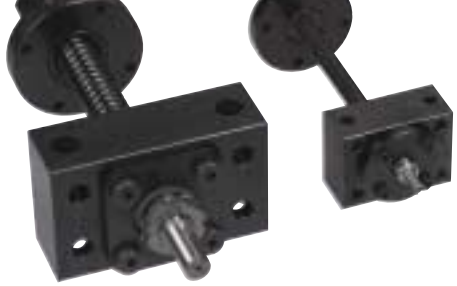



EZZE•MOUNT™
END BEARING SUPPORTS

END MACHINING

NOOK INDUSTRIES

Machined Ends and EZZE•MOUNT™ End Supports

EZZE-MOUNT™ AND END MACHINING

INTRODUCTION

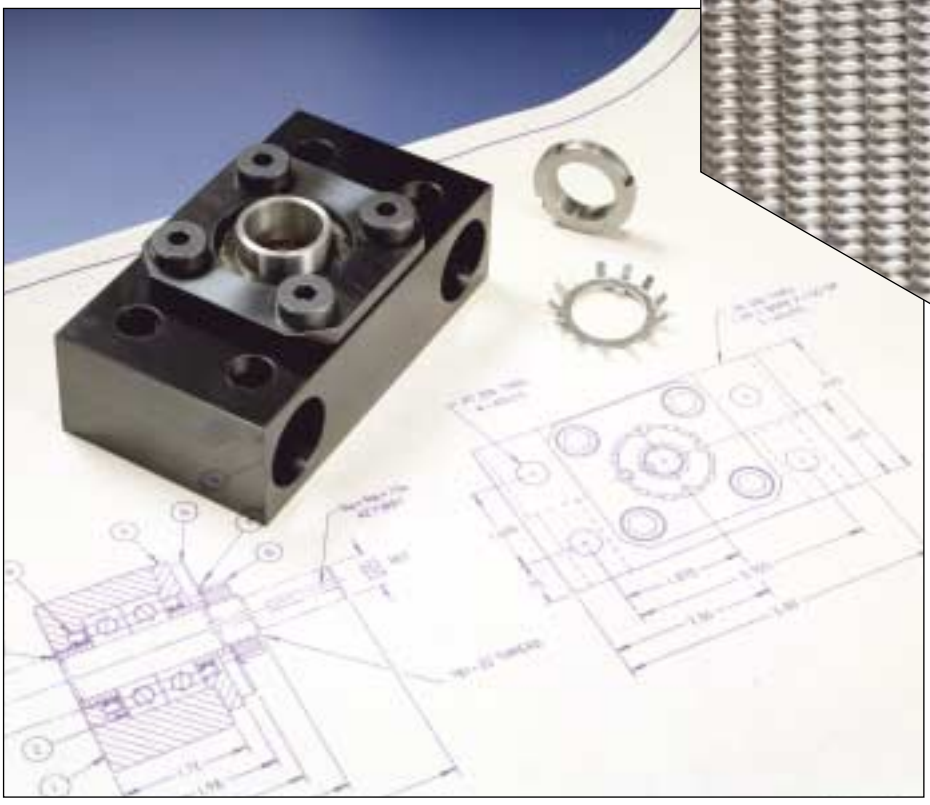
Linear motion applications utilizing a ball screw or an acme screw require high tolerance screw end machining matched with precision bearing mounts.

Nook Industries has the complete capability to provide end machining including:

- Precision cut-to-length
- Annealing
- Straightening
- CNC turning and milling
- Grinding
- Assembly
- Inspection
- Specialized material handling and packaging

The bearing mounts must be designed to withstand both the radial and the thrust loads generated by the screw.

Nook Industries offers EZZE-MOUNT™ precision bearing blocks, which can be assembled to precision machined screws to provide a complete solution for any linear motion application.



GLOSSARY AND DEFINITIONS

GLOSSARY & DEFINITIONS

EZZE-MOUNT™
EZZE-MOUNT™ precision bearing blocks contain anti-friction bearings and are designed to be used with lead screws. Single and double bearing base mount and flange mount versions of EZZE-MOUNT™ bearing blocks are available.

STANDARD ENDS
For each screw size, Nook Industries has designed a family of standard machined ends applicable to a variety of bearing arrangements.

The use of standard machined end designs offers quick delivery. See page 188-189 for details.

LAND DIAMETER
The land diameter is the outside diameter of the screw. The difference between the land diameter and the bearing journal is the resulting bearing shoulder.

ROOT DIAMETER
The diameter of the screw measured at the bottom of the thread. This diameter is used for determining journal sizes. If the bearing journal diameter is larger than the root diameter, thread tracings may be visible. Generally, these tracings do not have an effect on bearing performance.

JOURNAL
A smooth diameter machined on the end of screw used as a mounting surface for bearings, couplings, pulleys, gears, etc.

STRAIGHTNESS
Although Nook Industries PowerAc™ and PowerTrac™ 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.

ANNEALING
Annealing is a process which softens the steel to allow for easier end machining. Annealing is usually required to machine the ends of ball screws. Due to its effect on the precision lead accuracies of XPR and SGT ball screws, annealing is not recommended for these products. Acme screws typically do not require annealing before end machining.

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.

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

See pages 6–7 and 86–87 for a more detailed definition of end fixity.

