



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

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

METRIC LEAD SCREW AND NUT TECHNICAL DATA



**ISO TRAPEZOIDAL SCREW AND NUT**

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

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

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



**SPEEDY™ SCREW AND NUT**

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

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

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

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

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

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

**LEAD SCREW**

**Thread Form Codes**

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

**THREAD & MATERIAL**

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

\* Only available for ISO Screws

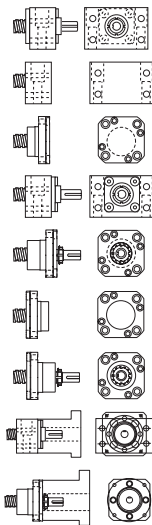
**NOTE:** Not all materials/threads are available for all sizes.

**FIRST END CONFIGURATION**

**EZZE-MOUNT™ / End Machining**

- (see page 214 & 212)
- 1 = Type 1
  - 2 = Type 2
  - 3 = Type 3
  - 4 = Type 4

- B = Universal Double Bearing Support End Cap Facing Screw Thread
- C = Universal Single Bearing Support
- D = Flanged Single Bearing Support Flange Facing Screw Thread
- E = Universal Double Bearing Support End Cap Facing Away From Screw Thread
- F = Flanged Double Bearing Support Flange Facing Screw Thread
- G = Flanged Single Bearing Support Flange Facing Away From Screw Thread
- H = Flanged Double Bearing Support Flange Facing Away From Screw Thread
- U = Universal Double Bearing Support with Motor Mount (see page 217)
- Y = Flanged Double Bearing Support with Motor Mount (see page 218)



**EK** EK = Universal Double Bearing Support, with Keyway

**Shaft Extension**  
(see page 212)

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

**NOTE:** Both Ends must be specified.

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

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

**SECOND END CONFIGURATION**

Refer to the First End Configuration section above.

**NOTE:** Both Ends must be specified.

**OVER - ALL - LENGTH (OAL)**

Length in mm.

**TRAVEL NUT**

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

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

**Example:**

20904 = 26 x 6 ISO Trapezoidal Nut

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

**MODIFIER LIST**

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

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

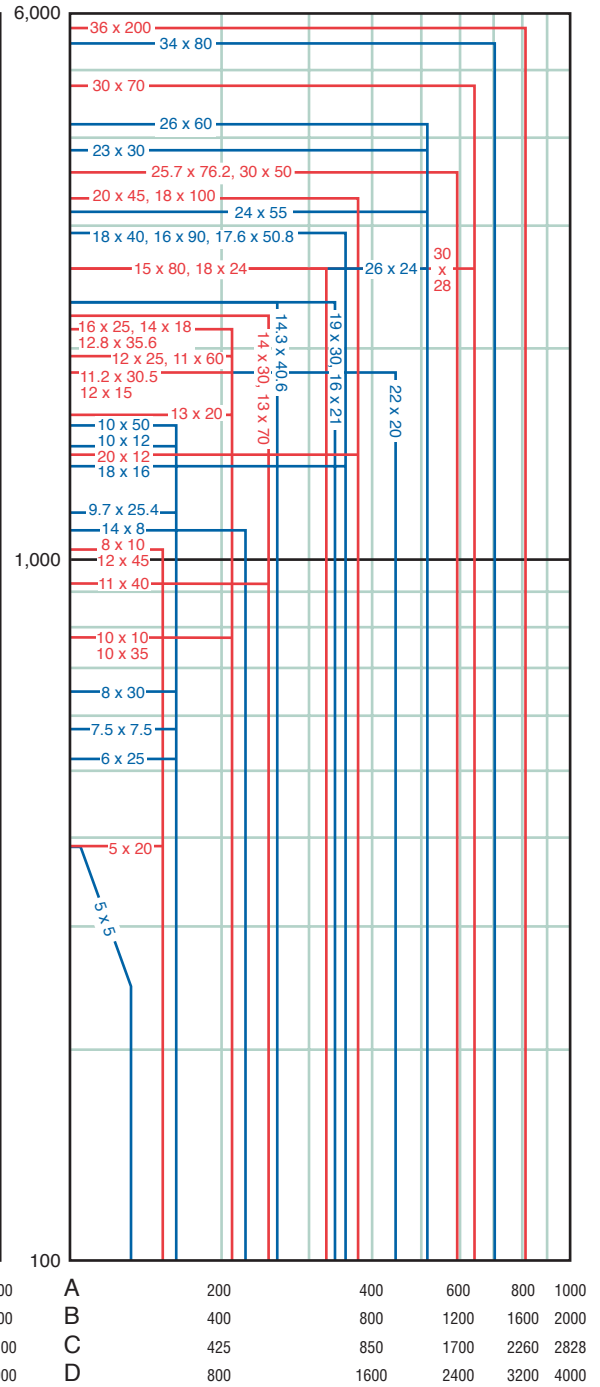
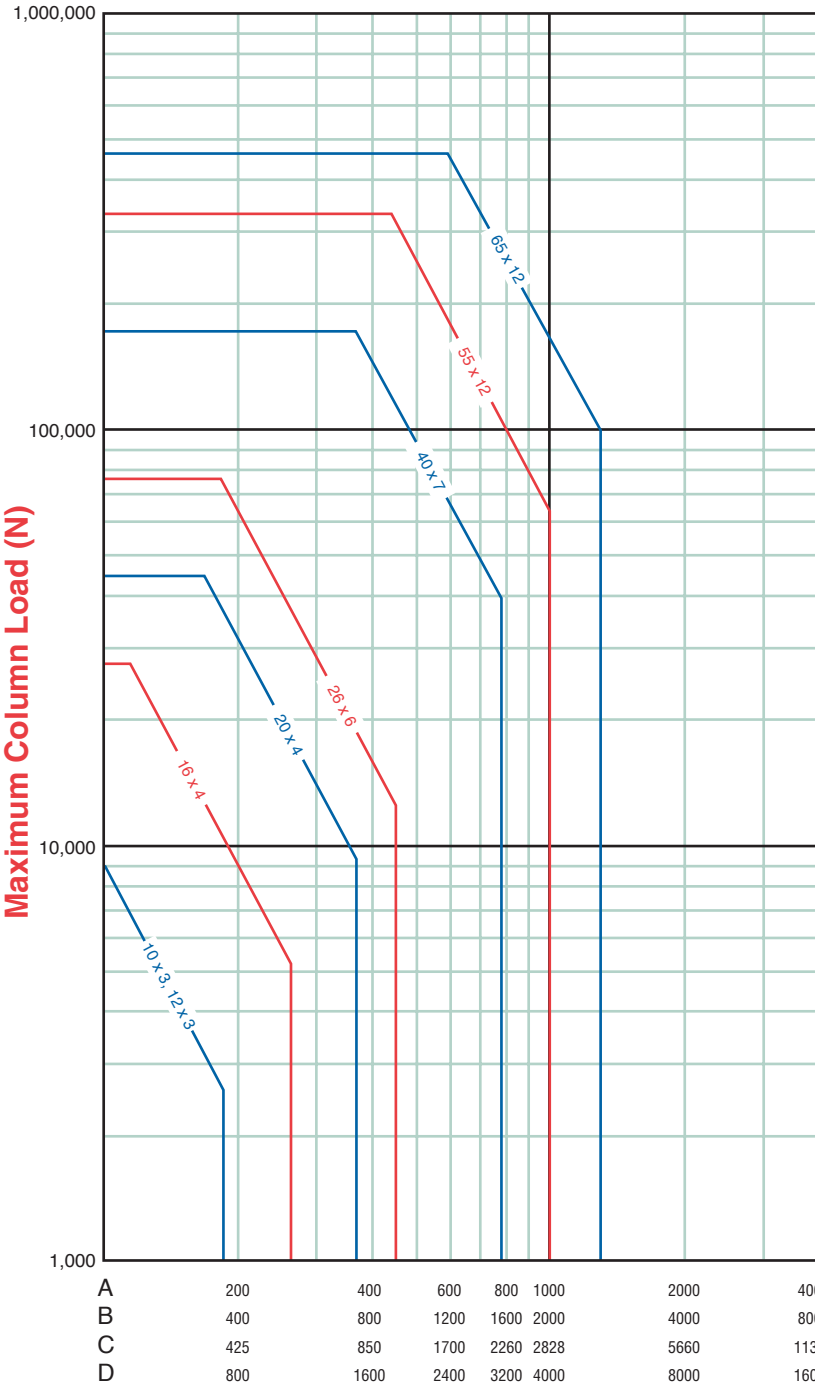
**M** = Modified, additional description required



