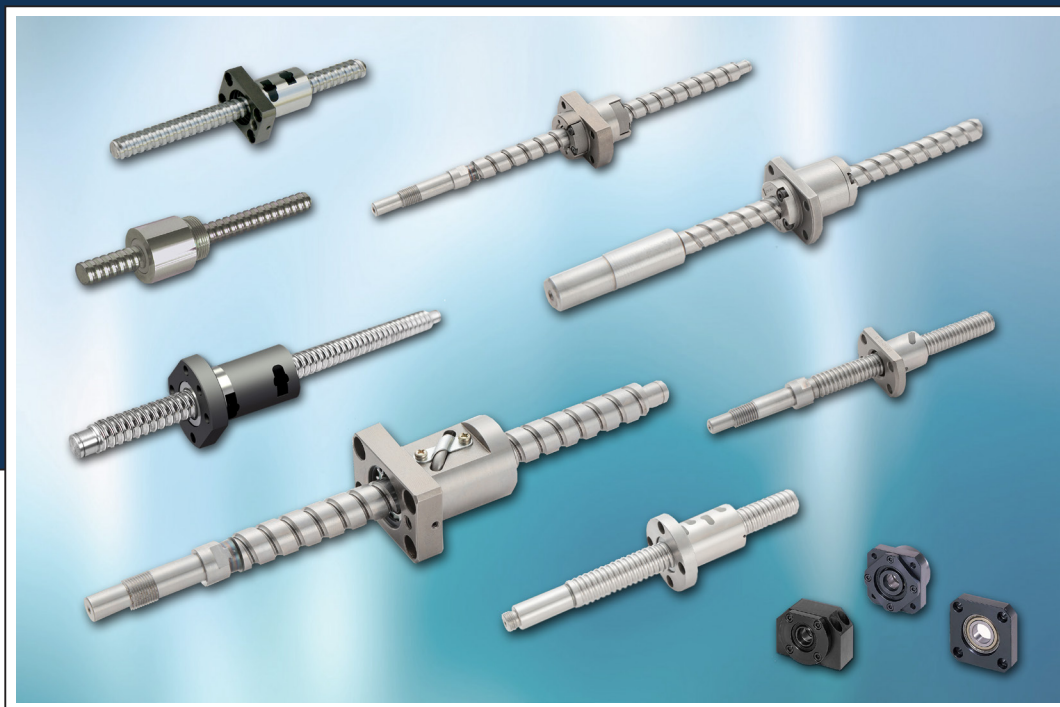


KURODA JENATEC

www.kurodajenatec.com



Ball Screw Guide Book



KURODA JENATEC combines its proud heritage, its dedication to precision technologies, and state-of-the-art manufacturing facilities to be a highly trusted brand in the Linear Motion industry.

With over 800 employees and 8 locations worldwide, **KURODA JENATEC** manufactures high quality precision linear and rotary motion components. The global brand of **KURODA JENATEC** came to be in November 2012 when KURODA PRECISION INDUSTRIES LTD acquired the JENATEC businesses and integrated both organizations and their product offerings. The synergistic effect of utilizing both companies' precision technologies reinforces its highly regarded global standing in the Linear Motion industry.

KURODA PRECISION INDUSTRIES LTD. was established as a gauge manufacturer in 1925. Based on its precision processing technology, KURODA successively developed precision press dies, grinding machines, special polishing machines, tooling for machining, ball screws for precision positioning, and ultra-precise measuring systems. Responding to the needs of customers centered on the Japan and Asian regions in the automobile, processing machine, semiconductor, electric and electronic industries, the KURODA name came to be highly regarded by its customers as "KURODA for Precision". With regard to ball screws, KURODA PRECISION INDUSTRIES manufactures small to medium diameter ball screws under the **KURODA JENATEC** brand.

Jenaer Gewindetechnik GmbH, the manufacturing hub for JENATEC, is located in the city of Jena Germany, and it still thrives today as a state-of-the-art manufacturing facility for precision linear and rotation-related components. It began with Carl Zeiss, the maverick of high precision scientific, medical and engineering industries who created such companies as Carl Zeiss Jena, Jenoptik, and Schott Jenaer. Under the **KURODA JENATEC** brand, this facility focuses on custom and large diameter precision ball screws for the machine tool, automotive, and medical equipment manufacturers along with numerous product applications around the world.



KURODA JENATEC Ball Screws can achieve **JIS and DIN Lead Accuracy Grade C0** and support high precision applications.

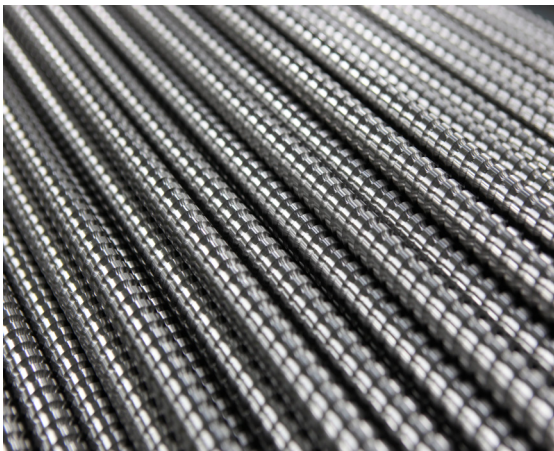


High Quality Standards

From its inception, **KURODA JENATEC** has remained focused on "precision" in measurement. In recent years, the technical development of various machines for higher accuracy and higher speed has been accelerated as customers' needs are more diversified as ever. As an **ISO 9001 and ISO 15001 certified** manufacturer of precision linear motion components, we are supplying ball screws manufactured from carefully selected materials especially in terms of quality with our advanced grinding technologies and extremely tight quality control, using the most modern test and measuring equipment.

Research and Development

Responding to rapid diversification of needs, **KURODA JENATEC** has been pursuing more research and development on ball screws by looking ahead to the advancement of precision engineering technology for the next generation. We are conducting intensive studies into the basics of ideal ball screws, jointly with academic laboratories to accumulate and analyze comprehensive test data on the accuracy, hardness, service life, and other vital factors of ball screws.



Grinding and Assembly

KURODA uses high precision thread grinders dedicated for ball screws, developed and manufactured uniquely by **KURODA**. Grinders are carefully maintained to enable ball screw manufacturing with JIS C0 grade high accuracy. The ball screw shafts, nuts, and recirculation parts are machined to a high accuracy, and are meticulously assembled and finished through a rigorous set of standards by experienced workers. The axial clearance and preloading are strictly administered to achieve a smooth operability and high positioning accuracy that satisfies the requirements of a variety of machines and equipment.

Inspection

In order to assure stable measurement at JIS and DIN C0 grade lead accuracy, we have established a structure including our proprietary lead measuring machine installed in a strictly controlled thermostatic chamber. Additionally, we have measuring machines classified by applications so as to satisfy any needs for various applications and measurement accuracies covering all processes from development to mass production.



KURODA JENATEC

Ball Screw Product Lineup

A-Series	Nut	Accuracy Grade	Shaft Diameters	Screw Shaft Type
AH	Single Nut Side Deflector Method	C5	16, 20, 25	Unfinished shaft ends
AK		C5	12, 15, 20	Unfinished shaft ends
AD	Hard-turned nut thread	C7	16, 20, 25	Unfinished shaft ends

- 30% smaller & 50% lighter nut body
- Space saving alternative
- High load, high speed
- Quiet operations
- LUBSEAL as Standard Equipment



D-Series	Nut Configuration	Accuracy Grade	Shaft Diameters	Screw Shaft Type
DP Series	Single Nut Deflector Method	C1	6,8,10	One end finished
		C3	6,8,10,12,14	One end finished

- Industry's smallest compact nut class
- Ideal for fine pitch forwarding
- Precise positioning



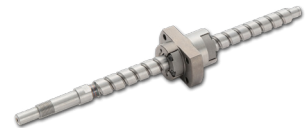
G-Series	Nut	Accuracy Grade	Shaft Diameters	Screw Shaft Type
GP	Single Nut Tube Method	C3	08,10,12, 15, 20	One end finished
GG		C5	08,10,12, 15, 16, 20, 25, 32	Unfinished Ends
GE		C7		
GK		C5 to C7	12,15, 20, 25	Fixed Shaft End

- Wide variety of shaft diameters
- Wide variety of lead sizes
- For positioning
- For transfer



F-Series	Nut	Accuracy Grade	Shaft Diameters	Screw Shaft Type
FG	Single Nut End Deflector Method	C5	10, 12, 15, 20, 25	Unfinished Shaft Ends
FE		C7		
FK		C5	12, 15, 20, 25	

- Ultra-quiet
- High rotational speed
- Compact
- Long service life



H-Series	Nut	Accuracy Grade	Shaft Diameters	Screw Shaft Type
HG	Single Nut End Cap Method	C5	08,12,15, 16, 20	Unfinished shaft ends

- Optimal for high-speed conveyance
- High load capacity in compact design
- Multiple starts at larger leads



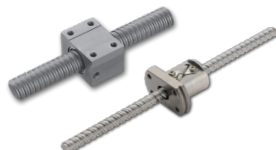
J-Series	Nut	Accuracy Grade	Shaft Diameters	Screw Shaft Type
JTs	Single Nut	C3,C5	16, 20, 25, 28, 32, 40, 50, 63, 80	Unfinished Ends or Machined to Custom Length
JTb	Single Nut		25, 32, 40, 63	
JTe	Single Nut		32, 40, 50, 63	
JTi	Single Nut	C3	16, 20, 25, 28, 32, 40, 50, 57	
JTm	Single Nut	C3	06, 08, 10, 12, 14, 16	

- Variety of diameters and leads available for immediate delivery
- Shafts can be cut to length, turned, ground, or machined for quick delivery



G-Series Rolled	Nut Configuration	Accuracy Grade	Shaft Diameters	Screw Shaft Type
GW Series	Round or Square Nut	C7	ø8 to ø25	Unfinished Shaft Ends
GY Series	Round or Square Nut	C10	ø8 to ø40	

- Cost-saving alternative
- Transfer conveyance
- Wide variety of nut types (round, inlaid tube, square)



J-Series Rolled	Nut	Accuracy Grade	Shaft Diameters	Screw Shaft Type
JTs7	Nose Thread Nut	C7	16, 20, 25, 32, 40, 50, 63	Unfinished Ends or Machined to Custom Length
JTm7	Nose Thread Nut	C7	08, 10, 12, 14, 16	

- Cost-saving alternative
- Variety of diameters and leads available for immediate delivery
- Shafts can be cut to length turned, ground, or machined for quick delivery



KURODA JENATEC

Ball Screw Product Range

Metric Series (Ground, Whirled or Rolled Accuracy Grades)																											Inch Series (Ground only)			
Shaft Ø (mm)	Miniature						Standard																				Pitch/Lead (inches)			
	1	1.5	2	2.5	3	4	5	6	8	10	12	15	16	20	24	25	30	32	40	50	60	64	Standard				0.200 (5.08mm)	0.250 (=6.35mm)	0.500 (12.7mm)	1.000 (25.4mm)
6	D,J		J																											
8	D,J	G	G,D,J	J	G	G		G	G		H																			
10		G	G,D,J	G,J	G,J	G	J			G,F																				
12			G,D,J	J	D	G,J	G,A,J	G		G,F,A				G,F				H												
14			J			D,J																								
15			G	G	G	G	G,F,A	G	G	G,F,D,A		G	G	G,F,H,A		G	H		H											
16			J	J		J	G,D,A,J	G		A,J			G,A	A				H								J				
20						G	G,D,A,J	G	G	G,F,H A,J				G,F,H A,J		G	H	G	H		H					J				
25						J	G,F,A,J	G,J	G,F,J	G,F,H A,J	J			G	G,F	F,A			G	H						J	J			
28							G	J	J	G				G																
32						G	G,J	J	J	G,J	G,J		F	G				G								J	J	J		
36							G	G	G	G	G,F		F	G	G															
40						J	J	J	J	J	J		G,J	J		J		G	J							J	J			
45							G	G	G	G	G	J	J	G																
50							G	G	J	J	J		G	J		J	J		G,J	G						J	J			
55									G	G	G		G	G																
57									J		J		J			J														
63							J	G,J	G	J	J	J	J	G,J		J	J		J											
70										G	G		G	G																
80										J	J	G,J	G,J	J	J		J		J	J										
100											G		G	G		J	J		J	J										
125													G,J	G,J			J													

G series (General, tube recirculation method)

D series (Compact, deflector recirculation method)

H series (Large Lead, high speed conveyance)

 -CUSTOM tooling sizes

F series (High rotational speed, end deflector recirculation method)

A series (Smaller and lighter nut body; high-load, high speed)

J series (Wide variety: metric, inch, right-hand, USA stocked)

Summary of Product Range Specifications

Accuracy	Series	Diameters
C3 Ground	DP	ø6 to ø14 mm
	GP	ø8 to ø20 mm
	JTm3	ø6 to ø16 mm
	JTs3	ø16 to ø80 mm
	JTi3	ø16 to ø57 mm
C5 Ground	FG	ø10 to ø25 mm
	GG	ø8 to ø32 mm
	HG	ø8 to ø32 mm
C5 Whirled	FK	ø10 to ø25 mm
	GK	ø8 to ø32 mm
	AH	ø16 to ø25 mm
	AK	ø12 to ø20 mm
	JTs5	ø20 to ø80 mm
C7 Ground	FE	ø10 to ø25 mm
	GE	ø8 to ø32 mm
C7 Rolled	GW	ø8 to ø25 mm
	AD	ø16 to ø25 mm
	RW	ø8 Resin nut
	JTs7	ø16 to ø63 mm
	JTm7	ø6 to ø16 mm
C10 Rolled	GY	ø8 to ø40 mm