LOCK-NUT THREAD
Lock-Nut threads are a special class of threads (defined in Machinery's Handbook) used with Lock-Nuts to retain bearings on shafts.

UNDERCUTS AND RADII
Whenever a shaft changes diameter, an undercut or a radius is machined into the transition to minimize stress concentration. Undercuts are preferred for bearing shoulders because they allow clearance for the corner of the bearing. **(SEE FIG. 1)**

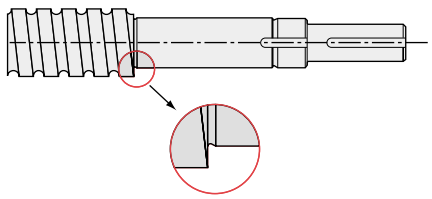


FIG. 1

CONCENTRICITY
Concentricity refers to multiple diameters sharing the same center. For end machining, good concentricity allows all components to rotate around the same axis resulting in smooth operation and long life.

APPROVAL DRAWINGS
If custom ends or special dimensions are desired, an approval drawing can be developed once an order is placed. This drawing will show all the critical dimensions with tolerances.

QUICK REFERENCE:
INCH PRECISION ACME SCREWS

INCH ACME SCREWS

See PowerAc™ pages 20-40 for screw dimensions.

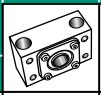
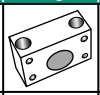
NOMINAL DIA-LEAD	END CODE TYPE 1,2,3	END CODE TYPE 4	EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
1/4 - 3	3	2	—	—	—	—	20
1/4 - 4	3	2	—	—	—	—	20
1/4 - 16	3	2	—	—	—	—	20
1/4 - 20	3	2	—	—	—	—	20
5/16 - 2	5	2	—	—	—	—	21
5/16 - 4	5	2	—	—	—	—	21
3/8 - 1	6	4*	—	—	—	—	22
3/8 - 2	7	4	—	—	—	—	22
3/8 - 4	7	4	—	—	—	—	22
3/8 - 5	7*	4	—	—	—	—	22
3/8 - 6	7	4	—	—	—	—	23
3/8 - 8	7	4	—	—	—	—	23
3/8 - 10	7	4	—	—	—	—	23
3/8 - 12	7	4	—	—	—	—	23
3/8 - 16	7	4	—	—	—	—	23
7/16 - 2	8	4	EZM-1008	EZM-4008	EZF-1008	EZF-4008	24
7/16 - 4	8	4	EZM-1008	EZM-4008	EZF-1008	EZF-4008	24
1/2 - 1	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	25
1/2 - 2	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	25
1/2 - 4	8	4	EZM-1008	EZM-4008	EZF-1008	EZF-4008	25
1/2 - 5	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	25
1/2 - 10	9	6*	EZM-1009	EZM-4009	EZF-1009	EZF-4009	25
5/8 - 2 2/3	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	26
5/8 - 5	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	26
5/8 - 5(2)	12	6	EZM-3012	EZM-4012	EZF-3012	EZF-4012	26
5/8 - 8	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	26
5/8 - 10	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	26
3/4 - 2	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	27
3/4 - 3	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	27
3/4 - 5	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	27
3/4 - 6	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	27

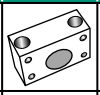
NOMINAL DIA-LEAD	END CODE TYPE 1,2,3	END CODE TYPE 4	EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
3/4 - 10	15	8	EZM-3015	EZM-4015	EZF-3015	EZF-4015	27
7/8 - 6	15	10	EZM-3015	EZM-4015	EZF-3015	EZF-4015	28
1 - 1	20	12	—	—	—	—	29
1 - 2	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	29
1 - 4	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	29
1 - 5	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	29
1 - 6	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	29
1 - 10	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	29
1 1/8 - 5	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	30
1 1/4 - 4	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	31
1 1/4 - 5	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	31
1 1/2 - 2	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	32
1 1/2 - 2 2/3	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	32
1 1/2 - 4	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	32
1 1/2 - 5	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	32
1 1/2 - 10	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	32
1 3/4 - 4	35	19	—	—	—	—	33
2 - 2	35	19	—	—	—	—	34
2 - 4	40	22	—	—	—	—	34
2 - 5	40	28	—	—	—	—	34
2 1/4 - 2	40	24	—	—	—	—	35
2 1/4 - 4	45	28	EZM-3045	EZM-4045	—	—	35
2 1/2 - 2	45	28	EZM-3045	EZM-4045	—	—	36
2 1/2 - 3	50	32	—	—	—	—	36
2 1/2 - 4	50	32	—	—	—	—	36
3 - 2	60	39	EZM-3060	EZM-4060	—	—	37
3 3/8 - 1 1/2	65	39*	EZM-3060	EZM-4060	—	—	38
3 3/4 - 1 1/2	75	48	—	—	—	—	39
4 1/2 - 1 1/2	95	55	EZM-3080	—	—	—	39
5 - 1 1/2	105	67	—	—	—	—	40
6 - 1 1/2	—	—	—	—	—	—	40

* Some journals may show tracings of the thread

METRIC ISO TRAPEZOIDAL AND SPEEDY™ SCREWS

See PowerAc™ pages 50–76 for screw dimensions.

