Standard precision ball screws

Features

- GP, GG, GE, GK series: Various screw shaft diameters, leads, and accuracy grades available for your selection
- An optimal size can be selected from a variety of screw shaft diameters, leads, and accuracy grades eliminating unnecessary compromise in product selection.

• FG, FE series: High rotational speed

- Delivers higher rotational speed up to 5,000 min⁻¹ through our unique recirculation system.
- In consideration of the load rating, the products have higher specifications than previous KURODA products.

• DP series: The industry's smallest compact nut class

- Utilizes a deflector recirculation system which realizes minimal nut dimensions.
- With leads from 1 mm, the DP series is suitable for machines and equipment that requires fine pitch forwarding and precise positioning.

HG series: Optimal for high-speed conveyance achieved by larger leads

- · Larger leads enable a higher feed rate at a low rotational speed.
- With the adoption of multi-start thread, we have achieved a more compact nut with an improved load rating.

□ Summary of the specifications

Screw shaft diameter	ø6 to ø32 mm
Lead	1 to 60 mm
Accuracy grade	C3 grade: GP, DP C5 grade: FG, GG, HG C7 grade: FE, GE
Axial clearance	Refer to each product specification table.
Shaft end type	One shaft end finished (C3 grade: GP, DP) Unfinished shaft ends
Product line	Standard product

□ Options available

Series	Additional shaft- end machining	Surface treatment	Change of grease type	Change of nut direction	LUBSEAL
GP, DP FG, GG, HG FE, GE	0	0	0	0	See the notes below.

- The GP and DP series have one shaft end finished.
- The surface treatment is anticorrosive black coating (coating thickness: 1 to 2 μ m).
- · Contact KURODA regarding the inclusion of grease types other than the standard grease.
- Please refer to the LUBSEAL series and size reference chart or the option specifications on each product's page to determine whether or not LUBSEAL is supported.

□ Model numbers of each series

	Series	Shaft diameter	Lead	Number of circuits	Combina- tion		Flange type	Ball recir- culation system	Wiper material	Thread direction		Overall screw shaft length	Shaft end type	Thread length		Accuracy grade	Axial clearance
Example	FG	15	10	Р	S	-	Н	Р	N	R	-	0900	Х	0840	-	C5	F
model	DP	6 to 14	1 to 4	J			Н	D	N			To be	B, X	To be		C3	F, S
numbers	FG	10 to 25	E to DE	Р				Р	NI.			shown	^ V	shown		C5	F
	FE	10 10 25	5 10 25	P			H	P	N			with a	A, X	with a		C7	M
	GG	8 to 32	2 to 25	See	S	_		See		R	-	4-digit number	A. X	4-digit number	-	C5	F
	GE	0 10 32	2 10 25	specifi-			See specifi-	See specifi- cations.	See			in metric	A, A	in metric		C7	M
	GP	0 += 00	2 to 5	cations.			cations.	Α	specifi- cations.			units	B, X	units		C3	F, S
	HG	8 to 20	12 to 60	Q				Q				(mm)	A, X	(mm)		C5	F, H

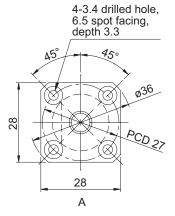
For more details, refer to the specifications and data for each size.

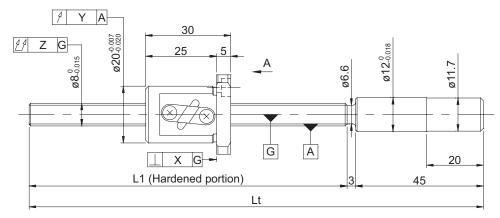
□ Screw shaft diameter and lead combinations

			Lead (mm)													
		1	2	3	4	5	10	12	15	16	20	25	30	32	40	60
	6	0														
	8	0	• 0		•											
	10		• 0		•		• •									
Screw	12		• 0	0	•	•	• •				• •					
shaft	14				0											
diam- eter	15		•		•	• +	• +		•		• □ ♦					
(mm)	16									•						
	20				•	•	• +				• □ ♦					
	25					• +	• +				•	• +				
	32					•	•									

- •: GP, GG, GE series
- o: DP series (small lead)
- □: HG series (large lead)
- ♦: FG, FE series (high rotational speed)

Shaft diameter (mm) - Lead (mm)		8 - 2			
Number of circuits /	2.5 turns 1 circuit /				
Thread direction		Right-hand	I		
Ball diameter (mm)		1.5875			
Root diameter (mm)		6.6			
Series	GG GE				
Basic dynamic load rating C (N)	1950				
Basic static load rating C0 (N)	2600				
Accuracy grade /	C5 / S	C5 / F	C7 / M		
Axial clearance symbol	0575	C5 / F	C/ / IVI		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	Up to 2.1	Up to 0.5			
Spacer ball	None				
Recirculation system	Tube method				
Wiper	None				
Lubricant	Alva	nia Grease	e S2		





Model No.	Screw shaft length		Maximum stroke	Lead accuracy			
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E _c	e _c	e ₃₀₀	
GG0802DS-AANR-0215A	407	215	107	0.023	0.018	0.018	
GE0802DS-AANR-0215A	167		137	0.05/300			

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

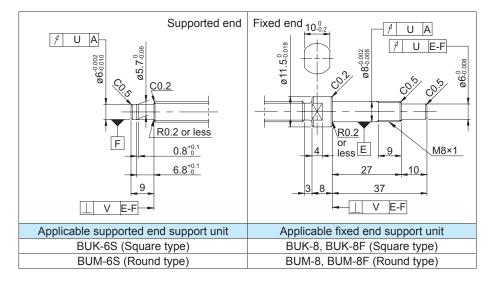
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mbox{GG0802DS-AANR-0215A} \rightarrow \mbox{GG0802DS-AANR-} \\ \mbox{$\frac{0215}{$}$X} \\ \mbox{$\frac{0158}{$}$-C5F} \\ \mbox{$\frac{1}{$}$} \\ \mbox{Thread length}$

→ Overall screw shaft length

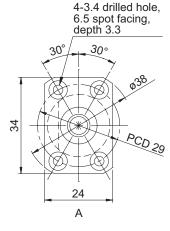


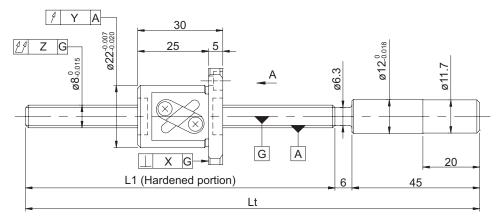
Optional specifications

	Accur	acy of eac	h part	Preload tor	que (N·cm)	Mass	
X Y Z U				V	Without clearance	With clearance	(kg)
0.010	0.012	0.065	0.010	0.005	Up to 2.1	Up to 0.5	0.13
0.014	0.020	0.100					0.13

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		8 - 4			
Number of circuits /	2.5 turns 1 circuit /				
Thread direction	Right-hand				
Ball diameter (mm)		2.000			
Root diameter (mm)		6.3			
Series	GG GE				
Basic dynamic load rating C (N)	2350				
Basic static load rating C0 (N)	3300				
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	0.2 to 2.9	Up to 0.5			
Spacer ball	None				
Recirculation system	Tube method				
Wiper	Felt wiper				
Lubricant	Alva	ınia Grease	e S2		





Model No.	Screw sh	aft length	Maximum stroke	Lead accuracy			
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀	
GG0804DS-BAFR-0215A	164	215	134	0.000	0.018	0.018	
GG0804DS-BAFR-0340A	289	340	259	0.023		0.018	
GE0804DS-BAFR-0215A	164	215	134	0.05/300			
GE0804DS-BAFR-0340A	289	340	259	0.05/300			

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

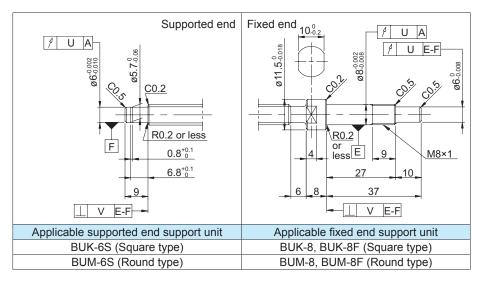
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

GG0804DS-BAFR-0340A → GG0804DS-BAFR-0340X0280-C5F

→Thread length →Overall screw shaft length



Optional specifications

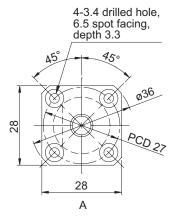
	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
Χ	Y	Z	U	V	Without clearance	With clearance	(kg)
0.010	0.012	0.065	0.010	0.005	0.2 to 2.9	Lin to 0 F	0.18
0.010	0.012	0.075	0.010		0.2 10 2.9	Up to 0.5	0.22
0.014	0.020	0.100					0.18
0.014	0.020	0.100					0.22

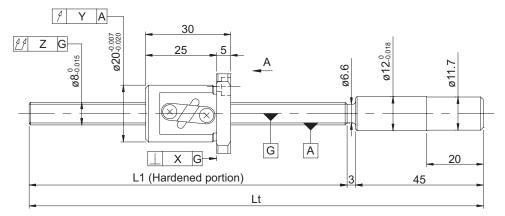
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

GG series (Accuracy grade C5) / GE series (Accuracy grade C7)

Ball Screw Specifications

Chaft diameter (mm) Load (mm)		0 0			
Shaft diameter (mm) - Lead (mm)		8 - 2			
Number of circuits /	2.5 turns 1 circuit /				
Thread direction	Right-hand				
Ball diameter (mm)		1.5875			
Root diameter (mm)		6.6			
Series	GG GE				
Basic dynamic load rating C (N)	1950				
Basic static load rating C0 (N)	2600				
Accuracy grade /	C5 / S	C5 / F	C7 / M		
Axial clearance symbol	6575	Co/F	C/ / IVI		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	Up to 2.1	Up to 0.5			
Spacer ball	None				
Recirculation system	Tube method				
Wiper	None				
Lubricant	Alva	nia Greas	e S2		





Model No.	Screw shaft length		Maximum stroke	Lead accuracy			
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E _c	e _c	e ₃₀₀	
GG0802DS-AANR-0215A	167	215	107	0.023	0.018	0.018	
GE0802DS-AANR-0215A	107		137	0.05/300			

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

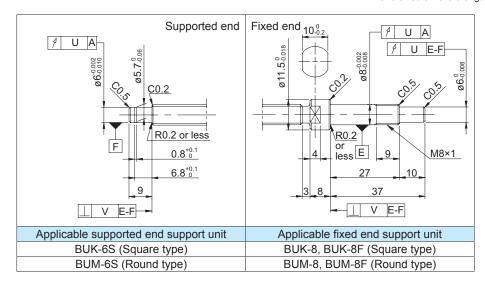
Shaft end finish type

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends GG0802DS-AANR-0215A → GG0802DS-AANR-0215X0158-C5F

Screw shaft diameter ø8, Lead 2

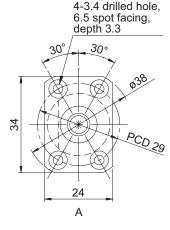


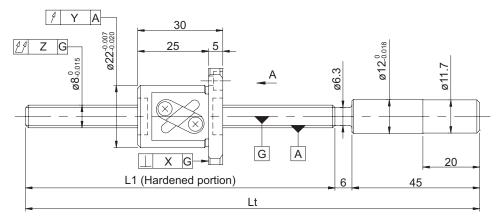
Optional specifications

	Accur	acy of eac	h part	Preload tor	Mass		
Χ	Υ	Z	U	V	Without clearance	(kg)	
0.010	0.012	0.065	0.010	0.005	Up to 2.1	Up to 0.5	0.13
0.014	0.020	0.100					0.13

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)	8 - 4			
Number of circuits /	2.5	turns 1 circ	cuit /	
Thread direction		Right-hand	I	
Ball diameter (mm)		2.000		
Root diameter (mm)		6.3		
Series	G	G	GE	
Basic dynamic load rating C (N)	2350			
Basic static load rating C0 (N)	3300			
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	0.2 to 2.9	Up to 0.5		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	Felt wiper			
Lubricant	Alva	ınia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG0804DS-BAFR-0215A	164	215	134	0.000	0.018	0.018
GG0804DS-BAFR-0340A	289	340	259	0.023		0.018
GE0804DS-BAFR-0215A	164	215	134	0.05/200		
GE0804DS-BAFR-0340A	289	340	259	0.05/300	0.05/300	

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

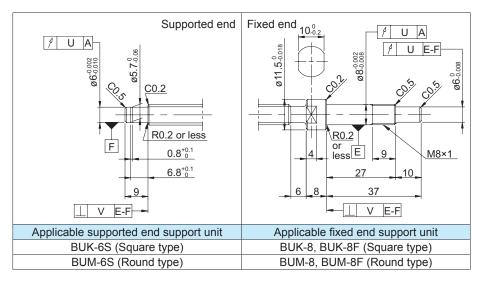
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Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends

