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Screw Assemblies ecision

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PRECISION LEAD SCREW ASSEMBLY TECHNICAL INTRODUCTION

PRECISION LEAD SCREW ASSEMBLIES

GLOSSARY AND TECHNICAL DATA

ACME THREAD FORM TERMS

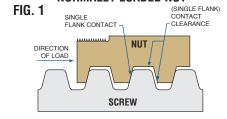
THREAD TYPES

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

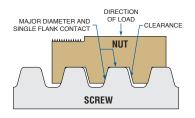
There are three main classes of Acme thread forms: General Purpose (G), Centralizing (C), and Stub Acme. The General Purpose and Centralizing thread form have a nominal depth of thread of 0.50 x pitch and have a 29° included thread angle resulting in a trapezoidal tooth shape (some sizes have 40°). Metric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

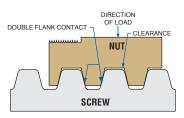
NORMALLY LOADED NUT



SIDE LOADED CENTRALIZED 'C' CLASS NUT



SIDE LOADED CONVENTIONAL 'G' CLASS NUT



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.

$PITCH \times STARTS = LEAD$

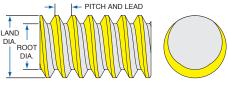
NOTE: Nook Industries acme screw designations reference major diameter and effective turns per inch. For example: 1/4" – 4 RH requires four turns for one inch of travel. A 1/4" – 4 RH has four starts and a 0.062" pitch. 0.062" pitch X four starts = 0.250" lead.

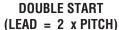
SCREW STARTS

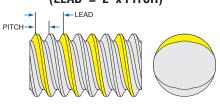
The number of independent threads on the screw shaft; example one, two or four. (SEE FIG. 2)

FIG. 2

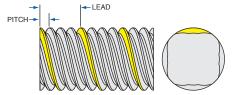
SINGLE START (LEAD = PITCH)







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.

GLOSSARY AND TECHNICAL DATA





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

PRECISION LEAD SCREW ASSEMBLY TECHNICAL INTRODUCTION

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 selflocking 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.

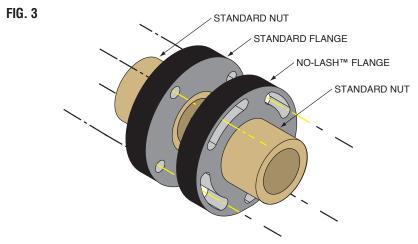
For screw diameters over 5/8 inch, PowerAc™ No-Lash™ Flanges are available. The PowerAc™ No-Lash™ Flange is identical to a standard flange except for slotted mounting holes. The backlash can be removed by using a nut with a PowerAc™ No-Lash™ Flange in combination with a standard nut and flange. By rotating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



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GLOSSARY AND TECHNICAL DATA

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.

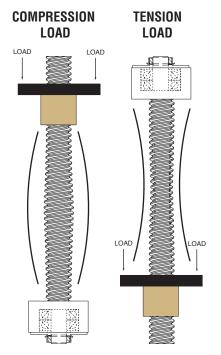
TENSION LOAD

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)**

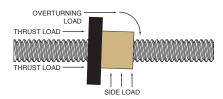
OVERTURNING LOAD

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)

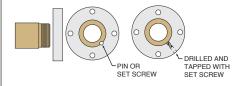
Commercially available thread

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

FIG. 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

FIG. 6



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

LUBRICATION

Proper Iubrication 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.

GLOSSARY AND TECHNICAL DATA





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

PRECISION LEAD SCREW ASSEMBLY TECHNICAL INTRODUCTION

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:

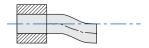
Free No support.



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.

PRECISION LEAD SCREW ASSEMBLIES

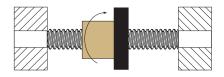


GLOSSARY AND TECHNICAL DATA

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 time 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-MOUNTTM 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:

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

WHFRE:

Pcr = 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/ACTM nuts, the PV value needs to be checked (see the PV load definition page 5) The operating load values for the PLAST/ACTM 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 = Actual Operating Load x 1250
Chart Operating Load

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

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

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

APPLICATION EXAMPLE







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 ± 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 = Load = 5000 pounds

 $F = u \times N$

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

F = 6.5 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 average = D/t

D = distance = 36 inches

t = total time = 10 seconds

V avg. = D/t

V avg. = 36 in. / 10 sec.

V avg. = 3.6 in / sec. or 216 in/minute

Therefore the average travel rate is 216 in/min.

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.

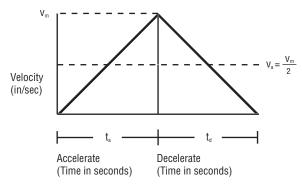
 $V \text{ peak} = 2 \times V \text{ avg.}$

V avg. = 3.6 in / sec. or 216 in/minute

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

V peak = 432 in/min

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



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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 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)

End Fixity = Type "C"

STEP 6

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

Max Travel Rate = 432 in/min

End Fixity = Type "C"

Length Between Bearing Supports = 40 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.

Load = 6.4 pounds End Fixity = Type "C"

Length Between Bearing Supports = 40 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:

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

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

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

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:

One end Type 3K (drive end with keyway) = 3.65" One end Type 3N (no drive end) = 2.33" 40 inches between supports 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-MOUNTTM, nut, and flange installed on the screw, the order reference number is:

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

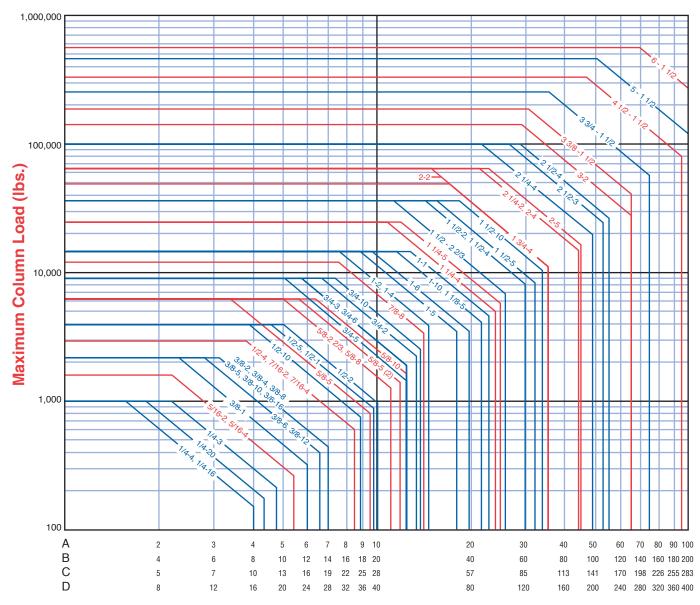
NOTE: The nut will be installed with the flange facing towards the first specified end. In this example, the EK end.

PRECISION LEAD SCREW ASSEMBLY TECHNICAL INTRODUCTION

COLUMN STRENGTH: ACME INCH SCREWS





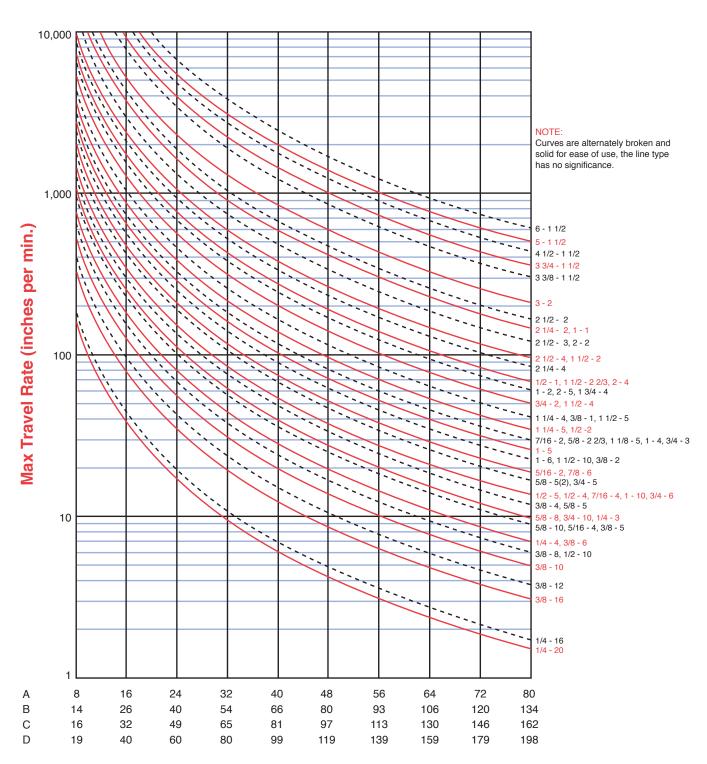


Maximum Length Between Bearings (in)

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.

ACME SCREW MANUFACTURING PROCESSES

2D/3D CAD



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
ALL0Y	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"	up to 96"
General Purpose 2G or 3G		(Single Starts)	90



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
General Purpose 3G or 4G			69"



PRECISION LEAD SCREW ASSEMBLIES



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







ACME NUT AND SCREW MATERIALS

(499) 703 35 98

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/ACTM 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./in²-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./in²-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 Brinnel	170 Brinnel	240 Brinnel
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 oxided carbon steel. See page 5 for Mounting and Pinning Acme Nut flange installation instructions.

LUBRICATION FOR PRECISION LEAD SCREW ASSEMBLIES

LEAD SCREW AND NUT LUBRICATION





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.



PAG-1 and E-100 LUBRICANT BENEFITS

- Sheer 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.	

www.nookindustries.ru

NCH ACME SCREW AND NUT TECHNICAL DATA



REFERENCE NUMBER SYSTEM: INCH ACME SCREWS AND NUTS

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

ACME SCREW Thread Form Codes **044** = 7/16"-4 **070** = 3/4"-10 **025** = 1/4"-3 **150** = 1-1/2"-10 **024** = 1/4"-4 051 = 1/2"-1086 = 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 **104** = 1"-4 **205** = 2"-5 **022** = 5/16"-2 **055** = 1/2"-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"-5110 = 1"-10**252** = 2-1/2"-2 652 = 5/8"-5(2)**034** = 3/8"-4 **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 **153** = 1-1/2"-2-2/3 **372** = 3-3/4"-1-1/2 **030** = 3/8"-10 **073** = 3/4"-3 **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** RAA = Alloy Steel, Rolled **R** = Right Hand Thread L = Left Hand Thread B = Alloy Steel, Milled C = Alloy Steel, Ground S = Stainless Steel, Rolled Not all threads/materials are T = Stainless Steel, Milled available for all sizes. U = Stainless Steel, Ground FIRST END CONFIGURATION EZZE-MOUNT™ / End Machining EΚ EK = Universal Double Bearing (see page 214 & 212) Support, with Keyway **1** = Type 1 3 = Type 3**2** = Type 2 **4** = Type 4 Shaft Extension (see page 212) **B** = Universal Double Bearing Support End Cap Facing Screw Thread **K** = Shaft Extension with Keyway C = Universal Single Bearing Support = Shaft Extension without Keyway **D** = Flanged Single Bearing Support Q = HandWheel Flange Facing Screw Thread N = No Shaft Extension **E** = Universal Double Bearing Support End Cap Facing Away From Screw Thread F = Flanged Double Bearing Support NOTE: Both Ends must be specified. Flange Facing Screw Thread **G** = Flanged Single Bearing Support Flange Single Bearing Supports are Facing Away From Screw Thread used in conjunction with Type 1N end machining. H = Flanged Double Bearing Support Flange Facing Away From Screw Thread Double Bearing Supports are used in conjunction with Type U_ = Universal Double Bearing Support 3K, 3L, or 3N end machining. 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). 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

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

S = Standard. no additional description required

M = Modified, additional description required

INCH ACIME SCREW AND NUT TECHNICAL DATA

ACME SCREW AND NUT CHARACTERISTICS DEFINED





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.

1<u>/4" ACME THRE</u>AD **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	

				sc
PRODUCT S	PECIFI	CATIONS		\
Lead			.333	.250
Pitch			.083	.062/
Starts			4	4
Threads Per	Inch		12	16
Lash (Maxin	num A	xial)	.005	.007
"A" – Root D	iamet	er (min.)	.192	.162/
Weight (lbs.	/ft.)		.13	.13
Thread Code	>		025	024
Form			Stub	2C
36"	RH	4140	11025	/
Standard Length		Stainless	91025	910
Part No.*	LH	4140	_	\
	,	Stainless	_	_
72"	RH	4140	12025	
Standard	1111	Stainless	92025	920
Length Part No.*	LH	4140	_	
		Stainless	_	_ `

^{*} Custom Lengths Available - See Reference Number Configuia

ACME NUT AND FLANGE CHARACTERISTICS DEFINED



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 oxided. These flanges are manufactured to be pinned to the nut.

\triangleleft	BRONZ/AC B	RONZE NUT		
$\overline{\langle}$	Efficiency	73%		
\triangleleft	Torque to Ra	ise 1 lb. (inlb.)	> .073	
	Weight (lbs.)		.13	
	Part No.	RH	20025	
		LH		

PLAST/AC PLASTIC NUT			
Efficiency		82%	
Torque to Raise 1 lb. (inlb.)		.065	/
Weight (lbs.)		.06	
Part No.	RH	30025	
	LH	_	

FLANGE - STEEL		/
Weight (lbs.)	.23	
Part No.	70160	



2D/3D CAD



1/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

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

				SCREW SIZE				
PRODUCT SPECIFICATIONS		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 (Maxim	num A	kial)	.005	.007	.005	.006		
"A" – Root Di	"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"	RH	4140	11025		11026	_		
Standard	1111	Stainless	91025	91024	91026	91020		
Length Part No.*	LH	4140		_	51026	_		
	LII	Stainless	_	_	_	_		
72"	RH	4140	12025	_	12026	_		
Standard	КП	Stainless	92025	92024	92026	92020		
Length Part No.*	LH	4140	_	<u> </u>	52026	_		
		Stainless	_		_	_		

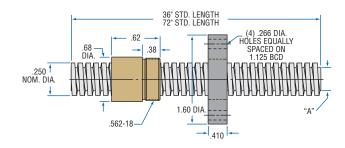
* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BI	RONZE NUT	1/4"-3	1/4"-4	¹ /4"- 16	1/4"-20
Efficiency		73%	71%	39%	36%
Torque to Rai	ise 1 lb. (inlb.)	.073	.056	.026	.022
Weight (lbs.)		.13	.13	.13	.13
Part No.	RH	20025	20024	20026	20020
	LH	_	_	80026	_

PLAST/AC PL	ASTIC NUT	1/4"-3	1/4"-4	1/4"-16	1/4"-20
Efficiency		79%	75%	46%	40%
Torque to Ra	ise 1 lb. (inlb.)	.067	.053	.021	.020
Weight (lbs.))	.06	.06	.06	.06
Part No.	RH	30025	30024	30026	30020
LH		_	_	40026	_

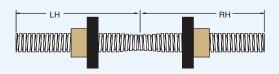
FLANGE - STEEL	1/4"-3	1/4"-4	1/4"-16	1/4"-20
Weight (lbs.)	.23	.23	.23	.23
Part No.	70160	70160	70160	70160

^{*} 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 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.