**ISO METRIC THREAD**

**SPEEDY METRIC THREAD**

METRIC LEAD SCREW AND NUT TECHNICAL DATA



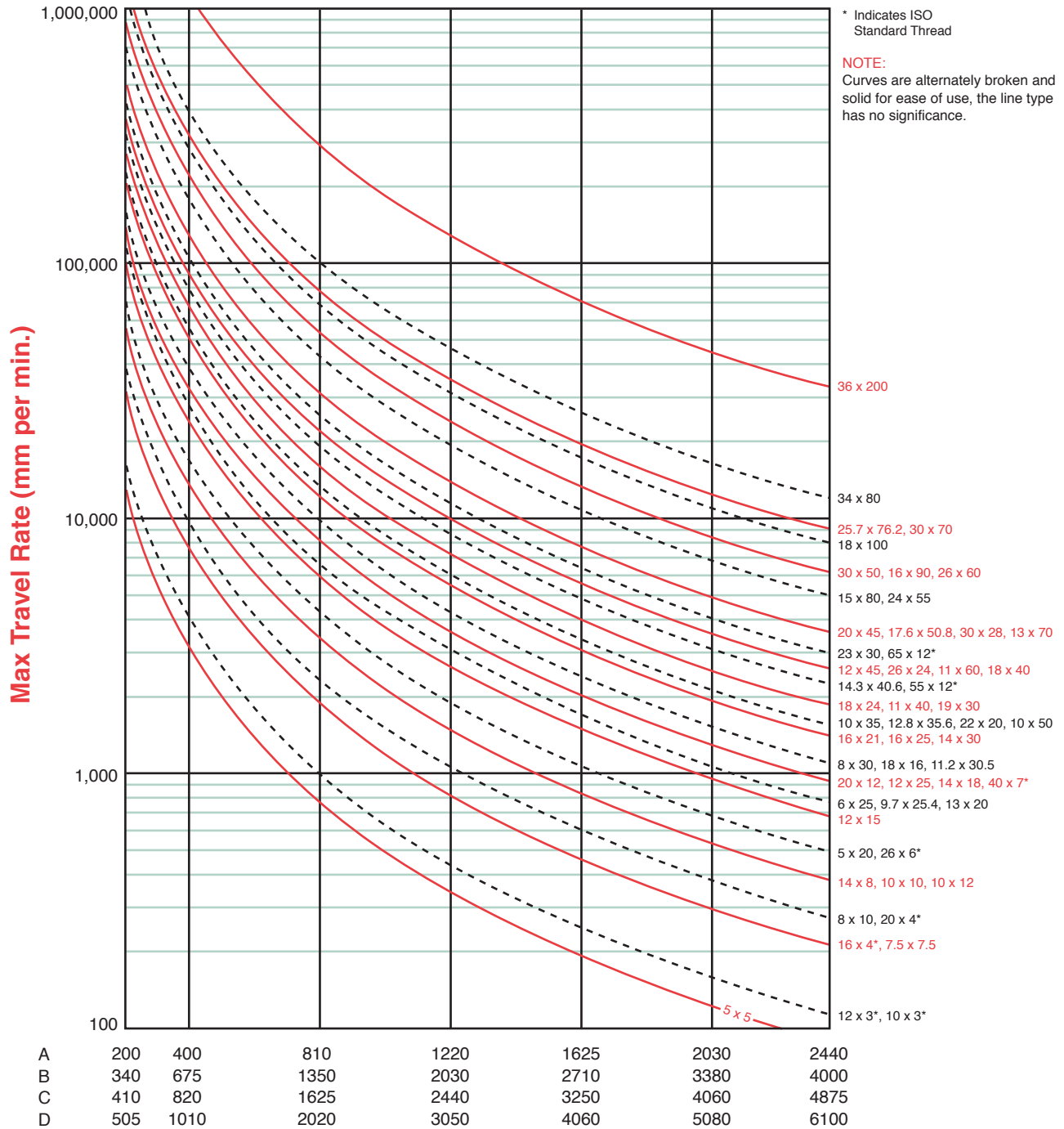
**Maximum Length Between Bearings (mm)**