 $GG0804DS-BAFR-0340A \rightarrow GG0804DS-BAFR-0340X0280-C5F$

→Thread length →Overall screw shaft length



Optional specifications

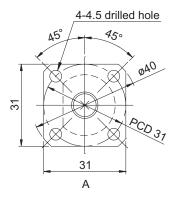
	Accur	acy of eac	h part	Preload tor	Mass		
Х	Υ	Z	U V		Without clearance	With clearance	(kg)
0.010	0.012 0.065 0.010	0.005	0.040.00	Lin to O.F.	0.18		
0.010		0.075	0.010	0.010 0.005	0.2 to 2.9	Up to 0.5	0.22
0.014	0.000	0.400					0.18
0.014	0.020	0.100					0.22

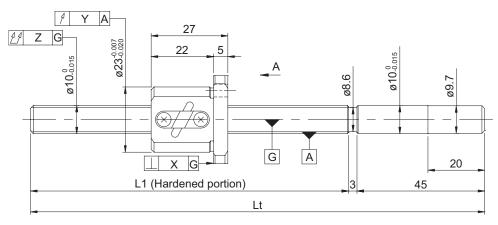
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

GG series (Accuracy grade C5) / GE series (Accuracy grade C7)

Ball Screw Specifications

Shaft diameter (mm) - Lead (mm)	10 - 2			
Number of circuits /	2.5	turns 1 circ	cuit /	
Thread direction		Right-hand		
Ball diameter (mm)		1.5875		
Root diameter (mm)		8.6		
Series	G	G	GE	
Basic dynamic load rating C (N)	2250			
Basic static load rating C0 (N)	3300			
Accuracy grade /	C5 / S	C5 / F	C7 / M	
Axial clearance symbol				
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	0.1 to 2.5	Up to 0.5		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	None			
Lubricant	Alva	ınia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1002DS-EANR-0250A	202	250	175	0.023	0.018	0.018
GG1002DS-EANR-0320A	272	320	245	0.023		0.016
GE1002DS-EANR-0250A	202	250	175	0.05/300		
GE1002DS-EANR-0320A	272	320	245	0.05/300		

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

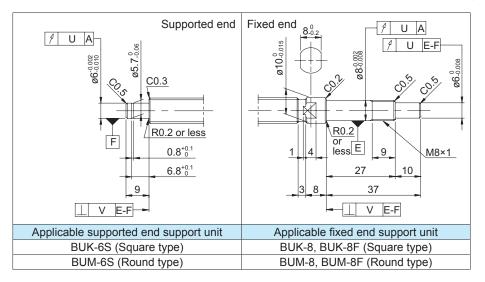
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) \rightarrow Finished shaft ends

GG1002DS-EANR-0320A → GG1002DS-EANR-0320X0263-C5F

→Thread length →Overall screw shaft length



Optional specifications

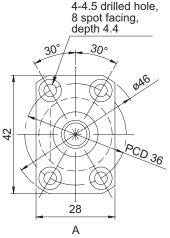
	Accur	acy of eac	h part	Preload tor	Mass		
X	Υ	Z	U	V	Without clearance	With clearance	(kg)
0.010	0.012	0.055	0.011	0.005	0.1 to 2.5	Lin to O.F.	0.22
0.010	0.012	0.065	0.011			Up to 0.5	0.26
0.014	0.020	0.080					0.22
0.014	0.020	0.100					0.26

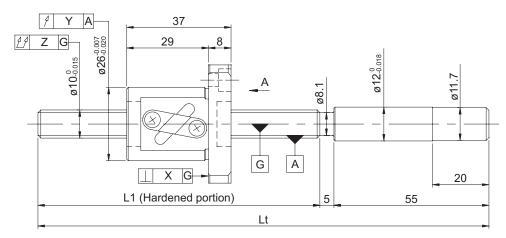
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

GG series (Accuracy grade C5) / GE series (Accuracy grade C7)

Ball Screw Specifications

Shaft diameter (mm) - Lead (mm)		10 - 4			
Number of circuits /	2.5	2.5 turns 1 circuit /			
Thread direction		Right-hand	i		
Ball diameter (mm)		2.3812			
Root diameter (mm)		8.1			
Series	G	G	GE		
Basic dynamic load rating C (N)	3350				
Basic static load rating C0 (N)	5900				
Accuracy grade /	C5 / S	C5 / F	C7 / M		
Axial clearance symbol	0373	C57F	C7 / IVI		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	0.3 to 4.0	Up to 1.0			
Spacer ball	None				
Recirculation system	Tube method				
Wiper	Plastic wiper				
Lubricant	Alva	nia Greas	e S2		





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1004DS-BAPR-0255A	195	255	158	0.023	0.018	
GG1004DS-BAPR-0385A	325	385	288	0.025	0.020	0.018
GG1004DS-BAPR-0455A	395	455	358	0.025		
GE1004DS-BAPR-0255A	195	255	158			
GE1004DS-BAPR-0385A	325	385	288	0.05/300		
GE1004DS-BAPR-0455A	395	455	358			

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

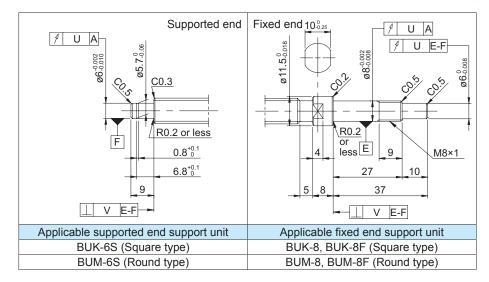
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Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

GG1004DS-BAPR-0455A → GG1004DS-BAPR-0445X0386-C5F

→Thread length →Overall screw shaft length

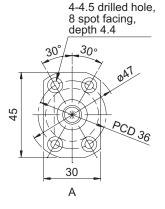


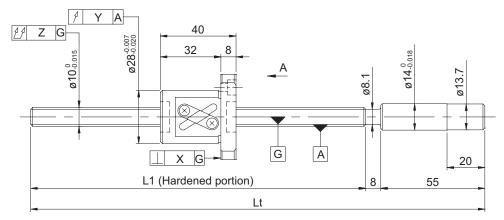
Optional specifications

	Accur	acy of eac	h part	Preload tor	Mass			
X	Y	Z	U	V	Without clearance	With clearance	(kg)	
		0.055	0.011	0.005	0.3 to 4.0			0.30
0.010	0.012	0.065				Up to 1.0	0.36	
		0.080					0.39	
		0.080					0.30	
0.014	0.020	0.100					0.36	
		0.120					0.39	

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)	10 - 10				
Number of circuits /	1.5	1.5 turns 1 circuit /			
Thread direction		Right-hand			
Ball diameter (mm)		2.3812			
Root diameter (mm)		8.1			
Series	G	G	GE		
Basic dynamic load rating C (N)	2200				
Basic static load rating C0 (N)	3500				
Accuracy grade /	05.40	05.75	07/14		
Axial clearance symbol	C5 / S	C5 / F	C7 / M		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	0.4 to 3.9	Up to 1.0			
Spacer ball	None				
Recirculation system	Tube method				
Wiper	Plastic wiper				
Lubricant	Alva	ınia Grease	e S2		





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1010AS-BAPR-0255A	192	255	152	0.023	0.018	0.010
GG1010AS-BAPR-0455A	392	455	352	0.025	0.020	0.018
GE1010AS-BAPR-0255A	192	255	152	0.05/200		
GE1010AS-BAPR-0455A	392	455	352	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

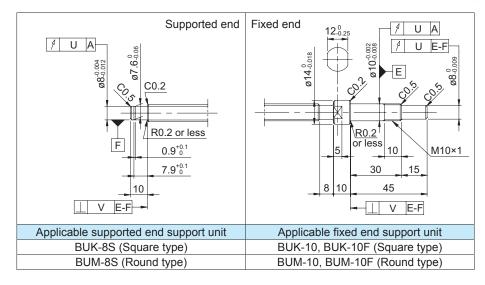
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

GG1010AS-BAPR-0455A → GG1010AS-BAPR-0455X0382-C5F

→Thread length →Overall screw shaft length

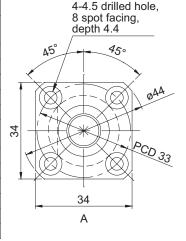


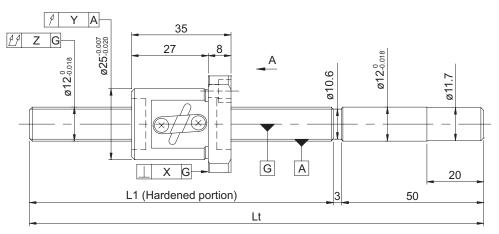
Optional specifications

	Accuracy of each part					que (N·cm)	Mass
Х	Υ	Z	UV		Without clearance	With clearance	(kg)
0.010	0.010	0.055	0.011	0.005	0.4 to 2.0	Un to 1.0	0.38
0.010	0.012	0.080	0.011		0.4 to 3.9	Up to 1.0	0.49
0.014	0.020	0.080					0.38
0.014	0.020	0.120					0.49

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		12 - 2				
Number of circuits /	2.5 turns 1 circuit /					
Thread direction		Right-hand				
Ball diameter (mm)		1.5875				
Root diameter (mm)		10.6				
Series	G	G	GE			
Basic dynamic load rating C (N)	2450					
Basic static load rating C0 (N)	4100					
Accuracy grade /	C5/S C5/F C7/N					
Axial clearance symbol	0373	C3 / F	C/ / IVI			
Axial clearance (mm)	0	0.005 or less	0.030 or less			
Preload torque (N·cm)	0.2 to 3.4	Up to 1.0				
Spacer ball		None				
Recirculation system	Tube method					
Wiper	Plastic wiper					
Lubricant	Alva	inia Grease	e S2			





Model No.	Screw sh	aft length	Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1202DS-AAPR-0300A	247	300	212	0.023	0.018	0.018
GG1202DS-AAPR-0455A	402	455	367	0.027	0.020	0.016
GE1202DS-AAPR-0300A	247	300	212	0.05/200		
GE1202DS-AAPR-0455A	402	455	367	0.05/300		

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

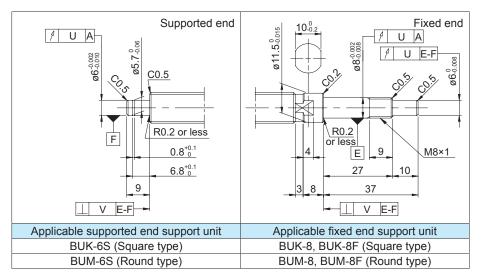
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

GG1202DS-AAPR-0455A → GG1202DS-AAPR-0450X0393-C5F

→Thread length →Overall screw shaft length

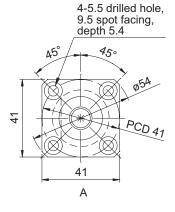


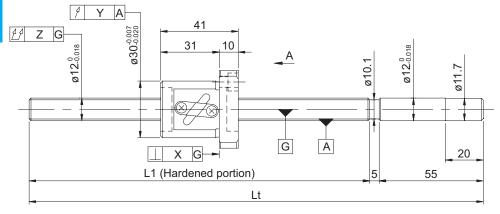
Optional specifications

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
Χ	Υ	Z	UV		Without clearance	With clearance	(kg)
0.010	0.012	0.055	0.011	0.005	0.2 to 2.4	Up to 1.0	0.36
0.010	0.012	0.080	0.011		0.2 to 3.4	Up to 1.0	0.48
0.014	0.020	0.080					0.36
0.014	0.020	0.120					0.48

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		12 - 4			
Number of circuits /	2.5	2.5 turns 1 circuit /			
Thread direction		Right-hand	l		
Ball diameter (mm)		2.3812			
Root diameter (mm)		10.1			
Series	G	G	GE		
Basic dynamic load rating C (N)	3600				
Basic static load rating C0 (N)	6750				
Accuracy grade /	CE / C	CE / E	C7 / N4		
Axial clearance symbol	C5 / S	C5 / F	C7 / M		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	0.2 to 4.7	Up to 1.0			
Spacer ball	None				
Recirculation system	Tube method				
Wiper	Lip seal				
Lubricant	Alva	ınia Grease	e S2		





Model No.	Screw sh	aft length	Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E _c	e _c	e ₃₀₀
GG1204DS-AALR-0405A	345	405	304	0.025	0.020	0.018
GG1204DS-AALR-0605A	545	605	504	0.030	0.023	0.018
GE1204DS-AALR-0405A	345	405	304	0.05/200		
GE1204DS-AALR-0605A	545	605	504	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

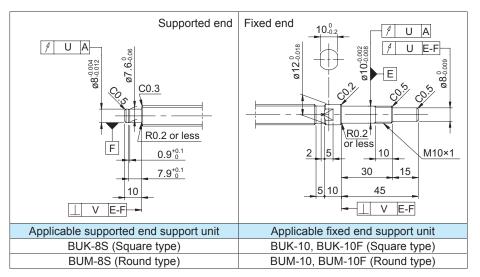
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG1204DS\text{-}AALR\text{-}0605A} \,\rightarrow\,\, \mathsf{GG1204DS\text{-}AALR\text{-}}\underline{0605}\mathsf{X}\underline{0535\text{-}C5F}$