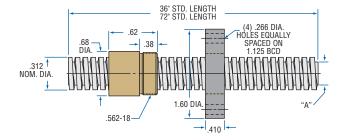
END MACHINING

Machining for Nook standard ends or custom requirement available.









LUBRICANT

Prolong acme screw and nut performance with these special lubricants.



E-100 12 0z. Acme Screw Spray Lubricant

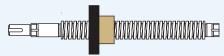


PAG-1 1 lb. Acme Screw Grease

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	

			SCRE	W SIZE
PRODUCT SE	PRODUCT SPECIFICATIONS		⁵ / ₁₆ "-2	⁵ /16" -4
Lead		.500	.250	
Pitch			.125	.125
Starts			4	2
Threads Per	Inch		8	8
Lash (Maxim	um A	kial)	.008	.008
"A" – Root Di	"A" – Root Diameter (min.)			.216
Weight (lbs./	/ft.)		.18	.18
Thread Code			022	028
Form			Stub	Stub
36"	RH	4140	_	11028
Standard Length		Stainless	91022	91028
Part No.*	LH	4140	_	_
		Stainless	_	_
72"	RH	4140	_	12028
Standard	nii	Stainless	92022	92028
Length Part No.*	LH	4140	_	_
	LII	Stainless	_	_

* Custom Lengths Available - See page 15 to specify length

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

PLAST/AC PLASTIC NUT		⁵ /16" -2	⁵ /16" -4
Efficiency		81%	73%
Torque to Ra	ise 1 lb. (inlb.)	.099	.054
Weight (lbs.))	.01	.01
Part No.	RH	30022	30028
	LH	_	_

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

2D/3D CAD



3/8" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.*

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

			SCREW SIZE			
PRODUCT SPECIFICATIONS		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 (Maxim	ium A	cial)	.010	.009	.009	.008
"A" – Root Diameter (min.)			.238	.278	.278	.282
Weight (lbs.,	Weight (lbs./ft.)		.29	.29	.29	.29
Thread Code			031	037	034	035
Form			Fast	Stub	Stub	Stub
36"	RH	4140		11037	11034	11035
Standard	11111	Stainless	91031	91037	91034	91035
Length Part No.*	LH	4140		_		
		Stainless	_	_	_	_
72"	RH	4140	_	12037	12034	12035
Standard	пп	Stainless	92031	92037	92034	92035
Length Part No.*	LH	4140	_	_	_	_
		Stainless	_	_	_	_

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC B	RONZE NUT	³ /8" -1	3/8"-2	3/8"-4	³ /8"- 5
Efficiency		_	74%	63%	59%
Torque to Ra	ise 1 lb. (inlb.)	_	.107	.063	.054
Weight (lbs.))	_	.05	.05	.05
Part No.	RH		20037	20034	20035
	LH	_	_	_	_
PLAST/AC PL	ASTIC NUT	³ /8" -1	3/8"-2	3/8"-4	3/8"-5
PLAST/AC PL Efficiency	ASTIC NUT	3/8"-1 80%	3/8"-2 79%	3/8"-4 69%	3/8"-5 64%
Efficiency	ASTIC NUT				
Efficiency	ise 1 lb. (inlb.)	80%	79%	69%	64%
Efficiency Torque to Ra	ise 1 lb. (inlb.)	80%	79% .101	69%	64%

3/8"-1

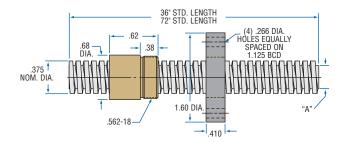
.23

70160

3/8"-2

.23

70160



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: 3/8"-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 0z. 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.

FLANGE - STEEL

Weight (lbs.)

Part No.

3/8"-5

.23

70160

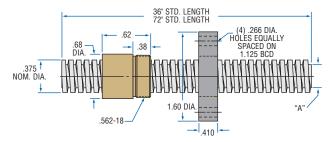
3/8"-4

.23

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





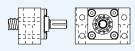


3/8" ACME THREAD

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.





Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

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.

				S	CREW SIZ	'E	
PRODUCT SPECIFICATIONS			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 (Maxim	um A	kial)	.006	.009	.008	.006	.007
"A" – Root Di	amete	er (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"	RH	4140	11036	11038	11030	11032	11033
Standard	1111	Stainless	91036	91038	91030	91032	91033
Length Part No.*	LH	4140	51036	_	_	51032	
		Stainless			_	94032	
72"	RH	4140	12036	12038	12030	12032	12033
Standard	nп	Stainless	92036	92038	92030	92032	92033
Length Part No.*	LH	4140	52036	_	_	52032	_
	LII	Stainless	_	_	_	95032	_

* Custom Langthe Available Con page 15 to engoify langth

* 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 Ra	ise 1 lb. (inlb.)	.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 PL	ASTIC NUT	3/8"-6	3/8"-8	3/8"-10	3/8"-12	3/8"-16
Efficiency		60%	54%	48%	43%	35%
Torque to Ra	ise 1 lb. (inlb.)	.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

7/16" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

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

			SCREV	V SIZE
PRODUCT SF	ECIFI	CATIONS	⁷ / ₁₆ " -2	⁷ /16" -4
Lead			.500	.250
Pitch			.125	.125
Starts			4	2
Threads Per	Inch		8	8
Lash (Maxim	um Ax	kial)	.009	.009
"A" – Root Di	amete	er (min.)	.340	.340
Weight (lbs./	.40	.40		
Thread Code			042	044
Form			Stub	Stub
36"	RH	4140	11042	11044
Standard Length	••••	Stainless	91042	91044
Part No.*	LH	4140	_	_
		Stainless	_	_
72"	RH	4140	12042	12044
Standard Length		Stainless	92042	92044
Part No.*	LH	4140	_	_
		Stainless		_
144"	RH	4140	13042	13044
Standard	1111	Stainless	93042	93044
Length Part No.*	LH	4140	_	_
		Stainless	_	_

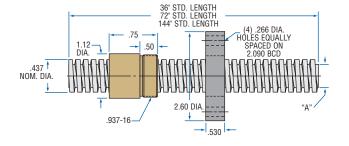
* Custom Lengths Available - See page 15 to specify length

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

PLAST/AC PLASTIC NUT		⁷ / ₁₆ "-2	⁷ /16"-4
Efficiency		77%	66%
Torque to Ra	Torque to Raise 1 lb. (inlb.)		.060
Weight (lbs.	Weight (lbs.)		.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.



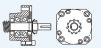
See page 41 for complete product details.

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.



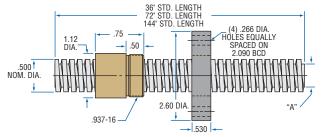
E-100 12 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease





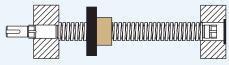


1/2" ACME THREAD

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-MOUNTTM **END BEARING SUPPORTS**

A convenient solution for mounting acme screw assemblies.







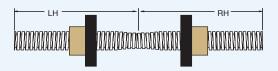
Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

EZZE-MOUNT™ available for: All 1/2" 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 0z. Acme Screw Spray Lubricant



See page 14 for complete product details.

			SCREW SIZE				
PRODUCT SPECIFICATIONS			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 (Maxim	um A	xial)	.007	.006	.007	.009	.007
"A" – Root Di	amete	er (min.)	.392	.406	.332	.391	.359
Weight (lbs./	Weight (lbs./ft.)		.53	.53	.53	.53	.53
Thread Code	Thread Code		051	052	054	055	050
Form			Stub	Stub	2C	Stub	2C
36"	RH	4140	_	11052	11054	11055	11050
Standard	MII	Stainless	91051	91052	91054	91055	91050
Length Part No.*	LH	4140	_	_	_	_	51050
		Stainless	_	_	_	_	94050
72"	RH	4140	_	12052	12054	12055	12050
Standard	nii	Stainless	92051	92052	92054	92055	92050
Length Part No.*	LH	4140	_	_	_	_	52050
		Stainless	_	_	_	_	95050
144"	RH	4140	_	13052	13054	13055	13050
Standard	NΠ	Stainless	93051	93052	93054	93055	93050
Length Part No.*	LH	4140	_	_	_	_	53050
i ait ivo.	LII	Stainless	_	_	_	_	96050
Custom Lengths Available - See Page 15 to specify length							

Custom Lengths Available - See Page 15 to specify length

BRONZ/AC B	RONZE NUT	¹ /2" -1	1/2"-2	1/2"-4	1/2"-5	1/2"-10
Efficiency		_	69%	57%	52%	34%
Torque to Ra	ise 1 lb. (inlb.)	_	.115	.070	.061	.047
Weight (lbs.))	_	.18	.19	.18	.18
Part No.	RH	_	20052	20054	20055	20050
	LH	_	_	_	_	80050
DI 407/40 DI	1/-" 4	1/-" 0	1/-" /	1/-" E	1/-" 40	

PLAST/AC PL	ASTIC 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. (inlb.)		.106	.107	.064	.056	.039
Weight (lbs.)	Weight (lbs.)		.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

.625 [†] NOM. DIA.

.50

1.12 DIA.



. (4) .266 DIA. HOLES EQUALLY SPACED ON 2.090 BCD

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

			SCREW SIZE				
PRODUCT SPECIFICATIONS		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 (Maxim	um A	kial)	.010	.009	.009	.008	.009
"A" – Root Di	"A" – Root Diameter (min.)		.457	.377	.484	.457	.516
Weight (lbs./	Weight (lbs./ft.)		.84	.84	.85	.84	.87
Thread Code			063	065	652	068	060
Form			2C	2C	2C	2C	Stub
36"	RH	4140	11063	11065	11652	11068	11060
Standard Length	1111	Stainless	_		91652	91068	91060
Part No.*	LH	4140	51063	51065	_	51068	_
1 411 1101		Stainless	_	1	_	94068	_
72"	RH	4140	12063	12065	12652	12068	12060
Standard	nii	Stainless	_		92652	92068	92060
Length Part No.*	LH	4140	52063	52065	_	52068	_
. 411 1101	LII	Stainless	_	_	_	95068	_
144"	RH	4140	13063	13065	13652	13068	13060
Standard	MII	Stainless	_		93652	93068	93060
Length Part No.*	LH	4140	53063	53065	_	53068	_
* Custom Longth		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. (inlb.)		.100	.072	.069	.058	.053
Weight (lbs.	.)	.22	.23	.22	.22	.21
Part No.	RH	20063	20065	20652	20068	20060
	LH	80063	80065	_	80068	_
		F / II 60 /	F/II =	F / II = / (0)	F/ 0	F/ II 40

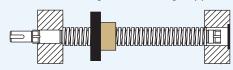
PLAST/AC PLASTIC NUT		5/8" -2 2/3	⁵ /8" -5	⁵ /8"- 5(2)	⁵ /8" -8	⁵ /8" -10
Efficiency		66%	53%	51%	40%	35%
Torque to Raise 1 lb. (inlb.)		.091	.060	.062	.049	.046
Weight (lbs.)		.03	.03	.03	.03	.03
Part No.	RH	30063	30065	30652	30068	30060
	LH	40063	40065	_	40068	_

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

.937-16 **ACME SCREW ASSEMBLIES**

36" STD. LENGTH 72" STD. LENGTH 144" STD. LENGTH

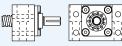
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.





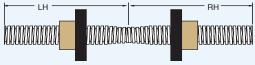
Single or Double Bearing Universal Mount

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.



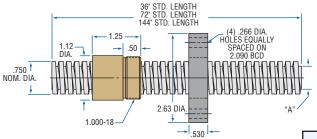
E-100 12 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease







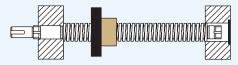
3/4" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

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

ACME SCREW ASSEMBLIES

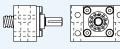
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.





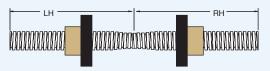
Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

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 0z. Acme Screw Spray Lubricant



				S	CREW SIZ	E	
PRODUCT SPECIFICATIONS			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 (Maxim	ium A	xial)	.010	.009	.009	.008	.007
"A" – Root Di	iameto	er (min.)	.581	.537	.502	.537	.608
Weight (lbs.,	Weight (lbs./ft.)		1.18	1.17	1.23	1.17	1.29
Thread Code	Thread Code			073	075	076	070
Form			2C	2C	2C	2C	2C
36"	RH	4140	11072**	11073	11075	11076	11070
Standard	ПП	Stainless	_	_	91075	91076	91070
Length Part No.*	LH	4140	_	51073	51075	51076	51070
		Stainless	_		94075	94076	94070
72"	RH	4140	12072**	12073	12075	12076	12070
Standard	nii	Stainless	_		92075	92076	92070
Length Part No.*	LH	4140	_	52073	52075	52076	52070
l air no.	LIII	Stainless	_	_	95075	95076	95070
144"	RH	4140	13072**	13073	13075	13076	13070
Standard	пп	Stainless	_	_	93075	93076	93070
Length Part No.*	LH	4140	_	53073	53075	53076	53070
. art no.	LII	Stainless	_	_	96075	96076	96070
* Custom Langthe Available - See page 15 to specify length							

* 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 Ra	ise 1 lb. (inlb.)	.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 Ra	ise 1 lb. (inlb.)	.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 Par	t No.	70262	70262	70262	70262	70262		
No-Lash™ Pa	art No.	73262	73262	73262	73262	73262		

^{**} These screws are low carbon steel

2D/3D CAD



7/8" ACME THREAD

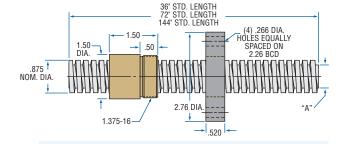
LEAD ACCURACY: ±0.0003 in./in.

