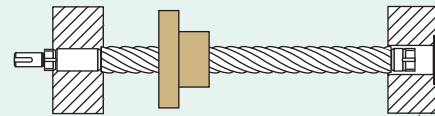
BRONZE NUT		13x20	13x70
Load Rating (N)		1690	2275
Efficiency		75.1%	74.6%
Torque to Raise 1 kN (N·m)		4.2	14.9
Weight (g)		175	170
Part No.	RH	ESN-1320-RBN	ESN-1370-RBN
	LH	—	ESN-1370-LBN

PLASTIC NUT		13x20	13x70
Load Rating (N)		1300	1750
Efficiency		83.3%	83.9%
Torque to Raise 1 kN (N·m)		3.8	13.3
Weight (g)		34	33
Part No.	RH	ESN-1320-RPN	ESN-1370-RPN
	LH	—	ESN-1370-LPN

NUT DIMENSIONS (mm)		13x20	13x70
C Nut Diameter		25.5	25.5
D Pilot Diameter		26	26
E Flange Diameter		46	46
F BCD Mounting Hole		36	36
G Mounting Hole Diameter		5.1	5.1
H Nut Length	Bronze	30	30
	Plastic	42	42
J Pilot Width		3	3
K Flange Width		7	7

LEAD SCREW ASSEMBLIES

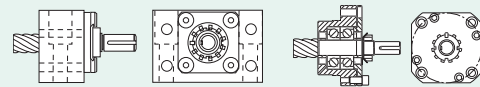
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: all 13mm Screws
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

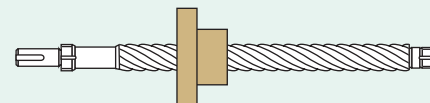


PAG-1 1 lb.
Lead Screw
Grease

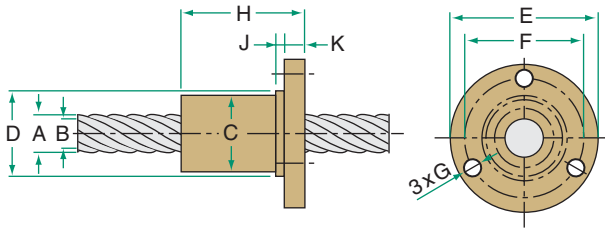
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

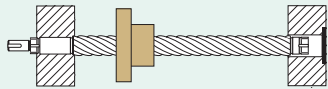


14 and 14.3 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

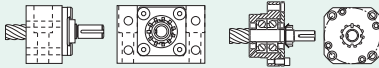
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double
Bearing
Universal Mount

Single or
Double Bearing
Flange Mount

EZZE-MOUNT™ available for:
All 14 and 14.3mm Screws
See page 214 for
complete dimensions.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

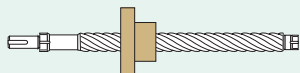
PAG-1 1 lb.
Lead Screw
Grease



See page 14 for
complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete
product details.

PRODUCT SPECIFICATIONS		SCREW SIZE				
		14x8	14x18	14x30	14.3x40.6	
Diameter - A (mm)		14.0	14.3	13.9	14.4	
Lead (mm)		8	18	6	40.6	
Pitch (mm)		4	3	1	5.08	
Starts		2	6	6	8	
Weight (kg/m)		.88	1.04	.92	1.03	
B - root diameter (mm)		9.8	11.4	10.1	11.2	
Part No. *	RH	Alloy	ESS-1408-RA	ESS-1418-RA	ESS-1430-RA	ESS-1440-RA
		Stainless	ESS-1408-RS	ESS-1418-RS	ESS-1430-RS	ESS-1440-RS
	LH	Alloy	—	ESS-1418-LA	—	ESS-1440-LA
		Stainless	—	ESS-1418-LS	—	ESS-1440-LS

* Custom Lengths Available - See page 47 to specify length

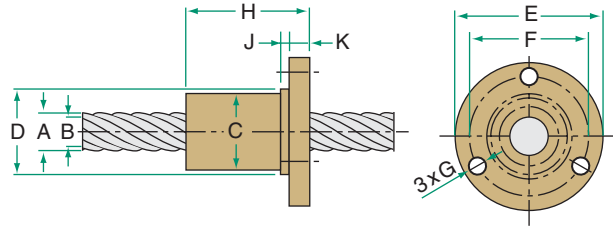
BRONZE NUT		14x8	14x18	14x30	14.3x40.6
Load Rating (N)		1170	2000	2275	2340
Efficiency		58.6%	73.1%	77.9%	78.5%
Torque to Raise 1 kN (N·m)		2.2	3.9	6.1	8.2
Weight (g)		171	167	171	168
Part No.	RH	ESN-1408-RBN	ESN-1418-RBN	ESN-1430-RBN	ESN-1440-RBN
	LH	—	ESN-1418-LBN	—	ESN-1440-LBN

PLASTIC NUT		14x8	14x18	14x30	14.3x40.6
Load Rating (N)		900	1600	1700	1800
Efficiency		69.9%	81.8%	85.5%	86.1%
Torque to Raise 1 kN (N·m)		1.8	3.5	5.6	7.5
Weight (g)		33	32	34	32
Part No.	RH	ESN-1408-RPN	ESN-1418-RPN	ESN-1430-RPN	ESN-1440-RPN
	LH	—	ESN-1418-LPN	—	ESN-1440-LPN

NUT DIMENSIONS (mm)		14x8	14x18	14x30	14.3x40.6
C Nut Diameter		25.5	25.5	25.5	25.5
D Pilot Diameter		26	26	26	26
E Flange Diameter		46	46	46	46
F BCD Mounting Hole		36	36	36	36
G Mounting Hole Diameter		5.1	5.1	5.1	5.1
H Nut Length	Bronze	30	30	30	30
	Plastic	42	42	42	42
J Pilot Width		3	3	3	3
K Flange Width		7	7	7	7

15 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE	
		15x80	
Diameter - A (mm)	15.2		
Lead (mm)	80		
Pitch (mm)	5		
Starts	16		
Weight (kg/m)	1.22		
B - root diameter (mm)	12.6		
Part No. *	RH	Alloy	ESS-1580-RA
		Stainless	ESS-1580-RS
	LH	Alloy	ESS-1580-LA
		Stainless	ESS-1580-LS

* Custom Lengths Available - See page 47 to specify length

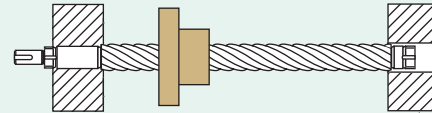
BRONZE NUT		15x80	
Load Rating (N)	2600		
Efficiency	74.4%		
Torque to Raise 1 kN (N·m)	17.1		
Weight (g)	161		
Part No.	RH	ESN-1580-RBN	
	LH	ESN-1580-LBN	

PLASTIC NUT		15x80	
Load Rating (N)	2000		
Efficiency	83.8%		
Torque to Raise 1 kN (N·m)	15.2		
Weight (g)	42		
Part No.	RH	ESN-1580-RPN	
	LH	ESN-1580-LPN	