→Thread length →Overall screw shaft length

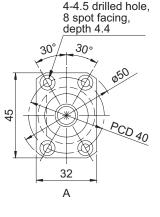


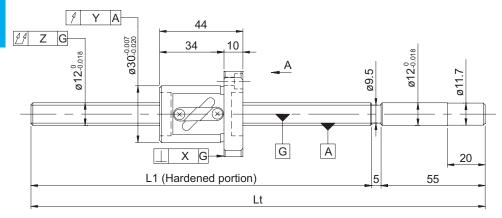
• Optional specifications

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
X	Υ	Z	UV		Without clearance	With clearance	(kg)
0.010	0.010	0.080	0.011	0.005	0.0 to 4.7	Up to 1.0	0.56
0.010	0.010 0.012	0.090	0.011		0.2 to 4.7		0.70
0.014	0.000	0.120					0.56
0.014	0.020	0.150					0.70

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		12 - 5		
() ()				
Number of circuits /	2.5	turns 1 circ	cuit /	
Thread direction		Right-hand	l	
Ball diameter (mm)		3.175		
Root diameter (mm)		9.5		
Series	G	G	GE	
Basic dynamic load rating C (N)	5950			
Basic static load rating C0 (N)	9800			
Accuracy grade /	05/0 05/5 07/14			
Axial clearance symbol	C5 / S	C5 / F	C7 / M	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	1.5 to 7.0	Up to 1.0		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	ınia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1205DS-BALR-0305A	245	305	201	0.023	0.018	0.010
GG1205DS-BALR-0455A	395	455	351	0.025	0.020	0.018
GE1205DS-BALR-0305A	245	305	201	0.05/300		
GE1205DS-BALR-0455A	395	455	351	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

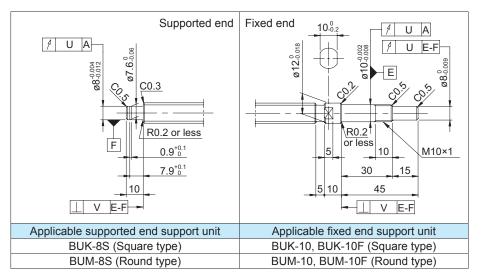
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG1205DS\text{-}BALR\text{-}0455A} \, \rightarrow \, \mathsf{GG1205DS\text{-}BALR\text{-}}\underline{\mathsf{0455}}\mathsf{X}\underline{\mathsf{0385}\text{-}\mathsf{C5F}}$

→Thread length →Overall screw shaft length

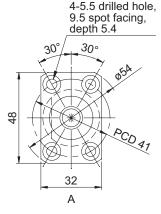


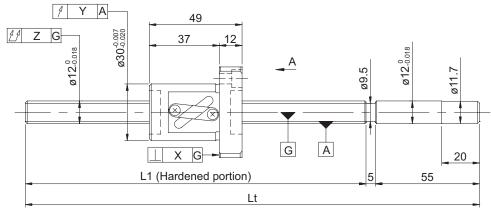
Optional specifications

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass		
X	Υ	Z	UV		Without clearance	With clearance	(kg)		
0.010	0.010	0.055	0.011	0.011	0.005	0.00F 4.5 to 7.0	1 5 to 7 0	Un to 1.0	0.44
0.010	0.012	0.080	0.011	0.005	1.5 to 7.0	Up to 1.0	0.54		
0.014	0.000	0.080					0.44		
0.014	0.020	0.120					0.54		

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Chaft diamater (mm) Load (mm)		12 - 10		
Shaft diameter (mm) - Lead (mm)	.=			
Number of circuits /	1.5	turns 1 circ	cuit /	
Thread direction		Right-hand	l	
Ball diameter (mm)		3.175		
Root diameter (mm)		9.5		
Series	G	G	GE	
Basic dynamic load rating C (N)	3850			
Basic static load rating C0 (N)	5900			
Accuracy grade /	C5 / S	C5 / F	C7 / M	
Axial clearance symbol	0070	0071	07 7 101	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	1.0 to 5.5	Up to 2.0		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	ınia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1210AS-BALR-0455A	395	455	346	0.025	0.020	0.010
GG1210AS-BALR-0605A	545	605	496	0.030	0.023	0.018
GE1210AS-BALR-0455A	395	455	346	0.05/200		
GE1210AS-BALR-0605A	545	605	496	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

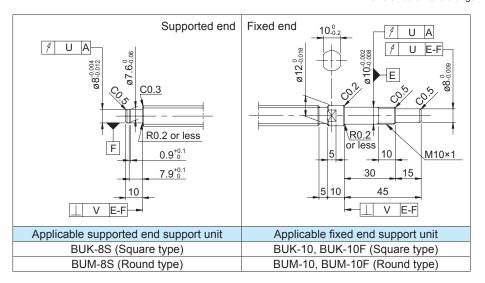
Shaft end finish type

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends GG1210AS-BALR-0605A → GG1210AS-BALR-0605X0535-C5F

→ Thread length → Overall screw shaft length

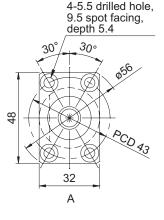


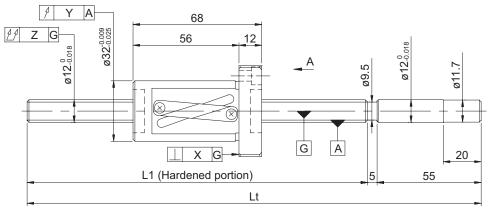
• Optional specifications

	Accuracy of each part					que (N·cm)	Mass
X	Υ	Z	UV		Without clearance	With clearance	(kg)
0.010	0.012	0.080	0.011	0.005	1.0 to 5.5	Lin to 2.0	0.63
0.010	0.012	0.090	0.011		1.0 (0 5.5	Up to 2.0	0.75
0.014	0.020	0.120					0.63
0.014	0.020	0.150					0.75

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		12 - 20		
Number of circuits /	1.5 turns 1 circuit /			
Thread direction		Right-hand		
Ball diameter (mm)		3.175		
Root diameter (mm)		9.5		
Series	G	G	GE	
Basic dynamic load rating C (N)	3850			
Basic static load rating C0 (N)	5900			
Accuracy grade /	05.40	05.75	07/14	
Axial clearance symbol	C5 / S	C5 / F	C7 / M	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	1.0 to 7.5	Up to 2.5		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	ınia Grease	e S2	





	Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
	(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
ſ	GG1220AS-BALR-0405A	345	405	277	0.025	0.020	0.010
	GG1220AS-BALR-0605A	545	605	477	0.030	0.023	0.018
	GE1220AS-BALR-0405A	345	405	277	0.05/300		
	GE1220AS-BALR-0605A	545	605	477	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

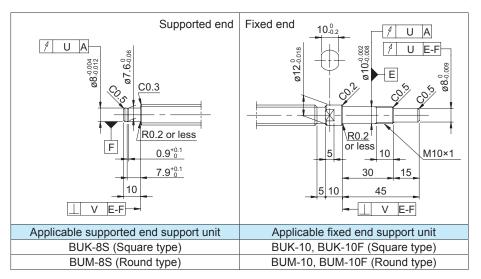
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends

 $\mathsf{GG1220AS\text{-}BALR\text{-}0605A} \,\rightarrow\,\, \mathsf{GG1220AS\text{-}BALR\text{-}}\underbrace{\mathsf{0605}} \mathsf{X} \underbrace{\mathsf{0535\text{-}C5F}}_{\mathsf{1}} \mathsf{C5F}$

→Thread length →Overall screw shaft length



• Optional specifications

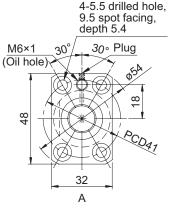
	Accuracy of each part					que (N·cm)	Mass		
X	Υ	Z	UV		Without clearance	With clearance	(kg)		
0.010	0.010	0.080	0.044	0.011	0.044 0.005	0.005	1 0 to 7 F	Lin to O.F.	0.73
0.010	0.012	0.090	0.011	0.005	1.0 to 7.5	Up to 2.5	0.90		
0.010	0.020	0.120					0.73		
0.018	0.030	0.150					0.90		

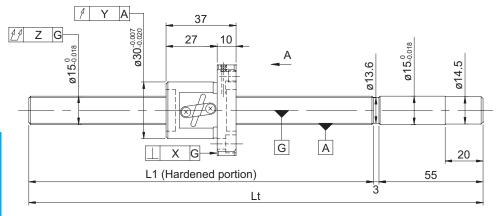
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Screw shaft diameter ø1

Ball Screw Specifications

Shaft diameter (mm) - Lead (mm)		15 - 2		
Number of circuits /	2.5 turns 1 circuit /			
Thread direction		Right-hand	l	
Ball diameter (mm)		1.5875		
Root diameter (mm)		13.6		
Series	G	G	GE	
Basic dynamic load rating C (N)	2700			
Basic static load rating C0 (N)	5500			
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	0.2 to 4.7	Up to 2.0		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	Plastic wiper			
Lubricant	Alva	nia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
GG1502DS-BAPR-0300A	242	300	205	0.023	0.018	0.018
GG1502DS-BAPR-0600A	542	600	505	0.030	0.023	0.018
GE1502DS-BAPR-0300A	242	300	205	0.05/300		
GE1502DS-BAPR-0600A	542	600	505	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

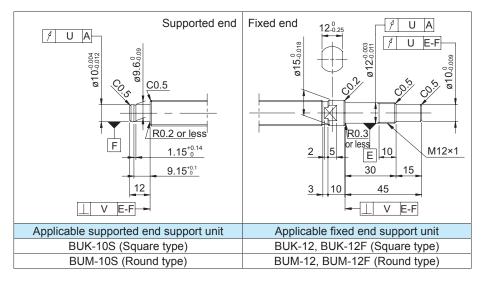
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

GG1502DS-BAPR-0600A \rightarrow GG1502DS-BAPR-0600X0530-C5F

→Thread length →Overall screw shaft length

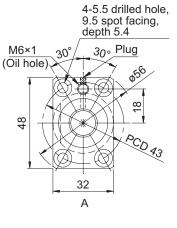


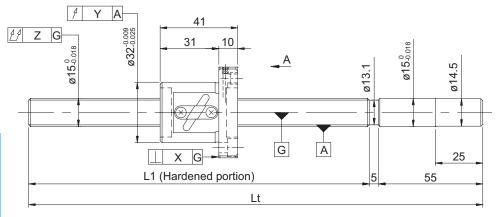
Optional specifications

	Accuracy of each part					que (N·cm)	Mass
Χ	Υ	Z	U V V		Without clearance	With clearance	(kg)
0.010	0.012	0.045	0.040	0.005	0.2 to 4.7	Lin to O O	0.58
0.010	0.012	0.075	0.012			Up to 2.0	0.94
0.014	0.000	0.070					0.58
0.014	0.020	0.110					0.94

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		15 - 4		
Number of circuits /	2.5 turns 1 circuit /			
Thread direction		Right-hand	1	
Ball diameter (mm)		2.3812		
Root diameter (mm)		13.1		
Series	G	G	GE	
Basic dynamic load rating C (N)	4100			
Basic static load rating C0 (N)	8550			
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	1.0 to 8.0	Up to 2.0		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	ınia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1504DS-BALR-0600A	540	600	499	0.030	0.023	0.010
GG1504DS-BALR-1100A	1040	1100	999	0.046	0.030	0.018
GE1504DS-BALR-0600A	540	600	499	0.05/200		
GE1504DS-BALR-1100A	1040	1100	999	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

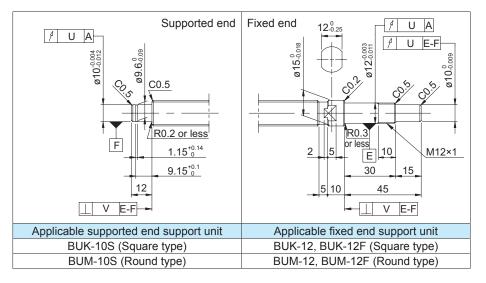
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG1504DS\text{-}BAPR\text{-}1100A} \ \rightarrow \ \mathsf{GG1504DS\text{-}BAPR\text{-}}\underline{1100}\mathsf{X}\underline{1028}\text{-}\mathsf{C5F}$

→Thread length →Overall screw shaft length

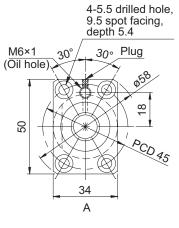


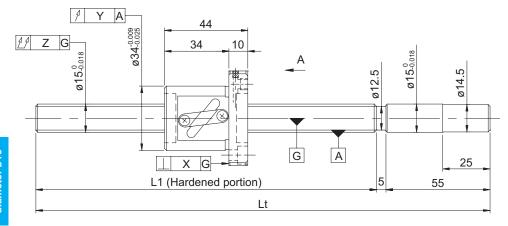
Optional specifications

	Accuracy of each part					que (N·cm)	Mass
Х	Υ	Z	UV		Without clearance	With clearance	(kg)
0.010	0.010	0.075	0.010	0.005	1.0 to 6.0	Up to 2.0	0.96
0.010	0.012	0.150	0.012		1.0 to 8.0		1.56
0.010	0.020	0.110					0.96
0.018	0.030	0.210					1.56