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

			SCREW SIZE	
PRODUCT SE	PRODUCT SPECIFICATIONS			
Lead	.166			
Pitch	.166			
Starts			1	
Threads Per	Inch		6	
Lash (Maxim	um A	xial)	.009	
"A" – Root Di	.661			
Weight (lbs.,	1.65			
Thread Code	086			
Form			2C	
36"	RH	4140	11086	
Standard Length		Stainless		
Part No.*	LH	4140	51086	
		Stainless	_	
72"	RH	4140	12086	
Standard Length		Stainless	_	
Part No.*	LH	4140	52086	
		Stainless	_	
144"	RH	4140	13086	
Standard Length		Stainless	_	
Part No.*	LH	4140	53086	
		Stainless	_	

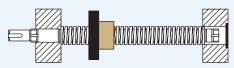
* Custom Lengths Available - See page 15 to specify length

* Custom Lengths Available - See page 15 to specify length					
BRONZ/AC B	⁷ /8"- 6				
Efficiency	32%				
Torque to Ra	ise 1 lb. (inlb.)	.083			
Weight (lbs.)	.57			
Part No.	RH	20086			
	LH	80086			
PLAST/AC PI	PLAST/AC PLASTIC NUT				
Efficiency	39%				
Torque to Ra	Torque to Raise 1 lb. (inlb.)				
Weight (lbs.))	.08			
Part No.	RH	30086			
	LH	40086			
FLANGE - ST	⁷ /8" -6				
Weight (lbs.	.85				
Standard Pa	70275				
No-Lash™ P	art No.	73275			



ACME SCREW ASSEMBLIES

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



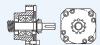
See page 41 for complete product details.

EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.







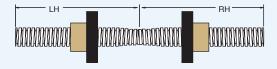
Single or Double Bearing Universal Mount

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.



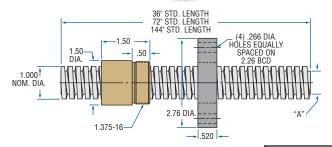
E-100 12 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease







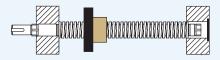
ACME THREAD

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

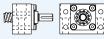
These assemblies are shipped with screw, nut, flange, and bearing supports.



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

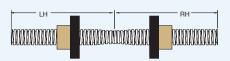
Single or Double Bearing Flange Mount

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.



PAG-1 1 lb. Acme Screw Grease



E-100 12 0z. Acme Screw Spray Lubricant

See page 14 for complete product details.

			SCREW SIZE					
PRODUCT SPECIFICATIONS			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 (Maxim	ium A	kial)	.008	.010	.010	.009	.009	.008
"A" – Root Di	iamete	er (min.)	.906	.698	.698	.750	.786	.857
Weight (lbs.,	Weight (lbs./ft.)		2.38	2.22	2.22	2.16	2.16	2.10
Thread Code	Thread Code		111	112	104	105	106	110
Form			Stub	2C	2C	2C	2C	2C
36"	RH	4140	11111	11112	11104	11105	11106	11110
Standard	NП	Stainless	1	_	91104	91105	91106	91110
Length Part No.*	LH	4140	51111	51112	51104	51105	51106	51110
		Stainless	1		94104		94106	94110
72"	RH	4140	12111	12112	12104	12105	12106	12110
Standard	NII	Stainless	_	_	92104	92105	92106	92110
Length Part No.*	LH	4140	52111	52112	52104	52105	52106	52110
	L	Stainless	_	_	95104	_	95106	95110
144"	RH	4140	13111	13112	13104	13105	13106	13110
Standard	пп	Stainless	_	_	93104	93105	93106	93110
Length Part No.*	LH	4140	53111	53112	53104	53105	53106	53110
* Custom I anath		Stainless	_	_	96104	_	96106	96110

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC B	RONZE NUT	1"-1	1"-2	1"-4	1"-5	1"-6	1"-10
Efficiency		69%	57%	38%	34%	30%	20%
Torque to Ra	ise 1 lb. (inlb.)	.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 Ra	Torque to Raise 1 lb. (inlb.)		.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 - ST	EEL	1"-1	1"-2	1"-4	1"-5	1"-6	1"-10
Weight (lbs.)		.85	.85	.85	.85	.85	.85
Standard Pa	rt No.	70275	70275	70275	70275	70275	70275
No-Lash™ P	art No.	73275	73275	73275	73275	73275	73275





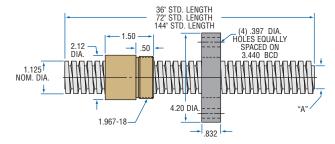
1-1/8" ACME THREAD

LEAD ACCURACY: ±0.0003 in./in.

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

			SCREW SIZE
PRODUCT SE	PECIFI	CATIONS	1 ¹ /8"-5
Lead			.200
Pitch	.200		
Starts	1		
Threads Per	5		
Lash (Maxim	.010		
"A" – Root Di	.875		
Weight (lbs./	2.80		
Thread Code	115		
Form			2C
36"	RH	4140	11115
Standard Length		Stainless	_
Part No.*	LH	4140	51115
		Stainless	_
72"	RH	4140	12115
Standard Length		Stainless	_
Part No.*	LH	4140	52115
		Stainless	_
144"	RH	4140	13115
Standard Length		Stainless	_
Part No.*	LH	4140	53115
		Stainless	_

* Custom Lengths Available - See page 15 to specify length					
BRONZ/AC B	RONZE NUT	1 ¹ /8"-5			
Efficiency		32%			
Torque to Ra	ise 1 lb. (inlb.)	.100			
Weight (lbs.))	1.21			
Part No.	RH	20115			
	LH	80115			
PLAST/AC PL	1 ¹ /8"-5				
Efficiency	37%				
Torque to Ra	Torque to Raise 1 lb. (inlb.)				
Weight (lbs.))	.18			
Part No.	RH	30115			
	LH	40115			
FLANGE - ST	1 ¹ /8"-5				
Weight (lbs.)		3.19			
Standard Pai	70420				
No-Lash™ Pa	art 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.







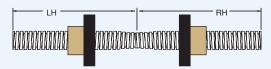
Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

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.



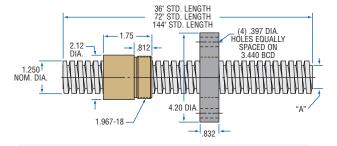
E-100 12 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease







ACME SCREW ASSEMBLIES

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



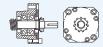
See page 41 for complete product details.

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 0z. 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	

				SCREW SIZE	
PRODUCT SF	11/4"-4	1 ¹ / ₄ "-5			
Lead			.250	.200	
Pitch			.250	.200	
Starts			1	1	
Threads Per	Inch		4	5	
Lash (Maxim	um A	xial)	.011	.010	
"A" – Root Di	"A" – Root Diameter (min.)				
Weight (lbs./	Weight (lbs./ft.)				
Thread Code	Thread Code				
Form			2C	20	
36"	RH	4140	11124	11125	
Standard Length	1111	Stainless	91124	91125	
Part No.*	LH	4140	51124	51125	
	-	Stainless	94124	94125	
72"	RH	4140	12124	12125	
Standard	1111	Stainless	92124	92125	
Length Part No.*	LH	4140	52124	52125	
		Stainless	95124	95125	
144"	RH	4140	13124	13125	
Standard	nп	Stainless	93124	93125	
Length Part No.*	LH	4140	53124	53125	
* Custom Longth		Stainless	96124	96125	

* Custom Lengths Available - See page 15 to specify length				
BRONZ/AC B	11/4"-4	1 ¹ / ₄ "-5		
Efficiency	34%	28%		
Torque to Ra	.117	.114		
Weight (lbs.))	1.32	1.29	
Part No.	Part No. RH		20125	
	80124	80125		
PLAST/AC PL	ASTIC NUT	11/4"-4	1 ¹ / ₄ "-5	

PLAST/AC PLASTIC NUT		1'/4 -4	1'/4 -5
Efficiency	40%	35%	
Torque to Ra	.099	.092	
Weight (lbs.	Weight (lbs.)		.19
Part No.	Part No. RH		30125
	LH	40124	40125
ELANOE OT		41/." /	41/." 5

FLANGE - STEEL	11/4"-4	1 ¹ /4"-5
Weight (lbs.)	3.19	3.19
Standard Part No.	70420	70420
No LochTM Part No	72/120	72/120



1-1/2" ACME THREAD

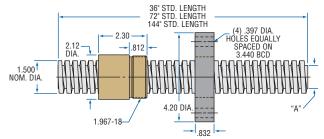
LEAD ACCURACY: ±0.0003 in./in.

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

			SCREW SIZE				
PRODUCT SPECIFICATIONS		1 ¹ /2"-2	1 ¹ /2" -2 ² /3	1 ¹ /2"-4	11/2"-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	22/3	4	5	10
Lash (Maxim	um A	xial)	.012	.010	.010	.010	.009
"A" – Root Di	amete	er (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	Thread Code		152	153	154	155	150
Form			2C	40°	2C	2C	2C
36"	RH	4140	11152	11153	11154	11155	11150
Standard Length		Stainless	_	91153	91154	91155	_
Part No.*	LH	4140	51152	51153	51154	51155	51150
		Stainless	_	_	94154	94155	_
72"	RH	4140	12152	12153	12154	12155	12150
Standard	1111	Stainless	_	92153	92154	92155	_
Length Part No.*	LH	4140	52152	52153	52154	52155	52150
l untito.	LIII	Stainless	_	_	95154	95155	_
144"	RH	4140	13152	13153	13154	13155	13150
Standard	КΠ	Stainless	_	93153	93154	93155	_
Length Part No.*	LH	4140	53152	53153	53154	53155	53150
* Custom Longth		Stainless	_	_	96154	96155	_

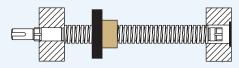
Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		1 ¹ /2" -2 ² /3	11/2"-4	1 ¹ /2"-5	11/2"-10
Efficiency		40%	30%	25%	15%
Torque to Raise 1 lb. (inlb.)		.149	.133	.127	.110
	1.38	1.49	1.53	1.35	1.28
RH	20152	20153	20154	20155	20150
LH	80152	80153	80154	80155	80150
PLAST/AC PLASTIC NUT		1 ¹ / ₂ " -2 ² / ₃	11/2"-4	1 ¹ /2"-5	1 ¹ /2"-10
Efficiency		46%	36%	30%	17%
				ı	
ise 1 lb. (inlb.)	.152	.129	.111	.105	.091
ise 1 lb. (inlb.)		.129	.111	.105 .20	.091 .19
	.152	_			
,	.152	.22	.22	.20	.19
RH	.152 .20 30152 40152	.22	.22 30154	.20 30155	.19 30150
RH LH	.152 .20 30152 40152	.22 30153 40153	.22 30154 40154	.20 30155 40155	.19 30150 40150
RH LH	.152 .20 30152 40152 11/2"-2	.22 30153 40153 11/2"-2 ² /3	.22 30154 40154 1 1/2"- 4	.20 30155 40155 11/2"-5	.19 30150 40150 11/2"-10
	se 1 lb. (inlb.) RH LH	46% se 1 lb. (inlb.) .173 1.38 RH 20152 LH 80152	46% 40%	46% 40% 30% se 1 lb. (inlb.) .173 .149 .133 1.38 1.49 1.53 RH 20152 20153 20154 LH 80152 80153 80154 ASTIC NUT 11/2"-2 11/2"-24/3 11/2"-4	46% 40% 30% 25% se 1 lb. (inlb.) .173 .149 .133 .127 1.38 1.49 1.53 1.35 RH 20152 20153 20154 20155 LH 80152 80153 80154 80155 ASTIC NUT 11/2"-2 11/2"-2/3 11/2"-4 11/2"-4



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.







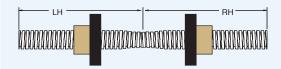
Single or Double Bearing Universal Mount

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 0z. Acme Screw Spray Lubricant

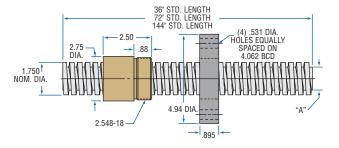


PAG-1 1 lb. Acme Screw Grease



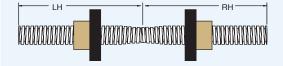
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TWIN-LEAD SCREW

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 0z. 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.

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

			SCREW SIZE
PRODUCT SPECIFICATIONS			13/4"-4
Lead			.250
Pitch			.250
Starts			1
Threads Per	Inch		4
Lash (Maxim	um A	xial)	.011
"A" – Root Diameter (min.)			1.427
Weight (lbs./	/ft.)		6.97
Thread Code			174
Form			2C
36"	RH	4140	11174
Standard Length	11111	Stainless	
Part No.*	LH	4140	51174
		Stainless	_
72"	RH	4140	12174
Standard Length		Stainless	_
Part No.*	LH	4140	52174
		Stainless	_
144"	RH	4140	13174
Standard Length	1111	Stainless	_
Lengin Part No.*	LH	4140	53174
. 3111101		Stainless	

* Custom Lengths Available - See page 15 to specify length

Custom Lengths Available - See page 15 to specify length			
BRONZ/AC B	1 ³ / ₄ "-4		
Efficiency		26%	
Torque to Ra	ise 1 lb. (inlb.)	.153	
Weight (lbs.)	1	3.05	
Part No.	RH	20174	
	LH	80174	
PLAST/AC PLASTIC NUT		1 ³ /4"-4	
Efficiency		32%	
Torque to Raise 1 lb. (inlb.)		.124	
Weight (lbs.)	1	.44	
Part No.	RH	30174	
LH		40174	
FLANGE - STEEL		1 ³ / ₄ "-4	
Weight (lbs.)		4.73	
Standard Par	t No.	70500	

73500

No-Lash™ Part No.