NUT DIMENSIONS (mm)		15x80	
C Nut Diameter	29.5		
D Pilot Diameter	30		
E Flange Diameter	49		
F BCD Mounting Hole	39		
G Mounting Hole Diameter	5.1		
H Nut Length	Bronze	30	
	Plastic	42	
J Pilot Width	3		
K Flange Width	7		

LEAD SCREW ASSEMBLIES

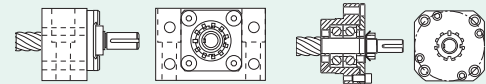
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 15mm Screws

See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

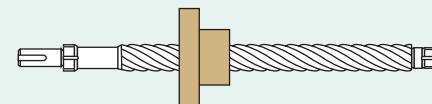


PAG-1 1 lb.
Lead Screw
Grease

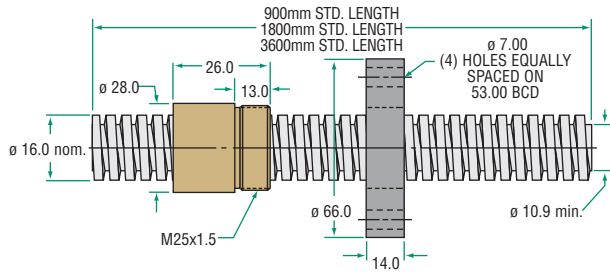
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.



16mm ISO METRIC THREAD

LEAD ACCURACY: $\pm 6.25\mu\text{m}/25\text{mm}$

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	8825	28240
PLASTIC NUT	4412	4412

PRODUCT SPECIFICATIONS		SCREW SIZE	
		Tr 16x4	
Lead (mm)		4	
Pitch (mm)		4	
Starts		1	
Lash (Maximum Axial in mm)		0.24	
Weight (kg/m)		1.21	
Thread Code		902	
900mm Standard Length Part No. *	RH	4140	14902
	Stainless		54902
1800mm Standard Length Part No. *	RH	4140	15902
	Stainless		55902
3600mm Standard Length Part No. *†	RH	4140	16902
	Stainless		56902
	LH	4140	—
	Stainless		—

* Custom Lengths Available - See page 47 to specify length
† Random Mill Length - can vary up to +50.8mm (2") in length

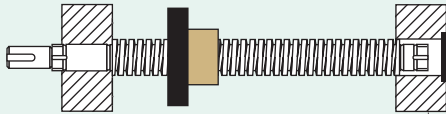
BRONZ/AC BRONZE NUT		Tr 16x4
Efficiency		41%
Torque to Raise 1 kN (N·m)		1.560
Weight (g)		100
Part No.	RH	20902
	LH	—

PLAST/AC PLASTIC NUT		Tr 16x4
Efficiency		46%
Torque to Raise 1 kN (N·m)		1.374
Weight (g)		18
Part No.	RH	30902
	LH	—

FLANGE - STEEL		Tr 16x4
Weight (kg)		.31
Part No.		72002

TRAPEZOIDAL SCREW ASSEMBLIES

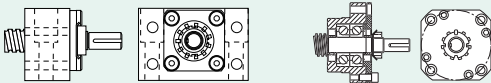
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: Tr 16x4
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant



PAG-1 1 lb.
Lead Screw
Grease

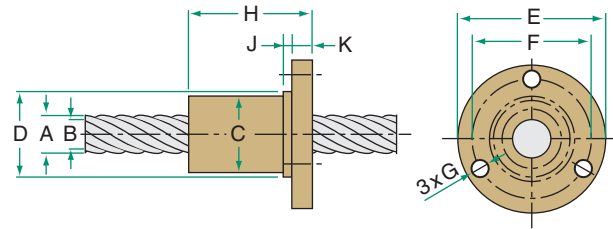
See page 14 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA



16 and 17.6 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE				
		16x21	16x25	16x90	17.6x50.8	
Diameter - A (mm)		16.5	16.0	17.0	17.6	
Lead (mm)		21	25	90	50.8	
Pitch (mm)		3	5	5	5.08	
Starts		7	5	18	10	
Weight (kg/m)		1.42	1.17	1.54	1.61	
B - root diameter (mm)		13.6	11.5	14.3	14.4	
Part No. *	RH	Alloy	ESS-1621-RA	ESS-1625-RA	ESS-1690-RA	ESS-1750-RA
		Stainless	ESS-1621-RS	ESS-1625-RS	ESS-1690-RS	ESS-1750-RS
	LH	Alloy	ESS-1621-LA	—	ESS-1690-LA	—
		Stainless	ESS-1621-LS	—	ESS-1690-LS	—

* Custom Lengths Available - See page 47 to specify length

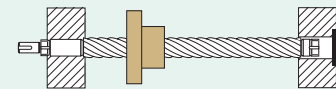
BRONZE NUT		16x21	16x25	16x90	17.6x50.8
Load Rating (N)		2340	2015	2925	2860
Efficiency		73.3%	75.5%	74.3%	78.5%
Torque to Raise 1 kN (N·m)		4.6	5.3	19.3	10.3
Weight (g)		204	213	200	200
Part No.	RH	ESN-1621-RBN	ESN-1625-RBN	ESN-1690-RBN	ESN-1750-RBN
	LH	ESN-1621-LBN	—	ESN-1690-LBN	—

PLASTIC NUT		16x21	16x25	16x90	17.6x50.8
Load Rating (N)		1800	1550	2250	2200
Efficiency		81.9%	83.6%	83.8%	86.1%
Torque to Raise 1 kN (N·m)		4.1	4.7	17.1	9.4
Weight (g)		40	42	39	38
Part No.	RH	ESN-1621-RPN	ESN-1625-RPN	ESN-1690-RPN	ESN-1750-RPN
	LH	ESN-1621-LPN	—	ESN-1690-LPN	—

NUT DIMENSIONS (mm)		16x21	16x25	16x90	17.6x50.8
C Nut Diameter		29.5	29.5	29.5	29.5
D Pilot Diameter		30	30	30	30
E Flange Diameter		49	49	49	49
F BCD Mounting Hole		39	39	39	39
G Mounting Hole Diameter		5.1	5.1	5.1	5.1
H Nut Length	Bronze	30	30	30	30
	Plastic	42	42	42	42
J Pilot Width		3	3	3	3
K Flange Width		7	7	7	7

LEAD SCREW ASSEMBLIES

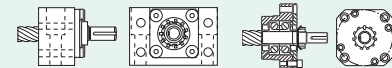
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double Bearing Universal Mount Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for:

All 16 and 17.6mm Screws

See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



PAG-1 1 lb. Lead Screw Grease

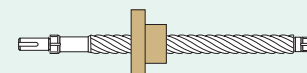


E-100 12 Oz. Lead Screw Spray Lubricant

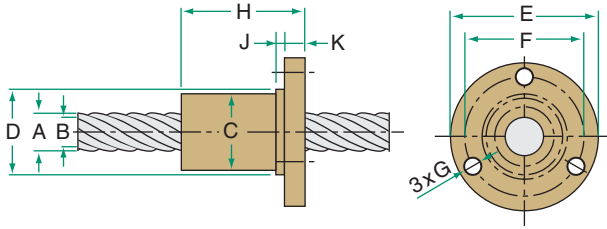
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