NOMINAL DIA-LEAD	END CODE TYPE		EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
	1,2,3	4					
5 x 5	3	2	—	—	—	—	50
5 x 20	5*	2	—	—	—	—	50
6 x 25	6	4*	—	—	—	—	51
7.5 x 7.5	5	2	—	—	—	—	51
8 x 10	5	2	—	—	—	—	52
8 x 30	7	4	—	—	—	—	52
9.7 x 25.4	6	4	—	—	—	—	52
Tr 10x3(1.5)	7	4	—	—	—	—	53
10 x 10	8	4/6	EZM-1008	EZM-4008	EZF-1008	EZF-4008	54
10 x 12 *	8	4/6	EZM-1008	EZM-4008	EZF-1008	EZF-4008	54
10 x 35	8	4/6	EZM-1008	EZM-4008	EZF-1008	EZF-4008	54
10 x 50*	8	4/6	EZM-1008	EZM-4008	EZF-1008	EZF-4008	54
11 x 40	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	55
11 x 60	8	4	EZM-1008	EZM-4008	EZF-1008	EZF-4008	55
11.2 x 30.5	8	4	EZM-1008	EZM-4008	EZF-1008	EZF-4008	55
Tr 12x3	7	4	—	—	—	—	56
12 x 15	8	4	EZM-1008	EZM-4008	EZF-1008	EZF-4008	57
12 x 25	8	4	EZM-1008	EZM-4008	EZF-1008	EZF-4008	57
12 x 45	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	57
12.8 x 35.6	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	57
13 x 20	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	58
13 x 70	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	58
14 x 8	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	59
14 x 18	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	59
14 x 30	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	59
14.3 x 40.6	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	59
15 x 80	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	60
Tr 16x4	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	61

NOMINAL DIA-LEAD	END CODE TYPE		EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
	1,2,3	4					
16 x 21	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	62
16 x 25	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	62
16 x 90	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	62
17.6 x 50.8	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	62
18 x 16	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	63
18 x 24	15	8/10	EZM-3015	EZM-4015	EZF-3015	EZF-4015	63
18 x 40	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	63
18 x 100	15	8/10	EZM-3015	EZM-4015	EZF-3015	EZF-4015	63
19 x 30	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	64
Tr 20x4	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	65
20 x 12	15	8/10	EZM-3015	EZM-4015	EZF-3015	EZF-4015	66
20 x 45	15	8/10	EZM-3015	EZM-4015	EZF-3015	EZF-4015	66
22 x 20	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	67
23 x 30	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	68
24 x 55	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	68
25.7 x 76.2	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	69
Tr 26 x6	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	70
26 x 24	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	71
26 x 60	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	71
30 x 28	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	72
30 x 50	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	72
30 x 70	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	72
34 x 80	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	73
36 x 200	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	73
Tr 40x7	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	74
Tr55x12	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	75
Tr 65 x12	45	28	EZM-3045	EZM-4045	—	—	76

* Some journals may show tracings of the thread

INCH SRT, XPR AND SGT BALL SCREWS

See PowerTrac™ pages 99–143 for screw dimensions.

NOMINAL DIA-LEAD	END CODE TYPE 1,2,3	END CODE TYPE 4	EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
0375-0125	7	4	—	—	—	—	99
0500-0200	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	100
0500-0500	8	6	EZM-1008	EZM-4008	EZF-1008	EZF-4008	101
0631-0200	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	102
0631-0500	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	106
0750-0200	15	8	EZM-3015	EZM-4015	EZF-3015	EZF-4015	107
0750-0500	15	8	EZM-3015	EZM-4015	EZF-3015	EZF-4015	109
0875-0200	17	10	EZM-3017	EZM-4017	EZF-3017	EZF-4017	110
1000-0200	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	112
1000-0250	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	113
1000-0500	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	116
1000-1000	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	117
1150-0200	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	118
1171-0413	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	120
1250-0200	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	121
1250-0500	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	123
1500-0200	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	125

NOMINAL DIA-LEAD	END CODE TYPE 1,2,3	END CODE TYPE 4	EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
1500-0250	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	126
1500-0473	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	128
1500-0500 SRT	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	129
1500-0500 XPR	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	130
1500-0500 SGT	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	130
1500-1000	25	16	EZM-3025	EZM-4025	EZF-3025	EZF-4025	131
1500-1875	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	132
1750-0250	40	24	—	—	—	—	133
2000-0200	45	28	EZM-3045	EZM-4045	—	—	134
2000-0400	45	28*	EZM-3045	EZM-4045	—	—	134
2250-0500	45	28	EZM-3045	EZM-4045	—	—	135
2250-1000	45	28	EZM-3045	EZM-4045	—	—	137
2500-0250	50	32	—	—	—	—	138
2500-0500	50	32	—	—	—	—	140
3000-0660	60	39	EZM-3060	EZM-4060	—	—	141
3000-1500	60	39	EZM-3060	EZM-4060	—	—	142
4000-1000	80	48	EZM-3080	—	—	—	143

* Some journals may show tracings of the thread

METRIC MRT, PMT AND CARRY™ BALL SCREWS

See PowerTrac™ pages 153-169 for screw dimensions.