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		15 - 5			
Number of circuits /	2.5 turns 1 circuit /				
Thread direction		Right-hand	I		
Ball diameter (mm)		3.175			
Root diameter (mm)		12.5			
Series	G	G	GE		
Basic dynamic load rating C (N)	6900				
Basic static load rating C0 (N)	12500				
Accuracy grade /	C5 / S	C5 / F	C7 / M		
Axial clearance symbol	0575	C5/F	C7 / W		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	1.5 to 11.0	Up to 2.0			
Spacer ball		None			
Recirculation system	Tube method				
Wiper	Lip seal				
Lubricant	Alva	nia Grease	e S2		





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
GG1505DS-BALR-0600A	540	600	496	0.030	0.023	0.018
GG1505DS-BALR-1100A	1040	1100	996	0.046	0.030	0.016
GE1505DS-BALR-0600A	540	600	496	0.05/200		
GE1505DS-BALR-1100A	1040	1100	996	0.05/300		

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

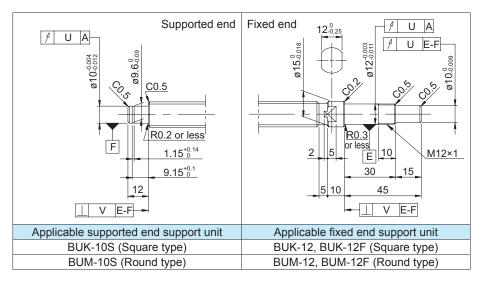
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \, \rightarrow \ \, \textbf{Finished shaft ends}$

GG1505DS-BALR-1100A \rightarrow GG1505DS-BALR-1100X1028-C5F

→Thread length →Overall screw shaft length



Optional specifications

Ball screw lubricating unit LUBSEAL can be equipped.

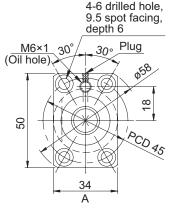
Model example: GG1505DS-BASR-1100X1028-C5F

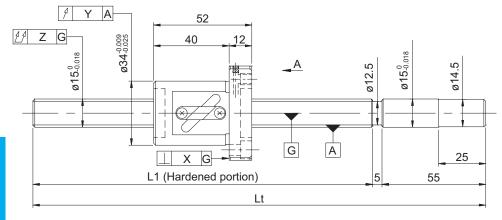
─Wiper material S: LUBSEAL

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
Χ	Υ	Z	UV		Without clearance	With clearance	(kg)
0.044	0.015	0.075	0.012	0.005	1.5 to 9.0	Lin to O O	0.96
0.011	0.015	0.150	0.012	0.005	1.5 to 11.0	Up to 2.0	1.52
0.010	0.020	0.110					0.96
0.018	0.030	0.210					1.52

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		15 - 10		
Number of circuits /	1.5 turns 1 circuit /			
Thread direction		Right-hand	I	
Ball diameter (mm)		3.175		
Root diameter (mm)		12.5		
Series	G	G	GE	
Basic dynamic load rating C (N)	4400			
Basic static load rating C0 (N)	7900			
Accuracy grade /	C5 / S	C5 / F	C7 / M	
Axial clearance symbol	0070	0071	077101	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	1.0 to 8.0	Up to 3.0		
Spacer ball		None		
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	nia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E _c	e _c	e ₃₀₀
GG1510AS-BALR-0600A	540	600	488	0.030	0.023	
GG1510AS-BALR-0900A	840	900	788	0.040	0.027	0.018
GG1510AS-BALR-1100A	1040	1100	988	0.046	0.030	
GE1510AS-BALR-0600A	540	600	488			
GE1510AS-BALR-0900A	840	900	788	0.05/300		
GE1510AS-BALR-1100A	1040	1100	988	1		

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

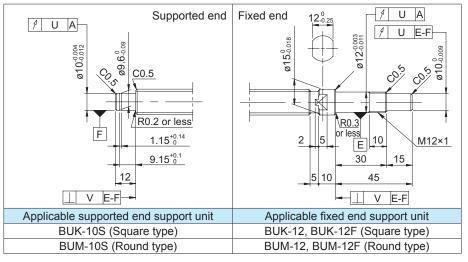
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG1510AS\text{-}BALR\text{-}1100A} \,\rightarrow\,\, \mathsf{GG1510AS\text{-}BALR\text{-}} \underline{1100}\mathsf{X}\underline{1028\text{-}C5F}$

→Thread length →Overall screw shaft length



Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.

Model example: GG1510AS-BASR-1100X1028-C5F

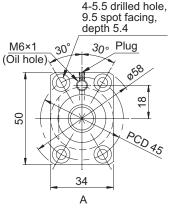
—Wiper material S: LUBSEAL

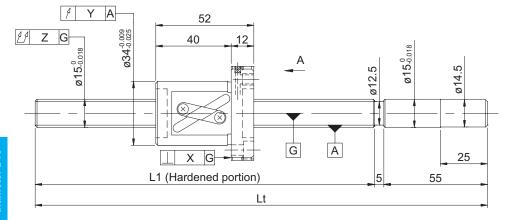
	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
X	Y	Z	U V Wit		Without clearance	With clearance	(kg)
		0.075		1.0 to 7.0		1.09	
0.011	0.015	0.120	0.012	0.005	1.0 to 7.0	Up to 3.0	1.47
		0.150			1.0 to 8.0		1.72
		0.110					1.09
0.018	0.030	0.170					1.47
		0.210					1.72

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.

 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		15 - 10			
Number of circuits /	2.5 turns 1 circuit /				
Thread direction		Right-hand	l		
Ball diameter (mm)		3.175			
Root diameter (mm)		12.5			
Series	G	G	GE		
Basic dynamic load rating C (N)	6900				
Basic static load rating C0 (N)	12500				
Accuracy grade /	C5 / S	C5 / F	C7 / M		
Axial clearance symbol	0373	0371	O7 7 IVI		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	1.0 to 8.0	Up to 3.0			
Spacer ball		None			
Recirculation system	Tube method				
Wiper	Lip seal				
Lubricant	Alva	nia Grease	e S2		





Model No.	Screw sh	aft length	Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1510DS-BALR-0600A	540	600	488	0.030	0.023	
GG1510DS-BALR-0900A	840	900	788	0.040	0.027	0.018
GG1510DS-BALR-1100A	1040	1100	988	0.046	0.030	
GE1510DS-BALR-0600A	540	600	488			
GE1510DS-BALR-0900A	840	900	788	0.05/300		
GE1510DS-BALR-1100A	1040	1100	988			

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- Preload torque is a value before applying grease.

Shaft end finish type

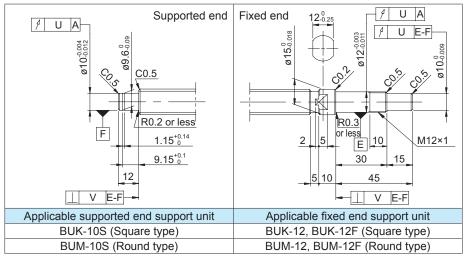
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends

GG1510DS-BALR-1100A → GG1510DS-BALR-1100X1028-C5F

→Thread length →Overall screw shaft length



Optional specifications

· Ball screw lubricating unit LUBSEAL can be equipped.

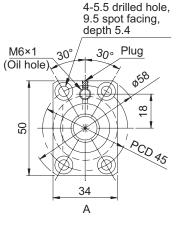
Model example: GG1510DS-BASR-1100X1028-C5F

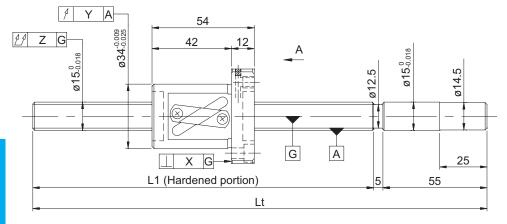
→Wiper material S: LUBSEAL

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
X	Υ	Z	U V Wit		Without clearance	With clearance	(kg)
		0.075		1.0 to 7.0		1.09	
0.011	0.015	0.120	0.012	0.005	1.0 to 7.0	Up to 3.0	1.47
		0.150			1.0 to 8.0		1.72
		0.110					1.09
0.018	0.030	0.170					1.47
		0.210					1.72

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
 For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

	1				
Shaft diameter (mm) - Lead (mm)		15 - 15			
Number of circuits /	1.5 turns 1 circuit /				
Thread direction		Right-hand	I		
Ball diameter (mm)		3.175			
Root diameter (mm)		12.5			
Series	G	G	GE		
Basic dynamic load rating C (N)	4400				
Basic static load rating C0 (N)	7900				
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	1.0 to 10.0	Up to 3.0			
Spacer ball	None				
Recirculation system	Tube method				
Wiper	Lip seal				
Lubricant	Alva	ınia Grease	e S2		





		6.1					
Model No.	Screw shaft length		Maximum stroke	Lead accuracy			
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E _c	e _c	e ₃₀₀	
GG1515AS-BALR-0600A	540	600	486	0.030	0.023		
GG1515AS-BALR-0900A	840	900	786	0.040	0.027	0.018	
GG1515AS-BALR-1100A	1040	1100	986	0.046	0.030		
GE1515AS-BALR-0600A	540	600	486				
GE1515AS-BALR-0900A	840	900	786	0.05/300			
GE1515AS-BALR-1100A	1040	1100	986				

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- Preload torque is a value before applying grease.

Shaft end finish type

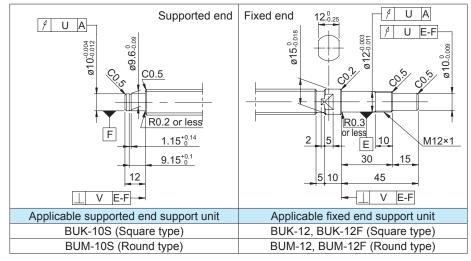
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG1515AS\text{-}BALR\text{-}}1100\mathsf{A} \,\rightarrow\,\, \mathsf{GG1515AS\text{-}BALR\text{-}}\underline{1100}\mathsf{X}\underline{1028\text{-}C5F}$

→Thread length →Overall screw shaft length



Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.

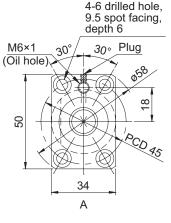
Model example: GG1515AS-BASR-1100X1028-C5F

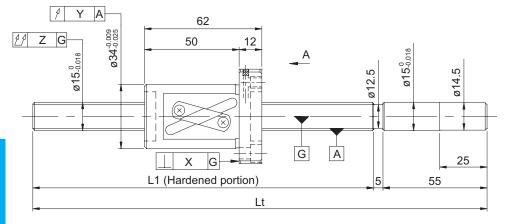
→Wiper material S: LUBSEAL

	Accur	acy of eac	h part	Preload tor	que (N·cm)	Mass			
Χ	Υ	Z U V		V	Without clearance	With clearance	(kg)		
		0.075	1 0 to 9 0				1 0 to 0 0		1.13
0.011	0.015	0.120	0.012	0.005	1.0 10 9.0	Up to 3.0	1.52		
		0.150			1.0 to 10.0		1.78		
		0.110					1.13		
0.018	0.030	0.170					1.52		
		0.210					1.78		

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		15 - 20			
Number of circuits /	1.5 turns 1 circuit /				
Thread direction		Right-hand			
Ball diameter (mm)		3.175			
Root diameter (mm)		12.5			
Series	G	G	GE		
Basic dynamic load rating C (N)	4400				
Basic static load rating C0 (N)	7900				
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	1.0 to 11.0	Up to 3.0			
Spacer ball		None			
Recirculation system	Tube method				
Wiper	Lip seal				
Lubricant	Alva	ınia Grease	e S2		





Model No.	Screw sh	aft length	Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG1520AS-BALR-0600A	540	600	478	0.030	0.023	
GG1520AS-BALR-0900A	840	900	778	0.040	0.027	0.018
GG1520AS-BALR-1100A	1040	1100	978	0.046	0.030	
GE1520AS-BALR-0600A	540	600	478			
GE1520AS-BALR-0900A	840	900	778	0.05/300		
GE1520AS-BALR-1100A	1040	1100	978			

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- Preload torque is a value before applying grease.

Shaft end finish type

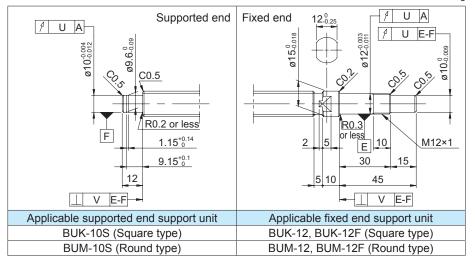
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG1520AS\text{-}BALR\text{-}1100A} \,\rightarrow\,\, \mathsf{GG1520AS\text{-}BALR\text{-}}\underline{1100}\mathsf{X}\underline{1028\text{-}C5F}$

→Thread length →Overall screw shaft length



Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.