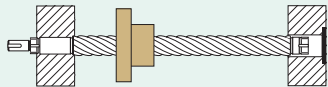


18 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

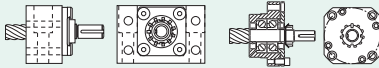
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double
Bearing
Universal Mount

Single or
Double Bearing
Flange Mount

EZZE-MOUNT™ available for:
All 18mm Screws
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



PAG-1 1 lb.
Lead Screw
Grease

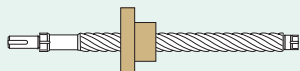
E-100 12 Oz.
Lead Screw
Spray Lubricant



See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE				
		18x16	18x24	18x40	18x100	
Diameter - A (mm)		18.0	18.7	17.9	18.8	
Lead (mm)		16	24	40	100	
Pitch (mm)		4	3	5	5	
Starts		4	8	8	20	
Weight (kg/m)		1.64	1.85	1.60	1.92	
B - root diameter (mm)		14.3	15.7	14.1	16.2	
Part No. *	RH	Alloy	ESS-1816-RA	ESS-1824-RA	ESS-1840-RA	ESS-1810-RA
		Stainless	ESS-1816-RS	ESS-1824-RS	ESS-1840-RS	ESS-1810-RS
	LH	Alloy	—	ESS-1824-LA	ESS-1840-LA	ESS-1810-LA
		Stainless	—	ESS-1824-LS	ESS-1840-LS	ESS-1810-LS

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		18x16	18x24	18x40	18x100
Load Rating (N)		1430	2600	2925	3250
Efficiency		67.6%	73.4%	78.0%	74.3%
Torque to Raise 1 kN (N·m)		3.8	5.2	8.2	21.4
Weight (g)		200	188	194	187
Part No.	RH	ESN-1816-RBN	ESN-1824-RBN	ESN-1840-RBN	ESN-1810-RBN
	LH	—	ESN-1824-LBN	ESN-1840-LBN	ESN-1810-LBN

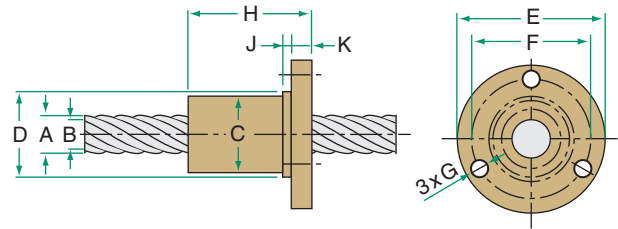
PLASTIC NUT		18x16	18x24	18x40	18x100
Load Rating (N)		1100	2000	2250	2500
Efficiency		77.4%	82.0%	85.6%	83.7%
Torque to Raise 1 kN (N·m)		3.3	4.6	7.4	19.0
Weight (g)		39	37	39	35
Part No.	RH	ESN-1816-RPN	ESN-1824-RPN	ESN-1840-RPN	ESN-1810-RPN
	LH	—	ESN-1824-LPN	ESN-1840-LPN	ESN-1810-LPN

NUT DIMENSIONS (mm)		18x16	18x24	18x40	18x100
C Nut Diameter		29.5	29.5	29.5	29.5
D Pilot Diameter		30	30	30	30
E Flange Diameter		49	49	49	49
F BCD Mounting Hole		39	39	39	39
G Mounting Hole Diameter		5.1	5.1	5.1	5.1
H Nut Length	Bronze	30	30	30	30
	Plastic	42	42	42	42
J Pilot Width		3	3	3	3
K Flange Width		7	7	7	7



19 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS			SCREW SIZE
			19x30
Diameter - A (mm)			18.8
Lead (mm)			30
Pitch (mm)			5
Starts			6
Weight (kg/m)			1.68
B - root diameter (mm)			14.2
Part No. *	RH	Alloy	ESS-1930-RA
		Stainless	ESS-1930-RS
	LH	Alloy	—
		Stainless	—

* Custom Lengths Available - See page 47 to specify length

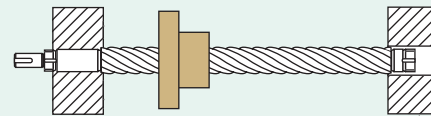
BRONZE NUT			19x30
Load Rating (N)			2340
Efficiency			75.7%
Torque to Raise 1 kN (N·m)			6.3
Weight (g)			194
Part No.	RH	ESN-1930-RBN	
	LH	—	

PLASTIC NUT			19x30
Load Rating (N)			1800
Efficiency			83.8%
Torque to Raise 1 kN (N·m)			5.7
Weight (g)			38
Part No.	RH	ESN-1930-RPN	
	LH	—	

NUT DIMENSIONS (mm)			19x30
C Nut Diameter			29.5
D Pilot Diameter			30
E Flange Diameter			49
F BCD Mounting Hole			39
G Mounting Hole Diameter			5.1
H Nut Length	Bronze	30	
	Plastic	42	
J Pilot Width			3
K Flange Width			7

LEAD SCREW ASSEMBLIES

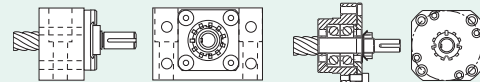
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 19mm Screws
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

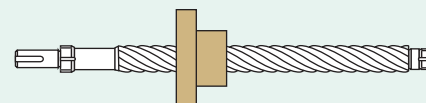


PAG-1 1 lb.
Lead Screw
Grease

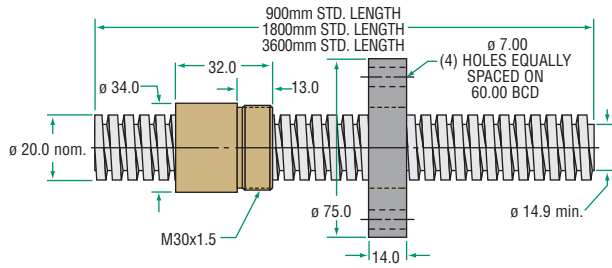
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.

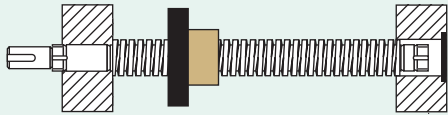


See page 212 for complete product details.