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

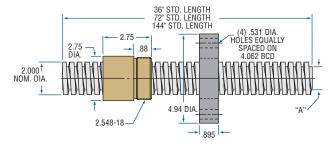
				CREW SIZ	Έ
PRODUCT SPECIFICATIONS			2"-2	2"-4	2"-5
Lead			.500	.250	.200
Pitch			.500	.250	.200
Starts			1	1	1
Threads Per	Inch		2	4	5
Lash (Maxim	ium A	xial)	.020	.012	.011
"A" – Root Di	iamete	er (min.)	1.410	1.694	1.747
Weight (lbs./	/ft.)		8.09	9.28	9.53
Thread Code			202	204	205
Form			40°	2C	2C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

* Custom Lengths Available - See page 15 to specify length

* 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 Ra	ise 1 lb. (inlb.)	.199	.166	.159
Weight (lbs.))	2.87	2.59	2.53
Part No.	RH	20202	20204	20205
	LH	80202	80204	80205
PLAST/AC PL	PLAST/AC PLASTIC NUT		2"-4	2"-5
Efficiency	Efficiency		29%	24%
Torque to Ra	ise 1 lb. (inlb.)	.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

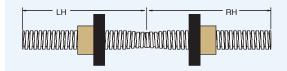






TWIN-LEAD SCREW

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 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

See page 14 for complete product details.

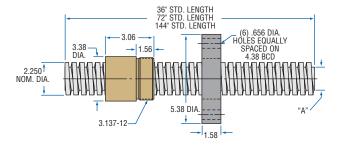
END MACHINING

Machining for Nook standard ends or custom requirement available.



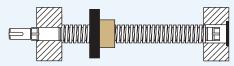






ACME SCREW ASSEMBLIES

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



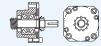
See page 41 for complete product details.

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 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Grease

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.

See page 14 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

				V SIZE
PRODUCT SPECIFICATIONS			21/4"-2	21/4"-4
Lead			.500	.250
Pitch			.500	.250
Starts			1	1
Threads Per	Inch		2	4
Lash (Maxim	um A	xial)	.021	.012
"A" – Root Di	amete	er (min.)	1.684	1.944
Weight (lbs./	ft.)		10.58	11.29
Thread Code			222	224
Form			40°	2C
36"	RH	4140	11222	11224
Standard	nii	Stainless	_	_
Length Part No.*	LH	4140	51222	51224
		Stainless	_	_
72"	RH	4140	12222	12224
Standard	1111	Stainless	_	_
Length Part No.*	LH	4140	52222	52224
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	LII	Stainless	_	_
144"	RH	4140	13222	13224
Standard	nп	Stainless	_	_
Length Part No.*	LH	4140	53222	53224
* Custom Longth		Stainless	_	_

* Custom Lengths Available - See page 15 to specify length					
BRONZ/AC BI	BRONZ/AC BRONZE NUT				
Efficiency	37%	22%			
Torque to Ra	Torque to Raise 1 lb. (inlb.)				
Weight (lbs.)	Weight (lbs.)				
Part No.	Part No. RH		20224		
LH		80222	80224		
PLAST/AC PL	21/4"-2	21/4"-4			

PLAST/AC P	21/4"-2	21/4"-4	
Efficiency	42%	27%	
Torque to Ra	.188	.150	
Weight (lbs.	Weight (lbs.)		
Part No. RH		30222	30224
	LH	40222	40224

FLANGE - STEEL	21/4"-2	21/4"-4
Weight (lbs.)	9.88	9.88
Standard Part No.	70540	70540
No-Lash™ Part No.	73540	73540



2-1/2" ACME THREAD

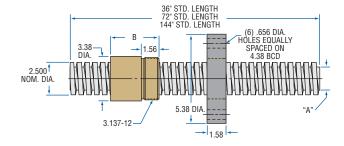
LEAD ACCURACY: ±0.0003 in./in.

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

				CREW SIZ	E
PRODUCT SPECIFICATIONS			2 ¹ /2"-2	2 ¹ /2"-3	21/2"-4
Lead			.500	.333	.250
Pitch			.500	.333	.250
Starts			1	1	1
Threads Per	Inch		2	3	4
Lash (Maxim	ium A	xial)	.012	.013	.012
"A" – Root Di	iamete	er (min.)	1.908	2.106	2.193
"B" – Nut Boo	ly Len	gth	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"	RH	4140	11252	11253	11254
Standard Length		Stainless	_	_	_
Part No.*	LH	4140	51252	51253	51254
		Stainless	_	_	_
72"	RH	4140	12252	12253	12254
Standard Length		Stainless	_	_	_
Part No.*	LH	4140	52252	52253	52254
		Stainless	_		_
144"	RH	4140	13252	13253	13254
Standard Length		Stainless	_	_	_
Part No.*	LH	4140	53252	53253	53254
		Stainless	_	_	_

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC BRONZE NUT		21/2"-2		2 ¹ / ₂ "- 4
Efficiency		34%	25%	20%
Torque to Ra	ise 1 lb. (inlb.)	.234	.212	.199
Weight (lbs.)	1	5.00	5.91	4.55
Part No.	RH	20252	20253	20254
	LH	80252	80253	80254
PLAST/AC PL	ASTIC NUT	21/2"-2	21/2"-3	2 ¹ /2"-4
Efficiency	Efficiency		30%	24%
Torque to Ra	Torque to Raise 1 lb. (inlb.)		.174	.163
Weight (lbs.))	.73	.86	.66
Part No.	RH	30252	30253	30254
	LH	40252	40253	40254
FLANGE - STEEL		21/2"-2	21/2"-3	21/2"-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 0z. Acme Screw Spray Lubricant

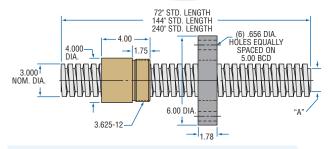


PAG-1 1 lb. Acme Screw Grease



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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.







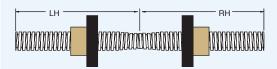
Single or Double Bearing Universal Mount

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 0z. 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

			SCREW SIZE
PRODUCT SI	PRODUCT SPECIFICATIONS		3"-2
Lead			.500
Pitch			.500
Starts			1
Threads Per	Inch		2
Lash (Maxim	ium A	xial)	.016
"A" – Root D	iamete	er (min.)	2.410
Weight (lbs.	/ft.)		19.96
Thread Code			302
Form			20
72"	RH	4140	12302
Standard Length		Stainless	_
Part No.*	LH	4140	51302
		Stainless	_
144"	RH	4140	13302
Standard Length		Stainless	_
Part No.*	LH	4140	52302
		Stainless	
240"	RH	4140	10302
Standard	NΠ	Stainless	_
Length Part No.*	LH	4140	53302
	LII	Stainless	

* Custom Lengths Available - See page 15 to specify length

BRONZ/AC B	3"-2	
Efficiency	30%	
Torque to Ra	.265	
Weight (lbs.)	Weight (lbs.)	
Part No.	RH	20302
	LH	80302

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



3-3/8" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

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

		SCREW SIZE	
PRODUCT SPECIFICATIONS			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
	nii	Stainless	
	LH	4140	_
		Stainless	_
144"	RH	4140	13332
Standard Length		Stainless	_
Part No.*	LH	4140	_
i dit ito.		Stainless	
240"	RH	4140	10332
Standard Length Part No.*		Stainless	
	LH	4140	_
		Stainless	_

Custom Lengths Available - See page 15 to specify length

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

FLANGE - STEEL	33/8"-11/2
Weight (lbs.)	23.82
Standard Part No.	70740
No-Lash™ Part No.	73332

72" STD. LENGTH 144" STD. LENGTH 240" STD. LENGTH _ (6) .781 DIA. HOLES EQUALLY SPACED ON __6.25 BCD__ 4.500 DIA. → 2.00 7.38 DIA 4.325-12

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 0z. 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.



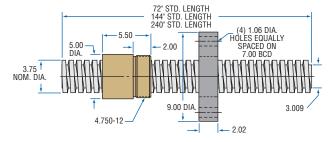




3-3/4" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

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



			SCREW SIZE
PRODUCT SPECIFICATIONS		3 ³ / ₄ "-1 ¹ / 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		3 ³ /4"-1 ¹ /2
Efficiency		30%
Torque to Raise 1 lb. (inlb.)		.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

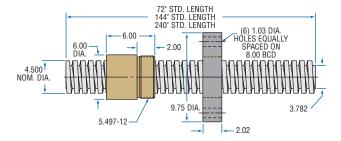
LUBRICANT

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



			SCREW SIZE
PRODUCT SPECIF	PRODUCT SPECIFICATIONS		4 ¹ /2" -1 ¹ /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. (inlb.)		.379
Weight (lbs.)		25.82
Part No.	RH	20452

	1
FLANGE - STEEL	41/2"-11/2
Weight (lbs.)	26.00
Standard Part No.	71000
No-Lash™ Part No.	73452

EZZE-MOUNTTM 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.

INCH ACME SCREW AND NUT TECHNICAL DATA

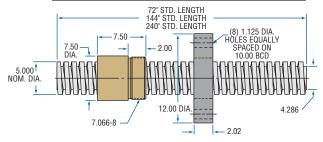




5" ACME THREAD

LEAD ACCURACY: ±0.0006 in./in.

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



			SCREW SIZE
PRODUCT SPECIF	ICATI	ONS	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

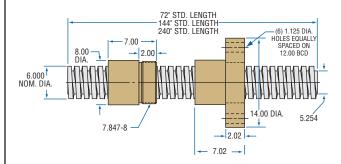
BRONZ/AC BRONZE NUT		5"-1 ¹ / ₂
Efficiency		26%
Torque to Raise 1 lb. (inlb.)		.398
Weight (lbs.)		60.59
Part No.	RH	20552
		=" 441

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

* Custom Lengths Available - See page 15 to specify length

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

LUBRICANT

Prolong acme screw and nut performance with these special lubricants.

See page 14 for complete product details.



E-100 12 0z. Acme Screw Spray Lubricant



PAG-1 1 lb. Acme Screw Lubricant

www.nookindustries.ru

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.

QUICK REFERENCE:

INCH ACME SCREWS AND NUTS





SCREW SIZES **NUT SELECTION BRONZ/AC** PLAST/AC **LOAD RATING LOAD RATING Torque To Torque To Back** SIZE Root Static Dynamic Raise **Efficiency Static Dynamic** Raise **Efficiency** Lash **Page DIA-TPI** Lead Dia. lbs. 1 lb. (in-lb) % lbs. 1 lb. (in-lb) % (max) Ref .333 .192 312 .073 73 156 .067 79 18 1/4 - 3* 1000 156 .005 .250 .162 1000 312 .056 71 156 156 .053 75 18 1/4 - 4* .007 .062 .162 312 .026 39 156 .021 46 18 1/4 - 16 1000 156 .005 40 .050 .175 1000 312 .022 36 156 .020 18 1/4 - 20156 .006 5/16 - 2* .500 .216 205 205 .099 81 .008 19 .216 .059 205 73 .250 510 67 .054 19 5/16 - 4* 1625 205 .008 1.000 .238 80 20 3/8 - 1* 351 .199 .021 351 3/8 - 2* .500 .278 703 .107 74 351 .101 79 20 2250 351 .009 3/8 - 4* .250 .278 2250 703 .063 63 351 351 .057 69 .009 20 .282 351 3/8 - 5* .200 2250 703 .054 59 351 .050 64 .008 20 703 60 21 .166 .263 2250 .049 54 351 351 .044 .006 3/8 - 6* .125 .278 703 .037 54 2250 .042 48 351 351 .009 21 3/8 - 83/8 - 10 .100 .282 2250 703 .038 42 351 351 .033 48 .008 21 .083 .263 703 37 351 43 .036 .031 21 3/8 - 12 2250 351 .006 3/8 - 16.062 .286 703 32 351 .028 35 21 2250 .031 351 .007 7/16 - 2* .500 .340 450 450 .103 77 .009 22 .250 .340 450 66 975 60 .060 7/16 - 4* 3000 .067 450 .009 22 75 1.000 625 1/2 - 1* .392 625 .106 .007 23 1/2 - 2* .500 .406 .107 75 4000 1250 .115 69 625 625 .006 23 .250 .332 625 .064 63 1/2 - 4*4000 1250 .070 57 625 .007 23 52 625 57 1/2 - 5* .200 .391 4000 1250 .061 625 .056 .009 23 .100 .359 1250 .047 34 625 .039 40 23 1/2 - 104000 625 .007 5/8 - 22/3* .375 .457 1953 .100 60 976 .091 66 .010 24 6250 976 .200 .377 6250 1953 .072 44 976 .060 53 .009 24 5/8 - 5 976 .200 .484 1953 .069 976 51 5/8 - 5(2) 6250 46 976 .062 .009 24 .125 .457 34 976 40 5/8 - 8 6250 1953 .058 976 .049 .008 24 .100 .516 30 976 .046 35 1953 .053 976 .009 24 5/8 - 10 6250 .500 .581 62 1406 68 25 3/4 - 2* 9000 2812 .129 1406 .118 .010 3/4 - 3* .333 .537 9000 2812 .099 54 1406 1406 .089 60 .009 25 .200 .502 9000 2812 .080 40 1406 .066 48 .009 25 3/4 - 51406

*Effective Threads per inch for multiple start screws.