NOMINAL DIA-LEAD	END CODE TYPE 1,2,3	END CODE TYPE 4	EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
6 x 1	5*	2	—	—	—	—	153
8 x 1	7*	4	—	—	—	—	154
8 x 1.5	6	4	—	—	—	—	154
8 x 2	6	4	—	—	—	—	154
8 x 2.5	6	4	—	—	—	—	154
8 x 3	6	4	—	—	—	—	154
10 x 2	8	4/6	EZM-1008	EZM-4008	EZF-1008	EZF-4008	155
10 x 3*	8	4/6	EZM-1008	EZM-4008	EZF-1008	EZF-4008	155
12 x 2	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	156
12 x 4	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	156
12 x 5	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	156
12.7 x 12.7	9	6	EZM-1009	EZM-4009	EZF-1009	EZF-4009	156
14 x 4	10	6	EZM-3010	EZM-4010	EZF-3010	EZF-4010	157
16 x 5 MRT/PMT	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	158
16 x 2	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	160

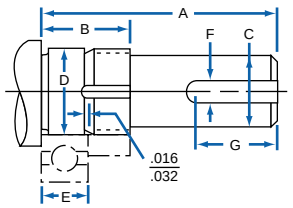
NOMINAL DIA-LEAD	END CODE TYPE 1,2,3	END CODE TYPE 4	EZZE-MOUNT™ UNIVERSAL Double	EZZE-MOUNT™ UNIVERSAL Single	EZZE-MOUNT™ FLANGE Double	EZZE-MOUNT™ FLANGE Single	Page
16 x 5	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	160
16 x 10	12	8	EZM-3012	EZM-4012	EZF-3012	EZF-4012	160
16 x 50	10	6	EZM-3012	EZM-4012	EZF-3012	EZF-4012	159
20 x 5 MRT/PMT	15	8	EZM-3015	EZM-4015	EZF-3015	EZF-4015	162
20 x 5	15	8	EZM-3015	EZM-4015	EZF-3015	EZF-4015	163
20 x 10	15	8	EZM-3015	EZM-4015	EZF-3015	EZF-4015	163
25 x 5 MRT/PMT	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	164
25 x 5	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	165
25 x 10	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	165
25 x 25	20	12	EZM-2020	EZM-4020	EZF-2020	EZF-4020	165
32 x 5	25	12	EZM-3025	EZM-4025	EZF-3025	EZF-4025	166
40 x 10 MRT/PMT	30	19	EZM-2030	EZM-4030	EZF-2030	EZF-4030	167
50 x 10 MRT/PMT	45	28	EZM-3045	EZM-4045	EZF-3045	EZF-4045	168
63 x 12 MRT/PMT	50	32	—	—	—	—	169

* Some journals may show tracings of the thread

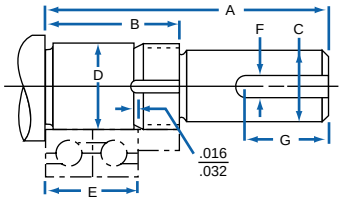
MACHINED END DRAWINGS AND CODES

Specifying standard machined ends results in quick deliveries. The machined ends shown below represent designs that are compatible with common application requirements for either simple or fixed bearing support. Dimensional data for these four types of ends is provided in the charts. Included in the chart are the Lock-Nut and lock washer identification. These standard ends may be machined on any length of screw to meet your specific need.

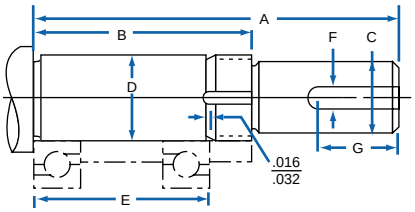
TYPE 1K (with keyway)
TYPE 1L (without keyway)



TYPE 2K (with keyway)
TYPE 2L (without keyway)

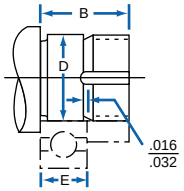


TYPE 3K (with keyway)
TYPE 3L (without keyway)

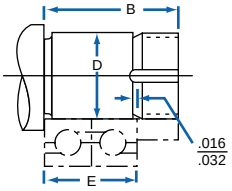


Type 3 end required for Ezze-Mount™.

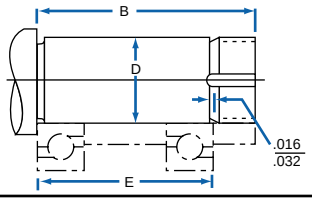
TYPE 1N



TYPE 2N



TYPE 3N
Type 3 end required for Ezze-Mount.