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

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

**Metric to Inch Conversions:**

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



METRIC LEAD SCREW AND NUT TECHNICAL DATA

**Maximum Length Between Bearings (mm)**

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

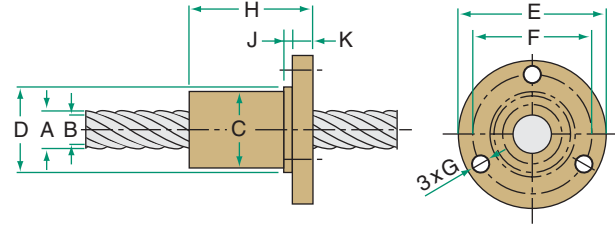
See Page 6 for Reference Description on "A-B-C-D" end fixity.

**Metric to Inch Conversions:**

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

# 5 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

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

\* Custom Lengths Available - See page 47 to specify length

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

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

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.

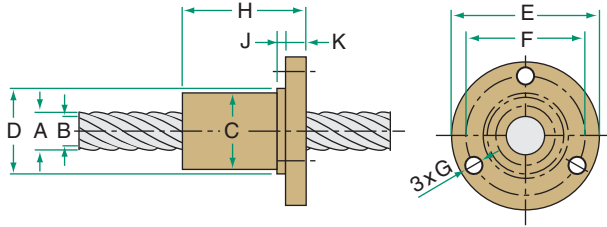


E-100 12 Oz.  
Lead Screw  
Spray Lubricant



PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.



# 6 and 7.5 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant



PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

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

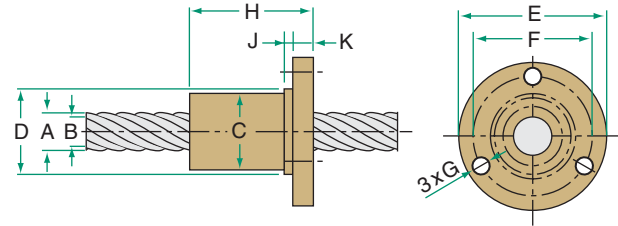
PLASTIC NUT		6x25	7.5x7.5
Load Rating (N)		400	450
Efficiency		86.1%	78.9%
Torque to Raise 1 kN (N·m)		4.6	1.5
Weight (g)		15	15
Part No.	RH	ESN-0625-RPN	ESN-0707-RPN
	LH	ESN-0625-LPN	—

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

METRIC LEAD SCREW AND NUT TECHNICAL DATA

# 8 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

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

\* Custom Lengths Available - See page 47 to specify length

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

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

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.

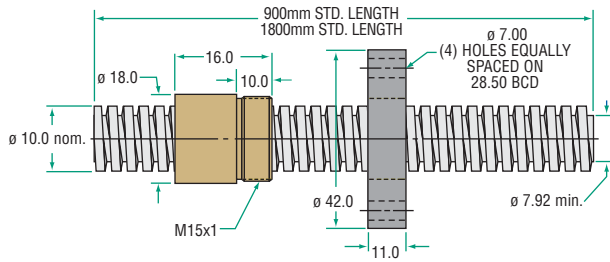


E-100 12 Oz.  
Lead Screw  
Spray Lubricant



PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.



# 10mm ISO METRIC THREAD

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

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

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

\* Custom Lengths Available - See page 47 to specify length

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

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

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

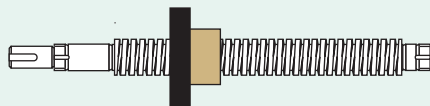


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



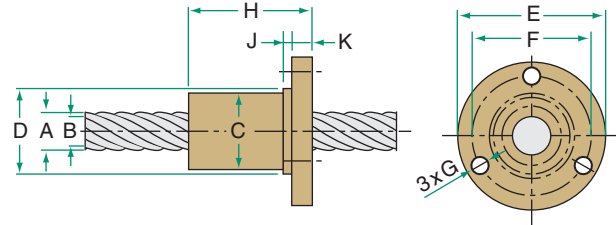
See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA



# 10 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

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

\* Custom Lengths Available - See page 47 to specify length

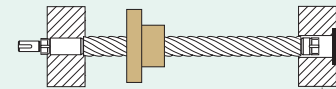
BRONZE NUT		10x10	10x12	10x35	10x50
Load Rating (N)		780	1560	780	1625
Efficiency		69.8%	72.5%	78.2%	75.1%
Torque to Raise 1 kN (N·m)		22.9	2.6	7.1	10.6
Weight (g)		95	100	95	105
Part No.	RH	ESN-1010-RBN	ESN-1012-RBN	ESN-1035-RBN	ESN-1050-RBN
	LH	—	ESN-1012-LBN	ESN-1035-LBN	ESN-1050-LBN

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

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

## LEAD SCREW ASSEMBLIES

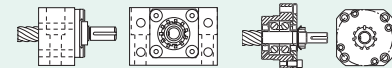
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



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

**EZZE-MOUNT™ available for:**

All 10mm Screws

See page 214 for complete dimensions.