TRAPEZOIDAL SCREW ASSEMBLIES

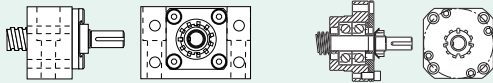
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: Tr 20x4
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

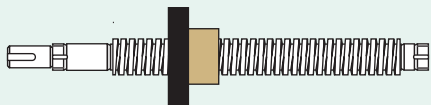


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

20mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	13790	44128
PLASTIC NUT	6895	6895

PRODUCT SPECIFICATIONS		SCREW SIZE	
		Tr 20x4	
Lead (mm)		4	
Pitch (mm)		4	
Starts		1	
Lash (Maximum Axial in mm)		0.24	
Weight (kg/m)		2.00	
Thread Code		903	
900mm Standard Length Part No. *	RH	4140	14903
		Stainless	54903
	LH	4140	—
		Stainless	—
1800mm Standard Length Part No. *	RH	4140	15903
		Stainless	55903
	LH	4140	—
		Stainless	—
3600mm Standard Length Part No. *†	RH	4140	16903
		Stainless	56903
	LH	4140	—
		Stainless	—

* Custom Lengths Available - See page 47 to specify length
† Random Mill Length - can vary up to +50.8mm (2") in length

BRONZ/AC BRONZE NUT		Tr 20x4
Efficiency		35%
Torque to Raise 1 kN (N·m)		1.818
Weight (g)		173
Part No.	RH	20903
	LH	—

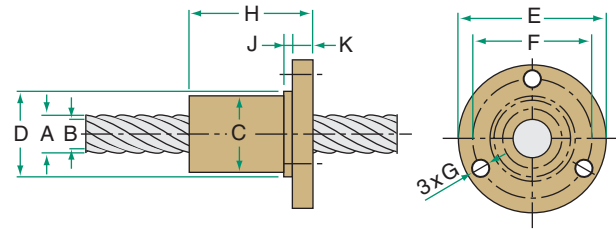
PLAST/AC PLASTIC NUT		Tr 20x4
Efficiency		40%
Torque to Raise 1 kN (N·m)		1.580
Weight (g)		31
Part No.	RH	30903
	LH	—

FLANGE - STEEL		Tr 20x4
Weight (kg)		.39
Part No.		72003



20 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE		
		20x12	20x45	
Diameter - A (mm)		20.0	20.0	
Lead (mm)		12	45	
Pitch (mm)		4	5	
Starts		3	9	
Weight (kg/m)		2.00	2.03	
B - root diameter (mm)		15.8	16.1	
Part No. *	RH	Alloy	ESS-2012-RA	ESS-2045-RA
		Stainless	ESS-2012-RS	ESS-2045-RS
	LH	Alloy	—	—
		Stainless	—	—

* Custom Lengths Available - See page 47 to specify length

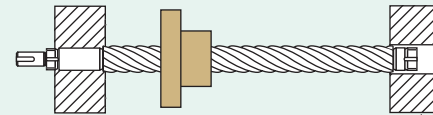
BRONZE NUT		20x12	20x45
Load Rating (N)		1530	2500
Efficiency		59.7%	78.0%
Torque to Raise 1 kN (N·m)		3.2	9.2
Weight (g)		324	324
Part No.	RH	ESN-2012-RBN	ESN-2045-RBN
	LH	—	—

PLASTIC NUT		20x12	20x45
Load Rating (N)		1200	3250
Efficiency		70.8%	85.7%
Torque to Raise 1 kN (N·m)		2.7	8.4
Weight (g)		65	65
Part No.	RH	ESN-2012-RPN	ESN-2045-RPN
	LH	—	—

NUT DIMENSIONS (mm)		20x12	20x45
C Nut Diameter		35.5	35.5
D Pilot Diameter		36	36
E Flange Diameter		59	59
F BCD Mounting Hole		47	47
G Mounting Hole Diameter		6.2	6.2
H Nut Length	Bronze	32	32
	Plastic	46	46
J Pilot Width		5	5
K Flange Width		8	8

LEAD SCREW ASSEMBLIES

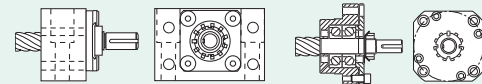
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: All 20mm Screws

See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

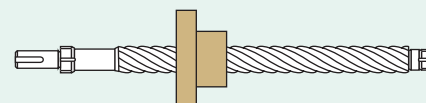


PAG-1 1 lb.
Lead Screw
Grease

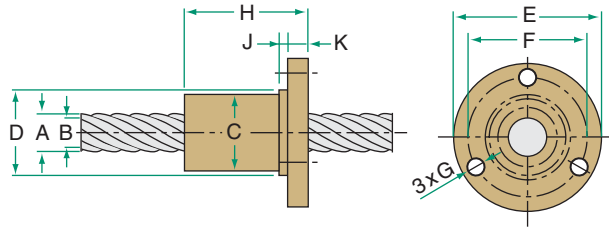
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

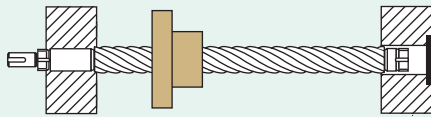


22 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

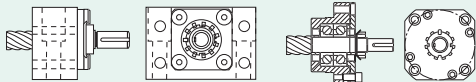
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 22mm Screws
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

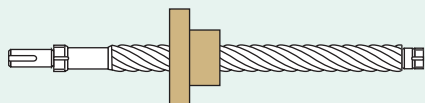


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE	
		22x20	
Diameter - A (mm)		22.0	
Lead (mm)		20	
Pitch (mm)		4	
Starts		5	
Weight (kg/m)		2.56	
B - root diameter (mm)		18.3	
Part No. *	RH	Alloy	ESS-2220-RA
		Stainless	ESS-2220-RS
	LH	Alloy	—
		Stainless	—

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		22x20
Load Rating (N)		1820
Efficiency		68.0%
Torque to Raise 1 kN (N·m)		4.7
Weight (g)		298
Part No.	RH	ESN-2220-RBN
	LH	—

PLASTIC NUT		22x20
Load Rating (N)		1400
Efficiency		77.7%
Torque to Raise 1 kN (N·m)		4.1
Weight (g)		61
Part No.	RH	ESN-2220-RPN
	LH	—

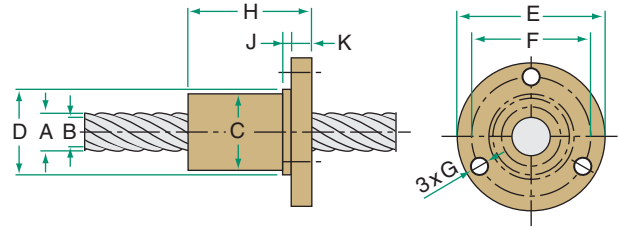
NUT DIMENSIONS (mm)		22x20	
C	Nut Diameter	35.5	
D	Pilot Diameter	36	
E	Flange Diameter	59	
F	BCD Mounting Hole	47	
G	Mounting Hole Diameter	6.2	
H	Nut Length	Bronze	32
		Plastic	46
J	Pilot Width	5	
K	Flange Width	8	

METRIC LEAD SCREW AND NUT TECHNICAL DATA



23 and 24 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



PRODUCT SPECIFICATIONS		SCREW SIZE		
		23x30	24x55	
Diameter - A (mm)		23.0	24.0	
Lead (mm)		30	55	
Pitch (mm)		3	5	
Starts		10	11	
Weight (kg/m)		2.89	3.03	
B - root diameter (mm)		20.0	20.1	
Part No. *	RH	Alloy	ESS-2330-RA	ESS-2455-RA
		Stainless	ESS-2330-RS	ESS-2455-RS
	LH	Alloy	ESS-2330-LA	—
		Stainless	ESS-2330-LS	—