MACHINE END CODE	TYPE 1 (K, L, N) Typical Journal for Single Bearing			TYPE 2 (K, L, N) Typical Journal for Duplexed Bearings			TYPE 3 (K, L, N) Typical Journal for Multiple Sets of Duplexed Bearings			COMMON DIMENSIONS FOR TYPE 1, 2 & 3 (K, L, N)					
	A	B	E	A	B	E	A	B	E	C	D	F	G	LOCK NUT	LOCK WASHER
3	.63	.36	.156	.75	.52	.312	1.09	.83	.624	.093 / .092	.1251 / .1248	N/A	N/A	#5-40	N/A
5	.88	.55	.236	1.09	.78	.472	1.56	1.26	.944	.125 / .124	.1970 / .1967	N/A	N/A	#10-32	N/A
6	.88	.55	.236	1.09	.78	.472	1.56	1.26	.944	.125 / .124	.2363 / .2360	N/A	N/A	#10-32	N/A
7	1.12	.65	.276	1.41	.93	.552	1.94	1.48	1.104	.187 / .186	.2757 / .2754	.063	.34	1/4-20	N/A
8	1.31	.68	.276	1.56	.96	.552	2.00	1.44	1.060	.250 / .249	.3151 / .3148	.094	.46	5/16-24	N/A
9	1.38	.72	.315	1.69	1.04	.630	2.38	1.81	1.438	.250 / .249	.3544 / .3541	.094	.46	5/16-24	N/A
10	1.37	.69	.315	1.67	1.00	.630	2.50	1.81	1.438	.312 / .311	.3939 / .3936	.125	.50	N-00	W-00
12	2.11	.81	.394	2.50	1.20	.788	3.29	1.99	1.576	.406 / .405	.4726 / .4723	.125	.90	N-01	W-01
15	2.15	.84	.433	2.59	1.27	.866	3.50	2.18	1.732	.500 / .499	.5908 / .5905	.125	.90	N-02	W-02
17	2.23	.92	.472	2.71	1.39	.944	3.65	2.33	1.888	.500 / .499	.6695 / .6692	.125	.90	N-03	W-03
20	2.37	1.06	.551	2.93	1.61	1.102	4.03	2.71	2.204	.625 / .624	.7877 / .7873	.188	.90	N-04	W-04
25	2.68	1.12	.591	3.27	1.71	1.182	4.45	2.89	2.364	.750 / .749	.9846 / .9842	.188	.90	N-05	W-05
30	2.97	1.16	.630	3.60	1.79	1.260	4.86	3.05	2.520	1.000 / .999	1.1814 / 1.1810	.250	1.25	N-06	W-06
35	3.33	1.23	.669	4.00	1.90	1.338	5.34	3.24	2.874	1.250 / 1.249	1.3784 / 1.3779	.250	1.25	N-07	W-07
40	3.65	1.46	.906	4.55	2.37	1.812	6.37	4.18	3.624	1.375 / 1.374	1.5752 / 1.5747	.313	1.50	N-08	W-08
45	3.73	1.54	.984	4.71	2.52	1.968	6.68	4.49	3.936	1.375 / 1.374	1.7721 / 1.7716	.313	1.50	N-09	W-09
50	4.56	1.68	1.063	5.62	2.75	2.126	7.75	4.87	4.252	1.750 / 1.749	1.9689 / 1.9684	.375	2.30	N-10	W-10
60	5.56	1.88	1.221	6.78	3.10	2.442	9.22	5.54	4.884	2.250 / 2.249	2.3627 / 2.3621	.500	2.75	N-12	W-12
65	6.71	1.96	1.299	7.99	3.24	2.598	10.59	5.84	5.197	2.375 / 2.374	2.5591 / 2.5585	.625	3.70	N-13	W-13
75	7.68	2.18	1.457	9.14	3.64	2.914	11.33	6.56	5.828	2.750 / 2.749	2.9533 / 2.9527	.625	3.70	AN-15	W-15
80	6.95	2.26	1.535	8.49	3.80	3.070	11.56	6.87	6.140	3.000 / 2.998	3.1501 / 3.1495	.750	3.90	AN-16	W-16
95	9.60	2.60	1.772	11.37	4.37	3.544	14.92	7.92	7.088	3.500 / 3.499	3.7402 / 3.7394	.875	6.00	AN-19	W-19
105	10.84	2.84	1.929	12.76	4.76	3.858	16.62	8.62	7.716	4.000 / 3.999	4.1345 / 4.1338	1.000	6.75	AN-21	W-21

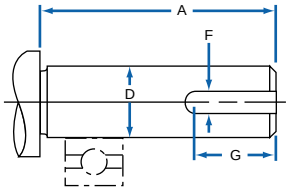
MACHINED END DRAWINGS AND CODES

End Types 1K, 2K, 3K and 4K are designed with a shaft extension and keyway for square keys. End Types 1L, 2L, 3L and 4L are designed with a shaft extension without a keyway. End Types 1N, 2N, 3N and 4N are designed to be a non-driven support end.

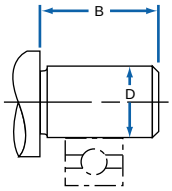
All EZZE-MOUNT™ bearing supports require a Type 3 end.

Where standard ends do not satisfy requirements, special ends may be machined to special specifications. Please submit a print for a prompt and competitive quotation.

TYPE 4K (with keyway)
TYPE 4L (without keyway)



TYPE 4N



MACHINE END CODE	TYPE 4 TYPICAL JOURNAL FOR PILLOW BLOCK				
	A	B	D	Key Width F	KEY Length G
2	.75	.25	.1251 / .1248	N/A	N/A
4	1.38	.50	.2501 / .2498	.063	.63
6	1.50	.75	.3751 / .3748	.125	.75
8	2.63	1.00	.5000 / .4995	.125	1.50
10	2.63	1.25	.6250 / .6245	.188	1.50
12	2.72	1.50	.7500 / .7495	.188	1.50
16	2.84	1.50	1.0000 / .9995	.250	1.50
19	3.25	1.78	1.1875 / 1.1870	.250	1.75
22	4.44	2.06	1.3750 / 1.3745	.313	1.87
24	4.56	2.25	1.5000 / 1.4995	.313	3.00
28	4.94	2.63	1.7500 / 1.7495	.375	3.00
32	5.19	3.50	2.0000 / 1.9995	.500	3.00
39	7.25	3.66	2.4375 / 2.4365	.625	4.69
42	7.75	3.94	2.6250 / 2.6240	.625	4.75
48	8.25	4.50	3.0000 / 2.9990	.750	4.88
55	8.50	5.16	3.4375 / 3.4365	.875	5.00
60	9.38	5.63	3.7500 / 3.7490	1.000	5.38
67	12.13	6.28	4.1875 / 4.1865	1.000	7.00

EZZE-MOUNT™ END BEARING SUPPORTS

EZZE-MOUNT™ Bearing Supports provide a convenient solution for mounting PowerTrac™ Ball Screws and PowerAc™ Acme Screws.