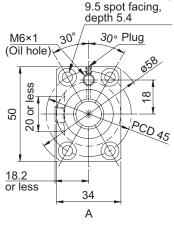
Model example: GG1520AS-BASR-1100X1028-C5F

UBSEAL S: LUBSEAL

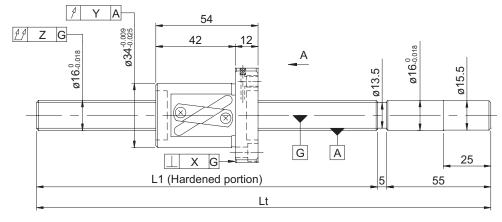
	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
X	Υ	Z	U V		Without clearance	With clearance	(kg)
		0.075	0.012 0.005 1.0 to 10.0		1.0 to 10.0		1.18
0.011	0.015	0.120		1.0 to 10.0	Up to 3.0	1.58	
		0.150			1.0 to 11.0		1.85
		0.110					1.18
0.018	0.030	0.170					1.58
		0.210				1.85	

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

	16 - 16		
1.5 turns 1 circuit /			
	Right-hand	l	
	3.175		
	13.5		
G	G	GE	
	4750		
	8300		
CEIC	CE / E	C7 / M	
0575	C5/F	C/ / W	
0	0.005 or less	0.030 or less	
1.0 to 10.0	Up to 3.0		
	None		
Tube method			
Lip seal			
Alva	nia Grease	e S2	
	C5 / S 0 1.0 to 10.0	1.5 turns 1 circ Right-hand 3.175 13.5 GG 4750 8300 C5 / S C5 / F 0 0.005 or less 1.0 to 10.0 Up to 3.0 None Tube metho	



4-5.5 drilled hole.



Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
GG1616AS-BTLR-0600A	540	600	486	0.030	0.023	0.010
GG1616AS-BTLR-0900A	840	900	786	0.040	0.027	0.018
GE1616AS-BTLR-0600A	540	600	486	0.05/200		
GE1616AS-BTLR-0900A	840	900	786	0.05/300		

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

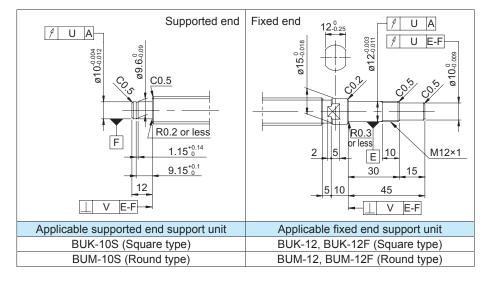
Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $GG1616AS-BTLR-0900A \rightarrow GG1616AS-BTLR-0900X0828-C5F$

Thread length

→Overall screw shaft length



Optional specifications

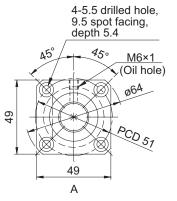
	Accur	acy of eac	h part	Preload tor	que (N·cm)	Mass	
Х	Υ	Z	U	V	Without clearance	With clearance	(kg)
0.011	0.015	0.075	0.012 0.005	0.005	1.0 to 10.0	Lin to 2.0	1.21
0.011	0.015	0.120		0.005		Up to 3.0	1.67
0.010	0.020	0.110					1.21
0.018	0.030	0.170					1.67

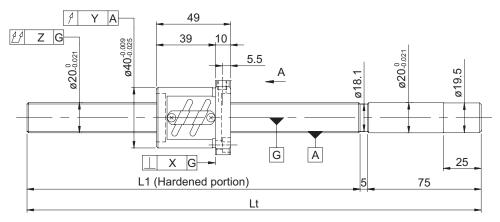
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Screw shaft diameter ø20

Ball Screw Specifications

Shaft diameter (mm) - Lead (mm)		20 - 4			
Number of circuits /	2.5 turns 2 circuits /				
Thread direction		Right-hand	I		
Ball diameter (mm)		2.3812			
Root diameter (mm)		18.1			
Series	G	G	GE		
Basic dynamic load rating C (N)		8600			
Basic static load rating C0 (N)	23400				
Accuracy grade /	C5 / S	C5 / F	C7 / M		
Axial clearance symbol	0373	C3 / F	C/ / IVI		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	1.5 to 20.0	Up to 3.0			
Spacer ball		None			
Recirculation system	Tube method				
Wiper	Lip seal				
Lubricant	Alva	nia Grease	e S2		





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E _c	e _c	e ₃₀₀
GG2004ES-AALR-0605A	EDE	COF	476	0.030	0.023	0.018
GE2004ES-AALR-0605A	525	605	476	0.05/300		

KURODA

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- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

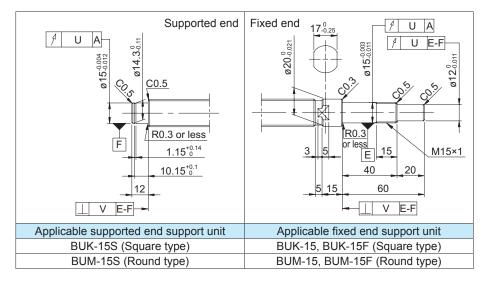
Shaft end finish type

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends GG2004ES-AALR-0605A → GG2004ES-AALR-0605X0513-C5F

→Thread length →Overall screw shaft length



Optional specifications

	Accur	acy of eac	h part	Preload tor	Mass		
Χ	Υ	Z	U	V	Without clearance With clearance		(kg)
0.011	0.015	0.075	0.012	0.005	1.5 to 20.0	Up to 3.0	1.78
0.018	0.030	0.110					1.70

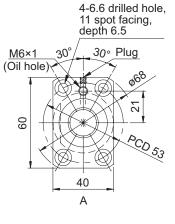
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

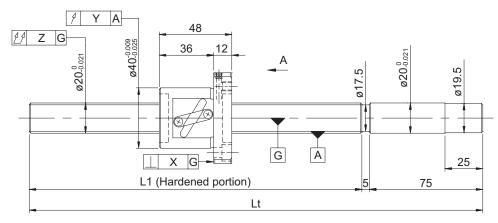


Screw shaft

Ball Screw Specifications

Ola - (1 - 1' 1 ()		00 5		
Shaft diameter (mm) - Lead (mm)		20 - 5		
Number of circuits /	2.5	turns 1 circ	cuit /	
Thread direction		Right-hand	l	
Ball diameter (mm)		3.175		
Root diameter (mm)		17.5		
Series	G	G	GE	
Basic dynamic load rating C (N)		8350		
Basic static load rating C0 (N)		17500		
Accuracy grade /	C5 / S	C5 / F	C7 / M	
Axial clearance symbol	0070	0071	0.7.11	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	2.0 to 14.0	Up to 3.0		
Spacer ball		None		
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	ınia Grease	e S2	





Model No.	Screw sh	aft length	Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG2005DS-BALR-0605A	525	605	477	0.030	0.023	0.018
GG2005DS-BALR-1005A	925	1005	877	0.040	0.027	0.016
GE2005DS-BALR-0605A	525	605	477	0.05/200		
GE2005DS-BALR-1005A	925	1005	877	0.05/300	U	

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

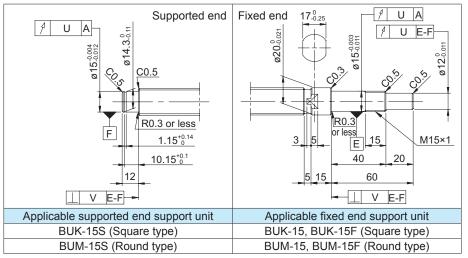
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG2005DS\text{-}BALR\text{-}}1005\mathsf{A} \ \to \ \mathsf{GG2005DS\text{-}BALR\text{-}}\underline{1005}\mathsf{X}\underline{0913\text{-}C5F}$

→Thread length →Overall screw shaft length



Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.

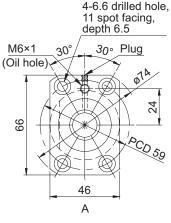
Model example: GG2005DS-BASR-1005X0913-C5F

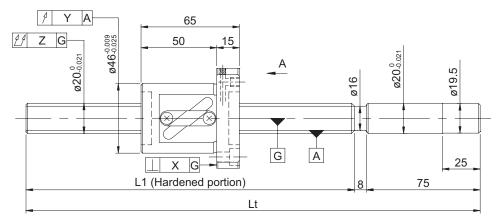
☐ Wiper material S: LUBSEAL

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
Χ	Υ	Z	UV		Without clearance	With clearance	(kg)
0.011	0.045	0.075	0.012	0.005	2.0 to 14.0	Lin to 2.0	1.71
0.011	0.015	0.150				Up to 3.0	2.56
0.040	0.020	0.110					1.71
0.018	0.030	0.210					2.56

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		20 - 10			
Number of circuits /	2.5 turns 1 circuit /				
Thread direction		Right-hand	l		
Ball diameter (mm)		4.7625			
Root diameter (mm)		16.0			
Series	G	G	GE		
Basic dynamic load rating C (N)		13500			
Basic static load rating C0 (N)		25100			
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M		
Axial clearance (mm)	0	0.005 or less	0.030 or less		
Preload torque (N·cm)	7.0 to 29.0	Up to 4.0			
Spacer ball		None			
Recirculation system	Tube method				
Wiper	Lip seal				
Lubricant	Alva	ınia Grease	e S2		





Model No.	Screw sh	aft length	Maximum stroke	Le	ead accura	су
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
GG2010DS-BALR-0605A	522	605	457	0.030	0.023	
GG2010DS-BALR-1005A	922	1005	857	0.040	0.027	0.018
GG2010DS-BALR-1505A	1422	1505	1357	0.054	0.035	
GE2010DS-BALR-0605A	522	605	457			
GE2010DS-BALR-1005A	922	1005	857	0.05/300		
GE2010DS-BALR-1505A	1422	1505	1357			

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

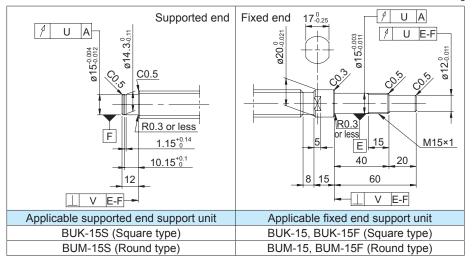
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) \rightarrow Finished shaft ends

GG2010DS-BALR-1505A → GG2010DS-BALR-1505X1410-C5F

→Thread length →Overall screw shaft length



Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.

Model example: GG2010DS-BASR-1505X1410-C5F

UBSEAL → Wiper material S: LUBSEAL

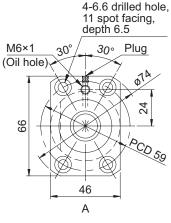
	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
X	Υ	Z	UV		Without clearance	With clearance	(kg)
		0.075			8.0 to 29.0		2.01
0.011	0.015	0.150	0.012	0.012 0.005	7.0 to 29.0	Up to 4.0	2.84
		0.190			7.0 to 29.0		3.87
		0.110					2.01
0.018	0.030	0.210					2.84
		0.270					3.87

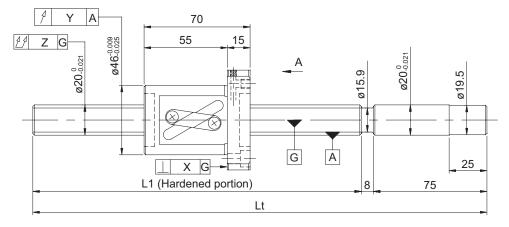
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Screw shaft

Ball Screw Specifications

Shaft diameter (mm) - Lead (mm)		20 - 20	
Number of circuits /	1.5	turns 1 circ	cuit /
Thread direction		Right-hand	l
Ball diameter (mm)		4.7625	
Root diameter (mm)		15.9	
Series	G	G	GE
Basic dynamic load rating C (N)	9200		
Basic static load rating C0 (N)	16200		
Accuracy grade /	C5 / S	C5 / F	C7 / M
Axial clearance symbol	0070	0071	07 7 W
Axial clearance (mm)	0	0.005 or less	0.030 or less
Preload torque (N·cm)	5.0 to 22.0	Up to 4.0	
Spacer ball		None	
Recirculation system	Tube method		
Wiper	Lip seal		
Lubricant	Alva	nia Grease	e S2





Model No.	Screw shaft length		Maximum stroke	Lead accuracy		
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
GG2020AS-BALR-1005A	922	1005	852	0.040	0.027	0.018
GG2020AS-BALR-1505A	1422	1505	1352	0.054	0.035	0.016
GE2020AS-BALR-1005A	922	1005	852	0.05/200		
GE2020AS-BALR-1505A	1422	1505	1352	0.05/300		

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

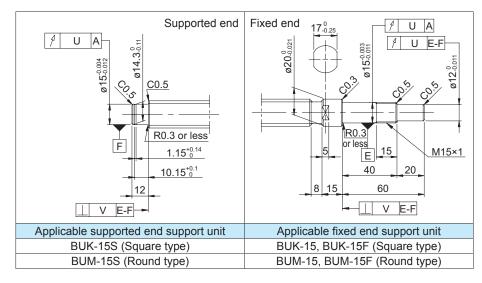
Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG2020AS\text{-}BALR\text{-}1505A} \,\rightarrow\,\, \mathsf{GG2020AS\text{-}BALR\text{-}}\underbrace{1505} \mathsf{X}\underbrace{1410\text{-}\mathsf{C5F}}$

→Thread length →Overall screw shaft length



Optional specifications

· Ball screw lubricating unit LUBSEAL can be equipped.