* Custom Lengths Available - See page 47 to specify length

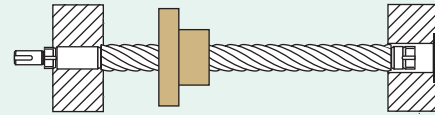
BRONZE NUT		23x30	24x55
Load Rating (N)		3120	3900
Efficiency		73.6%	78.1%
Torque to Raise 1 kN (N·m)		6.5	11.2
Weight (g)		293	200
Part No.	RH	ESN-2330-RBN	ESN-2455-RBN
	LH	ESN-2330-LBN	—

PLASTIC NUT		23x30	24x55
Load Rating (N)		2400	3000
Efficiency		82.2%	85.7%
Torque to Raise 1 kN (N·m)		5.8	10.2
Weight (g)		58	58
Part No.	RH	ESN-2330-RPN	ESN-2455-RPN
	LH	ESN-2330-LPN	—

NUT DIMENSIONS (mm)		23x30	24x55
C Nut Diameter		35.5	35.5
D Pilot Diameter		36	36
E Flange Diameter		59	59
F BCD Mounting Hole		47	47
G Mounting Hole Diameter		6.2	6.2
H Nut Length	Bronze	32	32
	Plastic	46	46
J Pilot Width		5	5
K Flange Width		8	8

LEAD SCREW ASSEMBLIES

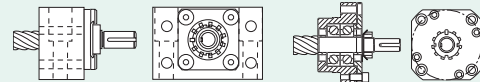
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 23 and 24mm Screws

See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

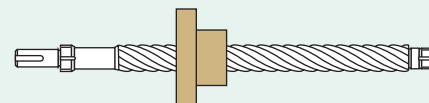


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

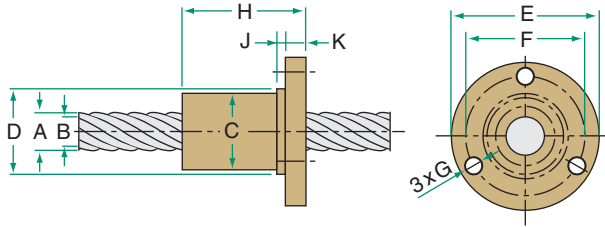
END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA

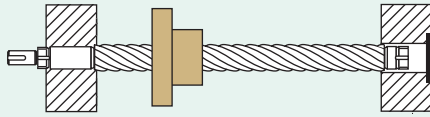


25.7 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

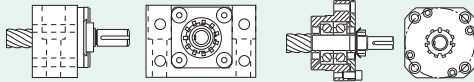
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 25.7mm Screw
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

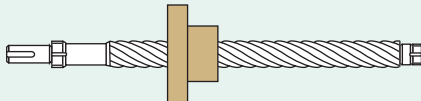


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE	
		25.7x76.2	
Diameter - A (mm)		25.7	
Lead (mm)		76.2	
Pitch (mm)		5.08	
Starts		15	
Weight (kg/m)		3.61	
B - root diameter (mm)		24.0	
Part No. *	RH	Alloy	ESS-2576-RA
		Stainless	ESS-2576-RS
	LH	Alloy	ESS-2576-LA
		Stainless	ESS-2576-LS

* Custom Lengths Available - See page 47 to specify length

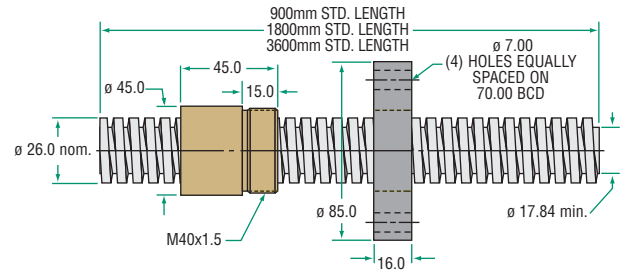
BRONZE NUT		25.7x76.2	
Load Rating (N)		3640	
Efficiency		78.5%	
Torque to Raise 1 kN (N·m)		15.4	
Weight (g)		401	
Part No.	RH	ESN-2576-RBN	
	LH	ESN-2576-LBN	

PLASTIC NUT		25.7x76.2	
Load Rating (N)		2800	
Efficiency		86.1%	
Torque to Raise 1 kN (N·m)		14.1	
Weight (g)		81	
Part No.	RH	ESN-2576-RPN	
	LH	ESN-2576-LPN	

NUT DIMENSIONS (mm)		25.7x76.2	
C Nut Diameter		41.5	
D Pilot Diameter		42	
E Flange Diameter		64	
F BCD Mounting Hole		53	
G Mounting Hole Diameter		6.2	
H Nut Length	Bronze	35	
	Plastic	50	
J Pilot Width		5	
K Flange Width		8	

26mm ISO METRIC THREAD

LEAD ACCURACY: $\pm 6.25\mu\text{m}/25\text{mm}$



LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	23304	74573
PLASTIC NUT	11652	11652

PRODUCT SPECIFICATIONS		SCREW SIZE	
		Tr 26x6	
Lead (mm)		6	
Pitch (mm)		6	
Starts		1	
Lash (Maximum Axial in mm)		0.30	
Weight (kg/m)		3.2	
Thread Code		904	
900mm Standard Length Part No. *	RH	4140	14904
	Stainless		54904
1800mm Standard Length Part No. *	RH	4140	15904
	Stainless		55904
3600mm Standard Length Part No. *†	RH	4140	16904
	Stainless		56904

* Custom Lengths Available - See page 47 to specify length
† Random Mill Length - can vary up to +50.8mm (2") in length

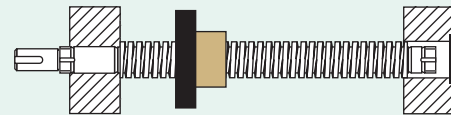
BRONZ/AC BRONZE NUT		Tr 26x6
Efficiency		39%
Torque to Raise 1 kN (N·m)		2.469
Weight (g)		440
Part No.	RH	20904
	LH	—

PLAST/AC PLASTIC NUT		Tr 26x6
Efficiency		44%
Torque to Raise 1 kN (N·m)		2.164
Weight (g)		79
Part No.	RH	30904
	LH	—

FLANGE - STEEL		Tr 26x6
Weight (kg)		.54
Part No.		72004

TRAPEZOIDAL SCREW ASSEMBLIES

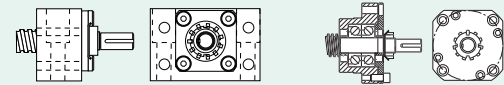
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: Tr 26x6
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

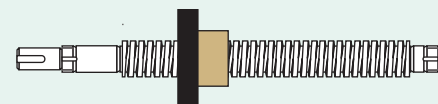


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

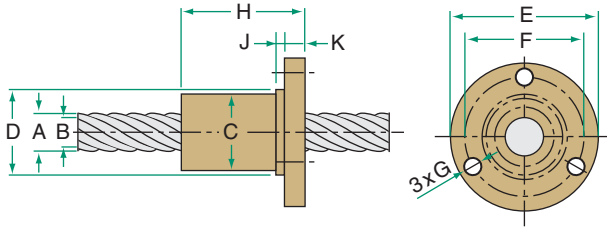
END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA