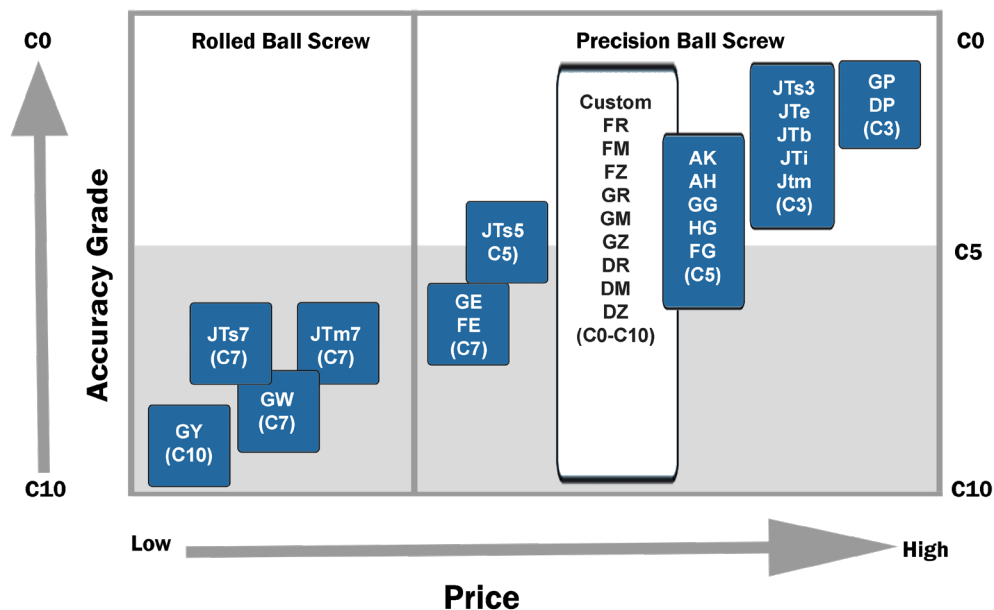
Accuracy	Series	Diameters
C0-10	GR / GM / GZ	ø5 to ø125 mm
	DR / DM / DZ	ø6 to ø50 mm
	JT	ø6 to ø125 mm
C3-C7	FR / FM / FZ	ø10 to ø40 mm
	LUBSEAL™	ø10 to ø25 mm

Custom Designations	
FR	Custom order ball screw with established KURODA specifications and design per CATALOG Details
GR	
DR	
FM	Custom order ball screw with established KURODA specifications and design but with customized flange
GM	
DM	
FZ	Custom order ball screw with established KURODA specifications and design other than the above
GZ	
DZ	
GT	Custom order ROLLED ball screw with established KURODA specifications and design per CATALOG details (for GW/GY series)

Typical KURODA JENATEC Ball Screws Applications

Applications where KURODA JENATEC Ball Screws are used		Accuracy Grade								
			CO	C1	C2	C3	C4	C5	C7	C10
NC machine tools	Cartesian coordinates type (Assembly)	XY		●	●	●				
		Z			●	●	●			
	Lathes	X		●	●	●				
		Z				●	●	●		
	Grinding Machines	X	●	●	●					
		Z		●	●	●				
	Electric discharge machines	XY		●	●	●				
		Z			●	●	●	●		
Punching machines					●	●	●			
	Woodworking machines (NC routers)							●	●	●
Industrial Robots	Cartesian coordinates type (Assembly)			●	●	●	●	●		
	Vertical revoulute type(Assembly)				●	●	●	●		
	SCARA type (Assembly)					●	●	●		
Semiconductor Manufacturing Equipment	Dicing saw					●	●	●		
	Exposure system, Drawing system		●	●						
	Etching Equipment, Ion implanting equipment					●	●	●	●	●
	Wire bonders, Die Bonders			●	●	●				
	Wafer probers		●	●	●	●	●			
	Electrical parts charging apparatus. Insert machines				●	●	●	●	●	
Medical Equipment	Strip Cut and Place Module			●	●	●	●			
	Medical Packaging Machines			●	●	●	●			
	Blood Analyzing Machines			●	●	●	●			
	Dental Equipment			●	●	●	●			
	Medical Treatment Desk Equipment			●	●	●	●			
Printning equipment	Stencil Printer			●	●	●	●	●		
	Electronic color separating apparatus		●	●	●					
	Electronic composing machines			●	●	●				
Business equipment	Color graphic printers			●	●	●				
	XY plotters drawing auto machines			●	●	●				

Selection Process by Accuracy Grade and Price



Ordering Instructions (How to interpret Ball Screw model numbers)

Series	Screw Shaft Dia	Shaft Lead	# of Circuits	Nut Type					Flange Type	Ball Return System	Wiper Material	Thread Direction				Overall Screw Shaft Length	Shaft End Type	Thread Length			Accuracy Grade	Axial Clearance
FG	15	10	P	S	-	H	P	N	R	-	1100	X	1040	-	C5	F						
1	2	3	4	5		6	7	8	9		10	11	12		13	14						

1 Series Description

- AH** Side Deflector Method- High speed, Compact, DIN compatible, C5 Whirled screw
AD Side Deflector Method- High speed, Compact, DIN compatible, C7 Rolled screw with Precision nut
AK Side Deflector Method - High speed, Compact, JIS compatible, C5 Whirled screw
DP Deflector Method - Ultra compact nut for fine pitch forwarding, precise positioning, C3 Precision screw
FG End Deflector Method - Ultra quiet, Ultra high speed, C5 Precision screw
FE End Deflector Method - Ultra quiet, Ultra high speed, C7 Precision screw
FK End Deflector Method - Ultra quiet, Ultra high speed, C5 Whirled screw
GP Tube Method - Wide variety, general use, C3 Precision screw
GG Tube Method - Wide variety, general use, C5 Precision screw
GE Tube Method - Wide variety, general use, C7 Precision screw
GK Tube Method - Wide variety, general use, C5 Whirled screw
GW Tube Method - Wide variety, general use, C7 Rolled screw
GY Tube Method - Wide variety, general use, C10 Rolled screw
HG End Deflector Method- Larger leads, High feed rate at low rotational speed, C5 Precision screw
RW End Deflector Resin Nut, C7 Rolled screw

2 Screw Shaft Outer Diameter (mm)

indicated by 2 digit number

3 Screw Lead (mm)

indicated by 2 digit number

4 Number of Circuits

- | | |
|--------------------------|-----------------------------------|
| A: 1.5 turns, 1 circuit | J: 1 turn, 3 circuits |
| B: 1.5 turns, 2 circuits | K: 1 turn, 4 circuits |
| C: 1.5 turns, 3 circuits | P: End Deflector type |
| D: 2.5 turns, 1 circuit | Q: End Cap type |
| E: 2.5 turns, 2 circuits | 2: 1.7 turn, 1 circuit (A-Series) |
| F: 2.5 turns, 3 circuits | 3: 2.7 turn, 1 circuit (A-Series) |
| G: 3.5 turns, 1 circuit | 4: 3.7 turn, 1 circuit (A-Series) |
| R: 3.5 turns, 2 circuits | Z: Other |
| H: 1 turn, 2 circuits | |

5 Nut Type

- | | |
|-----------------------------|----------------------|
| S: Single nut | F: Flange double nut |
| T: Integral nut | (spacer type) |
| D: Double nut (pin type) | Z: Other |
| E: Double nut (spacer type) | |

6 Flange Type

- | | |
|---------------------------------|--------------------------------------|
| A: Square flange | E: Square flange without spot facing |
| B: Rectangle flange | H: Double side-cut round flange |
| C: Round flange | N: No flange (square nut) |
| D: Single side-cut round flange | Z: Other |

7 Ball Recirculation Description

- | | |
|-----------------------------|--------------------------------------|
| A: Round type (tube method) | S: Side deflector method |
| D: Deflector method | H: High lead type End-cap method |
| E: End-cap method | K: Square type (tube method) |
| G: Guide plate method | T: Protruded tube type (tube method) |
| P: End deflector method | U: Inlaid tube method |

8 Wiper Material

- | | |
|------------------|---------------|
| N: No wiper | L: Lip seal |
| P: Plastic wiper | F: Felt wiper |
| S: LUBSEAL™ | Z: Other |
| B: Brush wiper | |

9 Thread Direction

- R: Right-hand thread
L: Left-hand thread
Z: Other

10 Overall Shaft Length (mm)

indicated by 4 digit number

11 Shaft End Configuration

- A: Both ends unfinished
B: One end finished
X: Both ends finished
D: Both ends unfinished if GY Series screw shafts are ordered without ball nuts
Y: Both ends finished if GY Series screw shafts are ordered without ball nuts

12 Thread Length (mm)

indicated by 2 digit number

13 Accuracy Grade

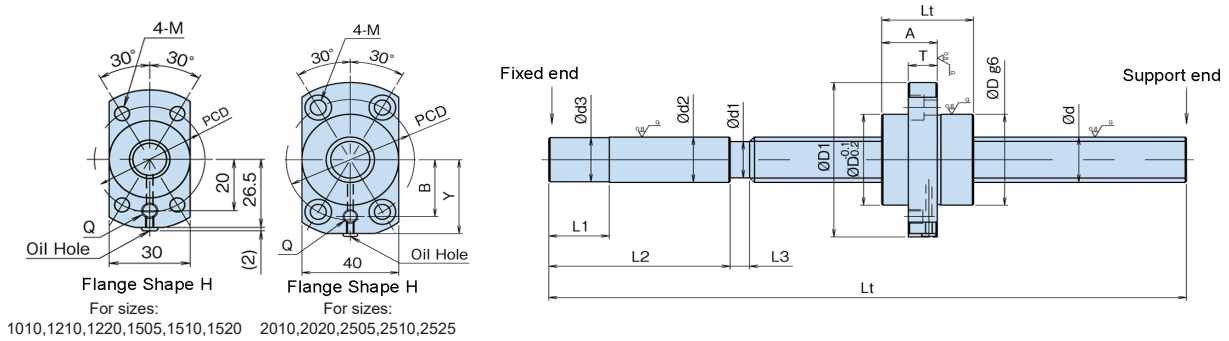
- C1 thru C10
CA: symbol for C10 accuracy

14 Axial Clearance

- | | |
|---|---------------------|
| S: 0.00 mm (preloaded) | L: 0.200 mm or less |
| F: 0.005 mm or less | M: 0.030 mm or less |
| H: 0.010 mm or less | Z: Other |
| Y: Axial clearance for rolled ball screws | |

F-Series: Ultra-Quiet End-Deflector Method

Applications: Semiconductor, SMT, Machine Tool, Medical Lab



Ordering Example: F-Series

Series	Screw Shaft Dia	Shaft Lead	# of Circuits	Nut Type		Flange Type	Ball Return System	Wiper Material	Thread Direction		Overall Screw Shaft Length	Shaft End Type	Thread Length		Accuracy Grade	Axial Clearance
FE	15	10	P	S	-	H	P	N	R	-	1500	X	1440	-	C5	M
①	②	③	④	⑤		⑥	⑦	⑧	⑨		⑩	⑪	⑫		⑬	⑭

Shaft Dimensions: **FG** (Unmachined Ends, Ground C5) / **FE** (Ground C7) / **FK** (Whirled C5)

Model No.	Shaft diameter d	Lead	Root diameter d1	Circuit & turn	Axial clearance	Basic dynamic load rating (N)	Basic static load rating (N)	Shaft dimensions					
								Shaft ends					Overall Screw Shaft Length Lt (mm)
								d2	d3	L1	L2	L3	
FG / FE 1010PS-HPNR	10	10	8.1	1.7×1	M: FE F: FG	2600	3800	14	13.7	20	55	8	255/455
FG / FE / FK 1210PS-HPNR	12	10	9.5	2.7×1		6700	10700	12	11.7			5	455/605
FG / FE / FK 1220PS-HPNR		20	9.5	1.7×1		4300	6700	12				455/605	
FG / FE / FK 1505PS-HPNR	15	5	12.5	2.7×1		7400	12900	15	14.5	25	55	5	600/1100
FG / FE / FK 1510PS-HPNR		10	12.5	2.7×1		7400	12900						600/900/1100
FG / FE / FK 1520PS-HPNR		20	12.5	1.7×1		4800	8200						600/900/1100
FG / FE / FK 2010PS-HPNR	20	10	16	2.7×1		18000	33900	20	19.5	75	8	605/1005/1505	
FG / FE /FK 2020PS-HPNR		20	15.9	1.7×1		11600	20600					1005/1505	
FG / FE / FK 2505PS-HPNR	25	5	22.5	3.7×1		13100	31800	25	24.5	100	5	8	600/1000/1505
FG / FE / FK 2510PS-HPNR		10	21	2.7×1		20400	42600						1020/1520
FG / FE / FK 2525PS-HPNR		25	1.7×1	13100		25900	1020/1520						

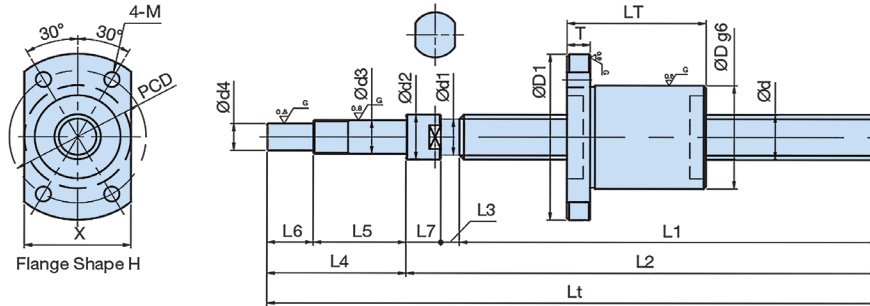
Axial clearance M: Max 0.030mm, F: Max 0.005mm Wiper Material N: No wiper or S: Lubseal Option