Model example: GG2020AS-BASR-1505X1410-C5F

Wiper material S: LUBSEAL

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
Χ	Υ	Z	U	V	Without clearance	With clearance	(kg)
0.011	0.015	0.150	0.012	0.005	6.0 to 20.0	Lin to 4.0	3.08
0.011	0.015	0.190	0.012		5.0 to 22.0	Up to 4.0	4.22
0.018	0.020	0.210					3.08
0.018	0.030	0.270					4.22

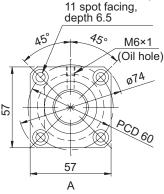
- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

GG (Ground C5) / GE (Ground C7) / GK (Whirled C5)

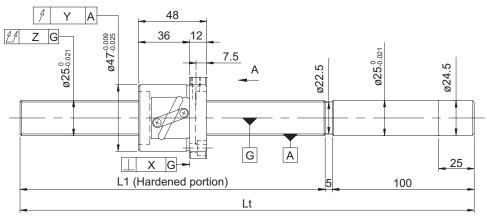
oo (ordana oo) / oz (ordana o/) / or (wiinida od

Ball Screw Specifications

Shaft diameter (mm) - Lead (mm)	25 - 5			
Number of circuits /	2.5 turns 1 circuit /			
Thread direction		Right-hand	1	
Ball diameter (mm)		3.175		
Root diameter (mm)		22.5		
Series	G	G	GE	
Basic dynamic load rating C (N)	9400			
Basic static load rating C0 (N)	22200			
Accuracy grade /	C5 / S	C5 / F	C7 / M	
Axial clearance symbol	0575	C5/F	C/ / W	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	2.0 to 18.0	Up to 6.0		
Spacer ball		None		
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	nia Grease	e S2	



4-6.6 drilled hole,



Model No.	Screw sh	aft length	Maximum stroke	Le	ead accura	су
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±E。	e _c	e ₃₀₀
GG2505DS-AALR-0600A	495	600	447	0.027	0.020	
GG2505DS-AALR-1000A	895	1000	847	0.040	0.027	0.018
GG2505DS-AALR-1505A	1400	1505	1352	0.054	0.035	
GE2505DS-AALR-0600A	495	600	447			
GE2505DS-AALR-1000A	895	1000	847	0.05/300		
GE2505DS-AALR-1505A	1400	1505	1352			

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- Preload torque is a value before applying grease.

Shaft end finish type

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

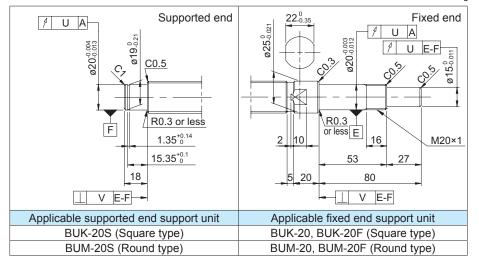
Model example: Unfinished shaft ends (See left figure) — Finished shaft ends

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \, \rightarrow \ \, \textbf{Finished shaft ends}$

 $\mathsf{GG2505DS\text{-}AALR\text{-}1505A} \, \rightarrow \, \mathsf{GG2505DS\text{-}AALR\text{-}}\underline{1505}\mathsf{X}\underline{1382\text{-}C5F}$

→Thread length →Overall screw shaft length

Screw shaft diameter ø25, Lead 5



Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.

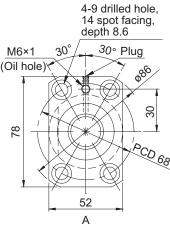
Model example: GG2505DS-AASR-1505X1382-C5F

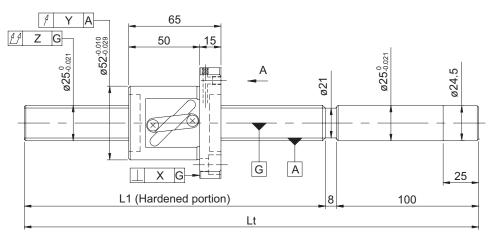
☐ Wiper material S: LUBSEAL

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
Χ	Y	Z	U	V	Without clearance	With clearance	(kg)
		0.060	0.013	3 0.005		Up to 6.0	2.64
0.011	0.015	0.085			2.0 to 18.0		4.01
		0.130					5.74
		0.090					2.64
0.018	0.030	0.130					4.01
		0.190					5.74

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)	25 - 10			
Number of circuits /	2.5 turns 1 circuit /			
Thread direction		Right-hand	I	
Ball diameter (mm)		4.7625		
Root diameter (mm)		21.0		
Series	G	G	GE	
Basic dynamic load rating C (N)	16100			
Basic static load rating C0 (N)	33400			
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M	
Axial clearance (mm)	0	0.005 or less	0.030 or less	
Preload torque (N·cm)	10.0 to 38.0	Up to 6.0		
Spacer ball	None			
Recirculation system	Tube method			
Wiper	Lip seal			
Lubricant	Alva	ınia Grease	e S2	





Model No.	Screw shaft length		Maximum stroke	Le	ad accura	су
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
GG2510DS-BALR-1020A	912	1020	847	0.040	0.027	0.010
GG2510DS-BALR-1520A	1412	1520	1347	0.054	0.035	0.018
GE2510DS-BALR-1020A	912	1020	847	0.05/200		
GE2510DS-BALR-1520A	1412	1520	1347	0.05/300	300	

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

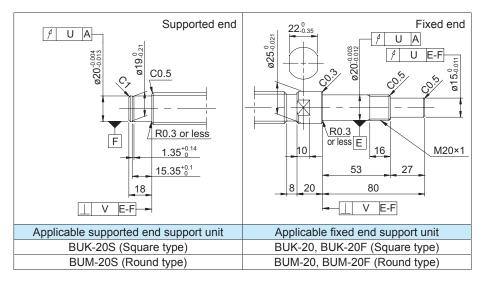
Shaft end finish type

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below. **Model example:** Unfinished shaft ends (See left figure) \rightarrow Finished shaft ends

ample: Unfinished shaft ends (See left figure) → Finished shaft ends GG2510DS-BALR-1520A → GG2510DS-BALR-1520X1394-C5F

→Thread length
→Overall screw shaft length



Optional specifications

• Ball screw lubricating unit LUBSEAL can be equipped.

 $\textbf{Model example: } GG2510DS\text{-}BA\underline{S}R\text{-}1520X1394\text{-}C5F$

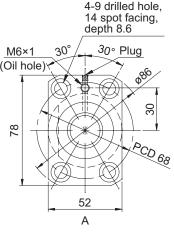
Wiper material S: LUBSEAL

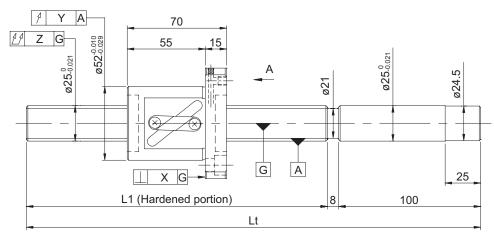
	Accuracy of each part					que (N·cm)	Mass
Χ	Υ	Z	UV		Without clearance	With clearance	(kg)
0.013	0.019	0.100	0.013	0.005	10.0 to 38.0	Up to 4.0	4.40
0.013	0.019	0.130	0.013			Up to 6.0	6.08
0.040	0.020	0.150					4.40
0.018	0.030	0.190					

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		25 - 20	
Number of circuits /	1.5 turns 1 circuit /		
Thread direction		Right-hand	l
Ball diameter (mm)		4.7625	
Root diameter (mm)		21.0	
Series	G	G	GE
Basic dynamic load rating C (N)	10400		
Basic static load rating C0 (N)	20100		
Accuracy grade /	C5 / S	C5 / F	C7 / M
Axial clearance symbol	0373	C3 / F	C7 / WI
Axial clearance (mm)	0	0.005 or less	0.030 or less
Preload torque (N·cm)	6.0 to 28.0	Up to 6.0	
Spacer ball		None	
Recirculation system	Tube method		
Wiper	Lip seal		
Lubricant	Alva	nia Grease	e S2

GG (Ground C5) / GE (Ground C7) / GK (Whirled C5)





	Model No.	Screw shaft length		Maximum stroke Le		ead accuracy	
	(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε。	e _c	e ₃₀₀
(GG2520AS-BALR-1020A	912	1020	842	0.040	0.027	0.018
(GG2520AS-BALR-1520A	1412	1520	1342	0.054	0.035	0.018
(GE2520AS-BALR-1020A	912	1020	842	0.05/200		
(GE2520AS-BALR-1520A	1412	1520	1342	0.05/300	0/300	

- · Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

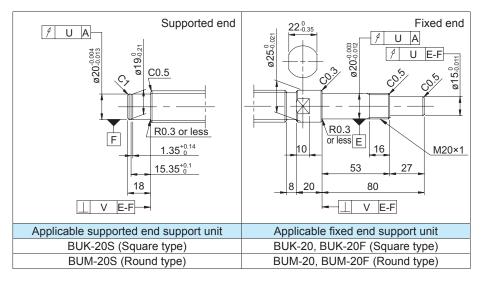
Standard precision ball screws are available with KURODA's recommended shaft end finish

Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) → Finished shaft ends

GG2520AS-BALR-1520A → GG2520AS-BALR-1520X1394-C5F

→Thread length →Overall screw shaft length



Optional specifications

· Ball screw lubricating unit LUBSEAL can be equipped.

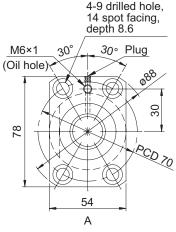
Model example: GG2520AS-BASR-1520X1394-C5F

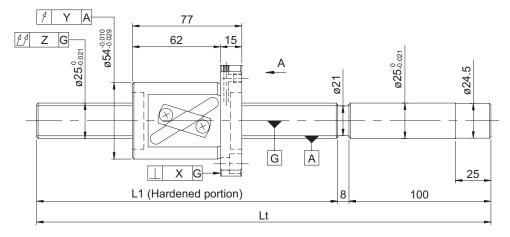
Wiper material S: LUBSEAL

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
X	Υ	Z	U	V	Without clearance	With clearance	(kg)
0.013	0.019	0.100	0.013	0.005	6.0 to 28.0	Up to 4.0	4.71
0.013	0.019	0.130	0.013	0.005	0.0 10 20.0	Up to 6.0	6.53
0.018	0.020	0.150					4.71
0.018	0.030	0.190					6.53

- · At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied. Before and during use, apply lubricant where appropriate.
- For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.

Shaft diameter (mm) - Lead (mm)		25 - 25	
Number of circuits /	1.5	turns 1 circ	cuit /
Thread direction		Right-hand	I
Ball diameter (mm)		4.7625	
Root diameter (mm)		21.0	
Series	G	G	GE
Basic dynamic load rating C (N)		10400	
Basic static load rating C0 (N)		20100	
Accuracy grade / Axial clearance symbol	C5 / S	C5 / F	C7 / M
Axial clearance (mm)	0	0.005 or less	0.030 or less
Preload torque (N·cm)	7.0 to 31.0	Up to 6.0	
Spacer ball		None	·
Recirculation system	Т	ube metho	d
Wiper		Lip seal	
Lubricant	Alva	nia Grease	e S2





Model No.	Screw sh	aft length	Maximum stroke	Le	ead accura	су
(Unfinished shaft ends)	L1	Lt	(L1 - nut length)	±Ε _c	e _c	e ₃₀₀
GG2525AS-BALR-1020A	912	1020	835	0.040	0.027	0.018
GG2525AS-BALR-1520A	1412	1520	1335	0.054	0.035	0.016
GE2525AS-BALR-1020A	912	1020	835	0.05/200		
GE2525AS-BALR-1520A	1412	1520	1335	0.05/300		

- Product with axial clearance of 0.005 or less (F) shown may be partially preloaded.
- · Preload torque is a value before applying grease.

Shaft end finish type

Standard precision ball screws are available with KURODA's recommended shaft end finish types for each size.

