

Custom ball screws

Features

- **Various screw shaft diameters and leads are available for your selection**
 - An optimal size can be selected from a variety of standardized screw shaft diameters and leads, eliminating unnecessary compromise in size selection.
- **Nut types suited for the mounting configuration are available for your selection**
 - Nut types such as the flange type and square type are available for your selection.
- **The preloading methods according to the equipment specifications are available for your selection**
 - The preloading methods can be selected from nut types including single nuts, integral nuts, and double nuts.

□ Summary of the specifications

Screw shaft diameter	ø5 to ø125 mm
Lead	1 to 50 mm
Accuracy grade	C0-C10 grade
Axial clearance	0 to 0.2 mm
Screw shaft type	Free design Consult KURODA regarding your desired specifications.
Surface treatment	Consult KURODA regarding anticorrosive black coating and various coating types.
Material	Consult KURODA regarding standard materials and stainless steel materials.
Product line	Custom product

□ Model numbers of each series

	Series	Shaft diameter	Lead	Number of circuits	Combination		Flange type	Ball recirculation system	Wiper material	Thread direction		Overall screw shaft length	Shaft end type	Thread length		Accuracy grade	Axial clearance
Example model numbers	FR	15	10	P	S	-	H	P	N	R	-	0900	X	0840	-	C5	F
	FR	10 to 40	5 to 16									To be shown with a 4-digit number in metric units (mm)	X	To be shown with a 4-digit number in metric units (mm)		See specifications.	See specifications.
	GR	5 to 125	1 to 50				See specifications.	See specifications.	See specifications.	See specifications.			X				
	DR	6 to 50	1 to 10										X				

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

□ Screw shaft diameter and lead combinations

Size line-up of custom ball screws

		Lead (mm)																				
		1	1.5	2	2.5	3	4	5	6	8	10	12	15	16	20	24	25	30	32	40	50	
Screw shaft diameter (mm)	5	G																				
	6	D																				
	8	D	G	DG	G	G	G		G	G												
	10	G	G	DG	G	G	G	G			FG											
	12			DG	G	DG	G	G	G		FG				FG							
	14						D															
	15			G	G	G	G	FG	G	G	FG		G	G	FG		G	F				
	16						G	DG	G					G								
	20				G		G	DG	G	G	DFG				FG		G		G			
	25						G	FG	G	FG	FG				G		FG			G		
	28							G			G				G							
	32						G	FG	G	FG	FG	FG		F	G				G			
	36							G	G	G	G	FG		F	G	G						
	40							G	G	FG	FG	FG		FG	G				G	G		
	45							G	G	G	G	G			G							
	50							G	G	G	G	G		G	G					G	G	
	55									G	G	G		G	G							
	63								G	G	G	G		G	G							
	70										G	G		G	G							
	80										G	G		G	G							
100											G		G	G								
125														G	G							

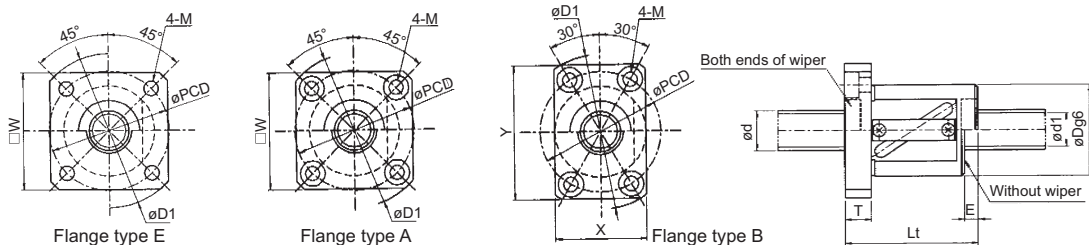
D: D series (Compact, deflector recirculation method)

G: G series (General, tube recirculation method)

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

* Combinations of shaft diameters and leads not described here are also available for the G series.
Consult KURODA for more information.

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)

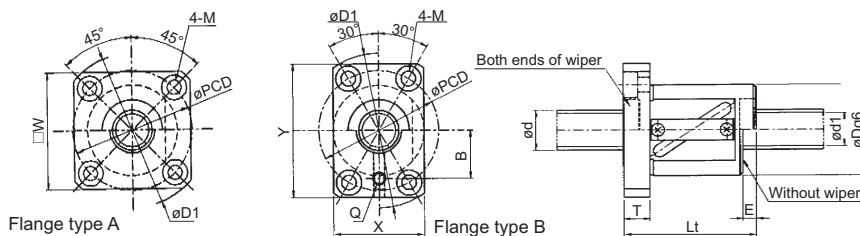


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR1001JS-EDNR	10	1	0.8000	9.3	1×3	750	1750	70	19	22	N	—	5	36	E	29	—	—	—	—	—	—	27	4.5	—	—	0.05	0.06
GR101FDS-EAFR	10	1.5	1.0000	9.1	2.5×1	850	2300	60	19	24	F	5	5	36	E	29	—	—	—	—	—	—	27	4.5	—	—	0.06	0.06
GR1002DS-EAFR	10	2	1.5875	8.6	2.5×1	2250	3300	70	23	30	F	3	5	40	E	31	—	—	—	—	—	—	31	4.5	—	—	0.09	0.06
GR102FDS-AAFR	10	2.5	2.0000	8.3	2.5×1	2700	4200	70	24	35	F	5	8	43	A	33	—	—	—	—	—	—	32	4.5	8	4.4	0.13	0.06
GR1003DS-AAPR	10	3	2.0000	8.3	2.5×1	2700	4200	70	24	36	P	6	8	43	A	33	—	—	—	—	—	—	32	4.5	8	4.4	0.13	0.06
GR1004DS-AAPR	10	4	2.3812	8.1	2.5×1	3350	5900	75	26	37	P	3	8	45	A	35	—	—	—	—	—	—	34	4.5	8	4.4	0.16	0.06
GR1004DS-BAPR	10	4	2.3812	8.1	2.5×1	3350	5900	75	26	37	P	3	8	46	B	—	28	42	—	—	—	—	36	4.5	8	4.4	0.15	0.06
GR1005DS-AAPR	10	5	2.3812	8.1	2.5×1	3350	5900	75	26	40	P	5	8	45	A	35	—	—	—	—	—	—	34	4.5	8	4.4	0.17	0.06
GR1005DS-BAPR	10	5	2.3812	8.1	2.5×1	3350	5900	75	26	40	P	5	8	46	B	—	28	42	—	—	—	—	36	4.5	8	4.4	0.16	0.06
GR1010AS-AAPR	10	10	2.3812	8.1	1.5×1	2200	3500	50	28	40	P	6	8	47	A	36	—	—	—	—	—	—	36	4.5	8	4.4	0.19	0.06
GR1010AS-BAPR	10	10	2.3812	8.1	1.5×1	2200	3500	50	28	40	P	6	8	47	B	—	30	45	—	—	—	—	36	4.5	8	4.4	0.20	0.06
GR1202DS-AAPR	12	2	1.5875	10.6	2.5×1	2450	4100	85	25	35	P	5	8	44	A	34	—	—	—	—	—	—	33	4.5	8	4.4	0.13	0.09
GR122FDS-AAPR	12	2.5	2.0000	10.3	2.5×1	2950	5100	85	26	34	P	4	8	45	A	35	—	—	—	—	—	—	34	4.5	8	4.4	0.14	0.09
GR1203DS-AAPR	12	3	2.0000	10.3	2.5×1	2950	5100	85	26	35	P	5	8	45	A	35	—	—	—	—	—	—	34	4.5	8	4.4	0.14	0.09
GR1204DS-AALR	12	4	2.3812	10.1	2.5×1	3600	6750	85	30	41	L	5	10	54	A	41	—	—	—	—	—	—	41	5.5	9.5	5.4	0.25	0.09
GR1205DS-AALR	12	5	3.1750	9.5	2.5×1	5950	9800	90	30	44	L	3	10	54	A	41	—	—	—	—	—	—	41	5.5	9.5	5.4	0.25	0.09
GR1205DS-BALR	12	5	3.1750	9.5	2.5×1	5950	9800	90	30	44	L	3	10	50	B	—	32	45	—	—	—	—	40	4.5	8	4.4	0.23	0.09
GR1206DS-AAPR	12	6	3.1750	9.5	2.5×1	5950	9800	90	30	45	P	3	10	54	A	41	—	—	—	—	—	—	41	5.5	9.5	5.4	0.25	0.09
GR1206DS-BAPR	12	6	3.1750	9.5	2.5×1	5950	9800	90	30	45	P	3	10	54	B	—	32	48	—	—	—	—	41	5.5	9.5	5.4	0.24	0.09
GR1210AS-AALR	12	10	3.1750	9.5	1.5×1	3850	5900	60	30	49	L	7	12	54	A	41	—	—	—	—	—	—	41	5.5	9.5	5.4	0.28	0.09
GR1210AS-BALR	12	10	3.1750	9.5	1.5×1	3850	5900	60	30	49	L	7	12	54	B	—	32	48	—	—	—	—	41	5.5	9.5	5.4	0.27	0.09
GR1220AS-AALR	12	20	3.1750	9.5	1.5×1	3850	5900	60	32	68	L	7	12	56	A	43	—	—	—	—	—	—	43	5.5	9.5	5.4	0.42	0.09
GR1220AS-BALR	12	20	3.1750	9.5	1.5×1	3850	5900	60	32	68	L	7	12	56	B	—	32	48	—	—	—	—	43	5.5	9.5	5.4	0.39	0.09

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material F: Felt wiper, P: Plastic wiper, L: Lip seal, N: Without wiper

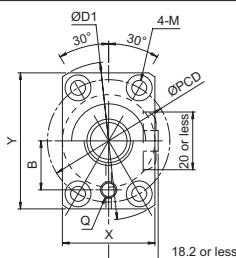
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