Nut Dimensions: **FG** (Unmachined Ends, Ground C5) / **FE** (Ground C7) / **FK** (Whirled C5)

Model No.	Nut dimensions												
	Body diameter D	Lt	A	Flange							Mounting hole M Counter bore hole	Mounting hole M Counter bore depth	Oil hole Q
				T	D1	X	Y	PCD P	B	Mounting hole M			
FG / FE 1010PS-HPNR	23	27	17.5	10	44	24	21.5	32	16	4.5	-	-	M3
FG / FE / FK 1210PS-HPNR	27	38	19.5	10	47	27	23	36	18	4.5			
FG / FE / FK 1220PS-HPNR	27	48	20	10	47	27	23	36	18	4.5			
FG / FE / FK 1505PS-HPNR	30	25	17.3	9.5	54	30	26.5	41	20	5.5	-	-	M6
FG / FE / FK 1510PS-HPNR	30	38	20	10	54	30	26.5	41	20				
FG / FE / FK 1520PS-HPNR	30	48	20.5	10	54	30	26.5	41	20				
FG / FE / FK 2010PS-HPNR	40	38	23	12	68	40	32.5	53	25	6.6	11	6.5	M6
FG / FE / FK 2020PS-HPNR		48	23	12									
FG / FE / FK 2505PS-HPNR	40	30	20	12	68	40	32.5	53	25				
FG / FE / FK 2510PS-HPNR	45	37	25	15	74	45	35.5	59	28	6.6	11	6.5	M6
FG / FE / FK 2525PS-HPNR		58	27	15									

D-Series: Compact, High Precision Positioning Deflector Method

Applications: XYθ Stages, Robotic Assisted Surgical Equipment, Semiconductor



Ordering Example: **D-Series**

Series	Screw Shaft Dia	Shaft Lead	# of Circuits	Nut Type	Flange Type	Ball Return System	Wiper Material	Thread Direction	Overall Screw Shaft Length	Shaft End Type	Thread Length	Accuracy Grade	Axial Clearance
DP	08	01	J	S	H	D	N	R	0183	X	0126	C3	S
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭

Shaft Dimensions: **DP Series** (C1 or C3 GROUND Thread Accuracy)

Model No.	Accuracy Grade	Shaft diameter d	Lead (mm)	Root diameter d1	Circuit & turn	Axial clearance	Basic dynamic load rating (N)	Basic static load rating (N)	Shaft dimensions										
									Shoulder		Thread Length L1 (mm)	L2 (mm)	Total Length L1 (mm)	Shaft Ends					
									d2	L7				L3	L4	L5	d3	L6	d4
DP0601JS-HDNR-□□□□B-C1F/S	1	6	1	---	1×3	F:Max 0.005mm S: Max 0.0mm	550	1150	9.5	7	90	100	130	3	30	22.5	6	7.5	4.5
DP0601JS-HDNR-□□□□B-C1F/S											170	180	210						
DP0601JS-HDNR-□□□□B-C3F/S																			
DP0601JS-HDNR-□□□□B-C3F/S	3																		
DP0801JS-HDNR-□□□□B-C1F/S																			
DP0801JS-HDNR-□□□□B-C1F/S																			
DP0801JS-HDNR-□□□□B-C3F/S	1	8	1	7.3	1×3		650	1600	11.5	8	132	143	180	3	37	27	8	10	6
DP0801JS-HDNR-□□□□B-C1F/S											212	223	260						
DP0801JS-HDNR-□□□□B-C3F/S											132	143	180						
DP0801JS-HDNR-□□□□B-C3F/S	3	8	1	7.3	1×3		650	1600	11.5	8	212	223	260	3	37	27	8	10	6
DP0802JS-HDNR-□□□□B-C1F/S											132	143	180						
DP0802JS-HDNR-□□□□B-C1F/S											212	223	260						
DP0802JS-HDNR-□□□□B-C1F/S	1	8	2	7	1×3		1350	2300	11.5	8	132	143	180	3	37	27	8	10	6
DP0802JS-HDNR-□□□□B-C3F/S											212	223	260						
DP0802JS-HDNR-□□□□B-C3F/S											132	143	180						
DP0802JS-HDNR-□□□□B-C3F/S	3	8	2	7	1×3		1350	2300	11.5	8	212	223	260	3	37	27	8	10	6
DP1002JS-HDNR-□□□□B-C1F/S											132	143	180						
DP1002JS-HDNR-□□□□B-C1F/S											212	223	260						
DP1002JS-HDNR-□□□□B-C1F/S	1	10	2	9	1×3		1550	3000	11.5	8	172	183	220	3	37	27	8	10	6
DP1002JS-HDNR-□□□□B-C1F/S											272	283	320						
DP1002JS-HDNR-□□□□B-C3F/S											272	283	320						
DP1002JS-HDNR-□□□□B-C3F/S	3	10	2	9	1×3		1550	3000	11.5	8	172	183	220	3	37	27	8	10	6
DP1002JS-HDNR-□□□□B-C3F/S											272	283	320						
DP1002JS-HDNR-□□□□B-C3F/S						272					283	320							
DP1202JS-HDNR-□□□□B-C3F/S	3	12	2	11	1×3	1650	3600	14	10	242	255	300	3	45	30	10	15	8	
DP1202JS-HDNR-□□□□B-C3F/S										342	355	400							
DP1202JS-HDNR-□□□□B-C3F/S										240	255	300							
DP1203JS-HDNR-□□□□B-C3F/S	3	12	3	10.3	1×3	3450	6100	14	10	240	255	300	5	45	30	12	15	10	
DP1203JS-HDNR-□□□□B-C3F/S										340	355	400							
DP1203JS-HDNR-□□□□B-C3F/S										270	285	330							
DP1404JS-HDNR-□□□□B-C3F/S	3	14	4	12.1	1×3	4600	8600	15	10	270	285	330	5	45	30	12	15	10	
DP1404JS-HDNR-□□□□B-C3F/S										470	485	530							

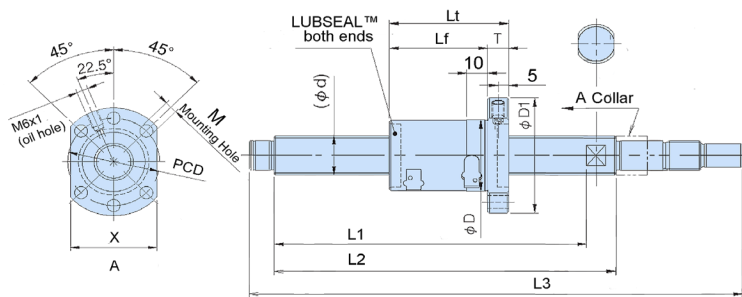
Wiper Material N: No wiper, P: Plastic

Nut Dimensions: **DP Series** (C1 or C3 GROUND Thread Accuracy)

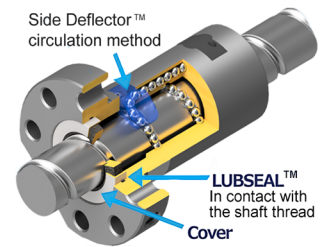
Model No.	Nut dimensions									Wiper	Oil hole
	Body diameter (mm)	LT	Flange								
			T	D1	X	PCD P	Bolt M	Configuration			
DP0601JS-HDNR-□□□□B-C1F/S	10	14.5	3.5	22	14	16	M3	H	N	N/A	
DP0601JS-HDNR-□□□□B-C3F/S											
DP0801JS-HDNR-□□□□B-C1F/S											
DP0801JS-HDNR-□□□□B-C3F/S	12	15	4	25	16	19	M3		N	N/A	
DP0802JS-HDNR-□□□□B-C1F/S											
DP0802JS-HDNR-□□□□B-C3F/S											
DP1002JS-HDNR-□□□□B-C1F/S	16	22	5	33	21	25	M4		N	N/A	
DP1002JS-HDNR-□□□□B-C3F/S											
DP1202JS-HDNR-□□□□B-C3F/S											
DP1202JS-HDNR-□□□□B-C3F/S	18	22	5	35	22	27	M4		N	N/A	
DP1203JS-HDNR-□□□□B-C3F/S											
DP1203JS-HDNR-□□□□B-C3F/S											
DP1203JS-HDNR-□□□□B-C3F/S	21	36	5	38	23	30	M4		P	N/A	
DP1203JS-HDNR-□□□□B-C3F/S											
DP1203JS-HDNR-□□□□B-C3F/S											
DP1404JS-HDNR-□□□□B-C3F/S	26	40	10	45	29	35	M4		9	M6	
DP1404JS-HDNR-□□□□B-C3F/S											

A-Series: Next Generation Side Deflector™

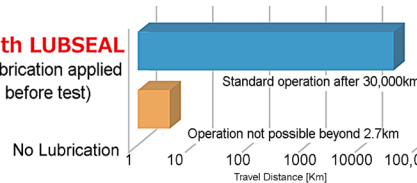
High-speed, Low-noise, Compact Ball Screw with LUBSEAL™



LUBSEAL™ is a lubrication unit fitted in contact with the shaft thread and supplies a proper amount of lubricant. Designed to maximize ball screw performance without sacrificing shaft length, LUBSEAL units prolong maintenance-free operation with no loss in range in motion, while also providing low sliding resistance.



With LUBSEAL
(Lubrication applied before test)



[Test Conditions]
Shaft Ø: 15mm
Lead: 20mm
Axial Clearance: 0.005mm or less
Rotational speed: 3000min⁻¹
Stroke: 400mm

Ordering Example: A-Series

Series	Screw Shaft Dia	Shaft Lead	# of Circuits	Nut Type		Flange Type	Ball Return System	Wiper Material	Thread Direction		Overall Screw Shaft Length	Shaft End Type	Thread Length		Accuracy Grade	Axial Clearance
AD	20	05	4	S	-	H	S	S	R	-	1460	X	1360	-	C7	H
①	②	③	④	⑤		⑥	⑦	⑧	⑨		⑩	⑪	⑫		⑬	⑭

Shaft & Nut Dimensions: **AH** (C5 Accuracy), **AK** (C5 Accuracy), **AD** (C7 Accuracy)

Model No.	Thread Accuracy	Shaft Dimensions					Nut Dimensions							
		Nominal Shaft Ø d (mm)	Lead L (mm)	Basic Dynamic Load Rating C	Basic Static Load Rating co	Overall Shaft Length L3 (mm)	Nut Body Ø D (mm)	Nut Overall Length Lt (mm)	Nut Body Length Lf (mm)	Thickness T (mm)	Width X (mm)	Diam Ø D1 (mm)	PCD (mm)	Mounting Hole M (mm)
AH16054S-HSSR	C5	16	05	8400	13300	480, 730, 960, or 1460	28	47	37	10	40	48	38	5.5
AH16103S-HSSR			10	6300	9700	480, 730, 960, or 1460		57	47					
AH16162S-HSSR			16	4200	6100	480, 730, 960, or 1460		58	48					
AH16202S-HSSR			20	4100	6100	480, 730, 960, or 1460		66	56					
AH20054S-HSSR		20	05	11500	20500	480, 730, 960, or 1460	36	50	40	10	44	58	47	5.5
AH20103S-HSSR			10	8700	14900	480, 730, 960, or 1460		57	47					
AH20202S-HSSR			20	5700	9400	480, 730, 960, or 1460		66	56					
AH25054S-HSSR		25	05	12700	25700	480, 730, 960, or 1460	40	47	37	10	48	62	51	6.6
AH25103S-HSSR			10	9700	18800	480, 730, 960, or 1460		57	47					
AH25252S-HSSR			25	6300	11800	480, 730, 960, or 1460		76	66					
AK1205*S-HSSR	C5	12	05	5900	8100	480, 730, 960, or 1460	25	43	33	10	27	40	35	4.4
AK1210*S-HSSR			10	3700	5100	480, 730, 960, or 1460		46	36					
AK1505*S-HSSR		15	05	7600	11100	480, 730, 960, or 1460	30	45	35	10	32	47	41	5.5
AK1510*S-HSSR			10	4900	7000	480, 730, 960, or 1460		46	36					
AK1520*S-HSSR			20	4900	7000	480, 730, 960, or 1460		65	55					
AK2005*S-HSSR		20	05	8800	15000	480, 730, 960, or 1460	37	48	36	12	38	57	50	6.6
AK2010*S-HSSR			10	11300	18400	480, 730, 960, or 1460		61	49					
AK2020*S-HSSR			20	7600	11600	480, 730, 960, or 1460		70	58					
AD16054S-HSSR	C7	16	05	7600	12000	480, 730, 960, or 1460	28	47	37	10	40	48	38	5.5
AD16103S-HSSR			10	5700	8700	480, 730, 960, or 1460		57	47					
AD16162S-HSSR			16	3800	5500	650 or 1150		58	48					
AD16202S-HSSR			20	3700	5500	650 or 1150		66	56					
AD20054S-HSSR		20	05	10400	18500	650, 900, 1150, or 1650	36	50	40	10	44	58	47	5.5
AD20103S-HSSR			10	7800	13400	650, 900, 1150, or 1650		57	47					
AD20202S-HSSR			20	5100	8500	650, 900, 1150, or 1650		66	56					
AD25054S-HSSR		25	05	11400	23100	650, 900, 1150, or 1650	40	47	37	10	48	62	51	6.6
AD25103S-HSSR			10	8700	16900	650, 900, 1150, or 1650		57	47					
AD25252S-HSSR			25	5700	10600	650, 900, 1150, or 1650		76	66					

* Number of Circuits are 1.7, 2.7 or 3.7 turns per 1 row

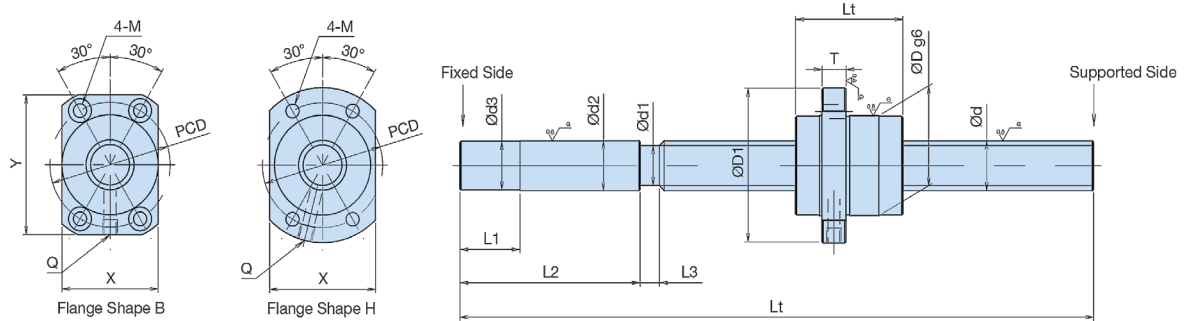
AH Axial clearance F: 0.005mm or less, AD Axial clearance H: 0.010mm

Wiper Material S: LUBSEAL

LUBSEAL™ and Side Deflector™ are registered trademarks of KURODA.