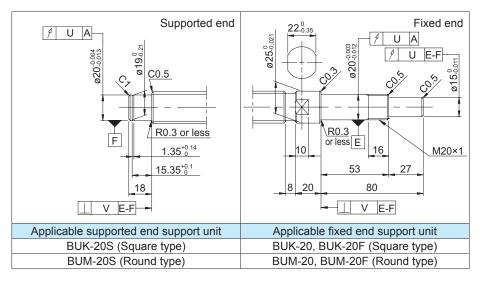
Other than KURODA's recommended shaft end finish types described below, additional machining including keyways, tapped holes, and D-cut processing are also available if requested. Please contact KURODA with your orders. Model examples for finished shaft ends are described below.

Model example: Unfinished shaft ends (See left figure) — Finished shaft ends

 $\textbf{Model example:} \ \, \textbf{Unfinished shaft ends (See left figure)} \ \to \ \, \textbf{Finished shaft ends}$

GG2525AS-BALR-1520A \rightarrow GG2525AS-BALR-1520X1394-C5F

→Thread length →Overall screw shaft length



Optional specifications

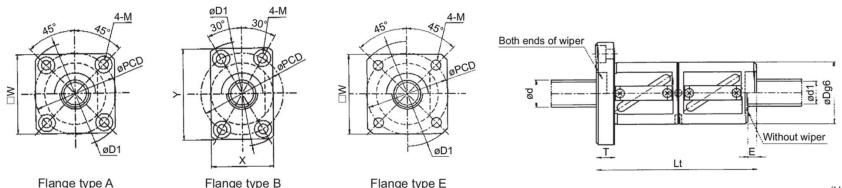
• Ball screw lubricating unit LUBSEAL can be equipped.

Model example: GG2525AS-BASR-1520X1394-C5F

└Wiper material S: LUBSEAL

	Accur	acy of eac	h part		Preload tor	que (N·cm)	Mass
Х	Υ	Z	U	V	Without clearance	With clearance	(kg)
0.013	0.019	0.100	0.013	0.005	7.0 to 31.0	Up to 4.0	4.93
0.013	0.019	0.130	0.013	0.005	7.0 10 31.0	Up to 6.0	6.77
0.019	0.020	0.150					4.93
0.018	0.030	0.190					6.77

- At the time of delivery, grease is inserted inside of the nut, with rust-preventive oil also applied.
 Before and during use, apply lubricant where appropriate.
- · For models with lead accuracy grade of C3 or higher and unfinished shaft ends, consult KURODA.



Flange type A Flange type B Flange type E	
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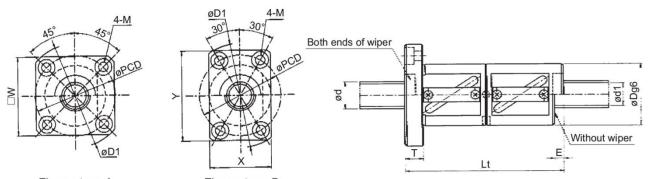
	Screw	Lead	Ball	Root	Number	Basic	Basic	*Rigidity									Nut	dimen	sions				222				M	ass
Model No.	shaft		diameter	diameter	of circuits	dynamic	static		Outer	Overall	Wiper	Without	Flange	Flange	Elango			Flan	ge dir	nensio	ns			Mount	ing hole		IVI	155
Model No.	diameter d	L	D₀	d ₁	Turn x Circuit	load rating C (N)	load rating C₀ (N)	(N/µm)	diameter D	length L	material	wiper	thickness T	outer diameter	Flange type	W	Х	Υ	Α	В	G	Q	PCD	Drill	M Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR0802DD-AAFR	8	2	1.5875	6.6	2.5×1	1950	2600	100	20	54	F	3	5	36	Α	28	_	_	_	_	_	_	27	3.4	6.5	3.3	0.12	0.04
GR082FDD-AAFR	8	2.5	2.0000	6.3	2.5×1	2350	3300	100	22	54	F	2	5	38	A	29	_		_		_		29	3.4	6.5	3.3	0.12	0.04
GR0803DD-AAFR	8	3	2.0000	6.3	2.5×1	2350	3300	100	22	54	F	3	5	38	A	29	_	_	_	_	_		29	3.4	6.5	3.3	0.14	0.04
GR0804DD-AAFR	8	4	2.0000	6.3	2.5×1	2350	3300	100	22	54	F	3	5	38	A	29	_	_	_	_	_	_	29	3.4	6.5	3.3	0.14	0.04
GR1002DD-EAFR	10	2	1.5875	8.6	2.5×1	2250	3300	120	23	54	F	3	5	40	E	31	_	_	_	_		_	31	4.5	-	_	0.15	0.04
GR102FDD-AAFR	10	2.5	2.0000	8.3	2.5×1	2700	4200	120	24	60	F	5	8	43	A	33	_	_	_	_	_	_	32	4.5	8	4.4	0.19	0.06
GR1003DD-AAPR	10	3	2.0000	8.3	2.5×1	2700	4200	120	24	60	P	6	8	43	A	33	_	_	_	_	_	_	32	4.5	8	4.4	0.19	0.06
GR1004DD-AAPR	10	4	2.3812	8.1	2.5×1	3350	5900	120	26	65	P	3	8	45	A	35		_	_	_	_	_	34	4.5	8	4.4	0.13	0.06
GR1004DD-BAPR	10	4	2.3812	8.1	2.5×1	3350	5900	120	26	65	Р	3	8	46	В	_	28	42				_	36	4.5	8	4.4	0.24	0.06
GR1005DD-AAPR	10	5	2.3812	8.1	2.5×1	3350	5900	120	26	70	Р	5	8	45	A	35	_	-	_		_		34	4.5	8	4.4	0.24	0.06
GR1005DD-BAPR	10	5	2.3812	8.1	2.5×1	3350	5900	120	26	70	Р	5	8		В	33	28	42					36	4.5	8	(10)21(2)		0.06
GR1202DD-AAPR			1.5875	1000		2 0000		177111	1000		P		-	46	_	-			_	_	_			10/5		4.4	0.26	(4,1,4,4,4,
	12	2		10.6	2.5×1	2450	4100	140	25	59		5	8	44	Α	34	_	_	_		_	_	33	4.5	8	4.4	0.20	0.09
GR122FDD-AAPR	12	2.5	2.0000	10.3	2.5×1	2950	5100	140	26	59	P	4	8	45	Α	35	_	-	_		_	9-0	34	4.5	8	4.4	0.21	0.09
GR1203DD-AAPR	12	3	2.0000	10.3	2.5×1	2950	5100	140	26	59	Р	5	8	45	Α	35	-	-	-	-	-	-	34	4.5	8	4.4	0.21	0.09
GR1204DD-AALR	12	4	2.3812	10.1	2.5×1	3600	6750	140	30	69	L	5	10	54	Α	41	_	_	-	-	-	_	41	5.5	9.5	5.4	0.36	0.09
GR1205DD-AALR	12	5	3.1750	9.5	2.5×1	5950	9800	150	30	79	L	3	10	54	Α	41	_	-	-	_	_	_	41	5.5	9.5	5.4	0.39	0.09
GR1205DD-BALR	12	5	3.1750	9.5	2.5×1	5950	9800	150	30	79	L	3	10	50	В	-	32	45	-	-	-	5 — 5	40	4.5	8	4.4	0.37	0.09
GR1206DD-AAPR	12	6	3.1750	9.5	2.5×1	5950	9800	150	30	81	Р	3	10	54	Α	41	_	-	-	_	-	_	41	5.5	9.5	5.4	0.39	0.09
GR1206DD-BAPR	12	6	3.1750	9.5	2.5×1	5950	9800	150	30	81	Р	3	10	54	В	-	32	48	-	-	-	_	41	5.5	9.5	5.4	0.38	0.09

Note: • The rigidity indicated with the *mark in the above list represents the value applied to the axial load about 3 times or less of the preload, which is equivalent to 1/15 of basic dynamic load rating (C). It is the operational value based on the result of rigidity testing including the rigidity of the nut.



(Unit: mm)

[·] Wiper material F: Felt wiper, P: Plastic wiper, L: Lip seal



Flange type A

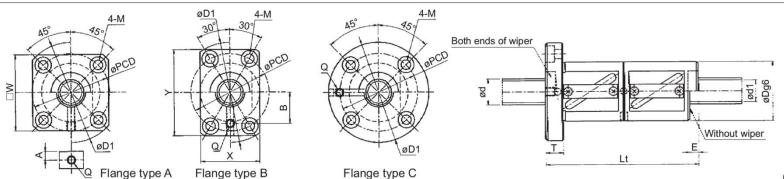
Flange type B

(Unit: mm)

	Screw	Lead	Ball	Root	Number	Basic	Basic												M	ass								
Model No.	shaft		diameter	diamete	of circuits	dynamic	static	,	Outer	Overall	Wiper	Without	Flange	Flange	Elongo			Flar	ige dir	nensio	ns			Mount	ing hole		IVIC	155
Wiodel No.	diameter d	,	D _b	d ₁	Turn x Circuit	load rating C (N)	load rating C₀ (N)	(N/um)	diameter		material		thickness	diameter	Flange type	W	Х	Υ	Α	В	G	Q	PCD		М			Screw shaft
	u	_	Dδ	U ₁	Circuit		C ₀ (IV)	(N/µm)	D	Lı		Е		D ₁	***	25050	20.5		393					Drill	Spot facing	Depth	(kg)	(kg/100mm)
GR1502DD-AAPR	15	2	1.5875	13.6	2.5×1	2700	5500	180	30	61	Р	5	10	54	Α	41	1-	_	a.—.a	_	:::	-	41	5.5	9.5	5.4	0.30	0.14
GR1502DD-BAPR	15	2	1.5875	13.6	2.5×1	2700	5500	180	30	61	Р	5	10	54	В	_	32	48	-	_	-	_	41	5.5	9.5	5.4	0.29	0.14
GR152FDD-AAPR	15	2.5	2.0000	13.3	2.5×1	3400	6500	180	30	61	Р	4	10	54	Α	41	-	_	_	_	-	_	41	5.5	9.5	5.4	0.30	0.14
GR152FDD-BAPR	15	2.5	2.0000	13.3	2.5×1	3400	6500	180	30	61	Р	4	10	54	В	_	32	48	_	_	_	_	41	5.5	9.5	5.4	0.29	0.14
GR1503DD-AAPR	15	3	2.0000	13.3	2.5×1	3400	6500	180	30	61	Р	5	10	54	Α	41	_	-	_	-	_	-	41	5.5	9.5	5.4	0.30	0.14
GR1503DD-BAPR	15	3	2.0000	13.3	2.5×1	3400	6500	180	30	61	Р	5	10	54	В	_	32	48	_	-	_	-	41	5.5	9.5	5.4	0.29	0.14
GR1504DD-AALR	15	4	2.3812	13.1	2.5×1	4100	8550	180	32	73	L	3	10	56	Α	43	1-	-	_	_	1 - 1	_	43	5.5	9.5	5.4	0.39	0.14
GR1504DD-BALR	15	4	2.3812	13.1	2.5×1	4100	8550	180	32	73	L	3	10	56	В	-	32	48	-	-	_	_	43	5.5	9.5	5.4	0.37	0.14
GR1505DD-AALR	15	5	3.1750	12.5	2.5×1	6900	12500	190	34	79	L	3	10	58	Α	44	1-	-		-	1-1	-	45	5.5	9.5	5.4	0.46	0.14
GR1505DD-BALR	15	5	3.1750	12.5	2.5×1	6900	12500	190	34	79	L	3	10	58	В	-	34	50	_	-	_	_	45	5.5	9.5	5.4	0.45	0.14
GR1506DD-AAPR	15	6	3.1750	12.5	2.5×1	6900	12500	190	34	81	Р	3	10	58	Α	44	_	-	-	-	-	-	45	5.5	9.5	5.4	0.47	0.14
GR1506DD-BAPR	15	6	3.1750	12.5	2.5×1	6900	12500	190	34	81	Р	3	10	58	В	-	34	50	-	-	_	-	45	5.5	9.5	5.4	0.45	0.14
GR1604DD-AAPR	16	4	2.3812	14.1	2.5×1	4200	9000	190	34	73	Р	3	10	58	Α	44	-	_	1-1	-	2.—.2	_	45	5.5	9.5	5.4	0.43	0.16
GR1604DD-BAPR	16	4	2.3812	14.1	2.5×1	4200	9000	190	34	73	Р	3	10	58	В	_	34	50	-	_	_	-	45	5.5	9.5	5.4	0.42	0.16
GR1605DD-AALR	16	5	3.1750	13.5	2.5×1	7400	13900	200	36	79	L	3	10	59	Α	46	1-	_	-	_	1-1	_	47	5.5	9.5	5.4	0.52	0.16
GR1605DD-BALR	16	5	3.1750	13.5	2.5×1	7400	13900	200	36	79	L	3	10	59	В	-	36	53	_	-	_	_	47	5.5	9.5	5.4	0.50	0.16
GR1606DD-AAPR	16	6	3.1750	13.5	2.5×1	7400	13900	200	36	81	Р	3	10	59	Α	46	-	_	_	_	_	_	47	5.5	9.5	5.4	0.53	0.16
GR1606DD-BAPR	16	6	3.1750	13.5	2.5×1	7400	13900	200	36	81	Р	3	10	59	В	_	36	53	-	_	—	_	47	5.5	9.5	5.4	0.51	0.16

Note: • The rigidity indicated with the *mark in the above list represents the value applied to the axial load about 3 times or less of the preload, which is equivalent to 1/15 of basic dynamic load rating (C). It is the operational value based on the result of rigidity testing including the rigidity of the nut.