EZZE-MOUNT™ Bearing Supports feature precision angular contact bearings sealed in a durable steel housing. These supports provide the high axial rigidity required for ball screw and acme screw applications.

EZZE-MOUNT™ Bearing Supports are designed to fit Type 3 standard ends as shown on pages 188-189. Use grade 8 hex socket-head cap screws for mounting.

Precision mounting surfaces provide easy, accurate installation. EZZE-MOUNT™ bearing supports are available in two styles to provide maximum design flexibility.

UNIVERSAL-MOUNT

Universal-mount bearing supports have two precision mounting surfaces. Mounting holes are pre-drilled for face or foot mounting.

FLANGE-MOUNT

Flange-mount bearing supports have a compact envelope and a precision pilot diameter and flange face for accurate alignment.

In addition to through-hole installation, mounting holes are sized to be tapped. Flange-Mount piloted mounting surface can be oriented toward or away from the drive end.

EASY INSTALLATION

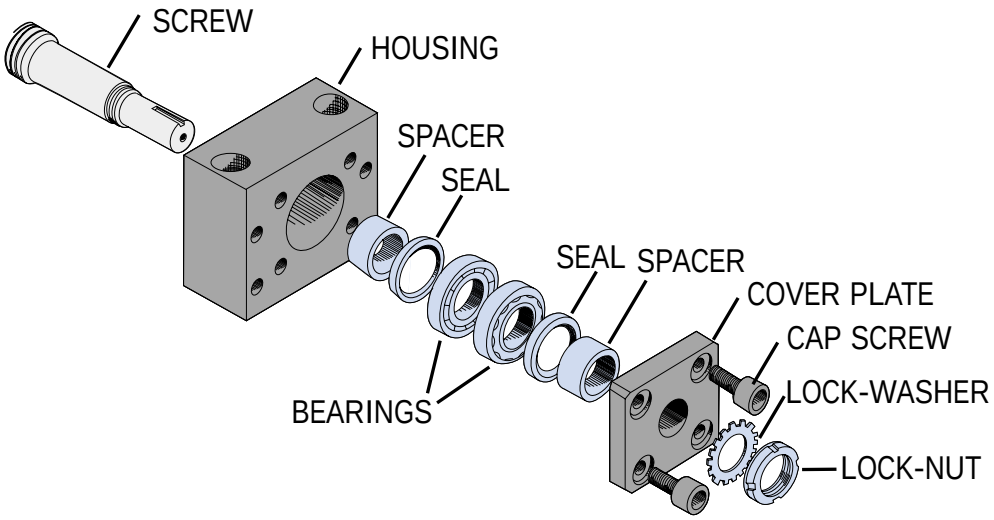
For quick installation, Nook Industries can assemble EZZE-MOUNT™ Bearing Supports to your acme or ball screw.

COMPLETE PACKAGE

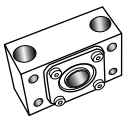
EZZE-MOUNT™ are supplied with precision angular contact bearings, spacers, replaceable seals, a lock-nut and a lock-washer. Units are factory lubricated for long life.

COMPLETE ASSEMBLIES

To eliminate the cost and complexity of sub assembly, component alignment and design configuration, Nook Industries offers acme and ball screw assemblies complete with machined ends, bearing supports, screw, nut and flange for your convenience.