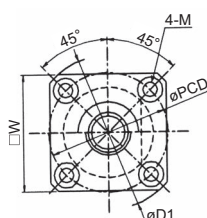
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																		Mass		
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M					
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)	
GR1502DS-AAPR	15	2	1.5875	13.6	2.5x1	2700	5500	100	30	37	P	5	10	54	A	41	—	—	—	—	—	—	41	5.5	9.5	5.4	0.21	0.14	
GR1502DS-BAPR	15	2	1.5875	13.6	2.5x1	2700	5500	100	30	37	P	5	10	54	B	—	32	48	—	18	—	—	M6	41	5.5	9.5	5.4	0.20	0.14
GR152FDS-AAPR	15	2.5	2.0000	13.3	2.5x1	3400	6500	100	30	36	P	4	10	54	A	41	—	—	—	—	—	—	41	5.5	9.5	5.4	0.21	0.14	
GR152FDS-BAPR	15	2.5	2.0000	13.3	2.5x1	3400	6500	100	30	36	P	4	10	54	B	—	32	48	—	—	—	—	41	5.5	9.5	5.4	0.20	0.14	
GR1503DS-AAPR	15	3	2.0000	13.3	2.5x1	3400	6500	100	30	37	P	5	10	54	A	41	—	—	—	—	—	—	41	5.5	9.5	5.4	0.21	0.14	
GR1503DS-BAPR	15	3	2.0000	13.3	2.5x1	3400	6500	100	30	37	P	5	10	54	B	—	32	48	—	—	—	—	41	5.5	9.5	5.4	0.20	0.14	
GR1504DS-AALR	15	4	2.3812	13.1	2.5x1	4100	8550	100	32	41	L	3	10	56	A	43	—	—	—	—	—	—	43	5.5	9.5	5.4	0.26	0.14	
GR1504DS-BALR	15	4	2.3812	13.1	2.5x1	4100	8550	100	32	41	L	3	10	56	B	—	32	48	—	18	—	—	M6	43	5.5	9.5	5.4	0.23	0.14
GR1505DS-AALR	15	5	3.1750	12.5	2.5x1	6900	12500	110	34	44	L	3	10	58	A	44	—	—	—	—	—	—	45	5.5	9.5	5.4	0.29	0.14	
GR1505DS-BALR	15	5	3.1750	12.5	2.5x1	6900	12500	110	34	44	L	3	10	58	B	—	34	50	—	18	—	—	M6	45	5.5	9.5	5.4	0.28	0.14
GR1506DS-AAPR	15	6	3.1750	12.5	2.5x1	6900	12500	110	34	45	P	3	10	58	A	44	—	—	—	—	—	—	45	5.5	9.5	5.4	0.30	0.14	
GR1506DS-BAPR	15	6	3.1750	12.5	2.5x1	6900	12500	110	34	45	P	3	10	58	B	—	34	50	—	—	—	—	45	5.5	9.5	5.4	0.28	0.14	
GR1508DS-AAFR	15	8	3.1750	12.5	2.5x1	6900	12500	110	34	52	F	7	12	58	A	44	—	—	—	—	—	—	45	5.5	9.5	5.4	0.35	0.14	
GR1508DS-BAFR	15	8	3.1750	12.5	2.5x1	6900	12500	110	34	52	F	7	12	58	B	—	34	50	—	—	—	—	45	5.5	9.5	5.4	0.33	0.14	
GR1510AS-AALR	15	10	3.1750	12.5	1.5x1	4400	7900	70	34	52	L	7	12	58	A	44	—	—	—	—	—	—	45	6	9.5	6	0.35	0.14	
GR1510AS-BALR	15	10	3.1750	12.5	1.5x1	4400	7900	70	34	52	L	7	12	58	B	—	34	50	—	18	—	—	M6	45	6	9.5	6	0.33	0.14
GR1510DS-AALR	15	10	3.1750	12.5	2.5x1	6900	12500	110	34	52	L	5	12	58	A	44	—	—	—	—	—	—	45	5.5	9.5	5.4	0.35	0.14	
GR1510DS-BALR	15	10	3.1750	12.5	2.5x1	6900	12500	110	34	52	L	5	12	58	B	—	34	50	—	18	—	—	M6	45	5.5	9.5	5.4	0.33	0.14
GR1515AS-AALR	15	15	3.1750	12.5	1.5x1	4400	7900	70	34	54	L	5	12	58	A	44	—	—	—	—	—	—	45	5.5	9.5	5.4	0.36	0.14	
GR1515AS-BALR	15	15	3.1750	12.5	1.5x1	4400	7900	70	34	54	L	5	12	58	B	—	34	50	—	18	—	—	M6	45	5.5	9.5	5.4	0.34	0.14
GR1516AS-AAFR	15	16	3.1750	12.5	1.5x1	4400	7900	70	34	56	F	7	12	58	A	44	—	—	—	—	—	—	45	5.5	9.5	5.4	0.37	0.14	
GR1516AS-BAFR	15	16	3.1750	12.5	1.5x1	4400	7900	70	34	56	F	7	12	58	B	—	34	50	—	—	—	—	45	5.5	9.5	5.4	0.35	0.14	
GR1520AS-AALR	15	20	3.1750	12.5	1.5x1	4400	7900	70	34	62	L	7	12	58	A	44	—	—	—	—	—	—	45	6	9.5	6	0.40	0.14	
GR1520AS-BALR	15	20	3.1750	12.5	1.5x1	4400	7900	70	34	62	L	7	12	58	B	—	34	50	—	18	—	—	M6	45	6	9.5	6	0.38	0.14
GR1525AS-AALR	15	25	3.1750	12.5	1.5x1	4400	7900	70	36	76	L	7	12	59	A	46	—	—	—	—	—	—	47	5.5	9.5	5.4	0.54	0.14	
GR1525AS-BALR	15	25	3.1750	12.5	1.5x1	4400	7900	70	36	76	L	7	12	59	B	—	36	53	—	—	—	—	47	5.5	9.5	5.4	0.52	0.14	

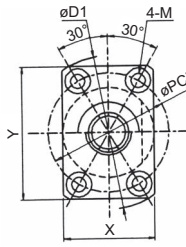
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



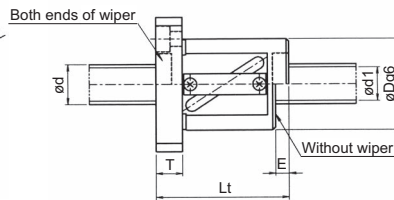
GR1616AS-BTLR



Flange type A



Flange type B

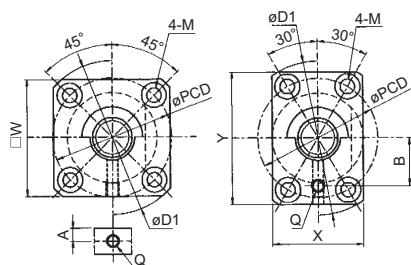


(Unit: mm)

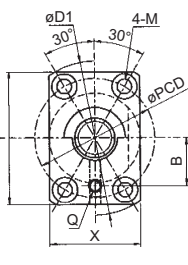
Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	Rigidity K _{ts} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR1604DS-AAPR	16	4	2.3812	14.1	2.5×1	4200	9000	110	34	41	P	3	10	58	A	44	—	—	—	—	—	—	45	5.5	9.5	5.4	0.28	0.16
GR1604DS-BAPR	16	4	2.3812	14.1	2.5×1	4200	9000	110	34	41	P	3	10	58	B	—	34	50	—	—	—	—	45	5.5	9.5	5.4	0.26	0.16
GR1605DS-AALR	16	5	3.1750	13.5	2.5×1	7400	13900	110	36	44	L	3	10	59	A	46	—	—	—	—	—	—	47	5.5	9.5	5.4	0.33	0.16
GR1605DS-BALR	16	5	3.1750	13.5	2.5×1	7400	13900	110	36	44	L	3	10	59	B	—	36	53	—	—	—	—	47	5.5	9.5	5.4	0.31	0.16
GR1606DS-AAPR	16	6	3.1750	13.5	2.5×1	7400	13900	110	36	45	P	3	10	59	A	46	—	—	—	—	—	—	47	5.5	9.5	5.4	0.33	0.16
GR1606DS-BAPR	16	6	3.1750	13.5	2.5×1	7400	13900	110	36	45	P	3	10	59	B	—	36	53	—	—	—	—	47	5.5	9.5	5.4	0.32	0.16
GR1616AS-AALR	16	16	3.1750	13.5	1.5×1	4750	8300	80	36	54	L	3	12	59	A	46	—	—	—	—	—	—	47	5.5	9.5	5.4	0.40	0.16
GR1616AS-BALR	16	16	3.1750	13.5	1.5×1	4750	8300	80	36	54	L	3	12	59	B	—	36	53	—	—	—	—	47	5.5	9.5	5.4	0.38	0.16
GR1616AS-BTLR	16	16	3.1750	13.5	1.5×1	4750	8300	80	34	54	L	3	12	58	B	—	34	50	—	—	—	—	45	5.5	9.5	5.4	0.31	0.16

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper, L: Lip seal

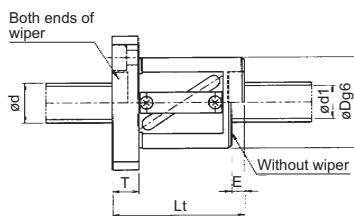
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type A



Flange type B



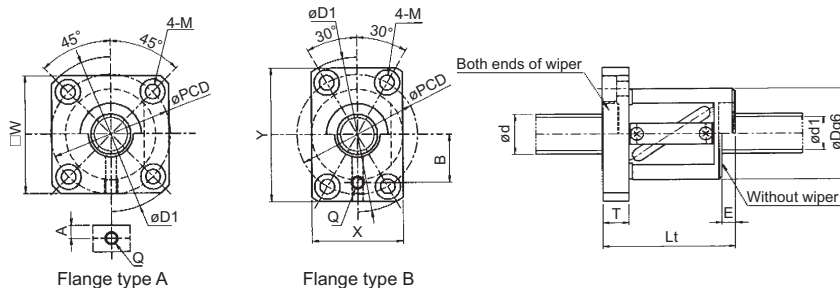
Flange type C

(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR202FDS-AAPR	20	2.5	2.0000	18.3	2.5×1	3800	8800	130	38	36	P	4	10	62	A	47	—	—	5	—	—	M6	49	5.5	9.5	5.4	0.29	0.25
GR202FDS-CAPR	20	2.5	2.0000	18.3	2.5×1	3800	8800	130	38	36	P	4	10	62	C	—	—	—	—	—	M6	49	5.5	9.5	5.4	0.35	0.25	
GR2004DS-AALR	20	4	2.3812	18.1	2.5×1	4700	11700	140	40	41	L	3	10	64	A	49	—	—	5.5	—	—	M6	51	5.5	9.5	5.4	0.36	0.25
GR2004DS-CALR	20	4	2.3812	18.1	2.5×1	4700	11700	140	40	41	L	3	10	64	C	—	—	—	—	—	M6	51	5.5	9.5	5.4	0.42	0.25	
GR2004ES-AALR	20	4	2.3812	18.1	2.5×2	8600	23400	250	40	49	L	3	10	64	A	49	—	—	5.5	—	—	M6	51	5.5	9.5	5.4	0.41	0.25
GR2004ES-CALR	20	4	2.3812	18.1	2.5×2	8600	23400	250	40	49	L	3	10	64	C	—	—	—	—	—	M6	51	5.5	9.5	5.4	0.47	0.25	
GR2005BS-AALR	20	5	3.1750	17.5	1.5×2	9800	21000	170	40	53	L	5	12	68	A	52	—	—	7	—	—	M6	53	6.6	11	6.5	0.47	0.25
GR2005BS-CALR	20	5	3.1750	17.5	1.5×2	9800	21000	170	40	53	L	5	12	68	C	—	—	—	—	—	M6	53	6.6	11	6.5	0.55	0.25	
GR2005DS-BALR	20	5	3.1750	17.5	2.5×1	8350	17500	140	40	48	L	5	12	68	B	—	40	60	—	21	—	M6	53	6.6	11	6.5	0.41	0.25
GR2005DS-CALR	20	5	3.1750	17.5	2.5×1	8350	17500	140	40	48	L	5	12	68	C	—	—	—	—	—	M6	53	6.6	11	6.5	0.52	0.25	
GR2005ES-AALR	20	5	3.1750	17.5	2.5×2	15150	35000	260	40	58	L	5	12	68	A	52	—	—	7	—	—	M6	53	6.6	11	6.5	0.50	0.25
GR2005ES-CALR	20	5	3.1750	17.5	2.5×2	15150	35000	260	40	58	L	5	12	68	C	—	—	—	—	—	M6	53	6.6	11	6.5	0.58	0.25	
GR2006BS-AAPR	20	6	3.9688	16.6	1.5×2	12900	25600	170	44	61	P	5	12	72	A	55	—	—	7	—	—	M6	57	6.6	11	6.5	0.63	0.25
GR2006BS-CAPR	20	6	3.9688	16.6	1.5×2	12900	25600	170	44	61	P	5	12	72	C	—	—	—	—	—	M6	57	6.6	11	6.5	0.73	0.25	
GR2006DS-AAPR	20	6	3.9688	16.6	2.5×1	11000	21300	140	44	49	P	5	12	72	A	55	—	—	7.5	—	—	M6	57	6.6	11	6.5	0.54	0.25
GR2006DS-CAPR	20	6	3.9688	16.6	2.5×1	11000	21300	140	44	49	P	5	12	72	C	—	—	—	—	—	M6	57	6.6	11	6.5	0.63	0.25	
GR2008DS-AAPR	20	8	4.7625	16	2.5×1	13500	25100	140	46	63	P	5	15	74	A	56	—	—	10	—	—	M6	59	6.6	11	6.5	0.73	0.25
GR2008DS-CAPR	20	8	4.7625	16	2.5×1	13500	25100	140	46	63	P	5	15	74	C	—	—	—	—	—	M6	59	6.6	11	6.5	0.87	0.25	