[·] Wiper material P: Plastic wiper, L: Lip seal



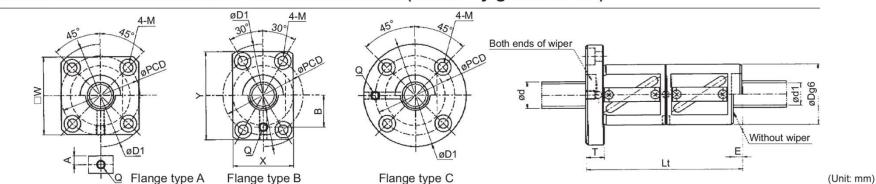
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	Screw	Lead	Ball	Root	Number	Basic	Basic	*Rigidity									Nut	dimen	sions								M	ass
Model No.	shaft		diameter		of	dynamic	static		Outer	Overall	Wiper	Without	Flange	Flange outer	Flance			Flan	ge dime	nsions				Mount	ng hole		IVI	ass
Woder No.	diameter d	L	D₀	d ₁	Turn x Circuit	load rating C (N)	load rating C₀ (N)	K _{NW} (N/µm)	diameter D	length	wiper material	wiper E	thickness T	outer diameter D ₁	Flange type	W	X	Υ	А	В	G	Q	PCD	Drill	M Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR202FDD-AAPR	20	2.5	2.0000	18.3	2.5×1	3800	8800	230	38	61	Р	4	10	62	Α	47	_	_	5	_	_	M6	49	5.5	9.5	5.4	0.43	0.25
GR202FDD-CAPR	20	2.5	2.0000	18.3	2.5×1	3800	8800	230	38	61	Р	4	10	62	С	_	_	_	_	_	_	M6	49	5.5	9.5	5.4	0.50	0.25
GR2004DD-AALR	20	4	2.3812	18.1	2.5×1	4700	11700	240	40	73	L	3	10	64	Α	49	_	_	5.5	_	_	M6	51	5.5	9.5	5.4	0.57	0.25
GR2004DD-CALR	20	4	2.3812	18.1	2.5×1	4700	11700	240	40	73	L	3	10	64	С	-	_	_	-	_	_	M6	51	5.5	9.5	5.4	0.63	0.25
GR2004ED-AALR	20	4	2.3812	18.1	2.5×2	8600	23400	440	40	89	L	3	10	64	Α	49	-	-	5.5	-	-	M6	51	5.5	9.5	5.4	0.67	0.25
GR2004ED-CALR	20	4	2.3812	18.1	2.5×2	8600	23400	440	40	89	L	3	10	64	С	-	_	-	-	_	-	M6	51	5.5	9.5	5.4	0.74	0.25
GR2005BD-AALR	20	5	3.1750	17.5	1.5×2	9800	21000	290	40	93	L	5	12	68	Α	52	_	-	7	_	-	M6	53	6.6	11	6.5	0.72	0.25
GR2005BD-CALR	20	5	3.1750	17.5	1.5×2	9800	21000	290	40	93	L	5	12	68	С	-	_	_	7-3	_	_	М6	53	6.6	11	6.5	0.80	0.25
GR2005DD-BALR	20	5	3.1750	17.5	2.5×1	8350	17500	240	40	83	L	5	12	68	В	· —	40	60	-	21	_	M6	53	6.6	11	6.5	0.63	0.25
GR2005DD-CALR	20	5	3.1750	17.5	2.5×1	8350	17500	240	40	83	L	5	12	68	С	-	_	-	-	-	-	M6	53	6.6	11	6.5	0.74	0.25
GR2005ED-AALR	20	5	3.1750	17.5	2.5×2	15150	35000	460	40	103	L	5	12	68	Α	52	_	_	7	_	-	M6	53	6.6	11	6.5	0.78	0.25
GR2005ED-CALR	20	5	3.1750	17.5	2.5×2	15150	35000	460	40	103	L	5	12	68	С	-	_	_	-	_	_	M6	53	6.6	11	6.5	0.87	0.25
GR2006BD-AAPR	20	6	3.9688	16.6	1.5×2	12900	25600	290	44	109	Р	5	12	72	Α	55	_	_	7	_	_	M6	57	6.6	11	6.5	1.02	0.25
GR2006BD-CAPR	20	6	3.9688	16.6	1.5×2	12900	25600	290	44	109	Р	5	12	72	С	_	-	_	(-)	_	_	M6	57	6.6	11	6.5	1.12	0.25
GR2006DD-AAPR	20	6	3.9688	16.6	2.5×1	11000	21300	240	44	85	Р	5	12	72	Α	55	-	_	7.5	-	-	M6	57	6.6	11	6.5	0.83	0.25
GR2006DD-CAPR	20	6	3.9688	16.6	2.5×1	11000	21300	240	44	85	Р	5	12	72	С	7	_	-	_	_	-	M6	57	6.6	11	6.5	0.92	0.25
GR2008DD-AAPR	20	8	4.7625	16	2.5×1	13500	25100	240	46	111	Р	5	15	74	Α	56	_	_	10	-	_	M6	59	6.6	11	6.5	1.16	0.25
GR2008DD-CAPR	20	8	4.7625	16	2.5×1	13500	25100	240	46	111	Р	5	15	74	С	_	_	_	_	_	_	M6	59	6.6	11	6.5	1.29	0.25
GR2010AD-AALR	20	10	4.7625	16	1.5×1	9200	16200	160	46	97	L	6	15	74	Α	56	_	_	10	-	_	M6	59	6.6	11	6.5	1.03	0.25
GR2010AD-BALR	20	10	4.7625	16	1.5×1	9200	16200	160	46	97	L	6	15	74	В	-	46	66	—	24	_	M6	59	6.6	11	6.5	1.02	0.25
GR2010DD-AALR	20	10	4.7625	16	2.5×1	13500	25100	240	46	115	L	6	15	74	Α	56	_	_	10	-	-	M6	59	6.6	11	6.5	1.19	0.25
GR2010DD-BALR	20	10	4.7625	16	2.5×1	13500	25100	240	46	115	L	6	15	74	В	-	46	66	·	24	-	M6	59	6.6	11	6.5	1.18	0.25

Note: • The rigidity indicated with the *mark in the above list represents the value applied to the axial load about 3 times or less of the preload, which is equivalent to 1/15 of basic dynamic load rating (C). It is the operational value based on the result of rigidity testing including the rigidity of the nut.



[·] Wiper material P: Plastic wiper, L: Lip seal



	Screw	Lead	Ball	Root	Number	Basic	Basic	*Rigidity									Nut	dimer	nsions									ass
Model No.	shaft		diameter		-6	dynamic	static		Outer	Overall	NAC	Without	Flange	Flange	- 1			Flar	nge dime	nsions	3			Mount	ing hole		IVIč	ass
Model No.	diameter				Turn x	load rating	load rating	Kww	diameter	length	Wiper material	wiper	thickness	outer diameter	Flange type	W	Х	Υ	٨	В	G	Q	PCD		М		Nut	Screw shaft
	d	L	D₀	d ₁	Circuit	C (N)	C₀ (N)	(N/µm)	D	Lı	material	Е	Т	D ₁	type	VV	^	'	7	В	0	Q	FCD	Drill	Spot facing	Depth	(kg)	(kg/100mm)
GR2504DD-AAPR	25	4	2.3812	23.1	2.5×1	5200	14400	280	46	75	Р	3	12	74	Α	56	-	_	7.5	-	_	M6	59	6.6	11	6.5	0.75	0.38
GR2504DD-CAPR	25	4	2.3812	23.1	2.5×1	5200	14400	280	46	75	Р	3	12	74	С	_	-	-	-	_	_	M6	59	6.6	11	6.5	0.86	0.38
GR2504ED-AAPR	25	4	2.3812	23.1	2.5×2	9400	28800	520	46	99	Р	3	12	74	Α	56	_	_	7	_	_	M6	59	6.6	11	6.5	0.94	0.38
GR2504ED-CAPR	25	4	2.3812	23.1	2.5×2	9400	28800	520	46	99	Р	3	12	74	С	_	-	_	_	_	_	M6	59	6.6	11	6.5	1.05	0.38
GR2505BD-AALR	25	5	3.1750	22.5	1.5×2	11000	26600	350	47	93	L	5	12	74	Α	57	_	_	7	_	_	M6	60	6.6	11	6.5	0.92	0.38
GR2505BD-CALR	25	5	3.1750	22.5	1.5×2	11000	26600	350	47	93	L	5	12	74	С	_	_	_	_	_	_	M6	60	6.6	11	6.5	1.02	0.38
GR2505DD-AALR	25	5	3.1750	22.5	2.5×1	9400	22200	300	47	83	L	5	12	74	Α	57	-	_	7.5	_	-	M6	60	6.6	11	6.5	0.84	0.38
GR2505DD-CALR	25	5	3.1750	22.5	2.5×1	9400	22200	300	47	83	L	5	12	74	С	-	_	-	_	_	_	M6	60	6.6	11	6.5	0.93	0.38
GR2505ED-AALR	25	5	3.1750	22.5	2.5×2	17000	44400	560	47	103	L	5	12	74	Α	57	_	-	7.5		-	M6	60	6.6	11	6.5	1.00	0.38
GR2505ED-CALR	25	5	3.1750	22.5	2.5×2	17000	44400	560	47	103	L	5	12	74	С	11 11	-	-	-	_	_	M6	60	6.6	11	6.5	1.10	0.38
GR2506BD-AALR	25	6	3.9688	21.6	1.5×2	14700	32400	360	50	109	L	5	12	78	Α	59	_	-	7.5	1-	-	M6	63	6.6	11	6.5	1.21	0.38
GR2506BD-CALR	25	6	3.9688	21.6	1.5×2	14700	32400	360	50	109	L	5	12	78	С	-	_	-	_	-	-	M6	63	6.6	11	6.5	1.34	0.38
GR2506DD-AALR	25	6	3.9688	21.6	2.5×1	12500	27000	300	50	85	L	5	12	78	Α	59	_	-	7.5	1-		M6	63	6.6	11	6.5	0.98	0.38
GR2506DD-CALR	25	6	3.9688	21.6	2.5×1	12500	27000	300	50	85	L	5	12	78	С	-	_	_	_	_	_	M6	63	6.6	11	6.5	1.10	0.38
GR2506ED-AALR	25	6	3.9688	21.6	2.5×2	22700	54000	560	50	121	L	5	12	78	Α	59	-	-	7.5	1-	-	M6	63	6.6	11	6.5	1.33	0.38
GR2506ED-CALR	25	6	3.9688	21.6	2.5×2	22700	54000	560	50	121	L	5	12	78	С	-	_	_	_	_	_	M6	63	6.6	11	6.5	1.45	0.38
GR2508DD-AAPR	25	8	4.7625	21	2.5×1	16100	33400	310	52	111	Р	5	15	86	Α	66	-	-	10	-		M6	68	9	14	8.6	1.45	0.38
GR2508DD-CAPR	25	8	4.7625	21	2.5×1	16100	33400	310	52	111	Р	5	15	86	С	-	_	-	-	_	-	M6	68	9	14	8.6	1.62	0.38
GR2508GD-AAPR	25	8	4.7625	21	3.5×1	21400	46800	420	52	113	Р	6	15	86	Α	66	_	_	10	1-	_	M6	68	9	14	8.6	1.47	0.38
GR2508GD-CAPR	25	8	4.7625	21	3.5×1	21400	46800	420	52	113	Р	6	15	86	С		_	_	_	_	_	M6	68	9	14	8.6	1.64	0.38
GR2510DD-AALR	25	10	4.7625	21	2.5×1	16100	33400	310	52	115	L	6	15	86	Α	66	_	1-	10	-	-	M6	68	9	14	8.6	1.50	0.38
GR2510DD-BALR	25	10	4.7625	21	2.5×1	16100	33400	310	52	115	L	6	15	86	В	-	52	78	_	30	_	M6	68	9	14	8.6	1.46	0.38
GR2510GD-AALR	25	10	4.7625	21	3.5×1	21400	46800	420	52	135	L	6	15	86	Α	66	_	1	10	1	-	M6	68	9	14	8.6	1.71	0.38
GR2510GD-BALR	25	10	4.7625	21	3.5×1	21400	46800	420	52	135	L	6	15	86	В	—	52	78	_	30	_	M6	68	9	14	8.6	1.68	0.38

Note: • The rigidity indicated with the *mark in the above list represents the value applied to the axial load about 3 times or less of the preload, which is equivalent to 1/15 of basic dynamic load rating (C). It is the operational value based on the result of rigidity testing including the rigidity of the nut.



[·] Wiper material P: Plastic wiper, L: Lip seal