.537

9000

.166

3/4 - 6

CONTINUED ON NEXT PAGE

43

.073

.008

25

36

2812

.061

1406

INCH ACME SCREW AND NUT TECHNICAL DATA

QUICK REFERENCE: INCH ACME SCREWS AND NUTS





CONTINUED FROM PREVIOUS PAGE

SCRE	CREW SIZES NUT SELECTION											
				BRO	NZ/AC			PLAST/AC				
			LOAD	RATING	Torque To		LOA	D RATING	Torque To		Back	
SIZE DIA-TPI	Lead	Root Dia.	Static Ibs.	Dynamic lbs.	Raise 1 lb. (in-lb)	Efficiency %	Static lbs.	Dynamic lbs.	Raise 1 lb. (in-lb)	Efficiency %	Lash (max)	Page Ref
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
11/4 - 4	.250	.947	25000	7812	.117	34	3906	3906	.099	40	.011	29
11/4 - 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
11/2 - 4	.250	1.196	36000	11250	.133	30	5625	5625	.111	36	.010	30
11/2 - 5	.200	1.249	36000	11250	.127	25	5625	5625	.105	30	.010	30
11/2 - 10	.100	1.355	36000	11250	.110	15	5625	5625	.091	17	.009	30
13/4 - 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
21/4 - 2	.500	1.684	81000	25312	.215	37	12656	12656	.188	42	.021	33
21/4 - 4	.250	1.944	81000	25312	.181	22	12656	12656	.150	27	.012	33
21/2 - 2	.500	1.908	100000	31250	.234	34	15625	15625	.201	40	.012	34
21/2 - 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	_	<u> </u>	_	_	.016	35
33/8 - 11/2	.666	2.652	192000	60000	.312	34	_	<u> </u>	_	_	.020	36
33/4 - 11/2	.666	3.083	260000	81000	.345	30	_	<u> </u>	_	_	.020	37
41/2 - 11/2	.666	3.782	320000	100000	.379	28		<u> </u>	_	_	.022	37
5 - 1 ¹ / ₂	.666	4.286	470000	145000	.398	26	_	<u> </u>	_	_	.022	38
6 - 11/2	.666	5.254	576000	180000	.474	22		 _	_	_	.025	38

^{*}Effective Threads per inch for multiple start screw

INCH ACME SCREW ASSEMBLIES TECHNICAL DATA



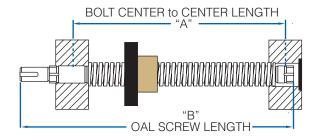


CONVENIENCE AND MODULARITY

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-MOUNTTM information and page 212-213 for End Machining information.





ACME SCREW AND

NUT ASSEMBLIES

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	110 - RA / EK / CN / "B" / 30110 / FS	27
11/8 - 5	4.28" + Travel	8.14" + Travel	115 - RA / EK / CN / "B" / 20115 / FS	115 - RA / EK / CN / "B" / 30115 / FS	28
11/4 - 4	4.47" + Travel	8.39" + Travel	124 - RA / EK / CN / "B" / 20124 / FS	124 - RA / EK / CN / "B" / 30124 / FS	29
1 ¹ /4 - 5	4.69" + Travel	8.84" + Travel	125 - RA / EK / CN / "B" / 20125 / FS	125 - RA / EK / CN / "B" / 30125 / FS	29
1 1/2 - 2	5.24" + Travel	9.84" + Travel	152 - RA / EK / CN / "B" / 20152 / FS	152 - RA / EK / CN / "B" / 30152 / FS	30
1 1/2 - 2 2/3	5.24" + Travel	9.39" + Travel	153 - RA / EK / CN / "B" / 20153 / FS	153 - RA / EK / CN / "B" / 30153 / FS	30
11/2 - 4	5.24" + Travel	9.84" + Travel	154 - RA / EK / CN / "B" / 20154 / FS	154 - RA / EK / CN / "B" / 30154 / FS	30
11/2 - 5	5.24" + Travel	9.84" + Travel	155 - RA / EK / CN / "B" / 20155 / FS	155 - RA / EK / CN / "B" / 30155 / FS	30
11/2 - 10	5.24" + Travel	9.84" + Travel	150 - RA / EK / CN / "B" / 20150 / FS	150 - RA / EK / CN / "B" / 30150 / 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.

INCH ACME SCREW ASSEMBLIES TECHNICAL DATA

ACME SCREW AND NUT ASSEMBLIES WITH MOTOR MOUNTS



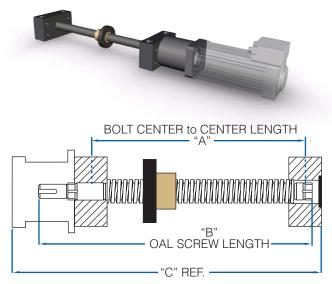




CONVENIENCE AND MODULARITY

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.

	ADD MEASUREMENT BELOW + TRAVEL						
DIA-TPI	BOLT CENTER "A"	0.A.L "B"	"C" REF.	REF. NUMBER BRONZE NUT	REF. NUMBER PLASTIC NUT	MOTOR MOUNT	Page
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
11/4 - 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
11/4 - 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
11/2 - 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
11/2 - 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
11/2 - 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
11/2 - 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

INCH ACME SCREW AND NUT TECHNICAL DATA





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:

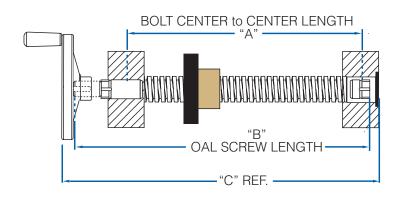
072 - RA / EQ / CN / 29.62 / 20072 / FS

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.



ACME SCREW AND NUT

ASSEMBLIES WITH HANDWHEELS



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

	ADD MEASUREMENT BELOW + TRAVEL					HAN	DWHEEL	
DIA-TPI	BOLT CENTER "A"	0.A.L "B"	"C" REF.	REF. NUMBER BRONZE NUT	REF. NUMBER PLASTIC NUT	SIZE	PART NO.	PAGE
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
11/8 - 5	4.22"	8.14"	9.00"	115 - RA/EQ/CN/"B"/20115/FS	115 - RA/EQ/CN/"B"/30115/FS	6"	H065**	28
11/4 - 4	4.47"	8.39"	9.25"	124 - RA/EQ/CN/"B"/20124/FS	124 - RA/EQ/CN/"B"/30124/FS	6"	H065**	29
11/4 - 5	4.69"	8.14"	9.89"	125 - RA / EQ / CN / "B" / 20125 / FS	125 - RA / EQ / CN / "B" / 30125 / FS	8"	H086	29
11/2 - 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
11/2 - 4	5.24"	9.84"	10.85"	154 - RA/EQ/CN/"B"/20154/FS	154 - RA/EQ/CN/"B"/30154/FS	8"	H088	30
11/2 - 5	5.24"	9.84"	10.85"	155 - RA / EQ / CN / "B" / 20155 / FS	155 - RA/EQ/CN/"B"/30155/FS	8"	H088	30
11/2 - 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 HO64, but different bore. Other combinations of screw assemblies and handwheels are available upon request.

TWIN-LEAD ACME SCREW ASSEMBLIES







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 oxided 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

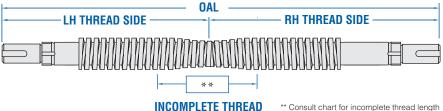
effective systems. Twin-lead acme screws can be used in molding machines, packaging equipment, food processing machinery, robotics, material handling equipment, tire manufacturing and assembly applications.

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



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.



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
11/4 - 4	.947	144	70.25	3.50	29
11/4 - 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
11/2 - 4	1.196	144	70.00	3.50	30
11/2 - 5	1.249	144	70.25	3.50	30
11/2 - 10	1.355	144	70.50	2.50	30
13/4 - 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
21/4 - 2	1.684	144	69.00	6.00	33
21/4 - 4	1.944	144	70.00	4.00	33
21/2 - 2	1.908	144	69.00	6.00	34
21/2 - 3	2.106	144	69.00	4.50	34
21/2 - 4	2.193	144	70.00	4.00	34
3 - 2	2.410	144	69.00	6.00	35

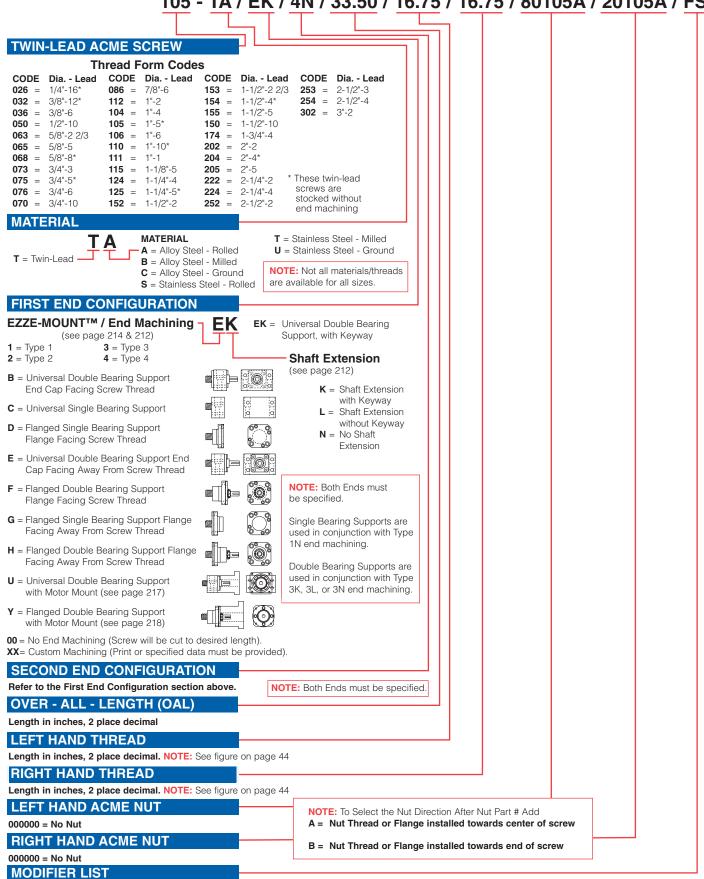
The specifications and data in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of Nook Industries products for a specific application. While defective products will be replaced without charge if promptly returned,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

INCH TWIN-LEAD ACME SCREW ASSEMBLIES TECHNICAL DATA



REFERENCE NUMBER SYSTEM: TWIN-LEAD ACME SCREW ASSEMBLIES

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



S or M Required

F Optional **S** = Standard. no additional description required M = Modified, additional description required F = Round Flange INCH TWIN-LEAD ACME SCREW ASSEMBLIES TECHNICAL DATA

METRIC ISO TRAPEZOIDAL AND SPEEDY™ SCREWS

(499) 703 35 98

new



sell@nookindustries.ru

POWEFEEMETRIC SCREW ASSEMBLIES

With over thirty years of experience manufacturing precision acme screws, Nook Industries has expanded the PowerAcTM 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.



ISO TRAPEZOIDAL SCREW AND NUT

Similar in construction and materials to PowerAcTM 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 PowerAcTM technical data on pages 50-76 for additional screw and nut details.

Standard lead accuracy: is ±6.25µm / 25mm

Temperature Range: Plastic Nuts: -9° to +79° C Bronze Nuts: -9° to +177° 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.

SpeedyTM 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 ±17.5µm / 25mm Accuracy of ±8.3µm / 25mm available on request

Temperature Range: Plastic Nuts: -40° to +60° C Bronze Nuts: -40° to +200° 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.

METRIC LEAD SCREW AND NUT TECHNICAL DATA

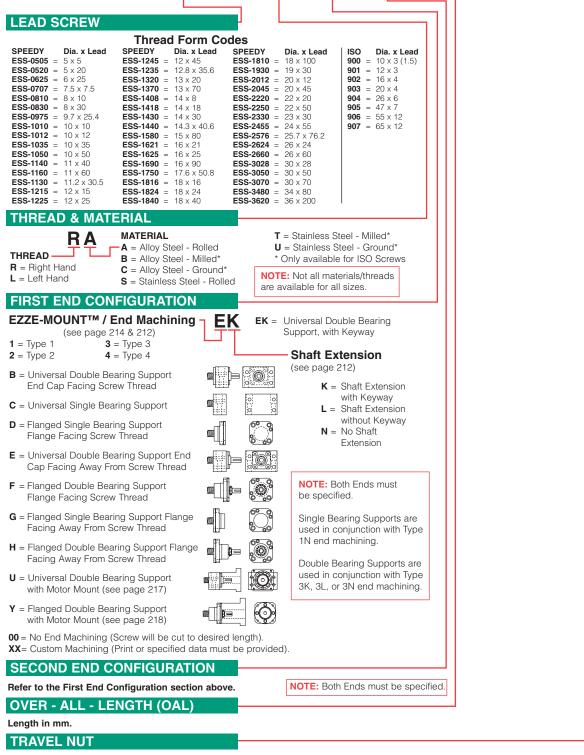




REFERENCE NUMBER SYSTEM: METRIC ISO TRAPEZOIDAL AND SPEEDY™ SCREWS

METRIC SCREW ASSEMBLIES

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



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.