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper, L: Lip seal

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



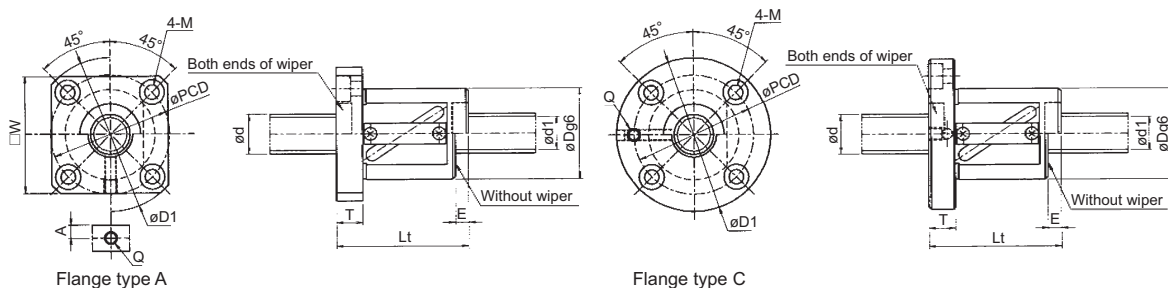
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K ₀ (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR2010AS-AALR	20	10	4.7625	16	1.5×1	9200	16200	90	46	57	L	6	15	74	A	56	—	—	10	—	—	M6	59	6.6	11	6.5	0.68	0.25
GR2010AS-BALR	20	10	4.7625	16	1.5×1	9200	16200	90	46	57	L	6	15	74	B	—	46	66	—	24	—	M6	59	6.6	11	6.5	0.67	0.25
GR2010DS-AALR	20	10	4.7625	16	2.5×1	13500	25100	140	46	65	L	6	15	74	A	56	—	—	10	—	—	M6	59	6.6	11	6.5	0.75	0.25
GR2010DS-BALR	20	10	4.7625	16	2.5×1	13500	25100	140	46	65	L	6	15	74	B	—	46	66	—	24	—	M6	59	6.6	11	6.5	0.74	0.25
GR2020AS-AALR	20	20	4.7625	15.9	1.5×1	9200	16200	90	46	70	L	6	15	74	A	56	—	—	10	—	—	M6	59	6.6	11	6.5	0.79	0.25
GR2020AS-BALR	20	20	4.7625	15.9	1.5×1	9200	16200	90	46	70	L	6	15	74	B	—	46	66	—	24	—	M6	59	6.6	11	6.5	0.78	0.25
GR2025AS-AAPR	20	25	4.7625	16	1.5×1	9200	16200	90	46	77	P	6	15	74	A	56	—	—	10	—	—	M6	59	6.6	11	6.5	0.86	0.25
GR2025AS-BAPR	20	25	4.7625	16	1.5×1	9200	16200	90	46	77	P	6	15	74	B	—	46	66	—	24	—	M6	59	6.6	11	6.5	0.84	0.25
GR2032AS-AAPR	20	32	4.7625	16	1.5×1	9200	16200	90	46	96	P	8	15	74	A	56	—	—	10	—	—	M6	59	6.6	11	6.5	1.02	0.25
GR2032AS-BAPR	20	32	4.7625	16	1.5×1	9200	16200	90	46	96	P	8	15	74	B	—	46	66	—	24	—	M6	59	6.6	11	6.5	1.01	0.25

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper, L: Lip seal

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



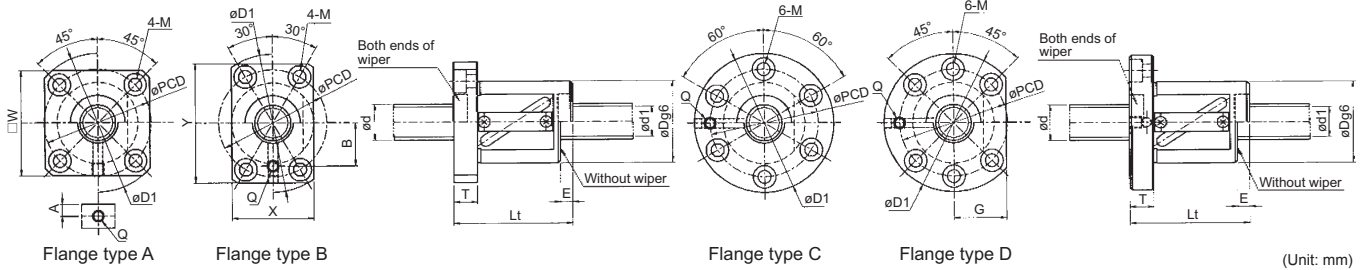
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K ₀ (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR2504DS-AAPR	25	4	2.3812	23.1	2.5×1	5200	14400	160	46	43	P	3	12	74	A	56	—	—	7.5	—	—	M6	59	6.6	11	6.5	0.49	0.38
GR2504DS-CAPR	25	4	2.3812	23.1	2.5×1	5200	14400	160	46	43	P	3	12	74	C	—	—	—	—	—	—	M6	59	6.6	11	6.5	0.60	0.38
GR2504ES-AAPR	25	4	2.3812	23.1	2.5×2	9400	28800	300	46	55	P	3	12	74	A	56	—	—	7	—	—	M6	59	6.6	11	6.5	0.59	0.38
GR2504ES-CAPR	25	4	2.3812	23.1	2.5×2	9400	28800	300	46	55	P	3	12	74	C	—	—	—	—	—	—	M6	59	6.6	11	6.5	0.69	0.38
GR2505BS-AALR	25	5	3.1750	22.5	1.5×2	11000	26600	210	47	53	L	5	12	74	A	57	—	—	7	—	—	M6	60	6.6	11	6.5	0.58	0.38
GR2505BS-CALR	25	5	3.1750	22.5	1.5×2	11000	26600	210	47	53	L	5	12	74	C	—	—	—	—	—	—	M6	60	6.6	11	6.5	0.68	0.38
GR2505DS-AALR	25	5	3.1750	22.5	2.5×1	9400	22200	170	47	48	L	5	12	74	A	57	—	—	7.5	—	—	M6	60	6.6	11	6.5	0.54	0.38
GR2505DS-CALR	25	5	3.1750	22.5	2.5×1	9400	22200	170	47	48	L	5	12	74	C	—	—	—	—	—	—	M6	60	6.6	11	6.5	0.64	0.38
GR2505ES-AALR	25	5	3.1750	22.5	2.5×2	17000	44400	320	47	58	L	5	12	74	A	57	—	—	7.5	—	—	M6	60	6.6	11	6.5	0.63	0.38
GR2505ES-CALR	25	5	3.1750	22.5	2.5×2	17000	44400	320	47	58	L	5	12	74	C	—	—	—	—	—	—	M6	60	6.6	11	6.5	0.72	0.38
GR2506BS-AALR	25	6	3.9688	21.6	1.5×2	14700	32400	210	50	61	L	5	12	78	A	59	—	—	7.5	—	—	M6	63	6.6	11	6.5	0.74	0.38
GR2506BS-CALR	25	6	3.9688	21.6	1.5×2	14700	32400	210	50	61	L	5	12	78	C	—	—	—	—	—	—	M6	63	6.6	11	6.5	0.86	0.38
GR2506DS-AALR	25	6	3.9688	21.6	2.5×1	12500	27000	180	50	49	L	5	12	78	A	59	—	—	7.5	—	—	M6	63	6.6	11	6.5	0.62	0.38
GR2506DS-CALR	25	6	3.9688	21.6	2.5×1	12500	27000	180	50	49	L	5	12	78	C	—	—	—	—	—	—	M6	63	6.6	11	6.5	0.75	0.38
GR2506ES-AALR	25	6	3.9688	21.6	2.5×2	22700	54000	330	50	67	L	5	12	78	A	59	—	—	7.5	—	—	M6	63	6.6	11	6.5	0.80	0.38
GR2506ES-CALR	25	6	3.9688	21.6	2.5×2	22700	54000	330	50	67	L	5	12	78	C	—	—	—	—	—	—	M6	63	6.6	11	6.5	0.92	0.38
GR2508DS-AAPR	25	8	4.7625	21	2.5×1	16100	33400	180	52	63	P	5	15	86	A	66	—	—	10	—	—	M6	68	9	14	8.6	0.94	0.38
GR2508DS-CAPR	25	8	4.7625	21	2.5×1	16100	33400	180	52	63	P	5	15	86	C	—	—	—	—	—	—	M6	68	9	14	8.6	1.11	0.38
GR2508GS-AAPR	25	8	4.7625	21	3.5×1	21400	46800	240	52	65	P	6	15	86	A	66	—	—	10	—	—	M6	68	9	14	8.6	0.96	0.38
GR2508GS-CAPR	25	8	4.7625	21	3.5×1	21400	46800	240	52	65	P	6	15	86	C	—	—	—	—	—	—	M6	68	9	14	8.6	1.13	0.38