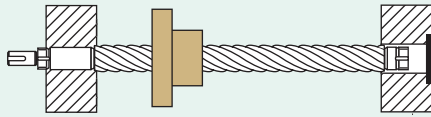


26 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

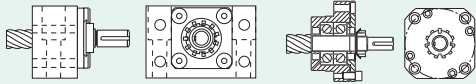
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: All 26mm Screws
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

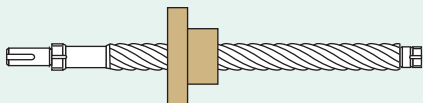


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE		
		26x24	26x60	
Diameter - A (mm)		26.0	26.0	
Lead (mm)		24	60	
Pitch (mm)		4	5	
Starts		6	12	
Weight (kg/m)		3.69	3.61	
B - root diameter (mm)		22.3	22.2	
Part No. *	RH	Alloy	ESS-2624-RA	ESS-2660-RA
		Stainless	ESS-2624-RS	ESS-2660-RS
	LH	Alloy	—	—
		Stainless	—	—

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		26x24	26x60
Load Rating (N)		2600	4225
Efficiency		68.3%	78.1%
Torque to Raise 1 kN (N·m)		5.6	12.2
Weight (g)		410	401
Part No.	RH	ESN-2624-RBN	ESN-2660-RBN
	LH	—	—

PLASTIC NUT		26x24	26x60
Load Rating (N)		2000	3250
Efficiency		78.0%	85.7%
Torque to Raise 1 kN (N·m)		4.9	11.1
Weight (g)		80	81
Part No.	RH	ESN-2624-RPN	ESN-2660-RPN
	LH	—	—

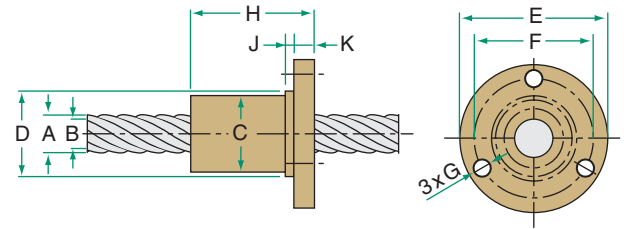
NUT DIMENSIONS (mm)		26x24	26x60
C Nut Diameter		41.5	41.5
D Pilot Diameter		42	42
E Flange Diameter		64	64
F BCD Mounting Hole		53	53
G Mounting Hole Diameter		6.2	6.2
H Nut Length	Bronze	35	35
	Plastic	50	50
J Pilot Width		5	5
K Flange Width		8	8

METRIC LEAD SCREW AND NUT TECHNICAL DATA



30 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE			
		30x28	30x50	30x70	
Diameter - A (mm)		30.0	29.8	30.0	
Lead (mm)		28	50	70	
Pitch (mm)		4	5	5	
Starts		7	10	14	
Weight (kg/m)		5.01	4.68	4.92	
B - root diameter (mm)		26.5	25.3	26.2	
Part No.*	RH	Alloy	ESS-3028-RA	ESS-3050-RA	ESS-3070-RA
		Stainless	ESS-3028-RS	ESS-3050-RS	ESS-3070-RS
	LH	Alloy	—	—	—
		Stainless	—	—	—

* Custom Lengths Available - See page 47 to specify length

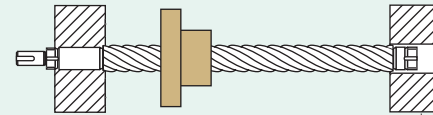
BRONZE NUT		30x28	30x50	30x70
Load Rating (N)		2600	3640	4875
Efficiency		68.4%	76.1%	78.2%
Torque to Raise 1 kN (N·m)		6.5	10.5	14.2
Weight (g)		347	357	347
Part No.	RH	ESN-3028-RBN	ESN-3050-RBN	ESN-3070-RBN
	LH	—	—	—

PLASTIC NUT		30x28	30x50	30x70
Load Rating (N)		2000	2800	3750
Efficiency		78.1%	84.2%	85.8%
Torque to Raise 1 kN (N·m)		5.7	9.4	13.0
Weight (g)		68	72	70
Part No.	RH	ESN-3028-RPN	ESN-3050-RPN	ESN-3070-RPN
	LH	—	—	—

NUT DIMENSIONS (mm)		30x28	30x50	30x70
C Nut Diameter		41.5	41.5	41.5
D Pilot Diameter		42	42	42
E Flange Diameter		64	64	64
F BCD Mounting Hole		53	53	53
G Mounting Hole Diameter		6.2	6.2	6.2
H Nut Length	Bronze	35	35	35
	Plastic	50	50	50
J Pilot Width		5	5	5
K Flange Width		8	8	8

LEAD SCREW ASSEMBLIES

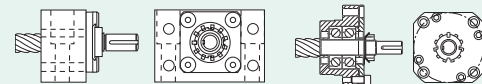
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: All 30mm Screws

See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

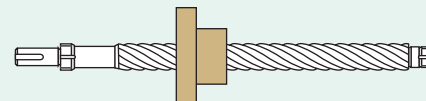


PAG-1 1 lb.
Lead Screw
Grease

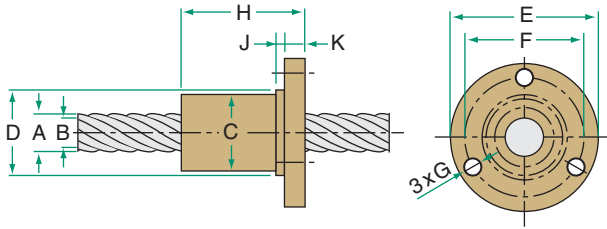
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

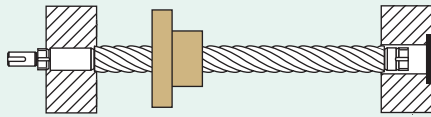


34 and 36 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

LEAD SCREW ASSEMBLIES

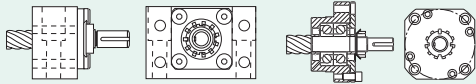
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: 34 and 36mm Screws

See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

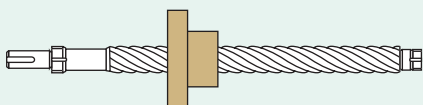


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS		SCREW SIZE		
		34x80	36x200	
Diameter - A (mm)		34.0	36.0	
Lead (mm)		80	200	
Pitch (mm)		5	5	
Starts		16	40	
Weight (kg/m)		6.42	7.55	
B - root diameter (mm)		30.2	32.4	
Part No.*	RH	Alloy	ESS-3480-RA	ESS-3620-RA
		Stainless	ESS-3480-RS	ESS-3620-RS
	LH	Alloy	—	—
		Stainless	—	—

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT		34x80	36x200
Load Rating (N)		5525	5850
Efficiency		78.2%	73.6%
Torque to Raise 1 kN (N·m)		16.3	43.2
Weight (g)		810	750
Part No.	RH	ESN-3480-RBN	ESN-3620-RBN
	LH	—	—

PLASTIC NUT		34x80	36x200
Load Rating (N)		4250	4500
Efficiency		85.8%	83.3%
Torque to Raise 1 kN (N·m)		14.8	38.2
Weight (g)		154	140
Part No.	RH	ESN-3480-RPN	ESN-3620-RPN
	LH	—	—