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

20904 = 26 x 6 ISO Trapezoidal Nut

ESN-1625-RBN = 16 x 25 SpeedyTM Bronze Nut

MODIFIER LIST

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

S or M Required

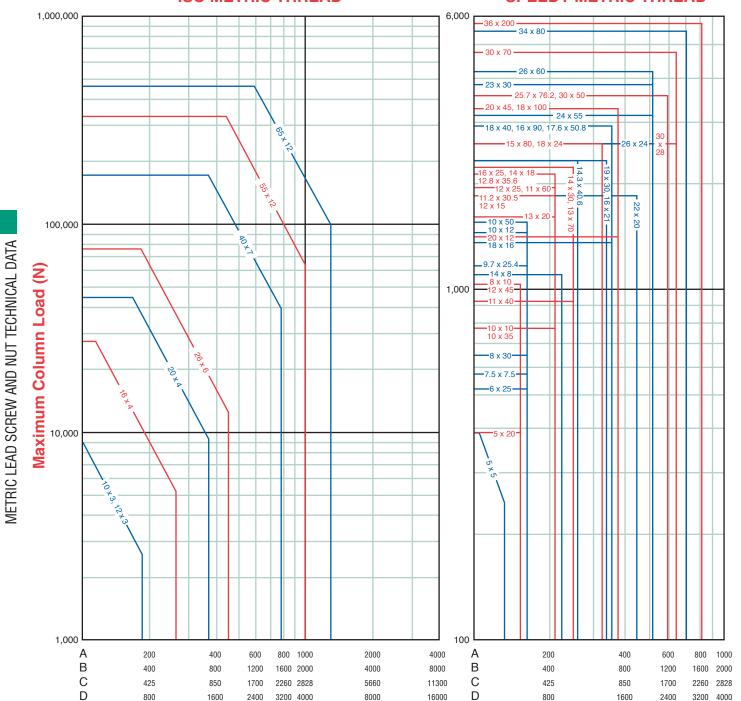
= Standard. no additional description required

M = Modified, additional description required



ISO METRIC THREAD

SPEEDY METRIC THREAD



Maximum Length Between Bearings (mm)

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

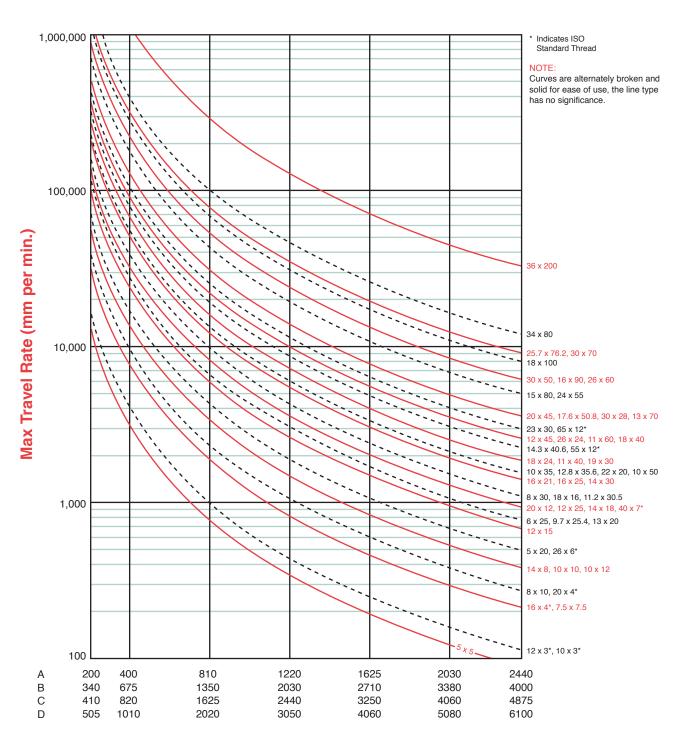
See Page 6 for Reference Description on "A-B-C-D" end fixity.

Metric to Inch Conversions:

1 Newton = .224 lbf1mm = 0.039 in. $1 \text{ N} \cdot \text{m} = 8.85 \text{ in.-lb.}$



CRITICAL SPEED: METRIC ISO TRAPEZOIDAL AND SPEEDY™ SCREWS



Maximum Length Between Bearings (mm)

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.

 $1 \text{ N} \cdot \text{m} = 8.85 \text{ in.-lb.}$

METRIC LEAD SCREW AND NUT TECHNICAL DATA

ASSEMBLIES

5 Speedy[™] **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm

			SCREV	V SIZE
PRODUCT SE	PECIFI	CATIONS	5x5	5x20
Diameter - A	(mm)		5.4	6.0
Lead (mm)	Lead (mm)			20
Pitch (mm)	Pitch (mm)			1.25
Starts	Starts			16
Weight (kg/n	1)		.14	.20
B - root diam	eter (mm)	3.6	5.0
Part No.*	RH	Alloy	ESS-0505-RA	ESS-0520-RA
	NΠ	Stainless	ESS-0505-RS	ESS-0520-RS
	LH	Alloy	_	ESS-0520-LA
	LII	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 Ra	ise 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 NU	Ī	5x5	5x20
Load Rating	(N)	300	300
Efficiency		78.2%	86.1%
Torque to Ra	ise 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 Diam	C Nut Diameter		20.5
D Pilot Diar	neter	21	21
E Flange Di	E Flange Diameter		38
F BCD Mou	F BCD Mounting Hole		29
G Mounting	Hole Diameter	4.2	4.2
H Nut	Bronze	18	18
Lengin	Length Plastic		25
J Pilot Width		3	3
K Flange Width		5	5

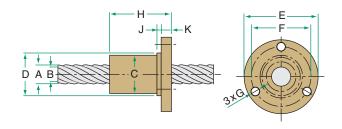
(499) 703 35 98

sell@nookindustries.ru









LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



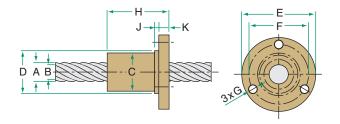
E-100 12 0z. Lead Screw Spray Lubricant



PAG-1 1 lb. Lead Screw Grease







6 and 7.5 Speedy™ **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm

		SCREW SIZE		
PRODUCT SE	PECIFI	CATIONS	6x25	7.5x7.5
Diameter - A	Diameter - A (mm)		7.4	7.7
Lead (mm)			25	7.5
Pitch (mm)	Pitch (mm)		1.25	1.25
Starts	Starts		20	6
Weight (kg/n	1)		.30	.31
B - root diam	eter (mm)	6.3	5.9
Part No.*	RH	Alloy	ESS-0625-RA	ESS-0707-RA
	NII	Stainless	ESS-0625-RS	ESS-0707-RS
	LH Alloy		ESS-0625-LA	_
	LII	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)	Weight (g)		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)	Weight (g)		15
Part No.	RH	ESN-0625-RPN	ESN-0707-RPN
	LH	ESN-0625-LPN	_

NUT DIMENS	SIONS (mm)	6x25	7.5x7.5
C Nut Diam	eter	20.5	20.5
D Pilot Dia	neter	21	21
E Flange D	iameter	38	38
F BCD Mou	F BCD Mounting Hole		29
G Mounting	G Mounting Hole Diameter		4.2
H Nut	Bronze	18	18
Length	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 0z. 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

ASSEMBLIES

8 Speedy[™] **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm

		SCREW SIZE		
PRODUCT SE	PRODUCT SPECIFICATIONS		8x10	8x30
Diameter - A	(mm)		8.2	8.6
Lead (mm)			10	30
Pitch (mm)	Pitch (mm)		2.5	1.25
Starts	Starts		4	24
Weight (kg/n	Weight (kg/m)		.30	.44
B - root diam	eter (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
	LII	Stainless	_	ESS-0830-LS

^{*} Custom Lengths Available - See page 47 to specify length

BRONZE N	IUT	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 Diam	C Nut Diameter		20.5
D Pilot Dia	meter	24	21
E Flange Diameter		42	38
F BCD Mounting Hole		32	29
G Mounting	Hole Diameter	4.2	4.2
H Nut	Bronze	18	18
Length Plastic		25	25
J Pilot Width		3	3
K Flange Width		5	5

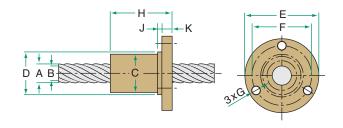
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LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 0z. Lead Screw Spray Lubricant



PAG-1 1 lb. Lead Screw Grease



Prolong lead screw and nut performance with these special lubricants.

LUBRICANT



E-100 12 0z. 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.

10mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

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

			SCREW SIZE
PRODUCT SF	PRODUCT SPECIFICATIONS		Tr 10x3(1.5)
Lead (mm)			3
Pitch (mm)			1.5
Starts			2
Lash (Maxim	um A	xial in mm)	0.13
Weight (kg/n	1)		.50
Thread Code			900
900mm	RH	4140	14900
Standard Length	11111	Stainless	54900
Part No.*	LH	4140	
		Stainless	_
1800mm	RH	4140	15900
Standard Length		Stainless	55900
Part No.*	LH	4140	
		Stainless	_

* Custom Lengths Available - See page 47 to specify length

3	,	
BRONZ/AC BRONZE NUT		Tr 10x3(1.5)
Efficiency		44%
Torque to Raise 1 kN (N·m)		1.090
Weight (g)	Weight (g)	
Part No.	RH	20900
	LH	_

PLAST/AC PL	Tr 10x3(1.5)		
Efficiency	49%		
Torque to Ra	Torque to Raise 1 kN (N·m)		
Weight (g)		4.5	
Part No. RH		30900	
	TH	_	

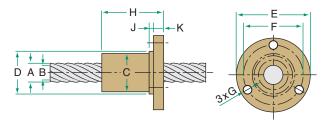
FLANGE - STEEL	Tr 10x3(1.5)
Weight (kg)	.09
Part No.	72001





10 Speedy[™] METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm



				SCREV	V SIZE	
PRODUCT SPECIFICATIONS 10x10 10x12 10x35				10x50		
Diameter - A	(mm)		10.0	10.0	10.1	10.0
Lead (mm)			10	12	35	50
Pitch (mm)	Pitch (mm)		1.25	2.5	0.36	5
Starts	Starts		8	4	28	10
Weight (kg/n	1)		.54	.46	.59	.48
B - root diam	eter (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
	LII	Stainless	_	ESS-1012-LS	ESS-1035-LS	ESS-1050-LS

* Custom Lengths Available - See page 47 to specify length

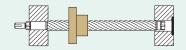
BRONZE NUT		10x10	10x12	10x35	10x50
Load Rating	(N)	780	1560	780	1625
Efficiency		69.8%	72.5%	78.2%	75.1%
Torque to Raise 1 kN (N·m)		22.9	2.6	7.1	10.6
Weight (g)		95	100	95	105
Part No.	RH	ESN-1010-RBN	ESN-1012-RBN	ESN-1035-RBN	ESN-1050-RBN
	LH	_	ESN-1012-LBN	ESN-1035-LBN	ESN-1050-LBN

PLASTIC NUT		10x10	10x12	10x35	10x50
Load Rating	(N)	600	1250	600	1250
Efficiency		79.2%	81.3%	86.1%	84.2%
Torque to Ra	Torque to Raise 1 kN (N·m)		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 DIMEN	SIONS (mm)	10x10	10x12	10x35	10x50
C Nut Dian	neter	23.5	23.5	23.5	25.5
D Pilot Dia	meter	24	24	24	26
E Flange D	iameter	42	42	42	46
F BCD Mou	inting Hole	32	32	32	36
G Mounting	g Hole Diameter	4.2	4.2	4.2	5.1
H Nut	Bronze	18	18	18	30
Length	Plastic	25	25	25	42
J Pilot Wid	th	3	3	3	3
K Flange V	/idth	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.



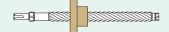
PAG-1 1 lb. Lead Screw Grease

E-100 12 0z. Lead Screw Spray Lubricant

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.

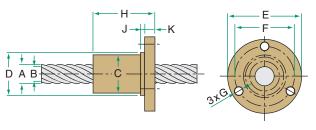


See page 212 for complete product details.







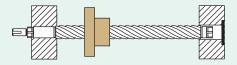


11 and 11.2 Speedy[™] **METRIC THREAD**

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-MOUNTTM 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.



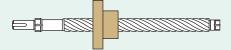
E-100 12 0z. Lead Screw Spray Lubricant



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.

				SCREW SIZE	
PRODUCT SPECIFICATIONS			11x40	11x60	11.2x30.5
Diameter - A	(mm))	11.5	11.7	11.2
Lead (mm)			40	60	30.5
Pitch (mm)	Pitch (mm)		1.25	5	5.08
Starts	Starts		32	12	6
Weight (kg/m	Weight (kg/m)		.78	.69	.58
B - root diam	eter (mm)	10.2	9.1	8.0
Part No.*	RH	Alloy	ESS-1140-RA	ESS-1160-RA	ESS-1130-RA
	nii	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	ſ	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 NU	Т	11x40	11x60	11.2x30.5
Load Rating	(N)	800	1500	1400
Efficiency		86.0%	84.0%	86.1%
Torque to Ra	Torque to Raise 1 kN (N·m)		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 DIMEN	SIONS (mm)	11x40	11x60	11.2x30.5
C Nut Dian	neter	23.5	25.5	23.5
D Pilot Dia	meter	24	26	24
E Flange D	iameter	42	46	42
F BCD Mou	ınting Hole	32	36	32
G Mountin	g Hole Diameter	4.2	5.1	4.2
H Nut	Bronze	18	30	18
Length	Plastic	25	42	25
J Pilot Wid	lth	3	3	3
K Flange V	Vidth	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

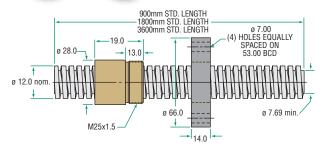
	SCREW SIZE		
PRODUCT SPECIFICATIONS			Tr 12x3
Lead (mm)			3
Pitch (mm)			3
Starts			1
Lash (Maxim	Lash (Maximum Axial in mm)		
Weight (kg/n	Weight (kg/m)		
Thread Code			901
900mm	RH	4140	14901
Standard Length	1111	Stainless	54901
Part No.*	LH	4140	_
		Stainless	_
1800mm	1800mm RH 4140		15901
Stanuaru		Stainless	55901
Length Part No.*	LH	4140	_
	LII	Stainless	_

^{*} Custom Lengths Available - See page 47 to specify length

BRONZ/AC B	BRONZ/AC BRONZE NUT		
Efficiency	33%		
Torque to Ra	1.119		
Weight (g)		84	
Part No. RH		20901	
	LH	_	

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

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



LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 0z. Lead Screw Spray Lubricant

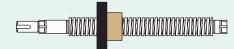


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



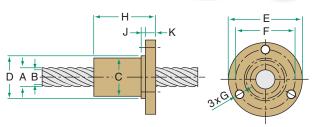
See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA







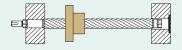


12 and 12.8 Speedy™ METRIC THREAD

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.



PAG-1 1 lb. Lead Screw Grease

E-100 12 0z. 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.