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper, L: Lip seal

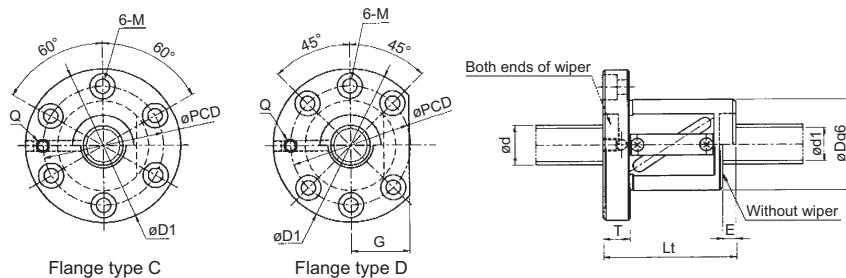
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M				
																								Drill	Spot facing	Depth		
GR2510DS-AALR	25	10	4.7625	21	2.5×1	16100	33400	180	52	65	L	5	15	86	A	66	—	—	10	—	—	M6	68	9	14	8.6	0.96	0.38
GR2510DS-BALR	25	10	4.7625	21	2.5×1	16100	33400	180	52	65	L	5	15	86	B	—	52	78	—	30	—	M6	68	9	14	8.6	0.92	0.38
GR2510GS-AALR	25	10	4.7625	21	3.5×1	21400	46800	240	52	75	L	5	15	86	A	66	—	—	10	—	—	M6	68	9	14	8.6	1.07	0.38
GR2510GS-BALR	25	10	4.7625	21	3.5×1	21400	46800	240	52	75	L	5	15	86	B	—	52	78	—	30	—	M6	68	9	14	8.6	1.03	0.38
GR2520AS-AALR	25	20	4.7625	21	1.5×1	10400	20100	110	52	70	L	8	15	86	A	66	—	—	10	—	—	M6	68	9	14	8.6	1.01	0.38
GR2520AS-BALR	25	20	4.7625	21	1.5×1	10400	20100	110	52	70	L	8	15	86	B	—	52	78	—	30	—	M6	68	9	14	8.6	0.98	0.38
GR2520DS-AALR	25	20	4.7625	21	2.5×1	16100	33400	180	52	90	L	8	15	86	A	66	—	—	10	—	—	M6	68	9	14	8.6	1.23	0.38
GR2520DS-BALR	25	20	4.7625	21	2.5×1	16100	33400	180	52	90	L	8	15	86	B	—	52	78	—	30	—	M6	68	9	14	8.6	1.19	0.38
GR2525AS-AALR	25	25	4.7625	21	1.5×1	10400	20100	110	54	77	L	7	15	88	A	67	—	—	10	—	—	M6	70	9	14	8.6	1.18	0.38
GR2525AS-BALR	25	25	4.7625	21	1.5×1	10400	20100	110	54	77	L	7	15	88	B	—	54	78	—	30	—	M6	70	9	14	8.6	1.15	0.38
GR2525DS-AALR	25	25	4.7625	21	2.5×1	16100	33400	180	54	102	L	7	15	88	A	67	—	—	10	—	—	M6	70	9	14	8.6	1.48	0.38
GR2525DS-BALR	25	25	4.7625	21	2.5×1	16100	33400	180	54	102	L	7	15	88	B	—	54	78	—	30	—	M6	70	9	14	8.6	1.45	0.38
GR2540AS-AAPR	25	40	4.7625	21	1.5×1	10400	20100	110	54	111	P	8	15	88	A	67	—	—	10	—	—	M6	70	9	14	8.6	1.59	0.38
GR2540AS-BAPR	25	40	4.7625	21	1.5×1	10400	20100	110	54	111	P	8	15	88	B	—	54	78	—	30	—	M6	70	9	14	8.6	1.56	0.38
GR2805DS-CAPR	28	5	3.1750	25.5	2.5×1	9800	24900	190	54	43	P	5	12	82	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	0.78	0.48
GR2805DS-DAPR	28	5	3.1750	25.5	2.5×1	9800	24900	190	54	43	P	5	12	82	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	0.74	0.48
GR2805ES-CAPR	28	5	3.1750	25.5	2.5×2	17900	49800	360	54	58	P	5	12	82	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	0.95	0.48
GR2805ES-DAPR	28	5	3.1750	25.5	2.5×2	17900	49800	360	54	58	P	5	12	82	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	0.92	0.48
GR2810DS-CAPR	28	10	4.7625	24	2.5×1	17000	37600	200	56	65	P	5	15	84	C	—	—	—	—	—	—	M6	69	6.6	11	6.5	1.15	0.48
GR2810DS-DAPR	28	10	4.7625	24	2.5×1	17000	37600	200	56	65	P	5	15	84	D	—	—	—	—	—	32	M6	69	6.6	11	6.5	1.11	0.48
GR2820DS-CAPR	28	20	4.7625	24	2.5×1	17000	37600	200	56	89	P	6	15	84	C	—	—	—	—	—	—	M6	69	6.6	11	6.5	1.45	0.48
GR2820DS-DAPR	28	20	4.7625	24	2.5×1	17000	37600	200	56	89	P	6	15	84	D	—	—	—	—	—	32	M6	69	6.6	11	6.5	1.40	0.48

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper, L: Lip seal

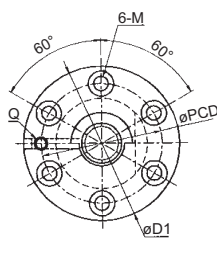
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



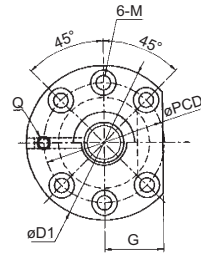
Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR3204DS-CAPR	32	4	2.3812	30.1	2.5×1	5800	18900	200	54	43	P	3	12	81	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	0.71	0.63
GR3204DS-DAPR	32	4	2.3812	30.1	2.5×1	5800	18900	200	54	43	P	3	12	81	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	0.68	0.63
GR3204ES-CAPR	32	4	2.3812	30.1	2.5×2	10500	37800	370	54	51	P	3	12	81	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	0.79	0.63
GR3204ES-DAPR	32	4	2.3812	30.1	2.5×2	10500	37800	370	54	51	P	3	12	81	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	0.76	0.63
GR3205DS-CALR	32	5	3.1750	29.5	2.5×1	10500	28600	220	58	43	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	0.83	0.63
GR3205DS-DALR	32	5	3.1750	29.5	2.5×1	10500	28600	220	58	43	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	0.79	0.63
GR3205ES-CALR	32	5	3.1750	29.5	2.5×2	19000	57200	400	58	58	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	1.02	0.63
GR3205ES-DALR	32	5	3.1750	29.5	2.5×2	19000	57200	400	58	58	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	0.98	0.63
GR3205FS-CALR	32	5	3.1750	29.5	2.5×3	26900	85800	570	58	73	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	1.21	0.63
GR3205FS-DALR	32	5	3.1750	29.5	2.5×3	26900	85800	570	58	73	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	1.17	0.63
GR3206DS-CALR	32	6	3.9688	28.6	2.5×1	14400	35500	220	62	49	L	5	12	89	C	—	—	—	—	—	—	M6	75	6.6	11	6.5	1.05	0.63
GR3206DS-DALR	32	6	3.9688	28.6	2.5×1	14400	35500	220	62	49	L	5	12	89	D	—	—	—	—	—	34	M6	75	6.6	11	6.5	1.01	0.63
GR3206ES-CALR	32	6	3.9688	28.6	2.5×2	26000	71000	410	62	67	L	5	12	89	C	—	—	—	—	—	—	M6	75	6.6	11	6.5	1.32	0.63
GR3206ES-DALR	32	6	3.9688	28.6	2.5×2	26000	71000	410	62	67	L	5	12	89	D	—	—	—	—	—	34	M6	75	6.6	11	6.5	1.28	0.63
GR3208BS-CALR	32	8	4.7625	28	1.5×2	20900	50000	250	66	73	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.83	0.63
GR3208BS-DALR	32	8	4.7625	28	1.5×2	20900	50000	250	66	73	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.76	0.63
GR3208DS-CALR	32	8	4.7625	28	2.5×1	17800	41700	220	66	57	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.54	0.63
GR3208DS-DALR	32	8	4.7625	28	2.5×1	17800	41700	220	66	57	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.48	0.63
GR3208ES-CALR	32	8	4.7625	28	2.5×2	32300	83400	350	66	81	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.97	0.63
GR3208ES-DALR	32	8	4.7625	28	2.5×2	32300	83400	350	66	81	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.91	0.63

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper, L: Lip seal

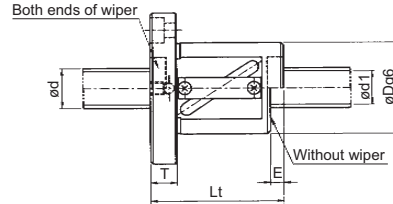
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)

Screw shaft
diameter ø32

Flange type C



Flange type D

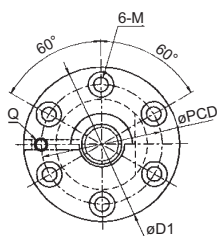


(Unit: mm)

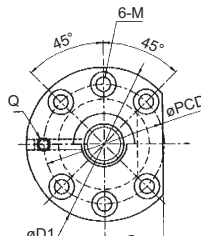
Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M			Nut (kg)	Screw shaft (kg/100mm)
																								Drill	Spot facing	Depth		
GR3210BS-CALR	32	10	6.3500	27.2	1.5×2	30300	66700	260	74	88	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.65	0.63
GR3210BS-DALR	32	10	6.3500	27.2	1.5×2	30300	66700	260	74	88	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.57	0.63
GR3210DS-CALR	32	10	6.3500	27.2	2.5×1	25800	55600	230	74	68	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.17	0.63
GR3210DS-DALR	32	10	6.3500	27.2	2.5×1	25800	55600	230	74	68	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.10	0.63
GR3210ES-CALR	32	10	6.3500	27.2	2.5×2	46900	111200	410	74	98	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.88	0.63
GR3210ES-DALR	32	10	6.3500	27.2	2.5×2	46900	111200	410	74	98	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.81	0.63
GR3212DS-CAPR	32	12	6.3500	27.2	2.5×1	25800	55600	240	74	81	P	8	18	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.59	0.63
GR3212DS-DAPR	32	12	6.3500	27.2	2.5×1	25800	55600	240	74	81	P	8	18	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.51	0.63
GR3212GS-CAPR	32	12	6.3500	27.2	3.5×1	34500	77800	330	74	93	P	8	18	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.88	0.63
GR3212GS-DAPR	32	12	6.3500	27.2	3.5×1	34500	77800	330	74	93	P	8	18	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.79	0.63
GR3220DS-CALR	32	20	6.3500	27.2	2.5×1	25800	55600	250	72	96	L	9	18	106	C	—	—	—	—	—	—	M6	88	9	14	8.6	2.76	0.63
GR3220DS-DALR	32	20	6.3500	27.2	2.5×1	25800	55600	250	72	96	L	9	18	106	D	—	—	—	—	—	40	M6	88	9	14	8.6	2.68	0.63
GR3232AS-CAPR	32	32	4.7625	28	1.5×1	11500	26300	150	64	95	P	9	18	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	2.16	0.63
GR3232AS-DAPR	32	32	4.7625	28	1.5×1	11500	26300	150	64	95	P	9	18	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	2.09	0.63
GR3232DS-CAPR	32	32	4.7625	28	2.5×1	17800	43900	230	64	127	P	9	18	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	2.68	0.63
GR3232DS-DAPR	32	32	4.7625	28	2.5×1	17800	43900	230	64	127	P	9	18	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	2.61	0.63

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper, L: Lip seal

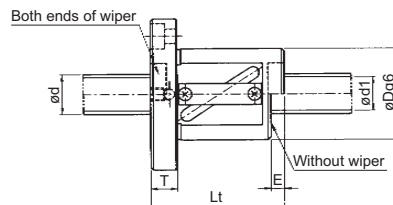
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type C