H-Series: End-Cap Method

Applications: Water Handling Robot, SMT, PCB Inspection, Transferring Systems



Ordering Example: H-Series

Series	Screw Shaft Dia	Shaft Lead	# of Circuits	Nut Type	Flange Type	Ball Return System	Wiper Material	Thread Direction	Overall Screw Shaft Length	Shaft End Type	Thread Length	Accuracy Grade	Axial Clearance
HG	20	20	Q	S	H	E	Z	R	1000	X	930	C5	F
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭

Shaft Dimensions: HG Series (C5 Ground Accuracy Grade)

Model No.	Shaft DiamØ d	Lead	Root DiamØ d1	Circuit & turn	Axial clearance	Basic dynamic load rating (N)	Basic static load rating (N)	Shaft dimensions					
								Shaft ends					Lt
								d2	d3	L1	L2	L3	
HG0812QS-HEZR	8	12		1.67×2	H	2490	3460	12	11.7	20	45	12	340
HG1230QS-BEZR	12	30	9.5	0.67×3	H	4800	6650	12	11.7	20	55	15	500/800
HG1520QS-HEZR	15	20	12.5	1.67×2	F	8740	17550	15	14.5	25	55	10	600/1100/1300
HG1540QS-BEZR		40	12.5	0.67×3	H	5600	8600					15	600/1100
HG1632QS-HEZR	16	32	13.5	0.67×3	F	6100	9100	16	15.5	25	55	15	600/1100
HG2020QS-HEZR	20	20	17.5	1.67×2	F	8740	17550	20	19.5	25	75	5	1000/1500
HG2030QS-HEZR		30				10690	2330					5	
HG2040QS-HEZR		40		0.67×3	H	6800	12100					15	
HG2060QS-BEZR		60										20	

Axial clearance F: 0.005mm or less or H: 0.010mm

Nut Dimensions: HG Series (C5 Ground Accuracy Grade)

Model No.	Nut dimensions										Oil hole Q
	Body diameter D	Lt	Flange						Type of Wiper		
			T	D1	Y	X	PCD P	Mounting Bolt hole M		Shape	
HG0812QS-HEZR	18	27	4	31	-	20	25	M3	H	Z	N/A
HG1230QS-BEZR	32	35	10	56	48	32	43	M5	B	Z	M6
HG1520QS-HEZR	34	47.5	10	55	-	34	45	M5	H	Z	
HG1540QS-BEZR		41.7	12	58	50	34	45		B		
HG1632QS-HEZR	35	36.3	10	56	-	38	44	M4	H	Z	
HG2020QS-HEZR	39	47.5	10	62	-	39	50	M5	H	Z	
HG2030QS-HEZR		64			-						
HG2040QS-HEZR	40	44.7			-	44					
HG2060QS-BEZR		58			12	56					

Type of Wiper Z: End cap integrated lip; F: Felt

G-Series: General Use Tube Method

Applications: Machine Tool, Transfer Machine, Precise Positioning

Shaft Dimensions: **GG** (C5 Ground), **GE** (C7 Ground), **GK** (C5 Whirled)

Model No.	Shaft diameter (mm) d	Lead (mm)	Root diameter d1	Circuit & turn	Axial clearance	Basic dynamic load rating (N)	Basic static load rating (N)	Shaft dimensions					
								Shaft ends					Overall Screw Shaft Length Lt (mm)
								d2	d3	L1	L2	L3	
GE/GG0802DS-AANR- xxxx A	8	2	6.6	2.5×1	M/F	1950	2600	12	11.7	20	45	3	215
GE/GG0804DS-BAFR- xxxx A		4	6.3			2350	3300					6	215/340
GE/GG1002DS-EANR- xxxx A	10	2	8.6	2.5×1		2250	3300	10	9.7	20	45	3	250/320
GE/GG1004DS-BAPR- xxxx A		4	8.1			3350	5900	12	11.7		5	255/385/455	
GE/GG1010AS-BAPR- xxxx A		10		1.5×1		2200	3500	14	13.7	8	255/455		
GE/GG/GK1202DS-AAPR- xxxx A		12	2	10.6		2.5×1	2450	4100	12	11.7	20	50	3
GE/GG/GK1204DS-AALR- xxxx A	4		10.1	3600			6750	405/605					
GE/GG/GK1205DS-BALR- xxxx A	5		9.5	5950			9800	305/455					
GE/GG/GK1210AS-BALR- xxxx A	10			1.5×1		3850	5900	455/605					
GE/GG/GK1220AS-BALR- xxxx A	20					405/605/900							
GE/GG/GK1502DS-BAPR- xxxx A	15		2	13.6		2.5×1	2700	5500	15	14.5	20	55	3
GE/GG/GK1504DS-BALR- xxxx A		4	13.1	4100			8550	600/1100					
GE/GG/GK1505DS-BALR- xxxx A		5	12.5	6900		12500	600/1100						
GE/GG/GK1510AS-BALR- xxxx A		10		1.5×1		4400	7900	600/900/1100					
GE/GG/GK1510DS-BALR- xxxx A		1.5×1		6900		12500	600/900/1100						
GE/GG/GK1515AS-BALR- xxxx A				15		4400	7900	600/900/1100					
GE/GG/GK1520AS-BALR- xxxx A				20		600/900/1100							
GE/GG/GK1616AS-BALR- xxxx A	16	16	13.5	1.5×1		4750	8300	16	15.5	25	55	5	600/900
GE/GG/GK2004ES-AALR- xxxx A	20	4	18.1	2.5×2		8600	23400	20	19.5	25	75	5	605
GE/GG/GK2005DS-BALR- xxxx A		5	17.5	8350		17500	605/1005/1505						
GE/GG/GK2010DS-BALR- xxxx A		10	16	13500		25100	8					605/1005/1505/1805	
GE/GG/GK2020AS-BALR- xxxx A		20	15.9	9200		16200						1005/1505	
GE/GG/GK2505DS-AALR- xxxx A	25	5	22.5	2.5×1		9400	22200	25	24.5	25	100	5	600/1000/1505
GE/GG/GK2510DS-BALR- xxxx A		10	16100			33400	1020/1520						
GE/GG/GK2520AS-BALR- xxxx A		20	1.5×1	10400		20100	8						1020/1520
GE/GG/GK2525AS-BALR- xxxx A		25		1020/1520									
GE/GG3205ES-DALR- xxxx A		32		5		29.5							2.5×2
GE/GG3210DS-DALR- xxxx A	10		27.2	2.5×1	25800	55600	200	10	1000/1600/2000				

xxxx : overall length Axial clearance M: Max 0.030mm, F:Max 0.005mm Wiper Material N: No wiper, F: Felt; P: Plastic

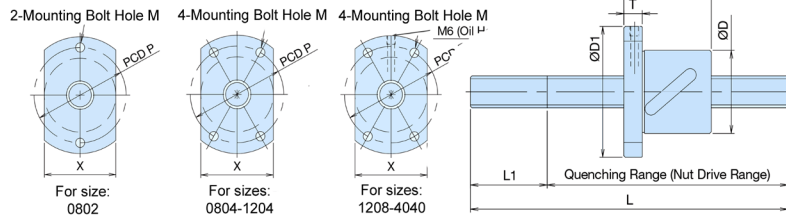
Nut Dimensions: **GG** (C5 Ground), **GE** (C7 Ground), **GK** (C5 Whirled)

Model No.	Nut dimensions										
	Body diameter D	Lt	Flange							Type of Wiper	Oil hole Q
			T	D1	X	Y	PCD P	Mounting Bolt hole M	Shape		
GE/GG0802DS-AANR-xxxx-A	20	30	5	36	28	---	27	M3	A	N	N/A
GE/GG0804DS-BAFR-xxxx-A	22	30	5	38	34	24	29	M3	B	F	
GE/GG1002DS-EANR-xxxx-A	23	27	5	40	31	---	31	M4	E	N	
GE/GG1004DS-BAPR-xxxx-A	26	37	8	46	42	28		M4	B	P	
GE/GG1010AS-BAPR-xxxx-A	28	40	8	47	45	30	36	M4	B		
GE/GG/GK1202DS-AAPR-xxxx-A	25	35	8	44	34	---	33	M4	A	L	
GE/GG/GK1204DS-AALR-xxxx-A	30	41	10	54	41	---	41	M5			
GE/GG/GK1205DS-BALR-xxxx-A	30	44	10	50	45		40	M4			
GE/GG/GK1210AS-BALR-xxxx-A	30	49	12	54	48	32	41	M5			
GE/GG/GK1220AS-BALR-xxxx-A	32	68		56			43	M5	B	L/S	
GE/GG/GK1502DS-BAPR-xxxx-A	30	37		54	48	32	41	M5			
GE/GG/GK1504DS-BALR-xxxx-A	32	41	10	56			43	M5			M6
GE/GG/GK1505DS-BA*R-xxxx-A	34	44						M5			
GE/GG/GK1510AS-BA*R-xxxx-A		52						M5			
GE/GG/GK1510DS-BA*R-xxxx-A		52	12	58	50	34	45	M5			
GE/GG/GK1515AS-BA*R-xxxx-A		54						M5			
GE/GG/GK1520AS-BA*R-xxxx-A		62						M5			
GE/GG/GK1616AS-BT*R-xxxx-A	34	54	12	58	50	34	45	M5		L/S	M6
GE/GG/GK2004ES-AALR-xxxx-A	40	49	10	64	49	---	51	M5	A	L	M6
GE/GG/GK2005DS-BA*R-xxxx-A	40	48	12	68	60	40	53	M6	B	L/S	
GE/GG/GK2010DS-BA*R-xxxx-A	46	65	15		66	46	59	M6			
GE/GG/GK2020AS-BA*R-xxxx-A	46	70		74		46	59	M6	A	L/S	
GE/GG/GK2505DS-AA*R-xxxx-A	47	48	12		57	---	60	M6			M6
GE/GG/GK2510DS-BA*R-xxxx-A	52	65		86		52	68	M8			
GE/GG/GK2520AS-BALR-xxxx-A	52	70	15		78	52	68	M8			
GE/GG/GK2525AS-BA*R-xxxx-A	54	77		88		54	70	M8	D	L	
GE/GG3205ES-DALR-xxxx-A	58	58	12	85	---	32	71	M6			M6
GE/GG3210DS-DALR-xxxx-A	74	68	15	108	---	41	90	M8			

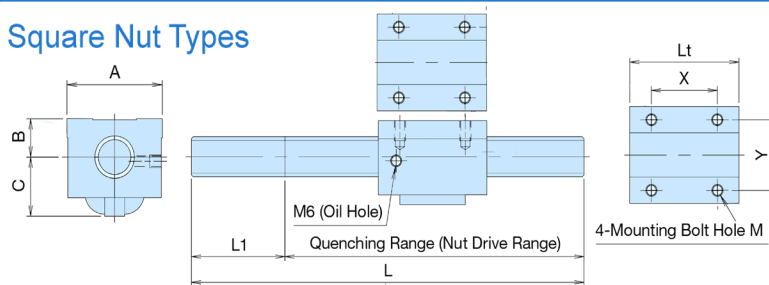
G-Series: Rolled, GW / GY

Applications: Cost Savings Alternative

Round Nut Types



Square Nut Types



GW / GY Features:

● Wide variety in sizes

An optimal size can be selected from the variety of screw shaft diameters and leads, eliminating unnecessary compromise in size selection

● Several nut types available

Nut types such as flange and square are suited for various mounting configurations

● Interchangeable

GY Series shafts and nuts are mutually compatible, thus interchangeable.