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



PAG-1 1 lb. Lead Screw Grease

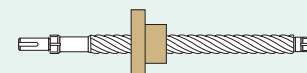


E-100 12 Oz. Lead Screw Spray Lubricant

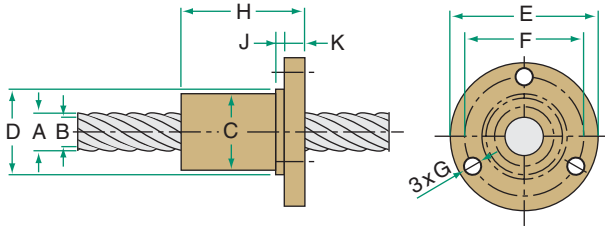
See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

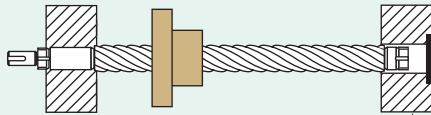


# 11 and 11.2 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

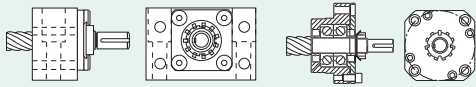
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

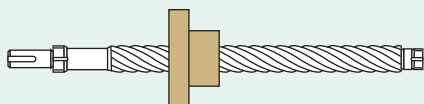


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

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

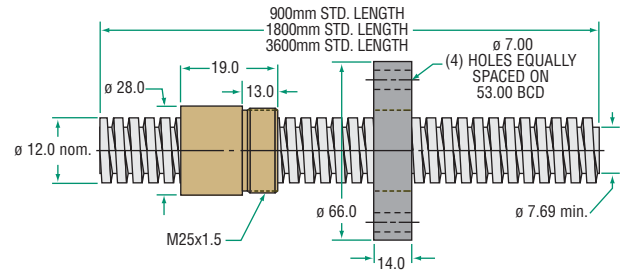
PLASTIC NUT		11x40	11x60	11.2x30.5
Load Rating (N)		800	1500	1400
Efficiency		86.0%	84.0%	86.1%
Torque to Raise 1 kN (N·m)		7.4	11.4	5.6
Weight (g)		18	35	18
Part No.	RH	ESN-1140-RPN	ESN-1160-RPN	ESS-1130-RPN
	LH	ESN-1140-LPN	ESN-1160-LPN	—

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



# 12mm ISO METRIC THREAD

**LEAD ACCURACY:** ±6.25µm/25mm



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

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

\* Custom Lengths Available - See page 47 to specify length

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

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

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

METRIC LEAD SCREW AND NUT TECHNICAL DATA

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

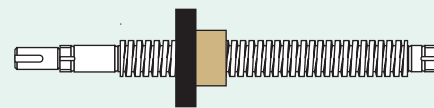


PAG-1 1 lb. Lead Screw Grease

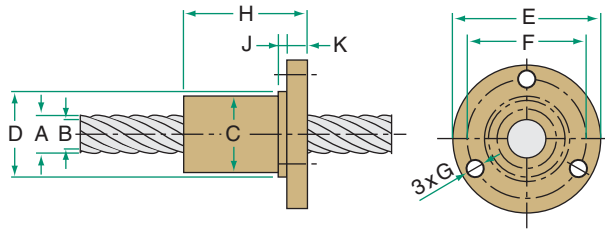
See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

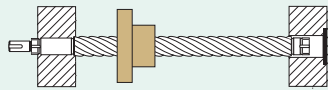


# 12 and 12.8 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

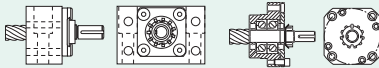
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double  
Bearing  
Universal Mount

Single or  
Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

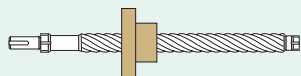
PAG-1 1 lb.  
Lead Screw  
Grease



See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

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

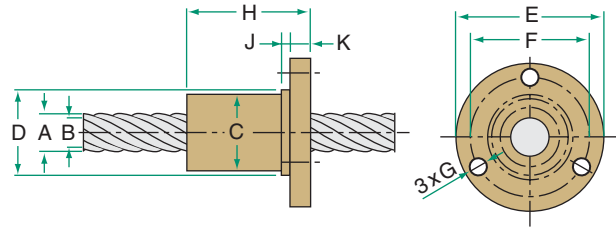
PLASTIC NUT		12x15	12x25	12x45	12.8x35.6
Load Rating (N)		1400	1500	800	1600
Efficiency		81.6%	85.4%	86.0%	86.1%
Torque to Raise 1 kN (N·m)		2.9	4.6	8.3	6.6
Weight (g)		18	18	17	17
Part No.	RH	ESN-1215-RPN	ESN-1225-RPN	ESN-1245-RPN	ESN-1235-RPN
	LH	ESN-1215-LPN	ESN-1225-LPN	ESN-1245-LPN	—

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



# 13 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



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

\* Custom Lengths Available - See page 47 to specify length

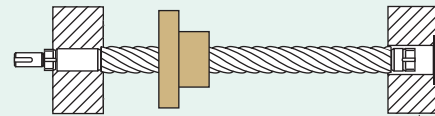
BRONZE NUT		13x20	13x70
Load Rating (N)		1690	2275
Efficiency		75.1%	74.6%
Torque to Raise 1 kN (N·m)		4.2	14.9
Weight (g)		175	170
Part No.	RH	ESN-1320-RBN	ESN-1370-RBN
	LH	—	ESN-1370-LBN

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

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

## LEAD SCREW ASSEMBLIES

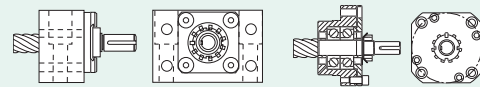
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

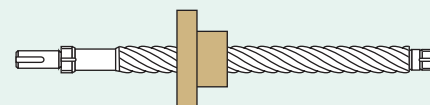


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

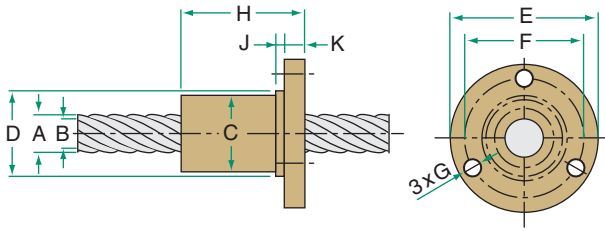
## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA

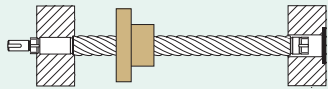


# 14 and 14.3 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

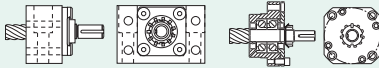
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