Flange type D



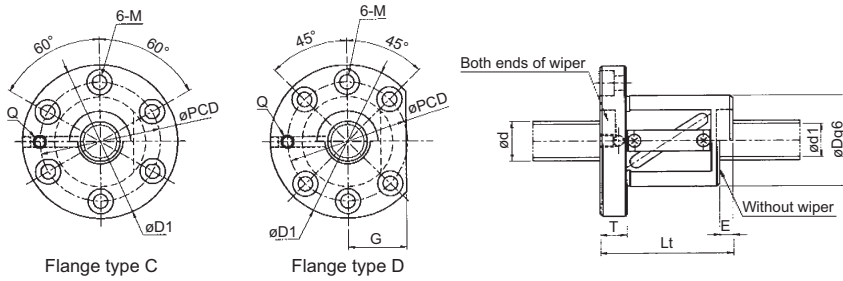
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR3605DS-CAPR	36	5	3.1750	33.5	2.5×1	11000	32300	240	64	46	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	1.21	0.79
GR3605DS-DAPR	36	5	3.1750	33.5	2.5×1	11000	32300	240	64	46	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	1.15	0.79
GR3605ES-CAPR	36	5	3.1750	33.5	2.5×2	20100	64600	440	64	61	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	1.44	0.79
GR3605ES-DAPR	36	5	3.1750	33.5	2.5×2	20100	64600	440	64	61	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	1.38	0.79
GR3605FS-CAPR	36	5	3.1750	33.5	2.5×3	28300	96900	630	64	76	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	1.67	0.79
GR3605FS-DAPR	36	5	3.1750	33.5	2.5×3	28300	96900	630	64	76	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	1.61	0.79
GR3606DS-CAPR	36	6	3.9688	32.6	2.5×1	15100	39800	240	66	52	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.37	0.79
GR3606DS-DAPR	36	6	3.9688	32.6	2.5×1	15100	39800	240	66	52	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.31	0.79
GR3606ES-CAPR	36	6	3.9688	32.6	2.5×2	27200	79600	450	66	70	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.67	0.79
GR3606ES-DAPR	36	6	3.9688	32.6	2.5×2	27200	79600	450	66	70	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.61	0.79
GR3606FS-CAPR	36	6	3.9688	32.6	2.5×3	38500	119400	660	66	88	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.97	0.79
GR3606FS-DAPR	36	6	3.9688	32.6	2.5×3	38500	119400	660	66	88	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.90	0.79
GR3608DS-CAPR	36	8	4.7625	32	2.5×1	19200	47900	240	70	57	P	6	15	104	C	—	—	—	—	—	—	M6	86	9	14	8.6	1.64	0.79
GR3608DS-DAPR	36	8	4.7625	32	2.5×1	19200	47900	240	70	57	P	6	15	104	D	—	—	—	—	—	40	M6	86	9	14	8.6	1.58	0.79
GR3608ES-CAPR	36	8	4.7625	32	2.5×2	34700	95800	460	70	81	P	6	15	104	C	—	—	—	—	—	—	M6	86	9	14	8.6	2.11	0.79
GR3608ES-DAPR	36	8	4.7625	32	2.5×2	34700	95800	460	70	81	P	6	15	104	D	—	—	—	—	—	40	M6	86	9	14	8.6	2.04	0.79

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper

Screw shaft
diameter ø36

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



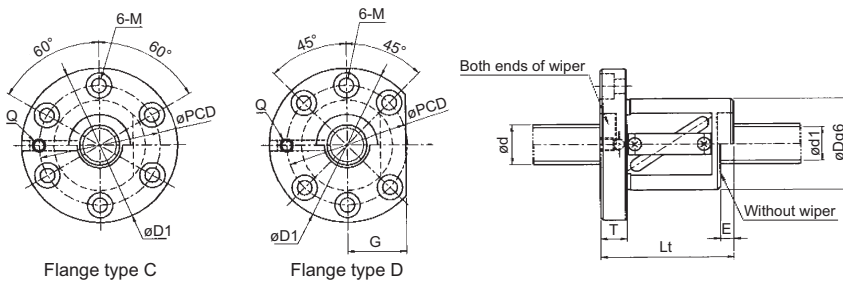
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR3610DS-CALR	36	10	6.3500	31.2	2.5×1	27600	63000	240	76	68	L	8	15	110	C	—	—	—	—	—	—	M6	92	9	14	8.6	2.17	0.79
GR3610DS-DALR	36	10	6.3500	31.2	2.5×1	27600	63000	240	76	68	L	8	15	110	D	—	—	—	—	—	42	M6	92	9	14	8.6	2.10	0.79
GR3610ES-CALR	36	10	6.3500	31.2	2.5×2	50100	126000	460	76	98	L	8	15	110	C	—	—	—	—	—	—	M6	92	9	14	8.6	2.87	0.79
GR3610ES-DALR	36	10	6.3500	31.2	2.5×2	50100	126000	460	76	98	L	8	15	110	D	—	—	—	—	—	42	M6	92	9	14	8.6	2.80	0.79
GR3612DS-CAPR	36	12	7.1438	30.6	2.5×1	32800	69700	250	81	81	P	8	18	123	C	—	—	—	—	—	—	M6	101	11	17.5	10.8	3.18	0.79
GR3612DS-DAPR	36	12	7.1438	30.6	2.5×1	32800	69700	250	81	81	P	8	18	123	D	—	—	—	—	—	47	M6	101	11	17.5	10.8	3.07	0.79
GR3612GS-CAPR	36	12	7.1438	30.6	3.5×1	43700	97600	350	81	93	P	8	18	123	C	—	—	—	—	—	—	M6	101	11	17.5	10.8	3.52	0.79
GR3612GS-DAPR	36	12	7.1438	30.6	3.5×1	43700	97600	350	81	93	P	8	18	123	D	—	—	—	—	—	47	M6	101	11	17.5	10.8	3.41	0.79
GR3620DS-CALR	36	20	6.3500	31.2	2.5×1	27600	63000	240	74	96	L	9	18	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.75	0.79
GR3620DS-DALR	36	20	6.3500	31.2	2.5×1	27600	63000	240	74	96	L	9	18	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.66	0.79
GR3624DS-CAPR	36	24	6.3500	31.2	2.5×1	27600	63000	280	74	107	P	9	18	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.99	0.79
GR3624DS-DAPR	36	24	6.3500	31.2	2.5×1	27600	63000	280	74	107	P	9	18	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.90	0.79

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper, L: Lip seal

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



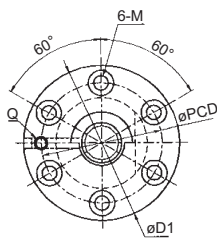
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR4005DS-CAPR	40	5	3.1750	37.5	2.5×1	11600	36000	260	67	46	P	5	15	101	C	—	—	—	—	—	—	Rc1/8	83	9	14	8.6	1.24	0.98
GR4005DS-DAPR	40	5	3.1750	37.5	2.5×1	11600	36000	260	67	46	P	5	15	101	D	—	—	—	—	—	39	Rc1/8	83	9	14	8.6	1.18	0.98
GR4005ES-CAPR	40	5	3.1750	37.5	2.5×2	21000	72000	480	67	61	P	5	15	101	C	—	—	—	—	—	—	Rc1/8	83	9	14	8.6	1.48	0.98
GR4005ES-DAPR	40	5	3.1750	37.5	2.5×2	21000	72000	480	67	61	P	5	15	101	D	—	—	—	—	—	39	Rc1/8	83	9	14	8.6	1.42	0.98
GR4005FS-CAPR	40	5	3.1750	37.5	2.5×3	29800	108000	700	67	76	P	5	15	101	C	—	—	—	—	—	—	Rc1/8	83	9	14	8.6	1.71	0.98
GR4005FS-DAPR	40	5	3.1750	37.5	2.5×3	29800	108000	700	67	76	P	5	15	101	D	—	—	—	—	—	39	Rc1/8	83	9	14	8.6	1.65	0.98
GR4006BS-CAPR	40	6	3.9688	36.6	1.5×2	18200	52800	310	70	64	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	1.67	0.98
GR4006BS-DAPR	40	6	3.9688	36.6	1.5×2	18200	52800	310	70	64	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	1.61	0.98
GR4006ES-CAPR	40	6	3.9688	36.6	2.5×2	28300	88000	490	70	70	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	1.78	0.98
GR4006ES-DAPR	40	6	3.9688	36.6	2.5×2	28300	88000	490	70	70	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	1.72	0.98
GR4006FS-CAPR	40	6	3.9688	36.6	2.5×3	40200	132000	710	70	88	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	2.10	0.98
GR4006FS-DAPR	40	6	3.9688	36.6	2.5×3	40200	132000	710	70	88	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	2.04	0.98
GR4008DS-CALR	40	8	4.7625	36	2.5×1	19600	54200	270	74	57	L	6	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	1.75	0.98
GR4008DS-DALR	40	8	4.7625	36	2.5×1	19600	54200	270	74	57	L	6	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	1.67	0.98
GR4008ES-CALR	40	8	4.7625	36	2.5×2	35600	108400	510	74	81	L	6	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	2.24	0.98
GR4008ES-DALR	40	8	4.7625	36	2.5×2	35600	108400	510	74	81	L	6	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	2.17	0.98

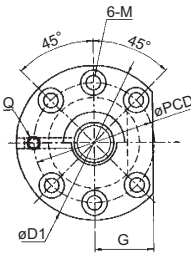
Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper, L: Lip seal

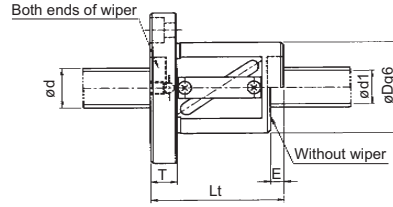
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type C



Flange type D

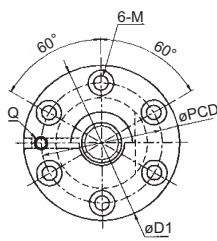


(Unit: mm)

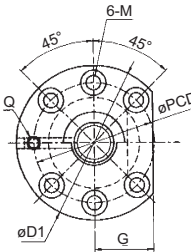
Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	Rigidity K ₀ (N/μm)	Nut dimensions															Mass				
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR4010BS-CALR	40	10	6.3500	35.2	1.5×2	34200	89200	320	82	91	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	3.40	0.98
GR4010BS-DALR	40	10	6.3500	35.2	1.5×2	34200	89200	320	82	91	L	8	18	124	D	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	3.29	0.98
GR4010DS-CALR	40	10	6.3500	35.2	2.5×1	29300	74300	270	82	71	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	2.87	0.98
GR4010DS-DALR	40	10	6.3500	35.2	2.5×1	29300	74300	270	82	71	L	8	18	124	D	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	2.75	0.98
GR4010ES-CALR	40	10	6.3500	35.2	2.5×2	53000	140800	510	82	101	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	3.67	0.98
GR4010ES-DALR	40	10	6.3500	35.2	2.5×2	53000	140800	510	82	101	L	8	18	124	D	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	3.56	0.98
GR4012DS-CALR	40	12	7.1438	34.6	2.5×1	35100	79000	290	86	81	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	3.46	0.98
GR4012DS-DALR	40	12	7.1438	34.6	2.5×1	35100	79000	290	86	81	L	8	18	128	D	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	3.33	0.98
GR4012ES-CALR	40	12	7.1438	34.6	2.5×2	63700	158000	560	86	117	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.55	0.98
GR4012ES-DALR	40	12	7.1438	34.6	2.5×2	63700	158000	560	86	117	L	8	18	128	D	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.42	0.98
GR4016DS-CAPR	40	16	7.1438	34.6	2.5×1	35100	79000	290	86	91	P	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	3.98	0.98
GR4016DS-DAPR	40	16	7.1438	34.6	2.5×1	35100	79000	290	86	91	P	9	22	128	D	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	3.82	0.98
GR4016GS-CALR	40	16	7.1438	34.6	3.5×1	46800	110600	400	86	107	L	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.47	0.98
GR4016GS-DALR	40	16	7.1438	34.6	3.5×1	46800	110600	400	86	107	L	9	22	128	D	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.31	0.98
GR4020DS-CAPR	40	20	7.1438	34.6	2.5×1	35100	79000	290	86	105	P	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.41	0.98
GR4020DS-DAPR	40	20	7.1438	34.6	2.5×1	35100	79000	290	86	105	P	9	22	128	D	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.25	0.98
GR4020GS-CAPR	40	20	7.1438	34.6	3.5×1	46800	110600	400	86	125	P	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	5.02	0.98
GR4020GS-DAPR	40	20	7.1438	34.6	3.5×1	46800	110600	400	86	125	P	9	22	128	D	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.86	0.98
GR4032DS-CAPR	40	32	6.3500	35.2	2.5×1	29300	74300	310	78	133	P	8	22	120	C	—	—	—	—	—	—	Rc1/8	98	11	17.5	10.8	4.18	0.98
GR4032DS-DAPR	40	32	6.3500	35.2	2.5×1	29300	74300	310	78	133	P	8	22	120	D	—	—	—	—	—	—	Rc1/8	98	11	17.5	10.8	4.05	0.98
GR4040AS-CAPR	40	40	6.3500	35.2	1.5×1	18800	44600	200	78	114	P	8	22	120	C	—	—	—	—	—	—	Rc1/8	98	11	17.5	10.8	3.74	0.98
GR4040AS-DAPR	40	40	6.3500	35.2	1.5×1	18800	44600	200	78	114	P	8	22	120	D	—	—	—	—	—	—	Rc1/8	98	11	17.5	10.8	3.62	0.98