Summary of GW/GY specifications:

Component Type	Nut and Screw Assembly			
Series	GW		GY	
Manufacturing Process	Rolled thread	Rolled thread	Rolled thread	Rolled thread
Accuracy Grade	C7	C7	C10	C10
Standard or Custom	Standard	Standard	Standard	Standard
Design Measurement	Metric	Metric	Metric	Metric
Nut Recirculating Design	Tube method, Round Nut	Tube method, Square Nut	Tube method, Round Nut	Tube method, Square Nut
Screw Shaft Diameter (mm)	08,10,12,15, 20, 25	15, 20, 25	08,10,12,15,25,28,32,36,40	15, 20, 25, 32
Pitch/Nominal Lead (mm)	02,04,05,06,08,10,16,20,25,32,40	02,04,05,10,16,20,25,32,40	02,04,05,06,10,16,20,25,32,40	02,04,05,10,16,20,25,32,40
Screw Shaft Diameter x Lead Available Combinations	0802, 1004, 1005, 1006, 1010, 1202, 1204, 1208, 1210, 1505, 1510, 1516, 1520, 2005, 2010, 2020, 2505, 2510, 2525	1505, 1510, 2005, 2010, 2505, 2510	0802, 0804, 0805, 1002, 1004, 1005, 1006, 1010, 1202, 1204, 1208, 1210, 1505, 1510, 1516, 1520, 2005, 2010, 2020, 2505, 2510, 2525, 2806, 3210, 3232, 3610, 3620, 4010, 4020, 4040	1505, 1510, 2005, 2010, 2505, 2510, 3210
Screw Shaft Type	Unfinished shaft end or Machined shaft end	Unfinished shaft end or Machined shaft end	Unfinished shaft end or Machined shaft end	Unfinished shaft end or Machined shaft end
Overall Screw Shaft Length (mm)	200 to 2500	200 to 2500	200 to 4000	200 to 4000
Global Manufacturing Standard	JIS	JIS	JIS	JIS

Ordering Example: GW Series

Series	Screw Shaft Dia	Shaft Lead	# of Circuits	Nut Type	Flange Type	Ball Return System	Wiper Material	Thread Direction	Overall Screw Shaft Length	Shaft End Type	Thread Length	Accuracy Grade	Axial Clearance
GW	12	10	A	S	H	U	L	R	0400	x	0330	C7	Y
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭

Ordering Example: GY Series

Series	Screw Shaft Dia	Shaft Lead	# of Circuits	Nut Type	Flange Type	Ball Return System	Wiper Material	Thread Direction	Overall Screw Shaft Length	Shaft End Type	Thread Length	Accuracy Grade	Axial Clearance
GY	15	05	D	S	N	K	L	R	0600	X	0450	CA	Y
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭

G-Series: Rolled, GW / GY

Applications: Cost Savings Alternative

Shaft & Nut Dimensions: GW (C7 Rolled), GY(C10 Rolled)- Unfinished Shaft Ends

Model No.	Shaft dimensions								Nut dimensions							
	Shaft diameter (mm)	Lead (mm)	Root diameter (mm)	Circuit & turn	Basic dynamic load rating (N)	Basic static load rating (N)	Overall length	End Length L1	Body Dia A	Total length Lt	Thickness T	Dia D1	Width X	Width Y	Bolt Hole M	Oil hole Q
Round Nut Options																
GW/GY0802GS-HGMR-	8	2	6.6	3.5×1	1800	3200	200/400	55	20	28	6	40	24	30	M4	N/A
GY0804DS-HANR-		4	6.3	2.5×1	1900	3100	200/400	55	23	28	5	38	24	30	M3	N/A
GY0805DS-HUNR-		5	6.4	2.5×1	1900	3100	200/400	55	22	27	6	38	29	29	M3	N/A
GY0808DS-HANR-		6	6.3	2.5×1	1200	1800	200/400	55	23	28	5	38	24	30	M3	N/A
GY1002DS-HANR-	10	2	8.4	2.5×1	1700	3000	400/600	60	23	28	6	43	27	33	M4	N/A
GW/GY102FGS-HGMR-		2.5	8.2	3.5×1	2600	5200	400/600	60	24	32	8	44	27	34	M4	N/A
GW/GY1004DS-HANR-		4	7.8	2.5×1	2300	4800	400/600	60	26	34	8	46	28	36	M4	N/A
GY1005DS-HUNR-		5	7.7	2.5×1	2300	4800	400/600	60	26	32	8	42	26	34	M4	N/A
GY1006DS-HANR-		4	7.7	2.5×1	2300	4800	400/600	60	26	36	8	42	26	34	M4	N/A
GW/GY1010AS-HANR-		10	7.8	1.5×1	1850	3200	400/600	60	28	34	8	47	30	36	M4	N/A
GY1010BS-HANR-		10	7.8	1.5×1	1850	3200	400/600	60	28	34	8	47	30	36	M4	N/A
GY1202DS-HANR-		2	10.6	2.5×1	2000	3600	400/800	60	25	30	8	42	27	34	M4	N/A
GW/GY1204DS-HANR-	12	4	10	2.5×1	2600	5800	400/800	60	30	35	8	50	30	40	M4	N/A
GY1208DS-HULR-		8	10	2.5×1	3800	6700	400/800	60	29	44	10	45	30	37	M4	N/A
GW/GY1210AS-HULR-		10	9.6	1.5×1	2850	4950	400/800	60	30	44	12	54	32	41	M5	M6
GW/GY1210BS-HULR-		10	9.6	1.5×2	5100	9900	400/800	60	30	44	12	54	32	41	M5	M6
GW/GY1505DS-HU*R-		5	12.5	2.5×1	5100	10500	600/1200	60	34	40	10	54	34	44	M4	M6
GW/GY1510DS-HU*R-		10	12.5	2.5×1	5100	10500	600/1200	60	34	52	10	57	34	45	M4	M6
GW/GY1510ES-HU*R-	15	10	12.5	2.5×1	9200	21000	600/1200	60	34	52	10	57	34	45	M4	M6
GW/GY1516BS-HULR-		16	12.7	1.5×2	4300	10200	600/1200	60	32	51	10	53	32	42	M4	M6
GW/GY1520BS-HU*R-		20	12.5	1.5×1	5800	13300	600/1200	60	34	59	10	57	34	45	M5	M6
GW/GY2005DS-HU*R-		5	17.5	2.5×1	6200	14700	600/1200/2000	80	40	40	10	60	40	50	M4	M6
GW/GY2010DS-HU*R-		10	16.3	2.5×1	10600	22700	600/1200/2000	80	52	57	12	82	52	67	M6	M6
GW/GY2020DS-HU*R-		20	17.5	2.5×1	6200	14700	600/1200/2000	80	39	78	10	62	39	50	M5	M6
GW/GY2020ES-HU*R-	20	20	17.5	2.5×2	11200	29400	600/1200/2000	80	39	78	10	62	39	50	M6	M6
GW/GY2505DS-HU*R-		5	21.8	2.5×1	6600	18700	1000/2000/2500	110	43	40	10	67	43	55	M5	M6
GW/GY2505ES-HU*R-		5	21.8	2.5×2	11900	37300	1000/2000/2500	110	43	55	10	67	43	55	M5	M6
GW/GY2510ES-HU*R-		10	20.3	2.5×1	27500	76300	1000/2000/2500	110	60	92	15	96	60	78	M8	M6
GW/GY2525DS-HU*R-		25	21.5	2.5×2	9300	22700	1000/2000/2500	110	47	96	12	74	47	60	M6	M6
GY2525ES-HU*R-		25	21.5	2.5×2	16800	45400	1000/2000/2500	110	47	96	12	74	47	60	M6	M6
GY2806ES-HUBR-	28	6	25.6	2.5×2	11250	29400	1000/2000/2500	150	50	65	12	80	50	65	M6	M6
GY3210ES-HUBR-		10	27.2	2.5×2	32800	86700	1000/2000/3000	150	67	92	15	103	67	85	M8	M6
GY3232BS-HUBR-		32	27.8	1.5×2	14600	38900	1000/2000/3000	110	58	86	15	92	58	74	M8	M6
GY3610ES-HUBR-	36	10	31.1	2.5×2	35100	98200	1000/2000/3000	200	70	93	17	110	70	90	M10	M6
GY3620ES-HUBR-		20	31.1	2.5×2	35100	98200	1000/2000/3000	200	70	93	17	110	70	90	M10	M6
GY4010ES-HUBR-	40	10	35.1	2.5×2	37100	105600	2000/3000/4000	200	76	93	17	116	76	96	M10	M6
GY4020ES-HUBR-		20	35.1	2.5×2	37100	105600	2000/3000/4000	200	76	89	17	116	76	96	M10	M6
GY4040BS-HUBR-		40	35.1	1.5×2	23900	66900	2000/3000/4000	200	73	103	17	114	73	93	M10	M6
Model No.	Shaft dimensions								Nut dimensions							
	Shaft diameter (mm)	Lead (mm)	Root diameter (mm)	Circuit & turn	Basic dynamic load rating (N)	Basic static load rating (N)	Overall length	End Length L1	Nut Length A	Mounting Surface Height B	Nut Height C	Total Length Lt	Hole Pitch X	Hole Pitch Y	Bolt Hole M	Oil hole Q
Square Nut Options																
GW/GY1505DS-NKLR-	15	5	12.5	2.5×1	5100	10500	600/1200	60	34	13	18	35	22	26	M4	M6
GW/GY1510DS-NKLR-		10	12.5	2.5×1	5100	10500	600/1200	60	36	15	22	52	32	26	M5	M6
GW/GY2005DS-NKLR-	20	5	17.5	2.5×1	6200	14700	600/1200/2000	80	48	17	22	35	22	35	M6	M6
GW/GY2010DS-NKLR-		10	16.3	2.5×1	10600	22700	600/1200/2000	80	48	18	30	58	35	35	M6	M6
GW/GY2505DS-N	25	5	21.8	2.5×1	6600	18700	1000/2000/2500	110	60	20	25	35	22	40	M8	M6
GW/GY2510ES-NKLR-		10	20.3	2.5×2	27500	76300	1000/2000/2500	110	60	23	30	94	60	40	M8	M6
GY3210ES-NKBR-	32	10	27.2	2.5×2	32800	86700	1000/2000/3000	150	86	29	38	96	60	60	M10	M6

Wiper material N: No wiper B: Brush Z: Lip of end cap serves as a wiper.

For the products marked with "**", it is possible to select L: Lip seal or S: LUBSEAL as Option

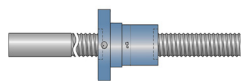
High Lead Nut Type (End-cap method) available on Shaft Diameters and Leads 1632 and 2040. Contact KURODA JENATEC for details.

J-Series Summary (JTs, JTb, JTe, JTm, JTi)

J-Series is a product lineup of precision engineered ball screws, with nut dimensions in standard configurations compatible with the highest quality of international standards/German DIN standards.

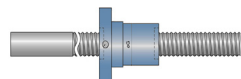
J-Series ballscrews offer a variety of diameters and leads stocked in the USA, available for immediate delivery. Shafts can be cut to length, turned, ground or machined to customer specifications.

Series:



● JTs / JTe / JTb

A range of high performance, metric, pre-loaded Grade 3 or Grade 5 single nut ball screws held in inventory in a variety of shaft diameters and leads.



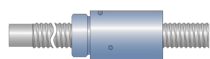
● JTi

A range of high performance, inch lead, pre-loaded, accuracy Grade 3 single nut assemblies held in inventory with unmachined shaft ends and blank soft flanges.



● JTm3

Precision Grade 3 accuracy miniature ball screws with light pre-load, anti-backlash and controlled backlash option.



● JTm7

Miniature Rolled Grade 7 accuracy ball screws with controlled backlash option.



● JTs7

A range of Rolled, metric, pre-loaded Grade 7 ball screws held in inventory in a variety of shaft diameters and leads. Ideal for industrial or transport applications offering high performance at an economical price.

KURODA JENATEC J-Series precision engineered ball screws are manufactured to an international grading system as shown below or to customers' own specific requirements.

Permissible Deviation Accuracy Grade (IT/C)					
Lead Accuracy	C1	C3	C4	C5	C7
Per 300mm	0.0060	0.0120	0.0160	0.0230	0.0520
Per foot	0.0002	0.0005	0.0006	0.0009	0.0020
Total travel deviation					
Lengths ≤ 1000 mm	0.0110	0.0210	0.0290	0.0400	0.0900
>1000 ≤ 2000 mm	0.0180	0.0350	0.0480	0.0650	0.1500
>2000 ≤ 3000 mm	0.0260	0.0500	0.0690	0.0930	0.2100

Note: Accuracy Grade 1 is offered by special arrangement. Accuracy Grade 3 through Grade 5 are normally acceptable for machine tool applications. Transport screws are generally not preloaded.

Specified Lead: Nominal leads may be modified to accommodate specific requirements. For example, a minus compensation will accommodate for temperature or pre-tensioning in the shaft.