			SCREW SIZE				
PRODUCT SPECIFICATIONS			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	Starts		5	5	36	7	
Weight (kg/n	1)		.72	.63	.98	.79	
B - root diam	eter (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	
	NIII	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 Nu	C Nut Diameter		23.5	23.5	23.5	23.5
D Pil	D Pilot Diameter		24	24	24	24
E Fla	E Flange Diameter		42	42	42	42
F BC	F BCD Mounting Hole		32	32	32	32
G Mo	ounting	Hole Diameter	4.2	4.2	4.2	4.2
H Nu		Bronze	18	18	18	18
Lei	Length Plastic		25	25	25	25
J Pilot Width		3	3	3	3	
K Fla	ange W	idth	5	5	5	5

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.

13 Speedy[™] METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

			SCREV	/ SIZE	
PRODUCT SPECIFICATIONS		13x20	13x70		
Diameter - A	(mm)		13.3	13.5	
Lead (mm)			20	70	
Pitch (mm)	Pitch (mm)		5	5	
Starts	Starts		4	14	
Weight (kg/n	Weight (kg/m)		.75	.94	
B - root diam	eter (mm)	8.8	10.9	
Part No.*	RH	Alloy	ESS-1320-RA	ESS-1370-RA	
	ПП	Stainless	ESS-1320-RS	ESS-1370-RS	
	LH		_	ESS-1370-LA	
	LII	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 DIMENS	SIONS (mm)	13x20	13x70
C Nut Diam	C Nut Diameter		25.5
D Pilot Dia	D Pilot Diameter		26
E Flange D	E Flange Diameter		46
F BCD Mou	F BCD Mounting Hole		36
G Mounting	Hole Diameter	5.1	5.1
H Nut	Bronze	30	30
Lengin	Length Plastic		42
J Pilot Wid	J Pilot Width		3
K Flange W	idth	7	7

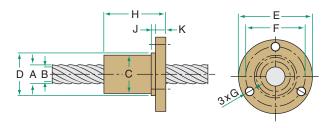
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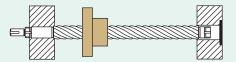






LEAD SCREW ASSEMBLIES

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 0z. Lead Screw Spray Lubricant

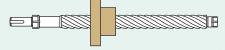


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

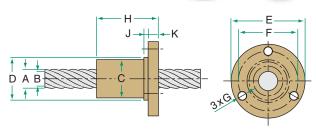
Machining for Nook standard ends or custom requirement available.









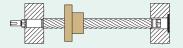


14 and 14.3 Speedy™ METRIC THREAD

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

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 0z. 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.

			SCREW SIZE			
PRODUCT SPECIFICATIONS			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)	Pitch (mm)		4	3	1	5.08
Starts		2	6	6	8	
Weight (kg/n	1)		.88	1.04	.92	1.03
B - root diam	eter (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
	NП	Stainless	ESS-1408-RS	ESS-1418-RS	ESS-1430-RS	ESS-1440-RS
	LH	Alloy	_	ESS-1418-LA	_	ESS-1440-LA
	LII	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

NU	JT DIMENS	SIONS (mm)	14x8	14x18	14x30	14.3x40.6
C	Nut Diam	eter	25.5	25.5	25.5	25.5
D	Pilot Dia	meter	26	26	26	26
E	Flange Di	iameter	46	46	46	46
F	BCD Mou	nting Hole	36	36	36	36
G	Mounting	J Hole Diameter	5.1	5.1	5.1	5.1
Н	Nut	Bronze	30	30	30	30
	Length	Plastic	42	42	42	42
J	Pilot Wid	th	3	3	3	3
K	K Flange Width		7	7	7	7

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.

15 Speedy[™] METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

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

* Custom Lengths Available - See page 47 to specify length

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

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

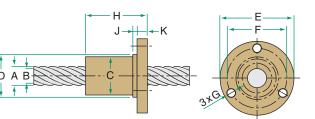
NUT DIMENS	NUT DIMENSIONS (mm)	
C Nut Diam	neter	29.5
D Pilot Dia	meter	30
E Flange D	iameter	49
F BCD Mou	nting Hole	39
G Mounting	g Hole Diameter	5.1
H Nut	Bronze	30
Length	Plastic	42
J Pilot Width		3
K Flange Width		7

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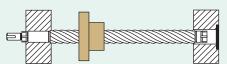
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LEAD SCREW ASSEMBLIES

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 0z. Lead Screw Spray Lubricant

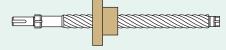


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

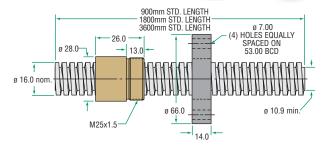
END MACHINING

Machining for Nook standard ends or custom requirement available.









16mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

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

			SCREW SIZE
PRODUCT SI	PRODUCT SPECIFICATIONS		Tr 16x4
Lead (mm)			4
Pitch (mm)			4
Starts			1
Lash (Maxim	ium A	xial in mm)	0.24
Weight (kg/n	1)		1.21
Thread Code			902
900mm	RH	4140	14902
Standard	NII	Stainless	54902
Length Part No.*	LH	4140	
		Stainless	
1800mm	RH	4140	15902
Standard	MII	Stainless	55902
Length Part No.*	LH	4140	_
		Stainless	_
3600mm	RH	4140	16902
Standard	1111	Stainless	56902
Length Part No.*†	LH	4140	_
		Stainless	_

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

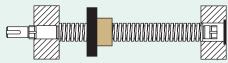
BRONZ/AC B	Tr 16x4	
Efficiency	41%	
Torque to Ra	1.560	
Weight (g)	Weight (g)	
Part No.	RH	20902
	LH	_

PLAST/AC PL	Tr 16x4	
Efficiency	46%	
Torque to Ra	1.374	
Weight (g)	18	
Part No.	RH	30902
	LH	

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

TRAPEZOIDAL SCREW ASSEMBLIES

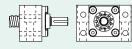
These assemblies are shipped with screw, nut, flange, and bearing supports.



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 0z. Lead Screw Spray Lubricant



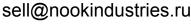
See page 14 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA

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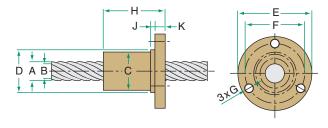
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16 and 17.6 Speedy™ **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm



			SCREW SIZE			
PRODUCT SPECIFICATIONS			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	Starts		7	5	18	10
Weight (kg/n	Weight (kg/m)		1.42	1.17	1.54	1.61
B - root diam	eter (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
	ПП	Stainless	ESS-1621-RS	ESS-1625-RS	ESS-1690-RS	ESS-1750-RS
	LH	Alloy	ESS-1621-LA	_	ESS-1690-LA	_
	LII	Stainless	ESS-1621-LS	_	ESS-1690-LS	_

* Custom Lengths Available - See page 47 to specify length

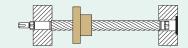
BRONZE NUT		16x21	16x25	16x90	17.6x50.8
Load Rating (N)		2340	2015	2925	2860
Efficiency		73.3%	75.5%	74.3%	78.5%
Torque to Raise 1 kN (N·m)		4.6	5.3	19.3	10.3
Weight (g)		204	213	200	200
Part No.	RH	ESN-1621-RBN	ESN-1625-RBN	ESN-1690-RBN	ESN-1750-RBN
	LH	ESN-1621-LBN	_	ESN-1690-LBN	_

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 Ra	Torque to Raise 1 kN (N·m)		4.7	17.1	9.4
Weight (g)	Weight (g)		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 DIME	NSIONS (mm)	16x21	16x25	16x90	17.6x50.8
C Nut Diameter		29.5	29.5	29.5	29.5
D Pilot Di	ameter	30	30	30	30
E Flange Diameter		49	49	49	49
F BCD Mc	F BCD Mounting Hole		39	39	39
G Mounti	G Mounting Hole Diameter		5.1	5.1	5.1
H Nut	Bronze	30	30	30	30
Length	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 0z. Lead Screw Spray Lubricant

See page 14 for complete product details.

END MACHINING

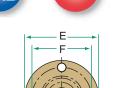
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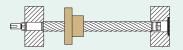


18 Speedy[™] **METRIC THREAD**

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.



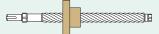
PAG-1 1 lb. Lead Screw Grease

E-100 12 0z. 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.

			SCREW SIZE			
PRODUCT SPECIFICATIONS			18x16	18x24	18x40	18x100
Diameter - A	(mm))	18.0	18.7	17.9	18.8
Lead (mm)			16	24	40	100
Pitch (mm)	Pitch (mm)		4	3	5	5
Starts	Starts		4	8	8	20
Weight (kg/n	Weight (kg/m)		1.64	1.85	1.60	1.92
B - root diam	eter (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
	NII	Stainless	ESS-1816-RS	ESS-1824-RS	ESS-1840-RS	ESS-1810-RS
	LH	Alloy	_	ESS-1824-LA	ESS-1840-LA	ESS-1810-LA
	LII	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 Ra	Torque to Raise 1 kN (N·m)		5.2	8.2	21.4
Weight (g)	Weight (g)		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 Ra	Torque to Raise 1 kN (N·m)		4.6	7.4	19.0
Weight (g)	Weight (g)		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 D	iameter	30	30	30	30
E Flange	E Flange Diameter		49	49	49
F BCD Mounting Hole		39	39	39	39
G Mount	G Mounting Hole Diameter		5.1	5.1	5.1
H Nut			30	30	30
Length	Plastic	42	42	42	42
J Pilot Width		3	3	3	3
K Flange	Width	7	7	7	7

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.

19 Speedy[™] **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm

			SCREW SIZE
PRODUCT SE	19x30		
Diameter - A	Diameter - A (mm)		
Lead (mm)	30		
Pitch (mm)			5
Starts	6		
Weight (kg/n	1)		1.68
B - root diam	eter (mm)	14.2
Part No.*	RH	Alloy	ESS-1930-RA
	NΠ	Stainless	ESS-1930-RS
	LH	Alloy	_
	LII	Stainless	_

* Custom Lengths Available - See page 47 to specify length

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

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

NUT DIMENS	NUT DIMENSIONS (mm)		
C Nut Diam	neter	29.5	
D Pilot Dia	30		
E Flange D	E Flange Diameter		
F BCD Mou	nting Hole	39	
G Mounting	g Hole Diameter	5.1	
H Nut	Bronze	30	
Length	Plastic	42	
J Pilot Wid	th	3	
K Flange W	/idth	7	

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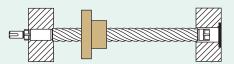
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LEAD SCREW ASSEMBLIES

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



See page 41 for complete product details.

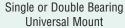
EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.









Single or Double Bearing 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 0z. Lead Screw Spray Lubricant

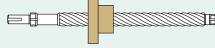


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

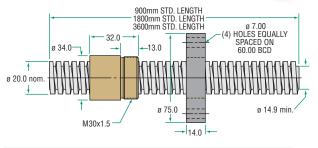
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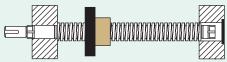






TRAPEZOIDAL SCREW ASSEMBLIES

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 0z. Lead Screw Spray Lubricant

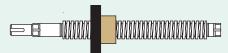


PAG-1 1 lb. Lead Screw Grease

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

			SCREW SIZE
PRODUCT S	PRODUCT SPECIFICATIONS		Tr 20x4
Lead (mm)			4
Pitch (mm)			4
Starts			1
Lash (Maxin	num A	xial in mm)	0.24
Weight (kg/r	n)		2.00
Thread Code)		903
900mm	RH	4140	14903
Standard	nп	Stainless	54903
Length Part No.*	LH	4140	_
		Stainless	
1800mm	RH	4140	15903
Standard	1111	Stainless	55903
Length Part No.*	LH	4140	_
	-11	Stainless	_
3600mm	Standard RH	4140	16903
Standard Length		Stainless	56903
Part No.*†	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 B	RONZE NUT	Tr 20x4
Efficiency		35%
Torque to Ra	ise 1 kN (N·m)	1.818
Weight (g)		173
Part No.	RH	20903
	LH	_

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

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

ASSEMBLIES

20 Speedy[™] **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm

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

* Custom Lengths Available - See page 47 to specify length

BRONZE NUT	ſ	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 NU	Г	20x12	20x45
Load Rating	(N)	1200	3250
Efficiency		70.8%	85.7%
Torque to Ra	ise 1 kN (N·m)	2.7	8.4
Weight (g)		65	65
Part No.	RH	ESN-2012-RPN	ESN-2045-RPN
	LH	_	_

NUT DIMENS	SIONS (mm)	20x12	20x45
C Nut Diam	eter	35.5	35.5
D Pilot Dia	meter	36	36
E Flange D	iameter	59	59
F BCD Mou	nting Hole	47	47
G Mounting	Hole Diameter	6.2	6.2
H Nut	Bronze	32	32
Length	Plastic	46	46
J Pilot Wid	th	5	5
K Flange W	idth	8	8

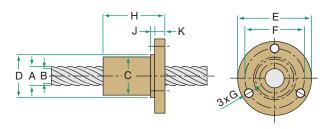
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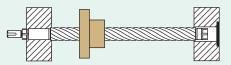






LEAD SCREW ASSEMBLIES

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 0z. Lead Screw Spray Lubricant

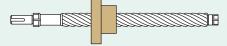


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

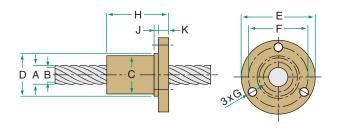
Machining for Nook standard ends or custom requirement available.