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

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

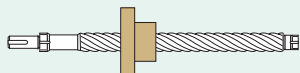
PAG-1 1 lb. Lead Screw Grease



See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

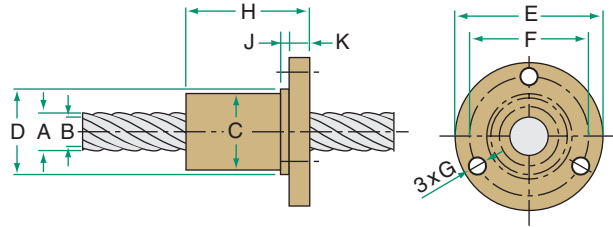
BRONZE NUT		14x8	14x18	14x30	14.3x40.6
Load Rating (N)		1170	2000	2275	2340
Efficiency		58.6%	73.1%	77.9%	78.5%
Torque to Raise 1 kN (N·m)		2.2	3.9	6.1	8.2
Weight (g)		171	167	171	168
Part No.	RH	ESN-1408-RBN	ESN-1418-RBN	ESN-1430-RBN	ESN-1440-RBN
	LH	—	ESN-1418-LBN	—	ESN-1440-LBN

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

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

# 15 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



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

\* Custom Lengths Available - See page 47 to specify length

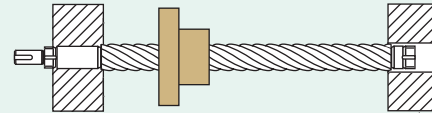
BRONZE NUT		15x80	
Load Rating (N)		2600	
Efficiency		74.4%	
Torque to Raise 1 kN (N·m)		17.1	
Weight (g)		161	
Part No.	RH	ESN-1580-RBN	
	LH	ESN-1580-LBN	

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

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

## LEAD SCREW ASSEMBLIES

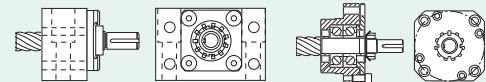
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



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

**EZZE-MOUNT™ available for: 15mm Screws**  
See page 214 for complete product details.

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

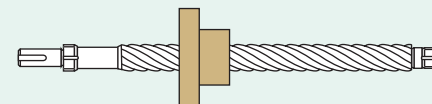


PAG-1 1 lb.  
Lead Screw  
Grease

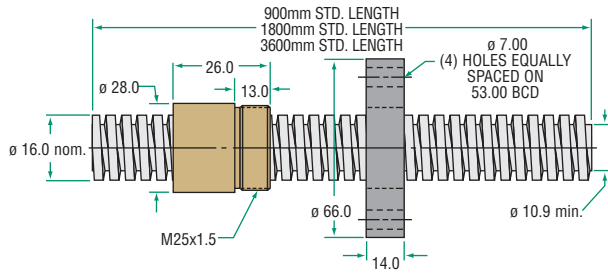
See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.



# 16mm ISO METRIC THREAD

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

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

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

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

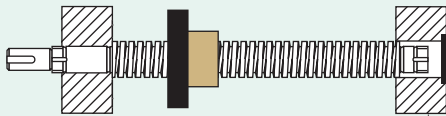
BRONZ/AC BRONZE NUT		Tr 16x4
Efficiency		41%
Torque to Raise 1 kN (N·m)		1.560
Weight (g)		100
Part No.	RH	20902
	LH	—

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

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

## TRAPEZOIDAL SCREW ASSEMBLIES

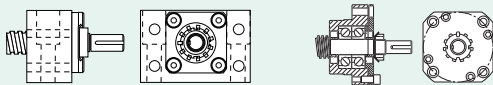
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant



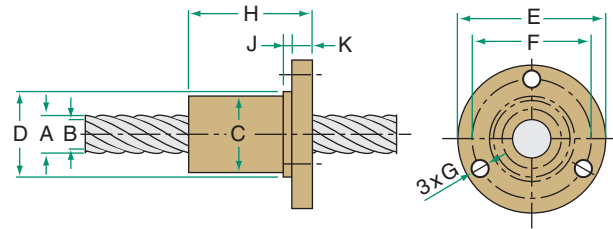
PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.



# 16 and 17.6 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

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

\* Custom Lengths Available - See page 47 to specify length

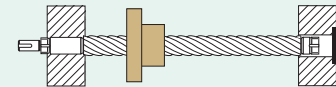
BRONZE NUT		16x21	16x25	16x90	17.6x50.8
Load Rating (N)		2340	2015	2925	2860
Efficiency		73.3%	75.5%	74.3%	78.5%
Torque to Raise 1 kN (N·m)		4.6	5.3	19.3	10.3
Weight (g)		204	213	200	200
Part No.	RH	ESN-1621-RBN	ESN-1625-RBN	ESN-1690-RBN	ESN-1750-RBN
	LH	ESN-1621-LBN	—	ESN-1690-LBN	—

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

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

## LEAD SCREW ASSEMBLIES

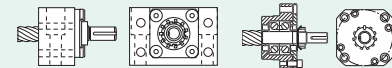
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



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

**EZZE-MOUNT™ available for:**

All 16 and 17.6mm Screws

See page 214 for complete product details.

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



PAG-1 1 lb. Lead Screw Grease

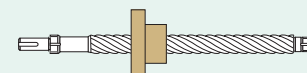


E-100 12 Oz. Lead Screw Spray Lubricant

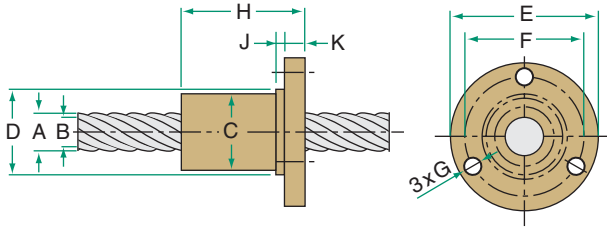
See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

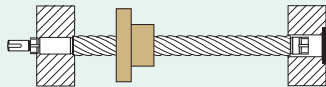


# 18 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

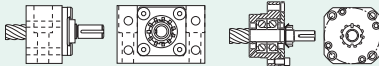
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting acme screw assemblies.