Ordering Instructions (How to interpret J-Series Ball Screw model numbers)

Example: JTs3-2005R-1500x1250-AA (Standard Product with End-Machining)

Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	Thread Direction R=Right-hand (Standard) L=Left-hand	Overall Screw Shaft Length (mm)	Thread Length (mm)	S=Shaft only N=Nut only A= Assembly (shaft and nut)	Nut Style (A, B, C, D, E, F)	"SPL" Special with Options (different from Catalog)
JTs	3	20	05	R	1500	X 1250	A	A	
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

Example: JTs3-2505-1000-S (Shaft only)

Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	Thread Direction	Overall Screw Shaft Length (mm)	S=Shaft only N=Nut only A= Assembly (shaft and nut)
JTs	3	20	05	R	1200	S
①	②	③	④	⑤	⑥	⑧

Example: JTs3-2505R-NA(Nut only)

Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	S=Shaft only N=Nut only A= Assembly (shaft and nut)	Nut Style (A, B, C, D, E, F)
JTs	3	20	05	N	A
①	②	③	④	⑧	⑨

① Nut Series

- JTs :Metric Series
- JTb :Metric Series
- JTe :Metric Insert Transfer Nut
- JTm :Miniature Series
- JTi :Imperial (Inch) Series

② Accuracy Grade

- 1 : C1 / IT3 equivalent (Custom)
- 3 : C3 / IT3 equivalent (Standard)
- 5 : C5 / IT5 equivalent (Standard)
- 7 : C7 / IT7 equivalent (Standard)

③ Screw shaft diameter (mm)

- 05-80mm (Standard)
- up to 125mm (Custom)

④ Lead (in Millimeters):

- 01-50
- (.200 inches = 5.08mm)
- (.250 inches = 6.35mm)
- (.500 inches = 12.7mm)

⑤ Thread Direction:

- R : Right hand (Standard)
- L : Left hand

⑥ Overall Length of Screw Shaft

- mm: metric, indicated by a 3 or 4-digit number

⑦ Thread Length

- mm: metric, indicated by a 3 or 4-digit number

⑧ Assembly Type

- A : Assembly (Shaft and Nut)
- S : Shaft only
- N : Nut only

⑨ Nut Style - Interchangeable Nut for all Screw Accuracy Grades

- A : Single Nut Recirculating
- B : Pitch Shift
- C : Nose Thread
- D : Single Nut Insert Transfer
- E : Miniature Insert Transfer (Leads, 1, 2, 2.5mm)
- F : Miniature Nose Thread (Lead 4mm)

⑩ Special with Options

- (Any Specifications different from Catalog)

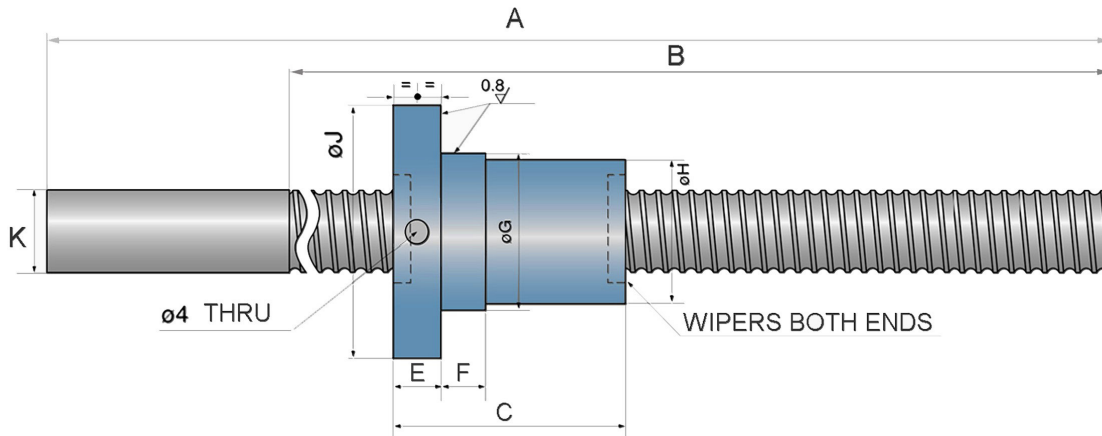
- to be specified on Drawing
- : Special Ball Size
- : Special Preload
- : Special Nut Direction, ie. Flange closest to nut
- : Zero Backlash or Zero Preload

J-Series: JTs/JTb/JTe

Ground (C3) and Whirled (C5) Accuracy

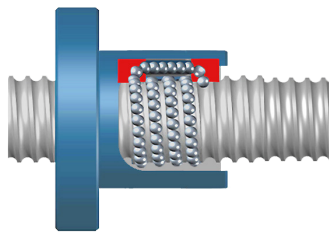
Shaft Diameters
Standard 16-80mm

Quick Delivery of Machined or Unmachined Shafts and Soft-Flange Ballnuts.
Shafts can be cut to length, turned, ground or machined.

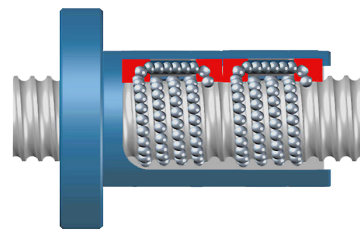


Nut Transfer System Options

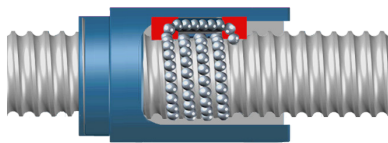
Interchangeable Ball Nut for all Screw Accuracy Grades



Nut A: Single Nut Recirculating



Nut B: PitchShift



*Nut C: Nose Thread

*(Please refer to JTs7 Series for Nut Dimensions)



Nut D: Single Nut Insert Transfer

Ordering Example

Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	Thread Direction R=Right-hand (Standard) L=Left-hand	Overall Screw Shaft Length (mm)	Thread Length (mm)	S=Shaft only N=Nut only A= Assembly (shaft and nut)	Nut Style (A, B, C, D, E, F)	"SPL" Special with Options (different from Catalog)
JTs	3	20	05	R	1500	1250	A	A	
1	2	3	4	5	6	7	8	9	10

J-Series: JTs/JTb/JTe

Applications: Machine Tool, Food Processing Machines, Automation

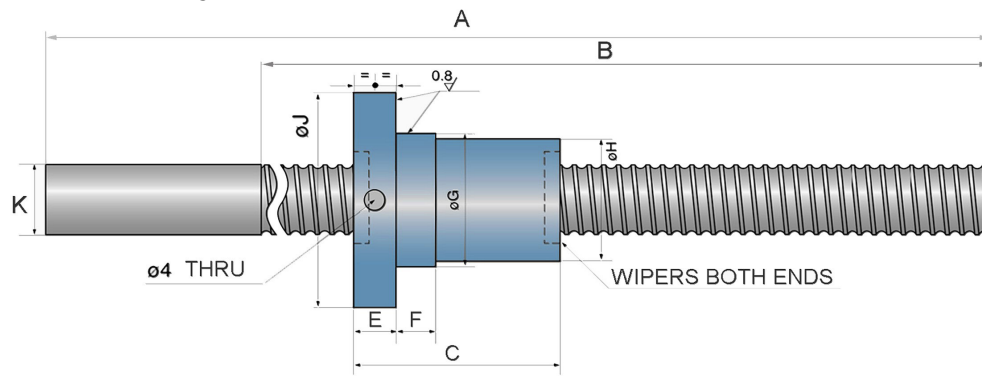
Shaft and Nut Dimensions: **JTs / JTb / JTe Series** (C3 GROUND, C5 WHIRLED Accuracy Grade)

SHAFT DIA K (mm)	LEAD (mm)	Series	Accuracy Grade	Max OAL mm A	THREAD Max mm B	NUT Style	OAL NUT C	E	F	REGISTER DIAMETER G	H	FLANGE DIA J (Min)	Minor DIA	BALL DIA	# Turns	PRE LOAD daN	PRE LOAD TORQUE daNm	LOAD RATING		
																		DYN daN	STATIC daN	
16	5	JTs	3	1000	800	A or C*	40	10	10	27,993...27,980	28	0.2 0.3	56	15	3.000	3	42	0.3	840	1290
16	10	JTs	3	1000	800	A or C*	54	10	10	27,993...27,980	28	0.2 0.3	56	15	3.000	3	43	0.3	860	1350
20	5	JTs	3	1000	800	A or C*	45	10	10	35,991...35,975	36	0.2 0.3	58	19	3.500	4	76	0.6	1520	2650
20	5	JTs	5	1500	1500	A or C*	60	10	10	35,991...35,976	36	0.2 0.4	58	19	3.500	4	76	0.8	1520	2650
20	10	JTs	3	1200	1000	A	46	10	10	35,991...35,975	36	0.2 0.4	58	19	3.500	3	58	0.5	1170	1970
25	5	JTs	3	1200	1000	A or C*	46	10	10	39,991...39,975	40	0.2 0.4	65	24	3.500	4	84	0.8	1680	3290
25	5	JTs	5	2700	2700	A or C*	46	10	10	39,991...39,976	40	0.2 0.4	65	24	3.500	4	84	0.8	1680	3290
25	5	JTb	3	3000	2700	A	49	10	10	37,991...37,977	38	0.2 0.4	65	24	3.500	4	84	0.8	1680	3290
25	10	JTs	3	1200	1000	A or C*	72	10	10	39,991...39,975	40	0.2 0.4	65	24	3.500	2+2	111	1.1	1100	2070
25	10	JTs	5	2700	2700	A or C*	72	10	10	39,991...39,975	40	0.2 0.4	65	24	3.500	2+2	111	1.1	1100	2070
28	6	JTs	3	1200	1000	B	92	12	10	43,991...43,975	44	0.2 0.4	68	27	3.500	4+4	220	2.5	2200	4800
32	5	JTs	3	1700	1500	B or C*	83	12	10	49,991...49,975	50	0.2 0.4	80	31	3.500	4+4	227	2.9	2260	5370
32	5	JTs	5	2700	2700	B or C*	83	12	10	49,991...49,975	50	0.2 0.4	80	31	3.500	4+4	227	2.9	2260	5370
32	5	JTb	3	3000	2700	A	49	12	10	47,991...47,975	48	0.2 0.4	80	31	3.500	4	93	1.2	1870	4250
32	6	JTs	3	1700	1500	B	92	12	10	49,991...49,975	50	0.2 0.4	90	31	4.500	4+4	320	4.1	3200	6900
32	8	JTs	3	1700	1500	B	106	12	12	49,991...49,975	50	0.2 0.4	90	31	4.500	4+4	320	4.1	3200	6900
32	10	JTs	3	1700	1500	B or C*	117	12	16	49,991...49,975	50	0.2 0.4	90	31	3.500	4+4	225	2.9	2260	5370
32	10	JTs-H	3	3000	2700	B	137	12	16	54,990...54,971	55	0.2 0.4	93	30	6.000	4+4	454	5.8	4540	8710
32	10	JTs	5	2700	2700	B or C*	97	12	16	49,991...49,975	50	0.2 0.4	90	31	3.500	3+3	176	2.2	1760	4010
32	12	JTs	3	1700	1500	B	117	12	16	49,991...49,975	50	0.2 0.4	90	31	3.500	4+4	225	2.9	2260	5370
32	12	JTe	3	1700	1500	D	92	12	16	49,991...49,975	50	0.2 0.4	90	31	3.500	4	92	1.2	1850	4210
40	5	JTs	3, 5	2200	2000	B or C*	86	15	10	54,990...54,971	55	0.2 0.4	93	39	3.500	4+4	249	4	2490	6770
40	6	JTe	3, 5	2200	2000	D	74	14	10	55,990...55,971	56	0.2 0.4	93	39	4.500	6	200	3.3	4008	10120
40	8	JTe	3	2200	2000	D	94	14	12	55,990...55,971	56	0.2 0.4	93	39	4.500	6	200	3.3	4008	10110
40	10	JTs	3	2200	2000	B or C*	138	15	16	62,990...62,971	63	0.2 0.4	100	38	6.000	4+4	527	8.4	5290	11630
40	10	JTb	3, 5	3000	2700	A	79	15	16	62,990...62,971	63	0.2 0.4	95	38	6.000	4	217	3.5	4340	9180
40	12	JTs	3	2200	2000	B	158	14	16	62,990...62,971	63	0.2 0.4	100	38	6.000	4+4	530	8.5	5300	11600
40	16	JTs	3	2200	2000	B	174	14	20	62,990...62,971	63	0.2 0.4	100	38	6.000	4+4	530	8.5	5300	11600
40	20	JTs	3	2200	2000	B or C*	124	14	20	62,990...62,971	63	0.2 0.4	100	38	6.000	2+2	287	4.6	2870	5760
40	40	JTs	5	3000	2700	B	126	20	20	62,990...62,971	63	0.2 0.4	96	38	6.000	2	112	1.8	2250	4390
50	5	JTs	3	2700	2500	B	88	15	16	74,990...74,971	75	0.2 0.4	115	49	3.500	4+4	273	5.5	2730	8570
50	5	JTs	5	2700	2700	B	88	15	16	74,990...74,971	75	0.2 0.4	115	49	3.500	4+4	273	5.5	2730	8570
50	8	JTs	3	2700	2500	B	132	16	12	71,990...71,971	72	0.2 0.4	115	48	6.000	4+4	580	11.6	5800	14600
50	10	JTs	3	2700	2500	B or C*	143	18	16	74,990...74,971	75	0.2 0.4	115	48	7.144	4+4	738	14.8	7400	17400
50	10	JTs	5	2700	2700	B or C*	143	18	16	74,990...74,971	75	0.2 0.4	115	48	7.144	4+4	738	14.8	7400	17400
50	10	JTe	3	2700	2500	D	108	16	16	71,990...71,971	72	0.2 0.4	115	48	7.144	6	430	8.6	8600	20550
50	12	JTs	3	2700	2500	B or C*	164	18	16	74,990...74,971	75	0.2 0.4	115	48	7.144	4+4	738	14.7	7400	17350
50	12	JTs	5	2700	2700	B or C*	164	18	16	74,990...74,971	75	0.2 0.4	115	48	7.144	4+4	738	14.7	7400	17350
50	20	JTs	3	2700	2500	B	170	16	26	84,988...84,966	85	0.2 0.4	125	48	9.000	3+3	760	15.2	7600	15600
50	20	JTs	5	3200	3200	B	170	16	26	84,988...84,966	85	0.2 0.4	125	48	9.000	3+3	760	15.2	7600	15600
63	5	JTe	3, 5	3500	3300	D	78	18	10	89,988...89,966	90	0.2 0.4	130	62	3.500	8	224	5.7	4490	17320
63	10	JTs	3	3500	3300	B or C*	164	18	16	89,988...89,966	90	0.2 0.4	139	61	7.144	5+5	973	24.6	9730	26950
63	10	JTb	3	3500	3300	A or C*	102	18	16	84,988...84,966	85	0.2 0.4	125	61	7.144	5	400	10.0	8000	21300
63	10	JTe	3.5	3500	3300	D	108	18	16	89,988...89,966	90	0.2 0.4	139	61	7.144	6	470	11.8	9400	25510
63	12	JTs	3, 5	3500	3300	B or C*	170	20	16	94,990...94,966	95	0.2 0.4	144	61	9.000	4+4	1120	28.2	11200	27500
63	12	JTe	3	3500	3300	D	140	20	16	89,988...89,966	90	0.2 0.4	144	61	9.000	6	469	11.8	13050	32580
80	10	JTs	3	3500	3300	B	148	20	16	104,988...104,966	105	0.2 0.4	147	76	7.144	4+4	905	29.0	9050	28200
80	12	JTs	5	3700	3700	B	170	20	20	104,988...104,966	105	0.2 0.4	147	76	7.144	4+4	903	29.0	9030	28210
80	20	JTs	3	5000	4800	B	172	25	25	124,986...124,961	125	0.2 0.4	167	76	12.700	3+3	1500	48.0	15000	35200
80	20	JTs	5	4800	4800	B	172	25	25	124,986...124,961	125	0.2 0.4	167	76	12.700	3+3	1500	48.0	15000	35200