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper, L: Lip seal

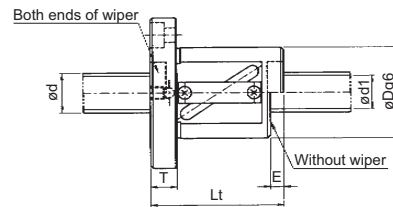
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type C



Flange type D



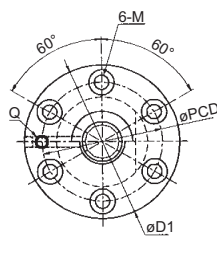
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	Rigidity K ₀ (N/μm)	Nut dimensions															Mass				
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M		Nut (kg)	Screw shaft (kg/100mm)	
																								Drill	Spot facing			Depth
GR4505BS-CAPR	45	5	3.1750	42.5	1.5×2	14100	48600	330	74	56	P	5	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	1.62	1.24
GR4505BS-DAPR	45	5	3.1750	42.5	1.5×2	14100	48600	330	74	56	P	5	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	1.55	1.24
GR4505CS-CAPR	45	5	3.1750	42.5	1.5×3	20100	72900	480	74	66	P	5	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	1.81	1.24
GR4505CS-DAPR	45	5	3.1750	42.5	1.5×3	20100	72900	480	74	66	P	5	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	1.74	1.24
GR4506BS-CAPR	45	6	3.9688	41.6	1.5×2	19300	59700	340	78	64	P	5	15	112	C	—	—	—	—	—	—	Rc1/8	94	9	14	8.6	2.00	1.24
GR4506BS-DAPR	45	6	3.9688	41.6	1.5×2	19300	59700	340	78	64	P	5	15	112	D	—	—	—	—	—	43	Rc1/8	94	9	14	8.6	1.93	1.24
GR4506ES-CAPR	45	6	3.9688	41.6	2.5×2	30000	99500	550	78	70	P	5	15	112	C	—	—	—	—	—	—	Rc1/8	94	9	14	8.6	2.14	1.24
GR4506ES-DAPR	45	6	3.9688	41.6	2.5×2	30000	99500	550	78	70	P	5	15	112	D	—	—	—	—	—	43	Rc1/8	94	9	14	8.6	2.06	1.24
GR4506FS-CAPR	45	6	3.9688	41.6	2.5×3	42500	149300	780	78	88	P	5	15	112	C	—	—	—	—	—	—	Rc1/8	94	9	14	8.6	2.53	1.24
GR4506FS-DAPR	45	6	3.9688	41.6	2.5×3	42500	149300	780	78	88	P	5	15	112	D	—	—	—	—	—	43	Rc1/8	94	9	14	8.6	2.46	1.24
GR4508BS-CAPR	45	8	4.7625	41	1.5×2	24000	72600	350	82	76	P	6	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	2.88	1.24
GR4508BS-DAPR	45	8	4.7625	41	1.5×2	24000	72600	350	82	76	P	6	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	2.76	1.24
GR4508ES-CAPR	45	8	4.7625	41	2.5×2	37300	121000	560	82	84	P	6	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	3.08	1.24
GR4508ES-DAPR	45	8	4.7625	41	2.5×2	37300	121000	560	82	84	P	6	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	2.97	1.24
GR4508FS-CAPR	45	8	4.7625	41	2.5×3	52700	181500	790	82	108	P	6	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	3.69	1.24
GR4508FS-DAPR	45	8	4.7625	41	2.5×3	52700	181500	790	82	108	P	6	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	3.58	1.24

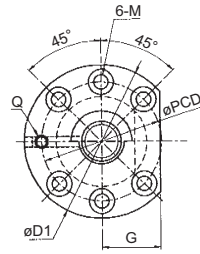
Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load

Screw shaft
diameter ø45

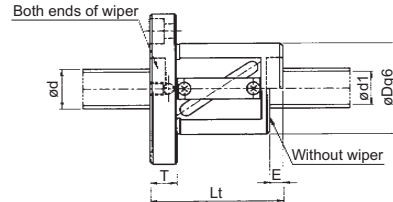
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type C



Flange type D

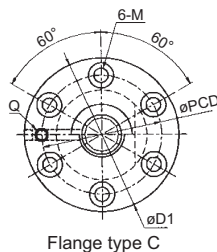


(Unit: mm)

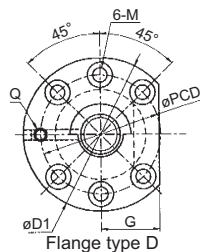
Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M				
																								Drill	Spot facing			Depth
GR4510BS-CALR	45	10	6.3500	40.2	1.5x2	36800	97800	370	86	91	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	3.53	1.24
GR4510BS-DALR	45	10	6.3500	40.2	1.5x2	36800	97800	370	86	91	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	3.40	1.24
GR4510DS-CALR	45	10	6.3500	40.2	2.5x1	31500	81500	310	86	71	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	2.97	1.24
GR4510DS-DALR	45	10	6.3500	40.2	2.5x1	31500	81500	310	86	71	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	2.84	1.24
GR4510ES-CALR	45	10	6.3500	40.2	2.5x2	57200	163000	570	86	101	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	3.81	1.24
GR4510ES-DALR	45	10	6.3500	40.2	2.5x2	57200	163000	570	86	101	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	3.68	1.24
GR4510FS-CALR	45	10	6.3500	40.2	2.5x3	81000	244500	830	86	131	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.65	1.24
GR4510FS-DALR	45	10	6.3500	40.2	2.5x3	81000	244500	830	86	131	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	4.52	1.24
GR4512DS-CALR	45	12	7.9375	38.8	2.5x1	41200	98500	300	94	83	L	7	22	140	C	—	—	—	—	—	—	Rc1/8	116	14	20	13	4.40	1.24
GR4512DS-DALR	45	12	7.9375	38.8	2.5x1	41200	98500	300	94	83	L	7	22	140	D	—	—	—	—	—	53	Rc1/8	116	14	20	13	4.22	1.24
GR4512ES-CALR	45	12	7.9375	38.8	2.5x2	74900	197000	570	94	119	L	7	22	140	C	—	—	—	—	—	—	Rc1/8	116	14	20	13	5.68	1.24
GR4512ES-DALR	45	12	7.9375	38.8	2.5x2	74900	197000	570	94	119	L	7	22	140	D	—	—	—	—	—	53	Rc1/8	116	14	20	13	5.50	1.24
GR4512FS-CALR	45	12	7.9375	38.8	2.5x3	106200	295500	870	94	155	L	7	22	140	C	—	—	—	—	—	—	Rc1/8	116	14	20	13	6.96	1.24
GR4512FS-DALR	45	12	7.9375	38.8	2.5x3	106200	295500	870	94	155	L	7	22	140	D	—	—	—	—	—	53	Rc1/8	116	14	20	13	6.78	1.24
GR4520DS-CAPR	45	20	7.1438	39.7	2.5x1	37600	86200	520	105	105	P	8	22	155	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	6.95	1.24
GR4520DS-DAPR	45	20	7.1438	39.7	2.5x1	37600	86200	520	105	105	P	8	22	155	D	—	—	—	—	—	60	Rc1/8	130	14	20	13	6.75	1.24
GR4520GS-CAPR	45	20	7.1438	39.7	3.5x1	49400	120600	720	105	125	P	8	22	155	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	7.94	1.24
GR4520GS-DAPR	45	20	7.1438	39.7	3.5x1	49400	120600	720	105	125	P	8	22	155	D	—	—	—	—	—	60	Rc1/8	130	14	20	13	7.74	1.24

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper, L: Lip seal

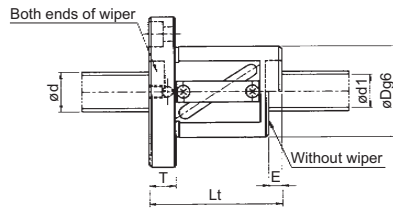
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type C



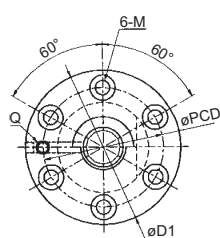
Flange type D



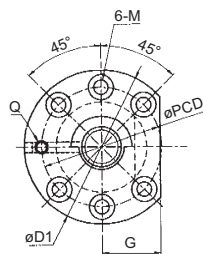
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR5005BS-CAPR	50	5	3.1750	47.5	1.5x2	14800	54200	370	80	56	P	5	15	114	C	—	—	—	—	—	—	Rc1/8	96	9	14	8.6	1.80	1.53
GR5005BS-DAPR	50	5	3.1750	47.5	1.5x2	14800	54200	370	80	56	P	5	15	114	D	—	—	—	—	—	43	Rc1/8	96	9	14	8.6	1.71	1.53
GR5005CS-CAPR	50	5	3.1750	47.5	1.5x3	21000	81300	530	80	66	P	5	15	114	C	—	—	—	—	—	—	Rc1/8	96	9	14	8.6	2.01	1.53
GR5005CS-DAPR	50	5	3.1750	47.5	1.5x3	21000	81300	530	80	66	P	5	15	114	D	—	—	—	—	—	43	Rc1/8	96	9	14	8.6	1.93	1.53
GR5006BS-CAPR	50	6	3.9688	46.6	1.5x2	20100	66500	380	84	64	P	5	15	118	C	—	—	—	—	—	—	Rc1/8	100	9	14	8.6	2.22	1.53
GR5006BS-DAPR	50	6	3.9688	46.6	1.5x2	20100	66500	380	84	64	P	5	15	118	D	—	—	—	—	—	45	Rc1/8	100	9	14	8.6	2.13	1.53
GR5006ES-CAPR	50	6	3.9688	46.6	2.5x2	31300	110800	590	84	70	P	5	15	118	C	—	—	—	—	—	—	Rc1/8	100	9	14	8.6	2.36	1.53
GR5006ES-DAPR	50	6	3.9688	46.6	2.5x2	31300	110800	590	84	70	P	5	15	118	D	—	—	—	—	—	45	Rc1/8	100	9	14	8.6	2.28	1.53
GR5006FS-CAPR	50	6	3.9688	46.6	2.5x3	44300	166200	860	84	88	P	5	15	118	C	—	—	—	—	—	—	Rc1/8	100	9	14	8.6	2.81	1.53
GR5006FS-DAPR	50	6	3.9688	46.6	2.5x3	44300	166200	860	84	88	P	5	15	118	D	—	—	—	—	—	45	Rc1/8	100	9	14	8.6	2.73	1.53
GR5008BS-CAPR	50	8	4.7625	46	1.5x2	24900	80100	380	87	76	P	6	18	129	C	—	—	—	—	—	—	Rc1/8	107	11	17.5	10.8	3.07	1.53
GR5008BS-DAPR	50	8	4.7625	46	1.5x2	24900	80100	380	87	76	P	6	18	129	D	—	—	—	—	—	49	Rc1/8	107	11	17.5	10.8	2.95	1.53
GR5008ES-CAPR	50	8	4.7625	46	2.5x2	38700	133400	590	87	84	P	6	18	129	C	—	—	—	—	—	—	Rc1/8	107	11	17.5	10.8	3.29	1.53
GR5008ES-DAPR	50	8	4.7625	46	2.5x2	38700	133400	590	87	84	P	6	18	129	D	—	—	—	—	—	49	Rc1/8	107	11	17.5	10.8	3.16	1.53
GR5008FS-CAPR	50	8	4.7625	46	2.5x3	55000	200100	860	87	108	P	6	18	129	C	—	—	—	—	—	—	Rc1/8	107	11	17.5	10.8	3.94	1.53
GR5008FS-DAPR	50	8	4.7625	46	2.5x3	55000	200100	860	87	108	P	6	18	129	D	—	—	—	—	—	49	Rc1/8	107	11	17.5	10.8	3.82	1.53
GR5010BS-CALR	50	10	6.3500	45.2	1.5x2	38300	106700	390	93	91	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	3.98	1.53
GR5010BS-DALR	50	10	6.3500	45.2	1.5x2	38300	106700	390	93	91	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	3.84	1.53
GR5010DS-CALR	50	10	6.3500	45.2	2.5x1	32800	88900	330	93	71	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	3.34	1.53
GR5010DS-DALR	50	10	6.3500	45.2	2.5x1	32800	88900	330	93	71	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	3.20	1.53
GR5010ES-CALR	50	10	6.3500	45.2	2.5x2	59400	177800	620	93	101	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	4.31	1.53
GR5010ES-DALR	50	10	6.3500	45.2	2.5x2	59400	177800	620	93	101	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	4.17	1.53
GR5010FS-CALR	50	10	6.3500	45.2	2.5x3	84100	266700	890	93	131	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	5.27	1.53
GR5010FS-DALR	50	10	6.3500	45.2	2.5x3	84100	266700	890	93	131	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	5.13	1.53