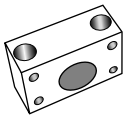


UNIVERSAL-MOUNT SINGLE AND DOUBLE BEARING SUPPORT



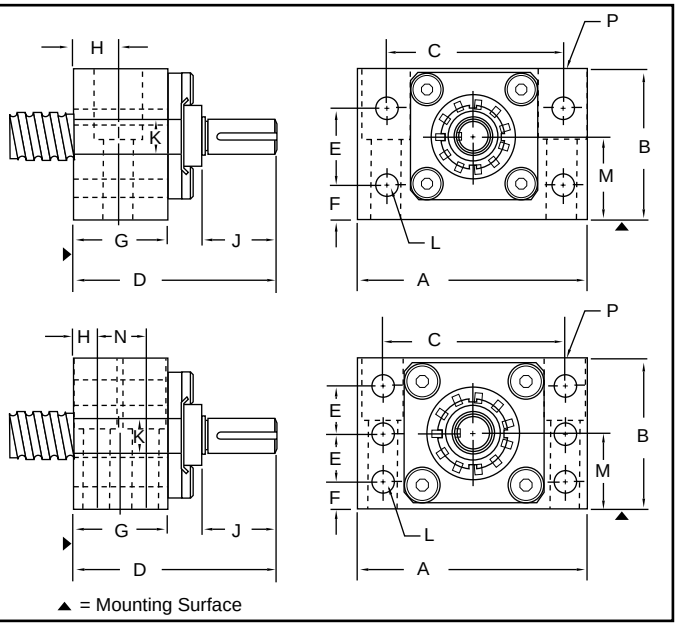
Universal-Mount Double

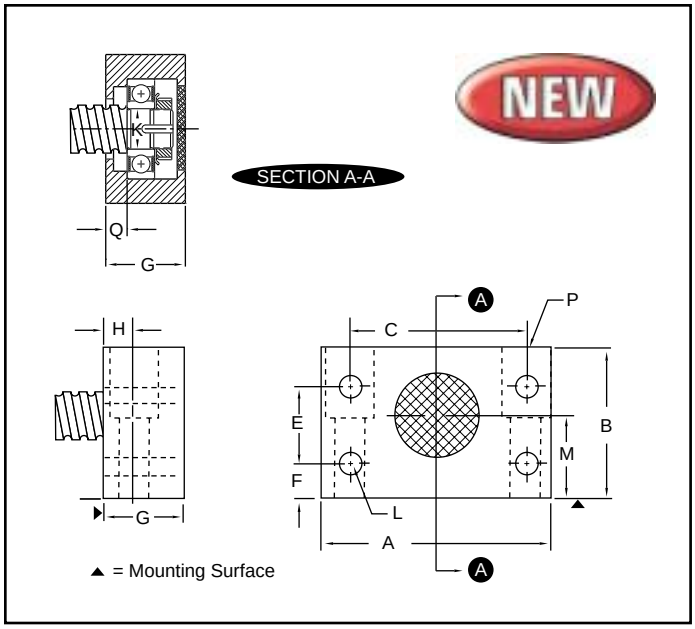
Double Angular Contact Bearing



Universal-Mount Single

Single Radial Bearing



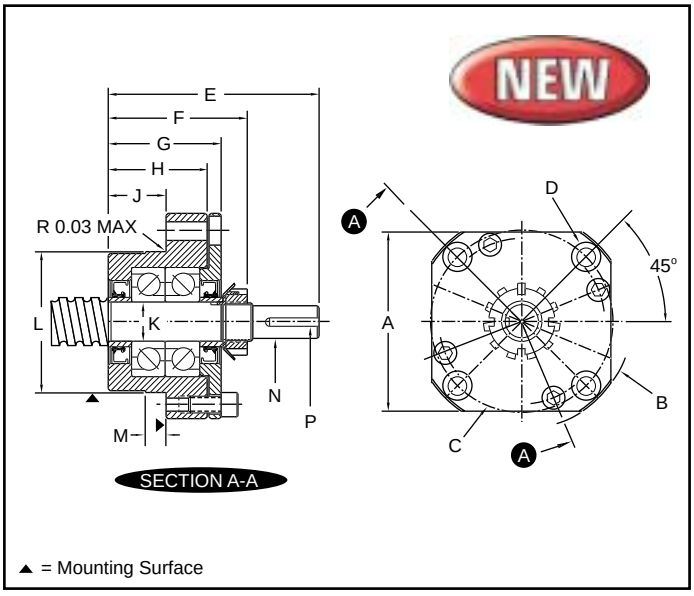


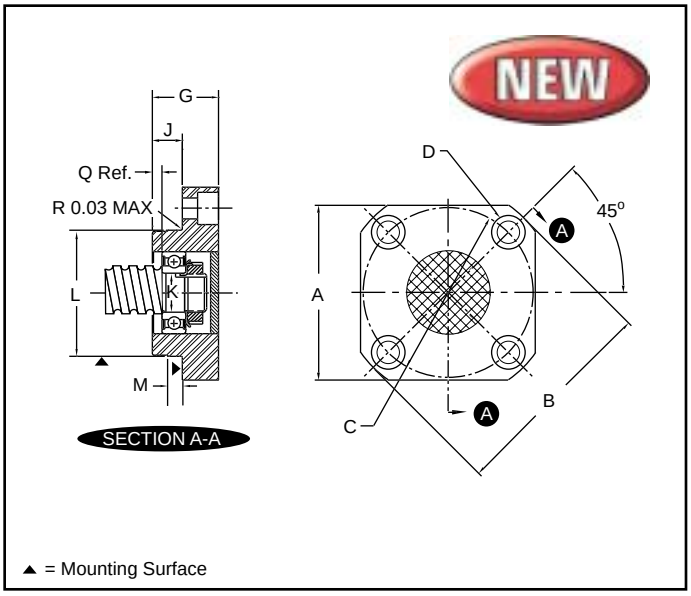
DOUBLE Part No.	SINGLE Part No.	A	B	C	D	E	F	G		H	J	K Shaft Dia.	L (4 or 6)	M	N	P	Q	MACHINED END CODE
								Single	Double									
EZM-1008	EZM-4008	2.00	1.38	1.50	2.00	.88	.25	1.06	1.06	0.50	0.56	0.3151 0.3148	.22(4)	0.687	—	1/4 x 1-3/8	0.19	8
EZM-1009	EZM-4009	2.75	2.00	2.00	2.38	1.38	.31	1.19	1.19	0.56	0.56	0.3544 0.3541	.28(4)	1.000	—	5/16 x 2	0.38	9
EZM-3010	EZM-4010	2.75	2.00	2.00	2.50	1.38	.31	1.19	1.19	0.56	0.69	0.3939 0.3936	.28(4)	1.000	—	5/16 x 2	0.38	10
EZM-3012	EZM-4012	3.50	2.22	2.75	3.29	1.25	.50	1.38	1.38	0.69	1.30	0.4726 0.4723	.28(4)	1.187	—	3/8 x 1-3/4	0.33	12
EZM-3015	EZM-4015	3.50	2.52	2.75	3.50	1.25	.80	1.38	1.38	0.69	1.30	0.5908 0.5905	.28(4)	1.438	—	3/8 x 2-1/8	0.33	15
EZM-3017	EZM-4017	4.50	2.69	3.38	3.65	1.38	.62	1.69	1.69	0.84	1.30	0.6695 0.6692	.41(4)	1.500	—	1/2 x 2-1/4	0.38	17
EZM-2020	EZM-4020	5.00	3.03	3.75	4.03	1.50	.75	1.72	1.72	0.86	1.30	0.7877 0.7873	.47(4)	1.625	—	5/8 x 2-1/2	0.55	20
EZM-3025	EZM-4025	6.50	3.69	4.75	4.45	2.00	.88	1.94	1.94	0.97	1.61	0.9846 0.9842	.66(4)	1.875	—	7/8 x 3-1/4	0.52	25
EZM-2030	EZM-4030	6.50	3.69	4.75	4.86	2.00	.88	1.94	1.94	0.97	1.81	1.1814 1.1810	.66(4)	1.875	—	7/8 x 3-1/4	0.52	30
EZM-3045	EZM-4045	8.50	5.62	6.62	6.68	1.81	1.00	3.47	3.47	0.88	2.19	1.7721 1.7716	.81(6)	2.812	1.71	1 x 5	0.98	45
EZM-3060	EZM-4060	10.00	7.50	8.00	9.22	2.50	1.50	4.19	4.19	1.03	3.18	2.3627 2.3621	1.03(6)	4.000	2.13	1 x 5	1.22	60