*C - Refer to JTs7 Specifications for Nose Thread Nut dimensions

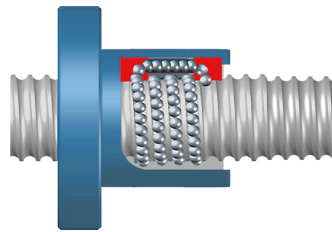
JTs-H = High Load

Additional Diameters (up to Ø125 mm) and Leads as Custom

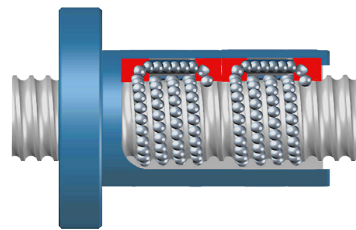


Nut Transfer System Options

Interchangeable Ball Nut for all Screw Accuracy Grades



Nut A: Single Nut Recirculating



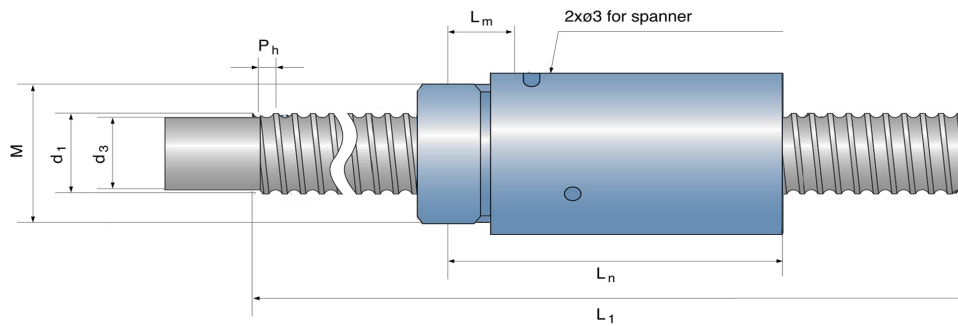
Nut B: PitchShift

Inch Series converted to Metric Diameters

SHAFT Diameter K (mm)	LEAD (mm)	Series	Accuracy Grade	Max OAL mm A	THREAD Max mm B	NUT STYLE	OAL NUT C	E	F	REGISTER DIAMETER G	H	FLANGE DIAM Ø J (Min)	Minor DIAM Ø	BALL DIAM Ø	# OF TURNS	PRE LOAD daN	PRE LOAD TORQUE daNcm	LOAD RATING	
																		DYN daN	STATIC daN
16	5.08	JTi	3	700	600	A	40	10	10	27,993...27,980	28 ^{0.2 0.3}	54	15	3.0	3	42	0.3	840	1290
20	5.08	JTi	3	850	750	A	42	10	10	35,991...35,975	36 ^{0.2 0.3}	60	19	3.5	3	60	0.5	1200	1990
25	5.08	JTi	3	1350	1200	A	42	10	10	39,991...39,975	40 ^{0.2 0.3}	73	24	3.5	3	65	0.6	1310	2470
25	6.35	JTi	3	1350	1200	A	46	10	10	39,991...39,975	40 ^{0.2 0.3}	73	24	3.5	3	65	0.6	1310	2470
32	5.08	JTi	3	2000	1850	B	73	12	10	49,991...49,975	50 ^{0.2 0.3}	80	31	3.5	3+3	177	2.3	1770	4030
32	6.35	JTi	3	1350	1200	B	81	14	16	49,991...49,975	50 ^{0.2 0.3}	80	31	4.5	3+3	250	3.2	2500	5170
32	12.70	JTi	3	2200	2000	B	118	12	16	49,991...49,975	50 ^{0.2 0.4}	80	31	4.5	3+3	248	3.2	2480	5130
38	5.08	JTi	3	2000	1850	B	73	12	10	55,990...55,971	56 ^{0.2 0.3}	87	39	3.5	4+4	249	4	2490	6770
38	6.35	JTi	3	2000	1850	B	95	14	16	62,990...62,971	56 ^{0.2 0.3}	87	39	4.5	3+3	350	5.5	3500	8550
50	5.08	JTi	3	2650	2450	B	88	16	16	74,990...74,971	75 ^{0.2 0.3}	106	49	3.5	4+4	273	5.5	2730	8570
50	6.35	JTi	3	2650	2450	B	97	16	16	74,990...74,971	75 ^{0.2 0.3}	110	49	4.5	3+3	386	7.7	3860	10870
57	12.70	JTi	3	3200	3000	B	173	18	16	91,988...91,966	92 ^{0.2 0.3}	132	55	9.0	4+4	1032	23.5	10320	23620

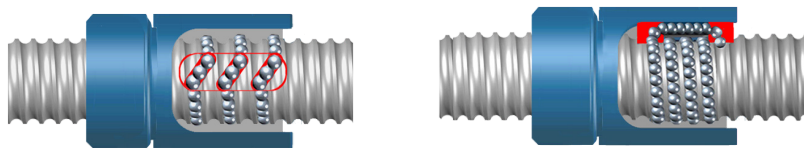
Ordering Example

Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	Thread Direction R=Right-hand (Standard) L=Left-hand	Overall Screw Shaft Length (mm)	Thread Length (mm)	S=Shaft only N=Nut only A= Assembly (shaft and nut)	Nut Style (A, B, C, D, E, F)	"SPL" Special with Options (different from Catalog)			
JTi	3	-	20	5.08	R	-	850	X	740	A	A	
1	2		3	4	5		6		7	8	9	10



Nut Transfer System Options

Interchangeable Ball Nut for all Screw Accuracy Grades



Nut E: Miniature Insert Transfer
(Leads 1, 2, 2.5mm)

Nut F: Miniature Nose Thread
(Lead 4mm)

Shaft Diameter (mm)	LEAD (mm)	Series	Accuracy Grade	NUT STYLE	Max length (mm)	L ₁ (mm)	L _n (mm)	L _m (mm)	D ₁ (mm)	d ₁ (mm)	d ₃ (mm)	M	WIPERS	AXIAL PLAY MAX	LOAD RATING	
															DYN daN	STATIC daN
06	010	JTm	3	E	150	120	21	6	14.5	5.9	5.3	M12X1	NO	x	70	100
08	010	JTm	3	E	330	300	26	8	16.5	8	7.4	M14X1	NO	x	120	200
08	020	JTm	3	E	330	300	27	8	16.5	8	6.9	M14X1	NO	x	190	240
08	025	JTm	3	E	330	300	32	8	16.5	8	6.9	M14X1	NO	x	190	240
10	020	JTm	3	E	400	380	27	8	20.5	9.8	8.7	M17X1	NO	x	210	300
10	025	JTm	3	E	400	380	32	8	20.5	9.8	8.2	M17X1	NO	x	310	400
12	020	JTm	3	E	400	380	29	10	22	11.8	10.7	M18X1	NO	x	240	380
12	025	JTm	3	F	400	380	36	10	26	11.8	10.2	M22X1	YES	x	360	530
12	040	JTm	3	F	400	380	36	10	26	11.8	10.2	M22X1	YES	x	360	530
12	050	JTm	3	E	400	380	40	10	26	11.5	9.8	M22X1	YES	x	380	560
14	020	JTm	3	E	780	750	32	10	26	13.8	12.6	M22X1	YES	x	250	450
14	040	JTm	3	F	780	750	36	10	26	13.8	12.1	M22X1	YES	x	400	650
16	020	JTm	3	E	600	500	29	10	26	15.6	14.5	M22X1	NO	x	270	510
16	025	JTm	3	E	600	500	36	10	26	15.6	14	M22X1	YES	x	430	750
16	040	JTm	3	F	600	500	36	10	28	15.4	13.4	M25X1.5	YES	x	680	1140

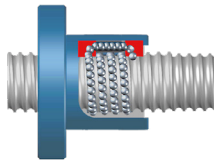
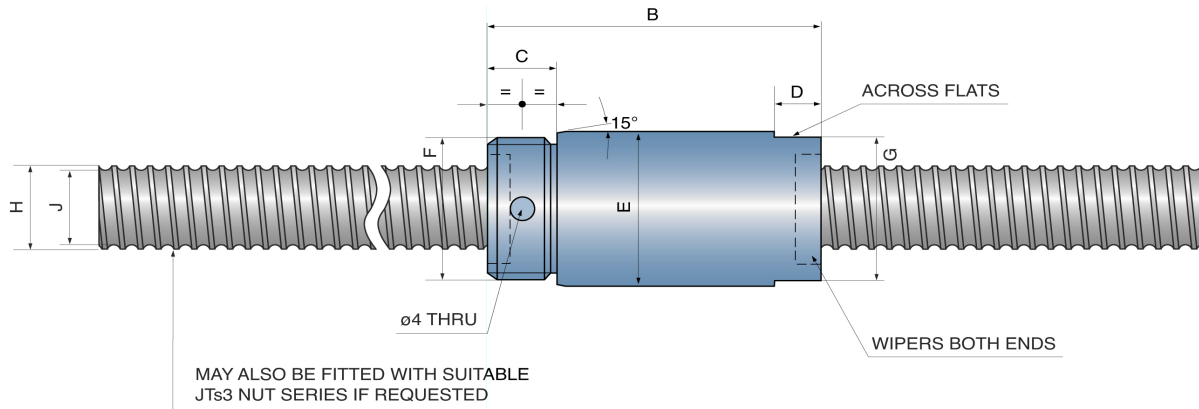
Ordering Example

Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	Thread Direction R=Right-hand (Standard) L=Left-hand	Overall Screw Shaft Length (mm)	Thread Length (mm)	S=Shaft only N=Nut only A= Assembly (shaft and nut)	Nut Style (A, B, C, D, E, F)	"SPL" Special with Options (different from Catalog)
JTm	3	08	010	R	330	300	A	E	
1	2	3	4	5	6	7	8	9	10

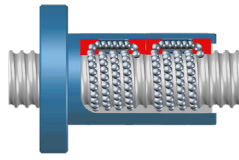
J-Series: JTs7 Metric Rolled

Rolled Screw, C7 Accuracy

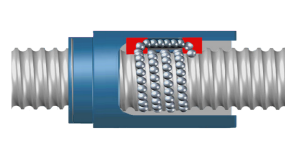
Shaft Diameters Standard 16-63mm



*Nut A: Single Nut Recirculating



*Nut B: PitchShift



Nut C: Nose Thread



*Nut D: Single Nut Insert Transfer

SHAFT DIAM Ø H (mm)	LEAD (mm)	Series	Accuracy Grade	NUT STYLE	Max SCREW OAL (mm)	Max Nut OAL mm B	C (mm)	D (mm)	NUT BODY DIAM Ø (mm)	F	G	H Minor DIAM Ø (mm)	J (mm)	# TURNS	AXIAL PLAY max	LOAD RATING	
																DYN daN	STATIC daN
16	05	JTs7	7	C or A*	3600	44	12	8	30	M26x1,5	28	15	12.90	3	0.05	840	1290
16	05	JTs7-LH	7	C	3600	44	12	8	30	M26x1,5	28	15	12.90	3	0.05	840	1290
16	10	JTs7	7	C or A*	3000	47	12	8	30	M26x1,5	28	15	12.90	2	0.05	600	900
20	05	JTs7	7	C or A*	3500	52	14	8	40	M35x1,5	36	19	16.40	4	0.06	1520	2650
25	05	JTs7	7	C or A*	3600	57	19	8	45	M40x1,5	40	24	21.40	4	0.06	1680	3290
25	05	JTs7-LH	7	C	3600	57	19	8	45	M40x1,5	40	24	21.40	4	0.06	1680	3290
25	10	JTs7	7	C or A*	3600	79	19	8	45	M40x1,5	40	24	21.40	4	0.06	2300	4100
32	05	JTs7	7	C or B*	3600	57	19	8	55	M48x1,5	50	31	28.40	4	0.06	1870	4250
32	05	JTs7-LH	7	C	3700	57	19	8	55	M48x1,5	50	31	28.40	4	0.06	1870	4250
32	10	JTs7	7	C or B*	3600	85	19	8	60	M55x1,5	56	30	25.10	4	0.08	3740	6880
40	05	JTs7	7	C or B*	3600	56	19	10	60	M55x1,5	56	39	36.40	4	0.06	2050	5340
40	10	JTs7	7	C or B*	3600	90	24	10	65	M60x1,5	60	38	33.80	4	0.08	4340	9180
40	20	JTs7	7	C or B*	3600	86	24	10	65	M60x1,5	60	38	33.80	4	0.08	4280	9090
50	05	JTs7	7	C or B*	3600	76	30	12	77	M72x1,5	72	48	42.60	5	0.10	5790	14400
50	10	JTs7	7	C, *B, *D	3600	110	30	12	77	M72x1,5	72	48	42.60	5	0.10	5790	14400
50	12	JTs7	7	C or B*	3600	132	30	12	85	M72x1,5	80	48	40.60	6	0.10	8600	20500
63	10	JTs7	7	C, *B, *D	3600	110	30	12	90	M85x2	84	61	55.60	5	0.10	8050	21300
63	12	JTs7	7	C, *B, *D	3600	133	30	12	95	M85x2	90	61	53.70	6	0.10	9390	25500