NUT DIMENSIONS (mm)		34x80	36x200
C Nut Diameter		49.5	49.5
D Pilot Diameter		50	50
E Flange Diameter		80	80
F BCD Mounting Hole		65	65
G Mounting Hole Diameter		9.0	9.0
H Nut Length	Bronze	50	50
	Plastic	70	70
J Pilot Width		10	10
K Flange Width		12	12

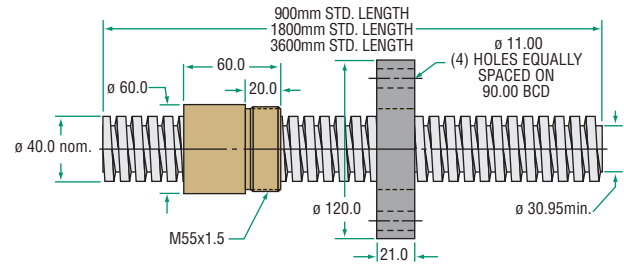
METRIC LEAD SCREW AND NUT TECHNICAL DATA



40mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	55160	176512



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS		SCREW SIZE	
		Tr 40x7	
Lead (mm)		7	
Pitch (mm)		7	
Starts		1	
Lash (Maximum Axial in mm)		0.32	
Weight (kg/m)		8.16	
Thread Code		905	
900mm Standard Length Part No. *	RH	4140	14905
	Stainless		54905
1800mm Standard Length Part No. *	RH	4140	15905
	Stainless		55905
3600mm Standard Length Part No. †	RH	4140	16905
	Stainless		56905

* Custom Lengths Available - See page 47 to specify length
 † Random Mill Length - can vary up to +50.8mm (2") in length

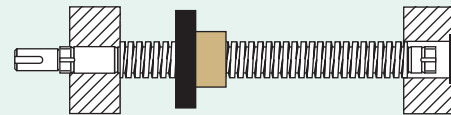
BRONZ/AC BRONZE NUT		Tr 40x7
Efficiency		32%
Torque to Raise 1 kN (N·m)		3.503
Weight (g)		900
Part No.	RH	20905
	LH	—

PLAST/AC PLASTIC NUT		Tr 40x7
Efficiency		37%
Torque to Raise 1 kN (N·m)		3.022
Weight (g)		160
Part No.	RH	30905
	LH	—

FLANGE - STEEL		Tr 40x7
Weight (kg)		1.4
Part No.		72005

TRAPEZOIDAL SCREW ASSEMBLIES

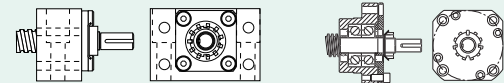
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: Tr 26x6
 See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

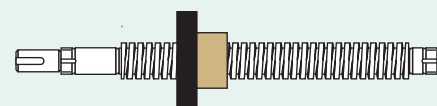


PAG-1 1 lb. Lead Screw Grease

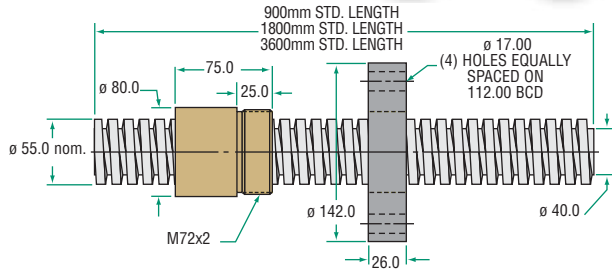
See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.



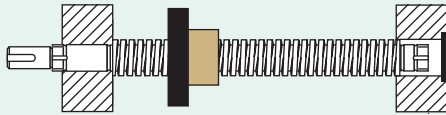
55mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	104287	333718

TRAPEZOIDAL SCREW ASSEMBLIES

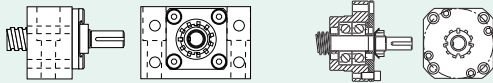
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing
Universal Mount

Single or Double Bearing
Flange Mount

EZZE-MOUNT™ available for: Tr 55x12
See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.
Lead Screw
Spray Lubricant

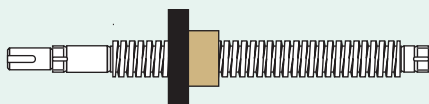


PAG-1 1 lb.
Lead Screw
Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

PRODUCT SPECIFICATIONS			SCREW SIZE
			Tr 55x12
Lead (mm)			12
Pitch (mm)			12
Starts			1
Lash (Maximum Axial in mm)			0.42
Weight (kg/m)			14.7
Thread Code			906
900mm Standard Length Part No. *	RH	4140	14906
	Stainless		—
1800mm Standard Length Part No. *	RH	4140	15906
	Stainless		—
3600mm Standard Length Part No. *†	RH	4140	16906
	Stainless		—
	LH	4140	—
	Stainless		—

* Custom Lengths Available - See page 47 to specify length
† Random Mill Length - can vary up to +50.8mm (2") in length

BRONZ/AC BRONZE NUT		Tr 55x12
Efficiency		37%
Torque to Raise 1 kN (N·m)		5.131
Weight (g)		1900
Part No.	RH	20906
	LH	—

FLANGE - STEEL		Tr 55x12
Weight (kg)		2.2
Part No.		72006

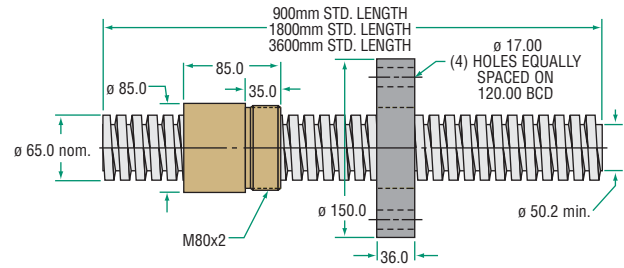
METRIC LEAD SCREW AND NUT TECHNICAL DATA



65mm ISO METRIC THREAD

LEAD ACCURACY: $\pm 6.25\mu\text{m}/25\text{mm}$

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	145651	466084



METRIC LEAD SCREW AND NUT TECHNICAL DATA

PRODUCT SPECIFICATIONS			SCREW SIZE	
			Tr 65x12	
Lead (mm)			12	
Pitch (mm)			12	
Starts			1	
Lash (Maximum Axial in mm)			0.42	
Weight (kg/m)			21.3	
Thread Code			907	
900mm Standard Length Part No. *	RH	4140	14907	
		Stainless	—	
1800mm Standard Length Part No. *	RH	4140	15907	
		Stainless	—	
3600mm Standard Length Part No. †	RH	4140	16907	
		Stainless	—	

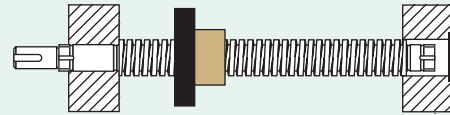
* Custom Lengths Available - See page 47 to specify length
 † Random Mill Length - can vary up to +50.8mm (2") in length

BRONZ/AC BRONZE NUT		Tr 65x12
Efficiency		33%
Torque to Raise 1 kN (N·m)		5.775
Weight (g)		2100
Part No.	RH	20907
	LH	—