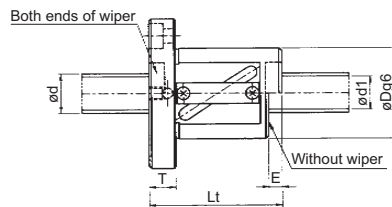
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type C



Flange type D



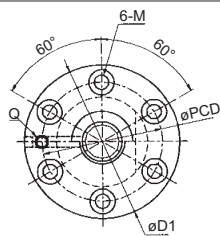
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR5012DS-CALR	50	12	7.9375	43.8	2.5×1	42600	110000	340	100	83	L	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	4.78	1.53
GR5012DS-DALR	50	12	7.9375	43.8	2.5×1	42600	110000	340	100	83	L	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	4.57	1.53
GR5012ES-CALR	50	12	7.9375	43.8	2.5×2	77400	220000	630	100	119	L	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	6.19	1.53
GR5012ES-DALR	50	12	7.9375	43.8	2.5×2	77400	220000	630	100	119	L	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	5.98	1.53
GR5012FS-CALR	50	12	7.9375	43.8	2.5×3	109600	330000	900	100	155	L	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	7.60	1.53
GR5012FS-DALR	50	12	7.9375	43.8	2.5×3	109600	330000	900	100	155	L	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	7.39	1.53
GR5016DS-CAPR	50	16	7.9375	43.8	2.5×1	42600	110000	340	100	103	P	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	5.56	1.53
GR5016DS-DAPR	50	16	7.9375	43.8	2.5×1	42600	110000	340	100	103	P	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	5.36	1.53
GR5016ES-CAPR	50	16	7.9375	43.8	2.5×2	77400	220000	630	100	151	P	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	7.44	1.53
GR5016ES-DAPR	50	16	7.9375	43.8	2.5×2	77400	220000	630	100	151	P	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	7.24	1.53
GR5020DS-CAPR	50	20	7.9375	43.8	2.5×1	42600	110000	380	100	109	P	7	28	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	6.21	1.53
GR5020DS-DAPR	50	20	7.9375	43.8	2.5×1	42600	110000	380	100	109	P	7	28	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	5.95	1.53
GR5020ES-CAPR	50	20	7.9375	43.8	2.5×2	77400	220000	710	100	169	P	7	28	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	8.56	1.53
GR5020ES-DAPR	50	20	7.9375	43.8	2.5×2	77400	220000	710	100	169	P	7	28	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	8.30	1.53
GR5040AS-CAPR	50	40	6.3500	45.2	1.5×1	20300	51300	350	93	109	P	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	4.56	1.53
GR5040AS-DAPR	50	40	6.3500	45.2	1.5×1	20300	51300	350	93	109	P	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	4.42	1.53
GR5050AS-CAPR	50	50	6.3500	45.2	1.5×1	20300	51300	350	93	126	P	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	5.11	1.53
GR5050AS-DAPR	50	50	6.3500	45.2	1.5×1	20300	51300	350	93	126	P	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	4.97	1.53

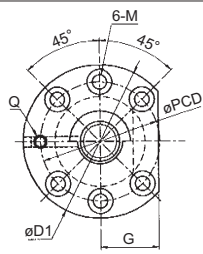
Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper, L: Lip seal

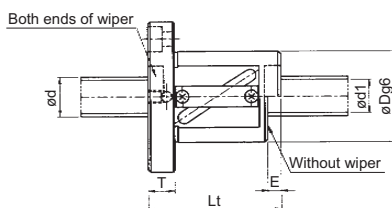
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



Flange type C



Flange type D



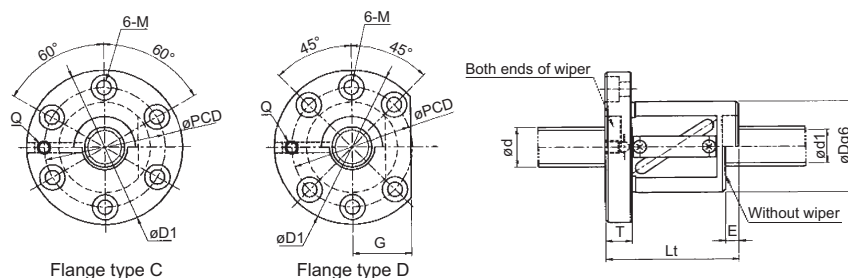
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{ts} (N/μm)	Nut dimensions															Mass				
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole M					
																W	X	Y	A	B	G		Q			Drill	Spot facing	Depth
GR5508ES-CAPR	55	8	4.7625	51	2.5x2	40100	145900	640	92	86	P	5	22	138	C	—	—	—	—	—	—	Rc1/8	114	14	20	13	3.93	1.85
GR5508ES-DAPR	55	8	4.7625	51	2.5x2	40100	145900	640	92	86	P	5	22	138	D	—	—	—	—	—	53	Rc1/8	114	14	20	13	3.77	1.85
GR5508FS-CAPR	55	8	4.7625	51	2.5x3	56900	218900	920	92	110	P	5	22	138	C	—	—	—	—	—	—	Rc1/8	114	14	20	13	4.63	1.85
GR5508FS-DAPR	55	8	4.7625	51	2.5x3	56900	218900	920	92	110	P	5	22	138	D	—	—	—	—	—	53	Rc1/8	114	14	20	13	4.47	1.85
GR5510BS-CALR	55	10	6.3500	50.2	1.5x2	40400	120100	450	100	95	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	5.02	1.85
GR5510BS-DALR	55	10	6.3500	50.2	1.5x2	40400	120100	450	100	95	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	4.81	1.85
GR5510ES-CALR	55	10	6.3500	50.2	2.5x2	62700	200200	680	100	105	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	5.38	1.85
GR5510ES-DALR	55	10	6.3500	50.2	2.5x2	62700	200200	680	100	105	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	5.18	1.85
GR5510FS-CALR	55	10	6.3500	50.2	2.5x3	89000	300300	980	100	135	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	6.48	1.85
GR5510FS-DALR	55	10	6.3500	50.2	2.5x3	89000	300300	980	100	135	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	6.28	1.85
GR5512ES-CAPR	55	12	7.9375	48.8	2.5x2	81200	243300	690	108	119	P	7	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	7.04	1.85
GR5512ES-DAPR	55	12	7.9375	48.8	2.5x2	81200	243300	690	108	119	P	7	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	6.82	1.85
GR5512FS-CAPR	55	12	7.9375	48.8	2.5x3	115100	365000	980	108	155	P	7	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	8.68	1.85
GR5512FS-DAPR	55	12	7.9375	48.8	2.5x3	115100	365000	980	108	155	P	7	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	8.46	1.85
GR5516DS-CAPR	55	16	9.5250	47.6	2.5x1	76700	207800	400	112	115	P	13	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	8.60	1.85
GR5516DS-DAPR	55	16	9.5250	47.6	2.5x1	76700	207800	400	112	115	P	13	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	8.27	1.85
GR5516ES-CAPR	55	16	9.5250	47.6	2.5x2	139100	415600	750	112	163	P	13	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	10.96	1.85
GR5516ES-DAPR	55	16	9.5250	47.6	2.5x2	139100	415600	750	112	163	P	13	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	10.63	1.85
GR5520DS-CALR	55	20	9.5250	47.6	2.5x1	76700	207800	420	112	115	L	12.5	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	8.60	1.85
GR5520DS-DALR	55	20	9.5250	47.6	2.5x1	76700	207800	420	112	115	L	12.5	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	8.27	1.85
GR5520ES-CALR	55	20	9.5250	47.6	2.5x2	139100	415600	780	112	175	L	12.5	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	11.56	1.85
GR5520ES-DALR	55	20	9.5250	47.6	2.5x2	139100	415600	780	112	175	L	12.5	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	11.23	1.85

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper, L: Lip seal

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



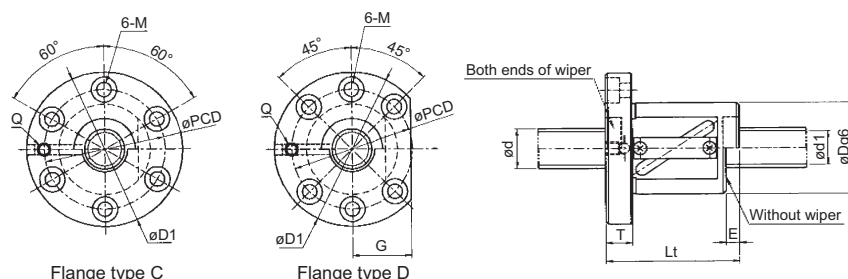
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR6306BS-CAPR	63	6	3.9688	59.6	1.5×2	22100	83500	450	100	65	P	4	18	142	C	—	—	—	—	—	—	Rc1/8	120	11	17.5	10.8	3.27	2.43
GR6306BS-DAPR	63	6	3.9688	59.6	1.5×2	22100	83500	450	100	65	P	4	18	142	D	—	—	—	—	—	53	Rc1/8	120	11	17.5	10.8	3.10	2.43
GR6306CS-CAPR	63	6	3.9688	59.6	1.5×3	31300	125300	650	100	77	P	4	18	142	C	—	—	—	—	—	—	Rc1/8	120	11	17.5	10.8	3.66	2.43
GR6306CS-DAPR	63	6	3.9688	59.6	1.5×3	31300	125300	650	100	77	P	4	18	142	D	—	—	—	—	—	53	Rc1/8	120	11	17.5	10.8	3.50	2.43
GR6308BS-CAPR	63	8	4.7625	59	1.5×2	27800	102500	460	104	78	P	5	22	150	C	—	—	—	—	—	—	Rc1/8	126	14	20	13	4.48	2.43
GR6308BS-DAPR	63	8	4.7625	59	1.5×2	27800	102500	460	104	78	P	5	22	150	D	—	—	—	—	—	57	Rc1/8	126	14	20	13	4.27	2.43
GR6308CS-CAPR	63	8	4.7625	59	1.5×3	39300	153800	660	104	94	P	5	22	150	C	—	—	—	—	—	—	Rc1/8	126	14	20	13	5.07	2.43
GR6308CS-DAPR	63	8	4.7625	59	1.5×3	39300	153800	660	104	94	P	5	22	150	D	—	—	—	—	—	57	Rc1/8	126	14	20	13	4.87	2.43