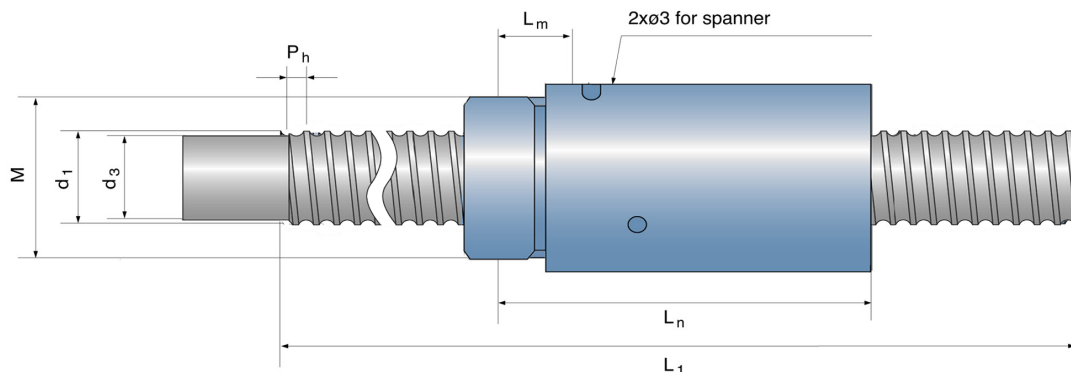
*A, *B, *D - Interchangeable Ball Nut for all Screw Accuracies

*Refer to JTs3 Specifications for Nut dimensions

LH refers to LEFT-HAND leads

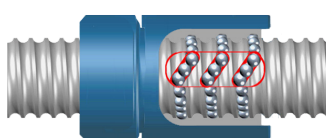
Ordering Example

Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	Thread Direction R=Right-hand (Standard) L=Left-hand	Overall Screw Shaft Length (mm)	Thread Length (mm)	S=Shaft only N=Nut only A= Assembly (shaft and nut)	Nut Style (A, B, C, D, E, F)	"SPL" Special with Options (different from Catalog)			
JTs	7	-	20	05	R	-	3600	X	3300	A	C	
1	2	3	4	5	6	7	8	9	10			

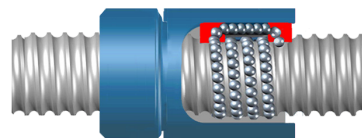


Nut Transfer System Options

Interchangeable Ball Nut for all Screw Accuracy Grades



Nut E: Miniature Insert Transfer
(Leads 1, 2, 2.5mm)



Nut F: Miniature Nose Thread
(Lead 4mm)

Shaft Diameter (mm)	LEAD (mm)	Series	Accuracy Grade	NUT STYLE	Max length (mm)	L ₁ (mm)	L _n (mm)	L _m (mm)	D ₁ (mm)	d ₁ (mm)	d ₃ (mm)	M	WIPERS	AXIAL PLAY MAX	LOAD RATING	
															DYN daN	STATIC daN
08	020	JTm	7	E	330	300	27	8	16.5	8	6.9	M14X1	NO	0.01	170	220
10	020	JTm	7	E	400	380	27	8	20.5	9.8	8.7	M17X1	NO	0.01	190	270
10	025	JTm	7	E	400	380	32	8	20.5	9.8	8.2	M17X1	NO	0.01	280	360
12	050	JTm	7	E	400	380	40	10	26	11.5	9.8	M22X1	NO	0.01	340	500
14	040	JTm	7	F	780	750	36	10	26	13.8	12.1	M22X1	NO	0.01	360	590
16	020	JTm	7	E	600	500	29	10	26	15.6	14.5	M22X1	NO	0.01	240	460
16	025	JTm	7	E	600	500	36	10	26	15.6	14	M22X1	NO	0.01	390	680

Ordering Example

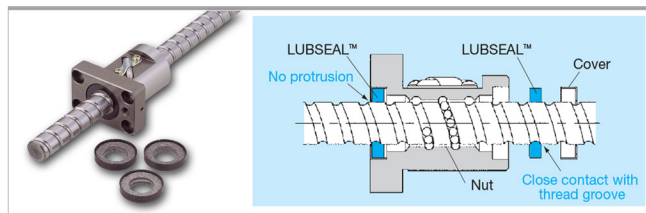
Series	Accuracy Grade	Screw Shaft Dia (mm) 2-digit #	Shaft Lead (mm) 2 or 3 digit #	Thread Direction R=Right-hand (Standard) L=Left-hand	Overall Screw Shaft Length (mm)	Thread Length (mm)	S=Shaft only N=Nut only A= Assembly (shaft and nut)	Nut Style (A, B, C, D, E, F)	"SPL" Special with Options (different from Catalog)
JTm	7	08	020	R	330	X 300	A	E	
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

Lubrication Unit for Ball Screw LUBSEAL™

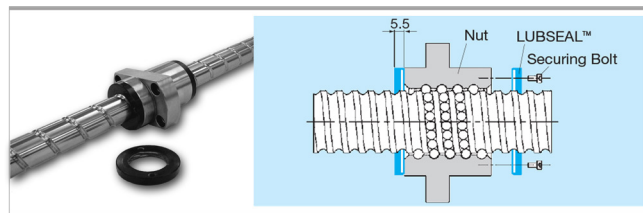
Applications: Semiconductor/Liquid Crystal Manufacturing Machines, Detection Machines, Food Machines, Medical Equipment, Machine Tools, Automotive Facilities

LUBSEAL™ is a lubrication unit which contacts the ball rolling portion of the screw shaft groove and supplies an appropriate amount of lubricant. It can fit into both ends of ball screw nut and become compact in size.

Installation Structure for G-Series



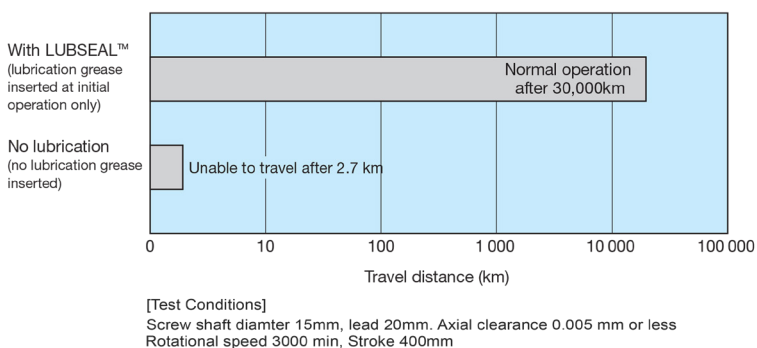
Installation Structure for F-Series



LUBSEAL™ Features:

- Simply assembled in the standard nut dimension
- Designed to maximize ball screw performance without sacrificing shaft length
- Clean and environmentally friendly
- Maintenance free operation with no loss in range of motion
- Adds prolonged life to the screw

LUBSEAL™ Performance:



Compatible Series and Sizes

Shaft Diaø	Lead	FE/FG	AD/AH/AK	GE/GG	GP	GY/GW
10	10	●				
12	5		●			
	10	●	●			
	20	●				
15	5	●	●	●	●	●
	10	●	●	●		●
	15			●		
	20	●	●	●		●
20	5	●	●	●	●	●
	10	●	●	●		●
	20	●	●	●		●
25	5	●		●		●
	10	●		●		●
	20			●		
	25	●		●		●

Note: LUBSEAL cannot be fitted to the GY/GW Square Nut

⚠ Usage Precautions

(Note 1) LUBSEAL contains oil with same composition as the grease inside the nut. Please consult KURODA JENATEC for information on other types of grease.

(Note 2) For LUBSEAL fitting on ball screws other than the above series and surface treated ball screws, contact KURODA JENATEC.

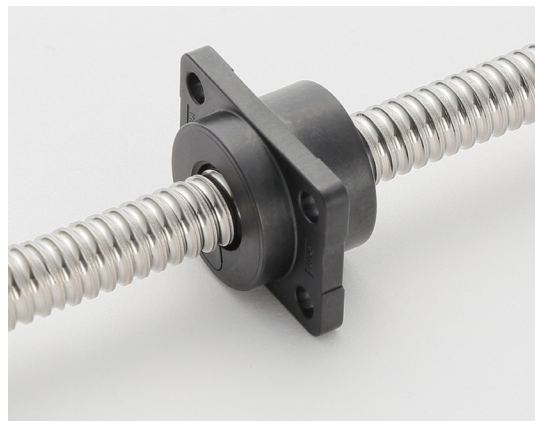
(Note 3) The maximum operating temperature is 50°C. For usage in environments 50°C or higher, contact KURODA JENATEC.

RW Series: Resin Nut Ball Screw

The Resin Nut Ball Screw utilizes a superior engineering plastic (PPS resin) which has outstanding mechanical properties and is resistance to chemicals for the nut part. Stainless steel is used for the screw shaft and the internal circulating balls.

Due to the merits of the ball screw characteristic transmission efficiency, the whining noise heard in lead screws will not occur, resulting in a quiet and smooth operation over all strokes, from low speeds to high speeds.

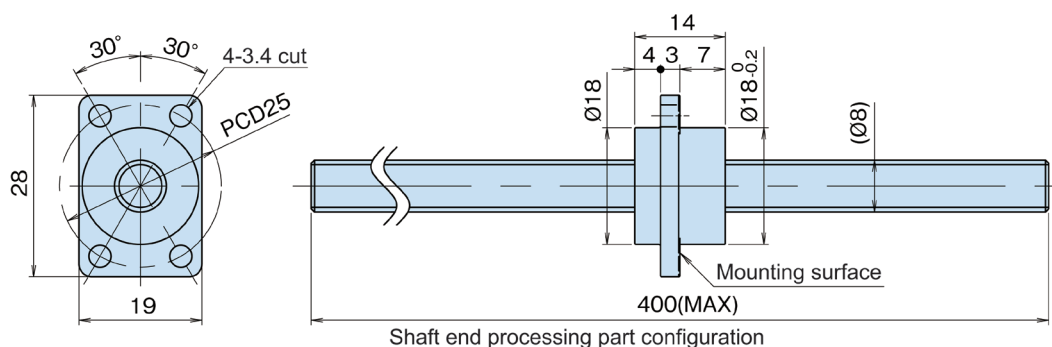
In addition, due to the utilization of components made from resin, the Resin Nut Ball Screw is more economical and has shorter delivery times than the previous steel-made ball screws, which optimizes solutions for equipment used in light loading applications.



Ordering Number: RW Series

RW	08 (Shaft dia.)	02 (Lead)	P	S	-	B	P	N	R	-	Overall length of screw shaft	×	Thread length	-	C7	M
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Configuration Dimensions: RW Series



Specifications and Performance: RW Series

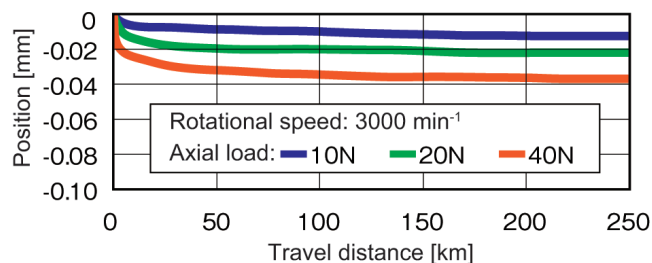
● Performance

Travel lifetime: 250 km or more (1.25 million or more return trips at a stroke of 100 mm)
Permissible axial load: 40 N
Permissible rotational speed: 3000 min⁻¹
Initial axial clearance: 0.030 mm or less

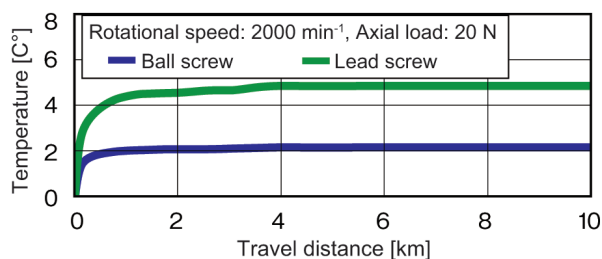
● Materials

Screw shaft: Stainless steel (SUS304)
Nut: Poly Phenylene Sulfide (PPS)
Ball: Stainless steel (SUS440C)
* The standard grease used is Alvania Grease S2.

Test conditions: Shaft diameter: Ø8, lead: 2 mm, stroke: 100 mm, and loading direction: vertical



Outstanding abrasion resistance:
Long-period stable positioning accuracy



Outstanding temperature characteristics: Low heat generation ability that can only be realized by ball screws

KURODA JENATEC, Inc.

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