EZM-3080	—	12.50	8.50	10.00	11.56	2.75	1.75	—	5.13	1.219	4.69	3.1501 3.1495	1.28(6)	4.500	2.687	1-1/4 x 4-3/4	–	80

FLANGE-MOUNT SINGLE AND DOUBLE BEARING SUPPORT

Flange-Mount Double
Double Angular Contact Bearing

Flange-Mount Single
Single Radial Bearing





DOUBLE Part No.	SINGLE Part No.	A Sq.	B Dia.	C Bolt Circle	D Thru / C'Bore	E	F	G Single	G Double	H	J Single	J Double	K Shaft Dia.	L	M	N	P	Q	MACHINED END CODE
EZF-1008	EZF-4008	1.88	2.44	1.875	0.266 / 0.44	2.00	1.44	1.00	1.06	0.82	0.40	0.50	0.3151 / 0.3148	1.3775 / 1.3770	0.188	0.250 / 0.249	0.094	0.13	8
EZF-1009	EZF-4009	2.00	2.60	2.000	0.266 / 0.44	2.38	1.81	1.00	1.33	1.09	0.44	0.71	0.3544 / 0.3541	1.4957 / 1.4951	0.188	0.250 / 0.249	0.094	0.13	9
EZF-3010	EZF-4010	2.00	2.60	2.000	0.266 / 0.44	2.50	1.81	1.00	1.33	1.09	0.44	0.71	0.3939 / 0.3936	1.4957 / 1.4951	0.190	0.312 / 0.311	0.125	0.13	10
EZF-3012	EZF-4012	2.50	3.17	2.500	0.266 / 0.44	3.29	1.99	1.15	1.57	1.38	0.55	0.75	0.4726 / 0.4723	1.8894 / 1.8888	0.312	0.406 / 0.405	0.125	0.13	12
EZF-3015	EZF-4015	2.70	3.27	2.750	0.281 / 0.44	3.18	2.10	1.25	1.71	1.50	0.63	0.88	0.5908 / 0.5905	2.1256 / 2.1250	0.312	0.500 / 0.499	0.125	0.20	15
EZF-3017	EZF-4017	3.38	4.03	3.250	0.344 / 0.53	3.65	2.33	1.32	1.93	1.63	0.63	0.94	0.6695 / 0.6692	2.5193 / 2.5185	0.312	0.500 / 0.499	0.125	0.20	17
EZF-2020	EZF-4020	3.38	4.03	3.250	0.344 / 0.53	4.03	2.71	1.47	1.98	1.72	0.72	1.03	0.7877 / 0.7873	2.5193 / 2.5185	0.312	0.625 / 0.624	0.188	0.20	20
EZF-3025	EZF-4025	4.38	5.31	4.250	0.531 / 0.81	4.45	2.89	1.67	2.36	1.94	0.76	1.19	0.9846 / 0.9842	3.1492 / 3.1482	0.375	0.750 / 0.749	0.188	0.25	25
EZF-2030	EZF-4030	4.38	5.31	4.250	0.531 / 0.81	4.86	3.05	1.67	2.36	1.94	0.76	1.19	1.1814 / 1.1810	3.1492 / 3.1482	0.375	1.000 / 0.999	0.250	0.25	30