Single or Double  
Bearing  
Universal Mount

Single or  
Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



PAG-1 1 lb.  
Lead Screw  
Grease

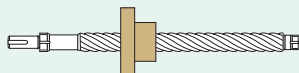
E-100 12 Oz.  
Lead Screw  
Spray Lubricant



See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

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

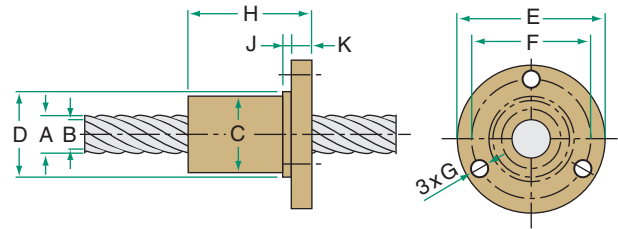
PLASTIC NUT		18x16	18x24	18x40	18x100
Load Rating (N)		1100	2000	2250	2500
Efficiency		77.4%	82.0%	85.6%	83.7%
Torque to Raise 1 kN (N·m)		3.3	4.6	7.4	19.0
Weight (g)		39	37	39	35
Part No.	RH	ESN-1816-RPN	ESN-1824-RPN	ESN-1840-RPN	ESN-1810-RPN
	LH	—	ESN-1824-LPN	ESN-1840-LPN	ESN-1810-LPN

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



# 19 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

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

\* Custom Lengths Available - See page 47 to specify length

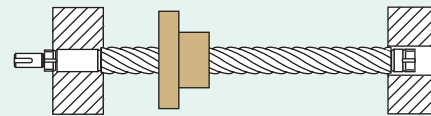
BRONZE NUT		19x30
Load Rating (N)		2340
Efficiency		75.7%
Torque to Raise 1 kN (N·m)		6.3
Weight (g)		194
Part No.	RH	ESN-1930-RBN
	LH	—

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

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

## LEAD SCREW ASSEMBLIES

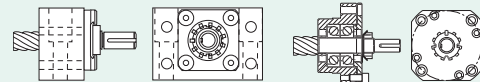
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

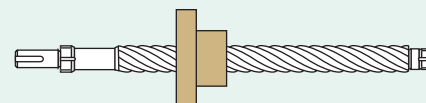


PAG-1 1 lb.  
Lead Screw  
Grease

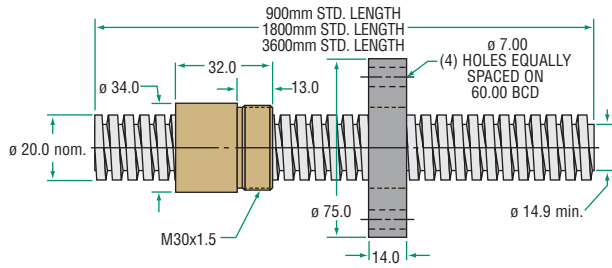
See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.

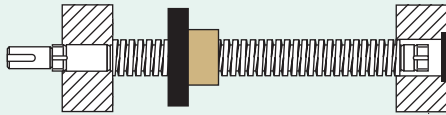


See page 212 for complete product details.



## TRAPEZOIDAL SCREW ASSEMBLIES

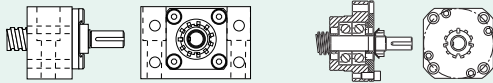
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

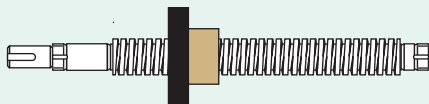


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

# 20mm ISO METRIC THREAD

**LEAD ACCURACY:** ±6.25µm/25mm

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

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

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

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

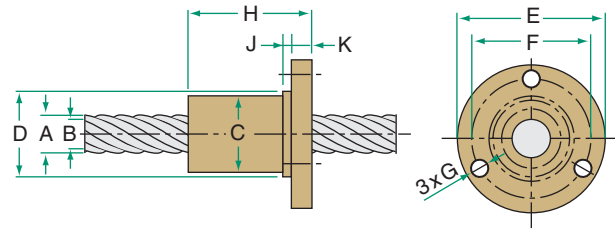
PLAST/AC PLASTIC NUT		Tr 20x4
Efficiency	40%	
Torque to Raise 1 kN (N·m)	1.580	
Weight (g)	31	
Part No.	RH	30903
	LH	—

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



# 20 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



METRIC LEAD SCREW AND NUT TECHNICAL DATA

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

\* Custom Lengths Available - See page 47 to specify length

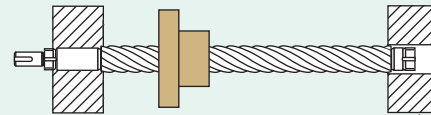
BRONZE NUT		20x12	20x45
Load Rating (N)		1530	2500
Efficiency		59.7%	78.0%
Torque to Raise 1 kN (N·m)		3.2	9.2
Weight (g)		324	324
Part No.	RH	ESN-2012-RBN	ESN-2045-RBN
	LH	—	—

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

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

## LEAD SCREW ASSEMBLIES

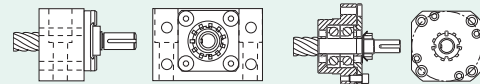
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

**EZZE-MOUNT™ available for: All 20mm Screws**

See page 214 for complete product details.