FLANGE - STEEL		Tr 65x12
Weight (kg)		3.3
Part No.		72007

TRAPEZOIDAL SCREW ASSEMBLIES

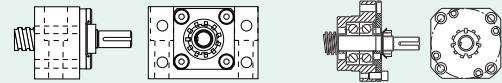
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: Tr 65x12
 See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

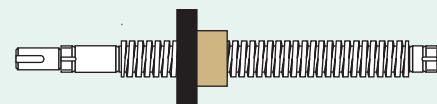


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

SCREW SIZES					NUT SELECTION							Page Ref
					BRONZE			PLASTIC				
SIZE	Pitch (mm)	Lead (mm)	Starts	Root Dia. (mm)	Dynamic Load Rating (N)	Torque To Raise 1 kN (N-m)	Efficiency %	Dynamic Load Rating (N)	Torque To Raise 1 kN (N-m)	Efficiency %		
5 x 5	1.25	5	4	3.6	390	1.2	68.5	300	1.0	78.2	50	
5 x 20	1.25	20	16	5.0	390	4.1	78.4	300	3.7	86.1	50	
6 x 25	1.25	25	20	6.3	520	5.1	78.3	400	4.6	86.1	51	
7.5 x 7.5	1.25	7.5	6	5.9	585	1.7	69.4	450	1.5	78.9	51	
8 x 10	2.5	10	4	5.5	1040	2.2	95	800	2.0	81.5	52	
8 x 30	1.25	30	24	7.5	650	6.1	74	500	5.8	86.0	52	
Tr 10 x 3(1.5)	1.5	3	2	7.92	3447	1.090	44	1723	.966	49	53	
10 x 10	1.25	10	8	8.2	780	22.9	69.8	600	2.0	79.2	54	
10 x 12	3	12	4	7.1	1560	2.6	72.5	1250	2.3	81.3	54	
10 x 35	1.25	35	28	8.9	780	7.1	78.2	600	6.5	86.1	54	
10 x 50	5	50	10	7.4	1625	10.6	75.1	1250	9.4	84.2	54	
11 x 40	1.25	40	32	10.2	1040	8.1	78.2	800	7.4	86.0	55	
11 x 60	5	60	12	9.1	1950	13.5	74.8	1500	11.4	84.0	55	
11.2 x 30.5	5.08	30.5	6	8.0	1820	6.2	78.5	1400	5.6	86.1	55	
Tr 12 x 3	3	3	1	7.69	4963	1.119	33	2481	.989	48	56	
12 x 15	3	15	5	9.2	1820	3.3	72.8	1400	3.3	72.8	57	
12 x 25	5	25	5	8.0	1950	5.1	77.7	1500	5.1	77.7	57	
12 x 45	1.25	45	36	11.4	1040	9.2	78.2	800	9.2	78.2	57	
12.8 x 35.6	5.08	35.6	7	9.6	2080	7.2	78.5	1600	7.2	78.5	57	
13 x 20	5	20	4	8.8	1690	4.2	75.1	1300	3.8	83.3	58	
13 x 70	5	70	14	10.9	2275	14.9	74.6	1750	13.3	83.9	58	
14 x 8	4	8	2	9.8	1170	2.2	58.6	900	1.8	69.9	59	
14 x 18	3	18	6	11.4	2080	3.9	73.1	1600	3.5	81.8	59	
14 x 30	1	6	6	10.1	2275	6.1	77.9	1750	5.6	85.5	59	
14.3 x 40.6	5.08	40.6	8	11.2	2340	8.2	78.5	1800	7.5	86.1	59	
15 x 80	5	80	16	12.6	2600	17.1	74.4	2000	15.2	83.8	60	
Tr 16 x 4	4	4	1	10.90	8825	1.560	41	4412	1.374	46	61	

METRIC LEAD SCREW AND NUT TECHNICAL DATA

CONTINUED ON NEXT PAGE



CONTINUED FROM PREVIOUS PAGE

SCREW SIZES					NUT SELECTION						
					BRONZE			PLASTIC			
SIZE	Pitch (mm)	Lead (mm)	Starts	Root Dia. (mm)	Dynamic Load Rating (N)	Torque To Raise 1 kN (N-m)	Efficiency %	Dynamic Load Rating (N)	Torque To Raise 1 kN (N-m)	Efficiency %	Page Ref
16 x 21	3	21	7	13.6	2340	4.6	73.3	1800	4.1	81.9	62
16 x 25	5	25	5	11.5	2015	5.3	75.5	1550	4.7	83.6	62
16 x 90	5	90	18	14.3	2925	19.3	74.3	2250	17.1	83.8	62
17.6 x 50.8	5.08	50.8	10	14.4	2860	10.3	78.5	2200	9.4	86.1	62
18 x 16	4	16	4	14.3	1430	3.8	67.6	1100	3.3	77.4	63
18 x 24	3	24	8	15.7	2600	5.2	73.4	2000	4.6	82.0	63
18 x 40	5	40	8	14.1	2925	8.2	78.0	2250	7.4	85.6	63
18 x 100	5	100	20	16.2	3250	21.4	74.3	2500	19.0	83.7	63
19 x 30	5	30	6	14.2	2340	6.3	75.7	1800	5.7	83.8	64
Tr 20 x 4	4	4	1	14.9	13790	1.818	35	6895	1.580	40	65
20 x 12	4	12	3	15.8	1530	3.2	59.7	1200	2.7	70.8	66
20 x 45	5	45	9	16.1	2500	9.2	78.0	3250	8.4	85.7	66
22 x 20	4	20	5	18.3	1820	4.7	68.0	1400	4.1	77.7	67
23 x 30	3	30	10	20.0	3120	6.5	73.6	2400	5.8	82.2	68
24 x 55	5	55	11	20.1	3900	11.2	78.1	3000	10.2	85.7	68
25.7 x 76.2	5.08	76.2	15	24.0	3640	15.4	78.5	2800	14.1	86.1	69
Tr 26 x 6	6	6	1	17.84	23304	2.469	39	11652	2.164	44	70
26 x 24	4	24	6	22.3	2600	5.6	68.3	2000	4.9	78.0	71
26 x 60	5	60	12	22.2	4225	12.2	78.1	3250	11.1	85.7	71
30 x 28	4	28	7	26.5	2600	6.5	68.4	2000	5.7	78.1	72
30 x 50	5	50	10	25.3	3640	10.5	76.1	2800	9.4	84.2	72
30 x 70	5	70	14	26.2	4875	14.2	78.2	3750	13.0	85.8	72
34 x 80	5	80	16	30.2	5525	16.3	78.2	4250	14.8	85.8	73
36 x 200	5	200	40	33.4	5850	43.2	73.6	4500	38.2	83.3	73
Tr 40 x 7	7	7	1	30.95	55160	3.503	32	5516	3.022	37	74
Tr 55 x 12	12	12	1	40.00	104287	5.131	37	—	—	—	75
Tr 65 x 12	12	12	1	50.02	145651	5.775	33	—	—	—	76

METRIC LEAD SCREW AND NUT TECHNICAL DATA