22 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

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

* Custom Lengths Available - See page 47 to specify length

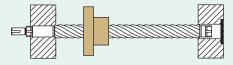
BRONZE NUT	ſ	22x20
Load Rating	(N)	1820
Efficiency		68.0%
Torque to Raise 1 kN (N·m)		4.7
Weight (g)		298
Part No.	RH	ESN-2220-RBN
	LH	_

PLASTIC NU	Г	22x20
Load Rating	(N)	1400
Efficiency		77.7%
Torque to Ra	ise 1 kN (N·m)	4.1
Weight (g)		61
Part No.	RH	ESN-2220-RPN
	LH	_

NUT DIMENS	SIONS (mm)	22x20
C Nut Diam	ieter	35.5
D Pilot Dia	meter	36
E Flange Diameter		59
F BCD Mounting Hole		47
G Mounting	j Hole Diameter	6.2
H Nut	Bronze	32
Length	Plastic	46
J Pilot Width		5
K Flange W	/idth	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: 22mm Screws See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 0z. Lead Screw Spray Lubricant

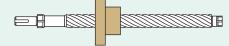


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



ASSEMBLIES

23 and 24 Speedy™ **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm

		SCREW SIZE		
PRODUCT SE	PRODUCT SPECIFICATIONS		23x30	24x55
Diameter - A	Diameter - A (mm)		23.0	24.0
Lead (mm)			30	55
Pitch (mm)			3	5
Starts	Starts		10	11
Weight (kg/m)		2.89	3.03	
B - root diam	B - root diameter (mm)		20.0	20.1
Part No.*	RH	Alloy	ESS-2330-RA	ESS-2455-RA
	NIII	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 DIMENS	NUT DIMENSIONS (mm)		24x55
C Nut Diameter		35.5	35.5
D Pilot Diameter		36	36
E Flange D	E Flange Diameter		59
F BCD Mounting Hole		47	47
G Mounting Hole Diameter		6.2	6.2
H Nut	Bronze	32	32
Length	Plastic	46	46
J Pilot Width		5	5
K Flange Width		8	8

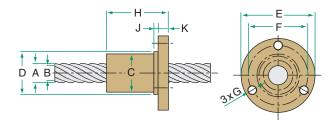
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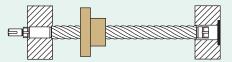






LEAD SCREW ASSEMBLIES

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 0z. Lead Screw Spray Lubricant

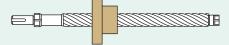


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

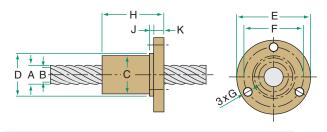
Machining for Nook standard ends or custom requirement available.











25.7 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

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

* Custom Lengths Available - See page 47 to specify length

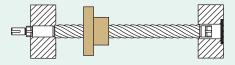
• 1		. , , .
BRONZE NUT		25.7x76.2
Load Rating (N)		3640
Efficiency		78.5%
Torque to Raise 1 kN (N·m)		15.4
Weight (g)		401
Part No.	RH	ESN-2576-RBN
	LH	ESN-2576-LBN

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 Diam	neter	41.5
D Pilot Dia	meter	42
E Flange D	E Flange Diameter	
F BCD Mou	F BCD Mounting Hole	
G Mounting	G Mounting Hole Diameter	
H Nut	Bronze	35
Length	Plastic	50
J Pilot Width		5
K Flange Width		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: 25.7mm Screw See page 214 for complete product details.

LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



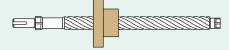
E-100 12 0z. Lead Screw Spray Lubricant



See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.









26mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

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

			SCREW SIZE
PRODUCT SF	PECIFI	CATIONS	Tr 26x6
Lead (mm)			6
Pitch (mm)			6
Starts			1
Lash (Maxim	um A	xial in mm)	0.30
Weight (kg/n	1)		3.2
Thread Code		904	
900mm	RH	4140	14904
Standard	nii	Stainless	54904
Length Part No.*	LH	4140	_
		Stainless	
1800mm	RH	4140	15904
Standard Length		Stainless	55904
Part No.*	LH	4140	_
		Stainless	_
3600mm	RH	4140	16904
Standard Length		Stainless	56904
Part No.*†	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 26x6
Efficiency		39%
Torque to Raise 1 kN (N·m)		2.469
Weight (g)		440
Part No.	RH	20904
	LH	_

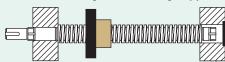
PLAST/AC PLASTIC NUT		Tr 26x6
Efficiency		44%
Torque to Raise 1 kN (N·m)		2.164
Weight (g)		79
Part No.	RH	30904
	LH	_

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

900mm STD. LENGTH 1800mm STD. LENGTH 3600mm STD. LENGTH ø 7.00 HOLES EQUALLY SPACED ON ø 45.0-→ 15.0 70.00 BCD M40x1.5

TRAPEZOIDAL SCREW ASSEMBLIES

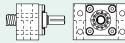
These assemblies are shipped with screw, nut, flange, and bearing supports.



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 0z. Lead Screw Spray Lubricant

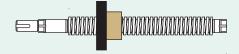


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.



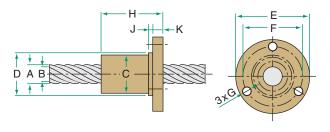
See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA







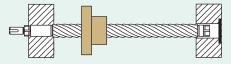


26 Speedy™ METRIC THREAD

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.



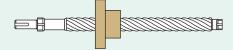
E-100 12 0z. Lead Screw Spray Lubricant



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.

			SCREW SIZE	
PRODUCT SF	PECIFI	CATIONS	26x24	26x60
Diameter - A	(mm))	26.0	26.0
Lead (mm)			24	60
Pitch (mm)	Pitch (mm)		4	5
Starts	Starts		6	12
Weight (kg/m	Weight (kg/m)		3.69	3.61
B - root diam	eter (mm)	22.3	22.2
Part No.*	RH	Alloy	ESS-2624-RA	ESS-2660-RA
	Stainless		ESS-2624-RS	ESS-2660-RS
	LH Alloy			1
	-11	Stainless	_	_

^{*} Custom Lengths Available - See page 47 to specify length

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

PLASTIC NU	Г	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 DIMENS	SIONS (mm)	26x24	26x60
C Nut Diam	eter	41.5	41.5
D Pilot Dia	meter	42	42
E Flange D	E Flange Diameter		64
F BCD Mou	F BCD Mounting Hole		53
G Mounting	Hole Diameter	6.2	6.2
H Nut	Bronze	35	35
Length	Plastic	50	50
J Pilot Width		5	5
K Flange W	idth	8	8

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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.







30 Speedy[™] **METRIC THREAD**

LEAD ACCURACY: ±17.5µm/25mm

				SCREW SIZE	
PRODUCT SF	PRODUCT SPECIFICATIONS		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	1)		5.01	4.68	4.92
B - root diam	eter (mm)	26.5	25.3	26.2
Part No.*	RH	Alloy	ESS-3028-RA	ESS-3050-RA	ESS-3070-RA
	nii	Stainless	ESS-3028-RS	ESS-3050-RS	ESS-3070-RS
	LH Alloy		_		
	-11	Stainless	_	_	_

^{*} Custom Lengths Available - See page 47 to specify length

BRONZE NUT	ī	30x28	30x50	30x70
Load Rating	(N)	2600	3640	4875
Efficiency		68.4%	76.1%	78.2%
Torque to Ra	ise 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	_	_	_

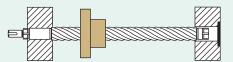
PLASTIC NU	Γ	30x28	30x50	30x70
Load Rating	(N)	2000	2800	3750
Efficiency		78.1%	84.2%	85.8%
Torque to Ra	ise 1 kN (N·m)	5.7	9.4	13.0
Weight (g)		68	72	70
Part No.	RH	ESN-3028-RPN	ESN-3050-RPN	ESN-3070-RPN
	LH	_		

NUT DIMENS	SIONS (mm)	30x28	30x50	30x70
C Nut Diam	eter	41.5	41.5	41.5
D Pilot Dia	meter	42	42	42
E Flange D	iameter	64	64	64
F BCD Mou	nting Hole	53	53	53
G Mounting	Hole Diameter	6.2	6.2	6.2
H Nut	Bronze	35	35	35
Length	Plastic	50	50	50
J Pilot Wid	th	5	5	5
K Flange W	/idth	8	8	8

АВ

LEAD SCREW ASSEMBLIES

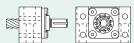
These assemblies are shipped with screw, nut, flange, and bearing supports.



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 0z. Lead Screw Spray Lubricant

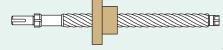


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

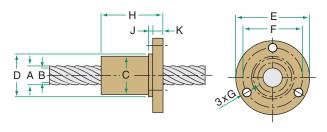
Machining for Nook standard ends or custom requirement available.











34 and 36 Speedy™ METRIC THREAD

LEAD ACCURACY: ±17.5µm/25mm

SCREW SIZE 36x200 34x80 PRODUCT SPECIFICATIONS 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 ESS-3480-RA ESS-3620-RA Part No.* Alloy ESS-3480-RS ESS-3620-RS **Stainless** Alloy LH **Stainless**

* Custom Lengths Available - See page 47 to specify length

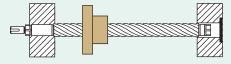
Coo page 17 to Spoony longth				
BRONZE NUT		34x80	36x200	
Load Rating	(N)	5525	5850	
Efficiency		78.2%	73.6%	
Torque to Ra	Torque to Raise 1 kN (N·m)		43.2	
Weight (g)		810	750	
Part No.	RH	ESN-3480-RBN	ESN-3620-RBN	
	LH	_	_	

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

NUT DIMENS	SIONS (mm)	34x80	36x200
C Nut Diam	C Nut Diameter		49.5
D Pilot Diar	neter	50	50
E Flange Di	E Flange Diameter		80
F BCD Mou	F BCD Mounting Hole		65
G Mounting	G Mounting Hole Diameter		9.0
H Nut	Bronze	50	50
Length	Plastic	70	70
J Pilot Width		10	10
K Flange W	idth	12	12

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 0z. Lead Screw Spray Lubricant

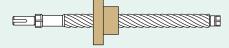


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.









40mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	55160	176512

			SCREW SIZE
PRODUCT SE	PRODUCT SPECIFICATIONS		
Lead (mm)			7
Pitch (mm)			7
Starts			1
Lash (Maxim	um A	xial in mm)	0.32
Weight (kg/n	1)		8.16
Thread Code			905
900mm	RH	4140	14905
Standard		Stainless	54905
Length Part No.*	LH	4140	
		Stainless	_
1800mm	RH	4140	15905
Standard	l nii	Stainless	55905
Length Part No.*	LH	4140	
		Stainless	_
3600mm	RH	4140	16905
Standard		Stainless	56905
Length Part No.*†	LH	4140	_
	LII	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 40x7
Efficiency		32%
Torque to Raise 1 kN (N·m)		3.503
Weight (g)		900
Part No.	RH	20905
	LH	_

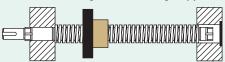
PLAST/AC PLASTIC NUT		Tr 40x7
Efficiency		37%
Torque to Raise 1 kN (N·m)		3.022
Weight (g)		160
Part No.	RH	30905
	LH	_

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

900mm STD. LENGTH 1800mm STD. LENGTH 3600mm STD. LENGTH 40.0 nom. 40.0 nom.

TRAPEZOIDAL SCREW ASSEMBLIES

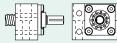
These assemblies are shipped with screw, nut, flange, and bearing supports.



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 0z. Lead Screw Spray Lubricant

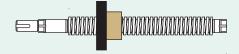


PAG-1 1 lb. Lead Screw Grease

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

METRIC LEAD SCREW AND NUT TECHNICAL DATA

55mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	104287	333718

		SCREW SIZE	
PRODUCT SPECIFICATIONS		Tr 55x12	
Lead (mm)			12
Pitch (mm)			12
Starts			1
Lash (Maxim	ium A	xial in mm)	0.42
Weight (kg/n	1)		14.7
Thread Code			906
900mm	RH	4140	14906
Standard Length	MII	Stainless	
Part No.*	LH	4140	
		Stainless	
1800mm	RH	4140	15906
Standard	ПП	Stainless	_
Length Part No.*	LH	4140	
		Stainless	_
3600mm	RH	4140	16906
Standard	NΠ	Stainless	
Length Part No.*†	LH	4140	_
		Stainless	_

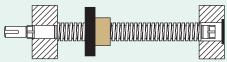
Custom Lengths Available - See page 47 to specify length † Random Mill Length - can vary up to +50.8mm (2") in length

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

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

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 0z. Lead Screw Spray Lubricant



Lead Screw Grease

See page 14 for complete product details.

END MACHINING

Machining for Nook standard ends or custom requirement available.









65mm ISO METRIC THREAD

LEAD ACCURACY: ±6.25µm/25mm

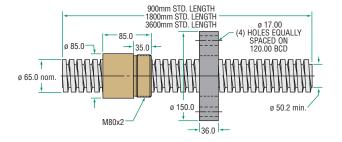
LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	145651	466084

		SCREW SIZE	
PRODUCT SE	PECIFI	CATIONS	Tr 65x12
Lead (mm)			12
Pitch (mm)			12
Starts			1
Lash (Maxim	um A	xial in mm)	0.42
Weight (kg/n	1)		21.3
Thread Code			907
900mm	RH	4140	14907
Standard		Stainless	_
Length Part No.*	LH	4140	_
		Stainless	_
1800mm	RH	4140	15907
Standard	NII	Stainless	_
Length Part No.*	LH	4140	
		Stainless	_
3600mm	RH	4140	16907
Standard Length	1111	Stainless	_
Part No.*†	LH	4140	_
'		Stainless	_

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

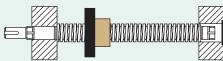
BRONZ/AC BRONZE NUT		Tr 65x12	
Efficiency		33%	
Torque to Raise 1 kN (N·m)		5.775	
Weight (g)		2100	
Part No.	RH	20907	
	LH	_	

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



TRAPEZOIDAL SCREW ASSEMBLIES

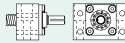
These assemblies are shipped with screw, nut, flange, and bearing supports.

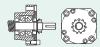


See page 41 for complete product details.

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 0z. Lead Screw Spray Lubricant

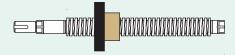


PAG-1 1 lb. Lead Screw Grease

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





QUICK REFERENCE: METRIC LEAD SCREWS AND NUTS

(499) 703 35 98

SCREW SIZES					NUT SELECTION						
					В	RONZE		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
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

CONTINUED ON NEXT PAGE

QUICK REFERENCE: METRIC LEAD SCREWS AND NUTS







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