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

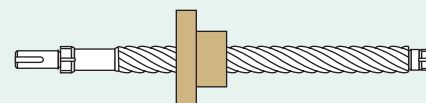


PAG-1 1 lb.  
Lead Screw  
Grease

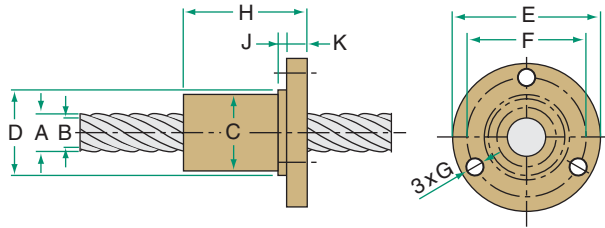
See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

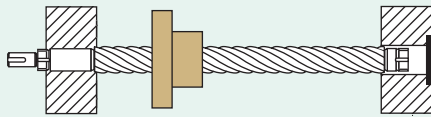


# 22 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

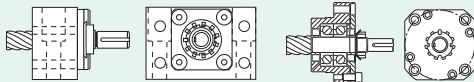
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

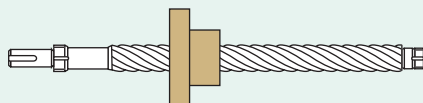


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

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

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

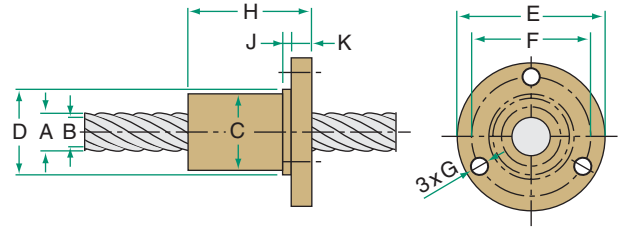
NUT DIMENSIONS (mm)		22x20
C Nut Diameter		35.5
D Pilot Diameter		36
E Flange Diameter		59
F BCD Mounting Hole		47
G Mounting Hole Diameter		6.2
H Nut Length	Bronze	32
	Plastic	46
J Pilot Width		5
K Flange Width		8

METRIC LEAD SCREW AND NUT TECHNICAL DATA



# 23 and 24 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



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

\* Custom Lengths Available - See page 47 to specify length

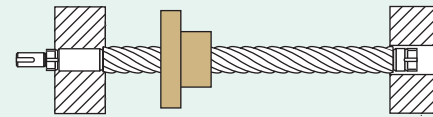
BRONZE NUT		23x30	24x55
Load Rating (N)		3120	3900
Efficiency		73.6%	78.1%
Torque to Raise 1 kN (N·m)		6.5	11.2
Weight (g)		293	200
Part No.	RH	ESN-2330-RBN	ESN-2455-RBN
	LH	ESN-2330-LBN	—

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

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

## LEAD SCREW ASSEMBLIES

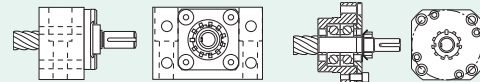
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

See page 214 for complete product details.

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

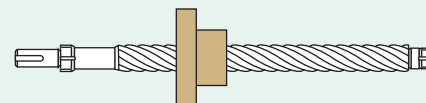


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

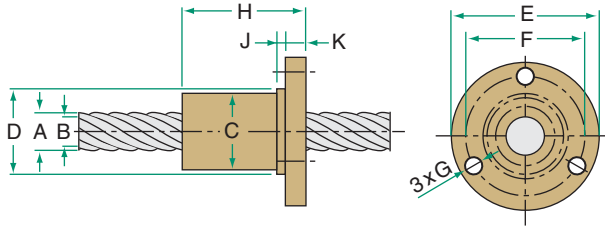
## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA

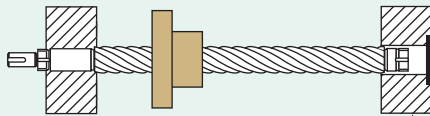


# 25.7 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

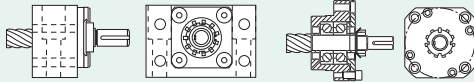
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

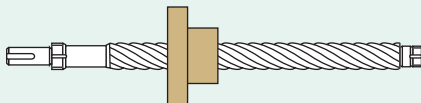


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

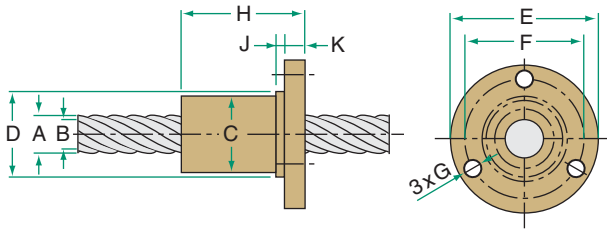
\* Custom Lengths Available - See page 47 to specify length

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



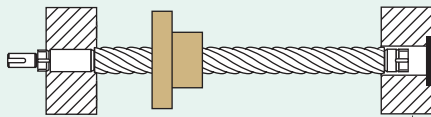


# 26 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

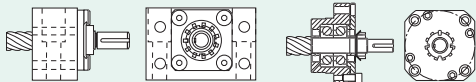
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

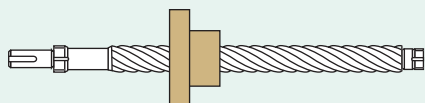


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

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

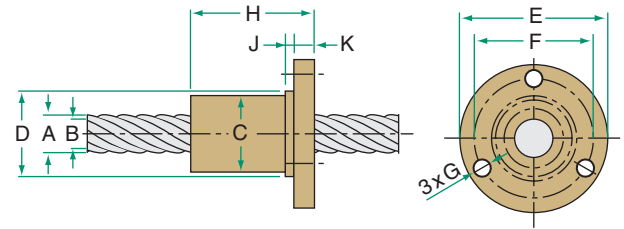
PLASTIC NUT		26x24	26x60
Load Rating (N)		2000	3250
Efficiency		78.0%	85.7%
Torque to Raise 1 kN (N·m)		4.9	11.1
Weight (g)		80	81
Part No.	RH	ESN-2624-RPN	ESN-2660-RPN
	LH	—	—

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



# 30 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm



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

\* Custom Lengths Available - See page 47 to specify length

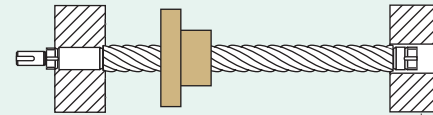
BRONZE NUT		30x28	30x50	30x70
Load Rating (N)		2600	3640	4875
Efficiency		68.4%	76.1%	78.2%
Torque to Raise 1 kN (N·m)		6.5	10.5	14.2
Weight (g)		347	357	347
Part No.	RH	ESN-3028-RBN	ESN-3050-RBN	ESN-3070-RBN
	LH	—	—	—

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

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

## LEAD SCREW ASSEMBLIES

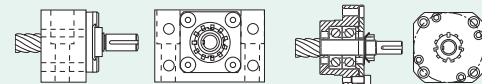
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

**EZZE-MOUNT™ available for:** All 30mm Screws

See page 214 for complete product details.

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

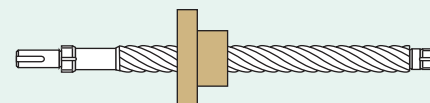


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

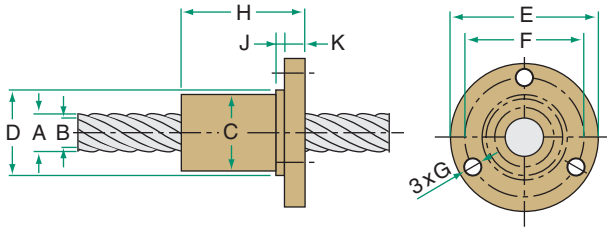
## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

METRIC LEAD SCREW AND NUT TECHNICAL DATA

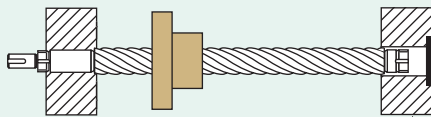


# 34 and 36 Speedy™ METRIC THREAD

**LEAD ACCURACY:** ±17.5µm/25mm

## LEAD SCREW ASSEMBLIES

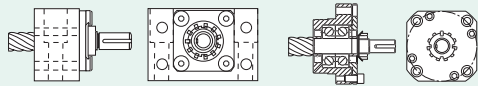
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting lead screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

See page 214 for complete product details.

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

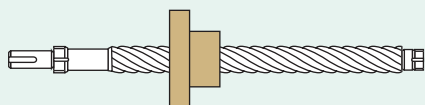


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

\* Custom Lengths Available - See page 47 to specify length

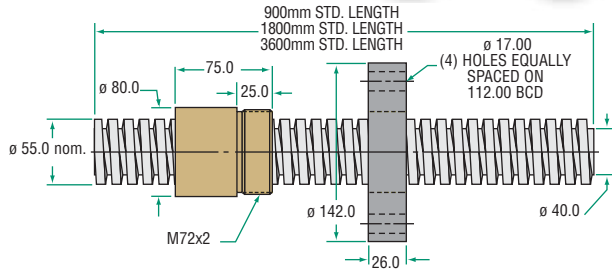
BRONZE NUT		34x80	36x200
Load Rating (N)		5525	5850
Efficiency		78.2%	73.6%
Torque to Raise 1 kN (N·m)		16.3	43.2
Weight (g)		810	750
Part No.	RH	ESN-3480-RBN	ESN-3620-RBN
	LH	—	—

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

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

METRIC LEAD SCREW AND NUT TECHNICAL DATA





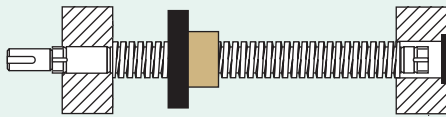
# 55mm ISO METRIC THREAD

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

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	104287	333718

## TRAPEZOIDAL SCREW ASSEMBLIES

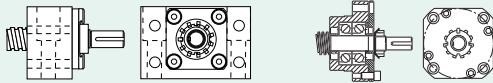
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing  
Universal Mount

Single or Double Bearing  
Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz.  
Lead Screw  
Spray Lubricant

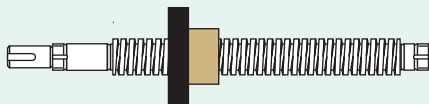


PAG-1 1 lb.  
Lead Screw  
Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

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

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

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

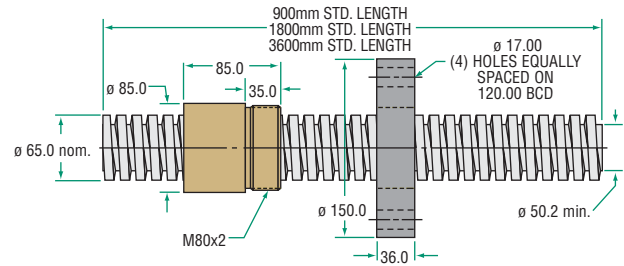
METRIC LEAD SCREW AND NUT TECHNICAL DATA



# 65mm ISO METRIC THREAD

**LEAD ACCURACY:** ±6.25µm/25mm

LOAD CAPACITY (N)	DYNAMIC	STATIC
BRONZE NUT	145651	466084



METRIC LEAD SCREW AND NUT TECHNICAL DATA

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

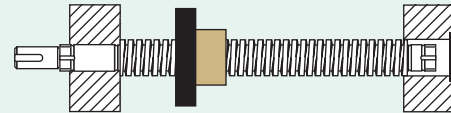
\* Custom Lengths Available - See page 47 to specify length  
 † Random Mill Length - can vary up to +50.8mm (2") in length

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

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

## TRAPEZOIDAL SCREW ASSEMBLIES

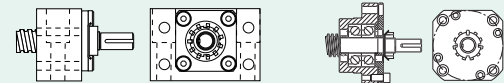
These assemblies are shipped with screw, nut, flange, and bearing supports.



See page 41 for complete product details.

## EZZE-MOUNT™ END BEARING SUPPORTS

A convenient solution for mounting trapezoidal screw assemblies.



Single or Double Bearing Universal Mount

Single or Double Bearing Flange Mount

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

## LUBRICANT

Prolong lead screw and nut performance with these special lubricants.



E-100 12 Oz. Lead Screw Spray Lubricant

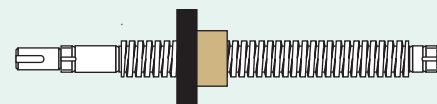


PAG-1 1 lb. Lead Screw Grease

See page 14 for complete product details.

## END MACHINING

Machining for Nook standard ends or custom requirement available.



See page 212 for complete product details.

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

METRIC LEAD SCREW AND NUT TECHNICAL DATA

CONTINUED ON NEXT PAGE



CONTINUED FROM PREVIOUS PAGE

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

METRIC LEAD SCREW AND NUT TECHNICAL DATA