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C0-C10)



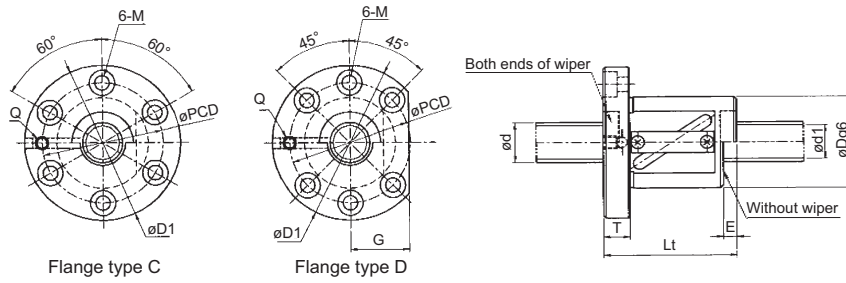
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions														Mass					
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions									Mounting hole M			
																W	X	Y	A	B	G	Q	PCD	Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR6310DS-CAPR	63	10	6.3500	58.2	2.5×1	36800	114900	400	108	75	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	4.65	2.43
GR6310DS-DAPR	63	10	6.3500	58.2	2.5×1	36800	114900	400	108	75	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	4.42	2.43
GR6310ES-CAPR	63	10	6.3500	58.2	2.5×2	66600	229800	760	108	105	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	5.86	2.43
GR6310ES-DAPR	63	10	6.3500	58.2	2.5×2	66600	229800	760	108	105	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	5.63	2.43
GR6310FS-CAPR	63	10	6.3500	58.2	2.5×3	94400	344700	1100	108	135	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	7.07	2.43
GR6310FS-DAPR	63	10	6.3500	58.2	2.5×3	94400	344700	1100	108	135	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	6.84	2.43
GR6312DS-CAPR	63	12	7.9375	56.8	2.5×1	48700	139000	400	115	83	P	7	22	161	C	—	—	—	—	—	—	Rc1/8	137	14	20	13	5.72	2.43
GR6312DS-DAPR	63	12	7.9375	56.8	2.5×1	48700	139000	400	115	83	P	7	22	161	D	—	—	—	—	—	61	Rc1/8	137	14	20	13	5.48	2.43
GR6312ES-CAPR	63	12	7.9375	56.8	2.5×2	88500	278000	760	115	119	P	7	22	161	C	—	—	—	—	—	—	Rc1/8	137	14	20	13	7.46	2.43
GR6312ES-DAPR	63	12	7.9375	56.8	2.5×2	88500	278000	760	115	119	P	7	22	161	D	—	—	—	—	—	61	Rc1/8	137	14	20	13	7.22	2.43
GR6312FS-CAPR	63	12	7.9375	56.8	2.5×3	125500	417000	1100	115	155	P	7	22	161	C	—	—	—	—	—	—	Rc1/8	137	14	20	13	9.20	2.43
GR6312FS-DAPR	63	12	7.9375	56.8	2.5×3	125500	417000	1100	115	155	P	7	22	161	D	—	—	—	—	—	61	Rc1/8	137	14	20	13	8.96	2.43
GR6316DS-CAPR	63	16	9.5250	55.6	2.5×1	80300	231000	450	122	115	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	9.53	2.43
GR6316DS-DAPR	63	16	9.5250	55.6	2.5×1	80300	231000	450	122	115	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	9.16	2.43
GR6316ES-CAPR	63	16	9.5250	55.6	2.5×2	145800	462000	850	122	163	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	12.25	2.43
GR6316ES-DAPR	63	16	9.5250	55.6	2.5×2	145800	462000	850	122	163	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	11.88	2.43
GR6320DS-CAPR	63	20	9.5250	55.6	2.5×1	80300	231000	460	122	115	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	9.53	2.43
GR6320DS-DAPR	63	20	9.5250	55.6	2.5×1	80300	231000	460	122	115	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	9.16	2.43
GR6320ES-CAPR	63	20	9.5250	55.6	2.5×2	145800	462000	860	122	175	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	12.93	2.43
GR6320ES-DAPR	63	20	9.5250	55.6	2.5×2	145800	462000	860	122	175	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	12.57	2.43

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.

• Wiper material P: Plastic wiper

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C1-C10)

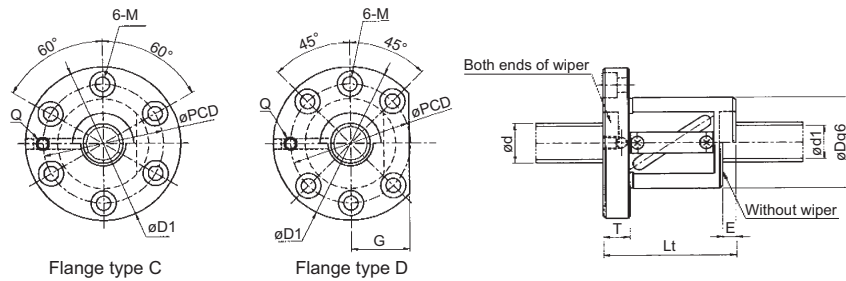


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D _g	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR7010ES-CAPR	70	10	6.3500	65.2	2.5×2	69100	252100	820	120	103	P	7	22	166	C	—	—	—	—	—	—	Rc1/8	142	14	20	13	6.99	3.00
GR7010ES-DAPR	70	10	6.3500	65.2	2.5×2	69100	252100	820	120	103	P	7	22	166	D	—	—	—	—	—	63	Rc1/8	142	14	20	13	6.74	3.00
GR7010FS-CAPR	70	10	6.3500	65.2	2.5×3	97900	378200	1190	120	133	P	7	22	166	C	—	—	—	—	—	—	Rc1/8	142	14	20	13	8.51	3.00
GR7010FS-DAPR	70	10	6.3500	65.2	2.5×3	97900	378200	1190	120	133	P	7	22	166	D	—	—	—	—	—	63	Rc1/8	142	14	20	13	8.26	3.00
GR7012ES-CAPR	70	12	7.9375	63.8	2.5×2	93400	312700	840	124	119	P	7	22	170	C	—	—	—	—	—	—	Rc1/8	146	14	20	13	8.36	3.00
GR7012ES-DAPR	70	12	7.9375	63.8	2.5×2	93400	312700	840	124	119	P	7	22	170	D	—	—	—	—	—	64	Rc1/8	146	14	20	13	8.08	3.00
GR7012FS-CAPR	70	12	7.9375	63.8	2.5×3	132400	469100	1200	124	155	P	7	22	170	C	—	—	—	—	—	—	Rc1/8	146	14	20	13	10.34	3.00
GR7012FS-DAPR	70	12	7.9375	63.8	2.5×3	132400	469100	1200	124	155	P	7	22	170	D	—	—	—	—	—	64	Rc1/8	146	14	20	13	10.06	3.00
GR7016ES-CAPR	70	16	9.5250	62.6	2.5×2	152100	508000	920	130	163	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	13.45	3.00
GR7016ES-DAPR	70	16	9.5250	62.6	2.5×2	152100	508000	920	130	163	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	13.03	3.00
GR7016FS-CAPR	70	16	9.5250	62.6	2.5×3	215600	762000	1410	130	211	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	16.44	3.00
GR7016FS-DAPR	70	16	9.5250	62.6	2.5×3	215600	762000	1410	130	211	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	16.02	3.00
GR7020ES-CAPR	70	20	9.5250	62.6	2.5×2	152100	508000	920	130	175	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	14.20	3.00
GR7020ES-DAPR	70	20	9.5250	62.6	2.5×2	152100	508000	920	130	175	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	13.77	3.00
GR7020FS-CAPR	70	20	9.5250	62.6	2.5×3	215600	762000	1410	130	235	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	17.94	3.00
GR7020FS-DAPR	70	20	9.5250	62.6	2.5×3	215600	762000	1410	130	235	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	17.51	3.00

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper

Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C1-C10)

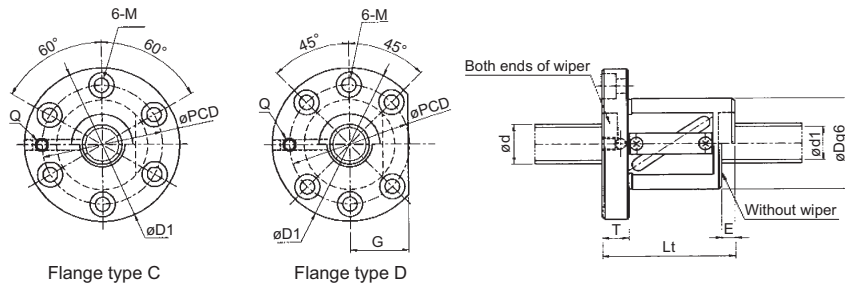


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D _g	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR8010ES-CAPR	80	10	6.3500	75.2	2.5×2	73100	289100	910	130	103	P	7	22	176	C	—	—	—	—	—	—	Rc1/8	152	14	20	13	7.64	3.92
GR8010ES-DAPR	80	10	6.3500	75.2	2.5×2	73100	289100	910	130	103	P	7	22	176	D	—	—	—	—	—	66	Rc1/8	152	14	20	13	7.34	3.92
GR8010FS-CAPR	80	10	6.3500	75.2	2.5×3	103700	433700	1320	130	133	P	7	22	176	C	—	—	—	—	—	—	Rc1/8	152	14	20	13	9.32	3.92
GR8010FS-DAPR	80	10	6.3500	75.2	2.5×3	103700	433700	1320	130	133	P	7	22	176	D	—	—	—	—	—	66	Rc1/8	152	14	20	13	9.02	3.92
GR8012ES-CAPR	80	12	7.9375	73.8	2.5×2	99400	359100	940	136	119	P	7	22	182	C	—	—	—	—	—	—	Rc1/8	158	14	20	13	9.54	3.92
GR8012ES-DAPR	80	12	7.9375	73.8	2.5×2	99400	359100	940	136	119	P	7	22	182	D	—	—	—	—	—	68	Rc1/8	158	14	20	13	9.22	3.92
GR8012FS-CAPR	80	12	7.9375	73.8	2.5×3	140700	538700	1350	136	155	P	7	22	182	C	—	—	—	—	—	—	Rc1/8	158	14	20	13	11.83	3.92
GR8012FS-DAPR	80	12	7.9375	73.8	2.5×3	140700	538700	1350	136	155	P	7	22	182	D	—	—	—	—	—	68	Rc1/8	158	14	20	13	11.51	3.92
GR8016ES-CAPR	80	16	9.5250	72.6	2.5×2	165200	600500	1050	143	161	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	15.45	3.92
GR8016ES-DAPR	80	16	9.5250	72.6	2.5×2	165200	600500	1050	143	161	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	14.95	3.92
GR8016FS-CAPR	80	16	9.5250	72.6	2.5×3	234100	900800	1520	143	209	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	18.97	3.92
GR8016FS-DAPR	80	16	9.5250	72.6	2.5×3	234100	900800	1520	143	209	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	18.47	3.92
GR8020ES-CAPR	80	20	9.5250	72.6	2.5×2	165200	600500	1050	143	173	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	16.33	3.92
GR8020ES-DAPR	80	20	9.5250	72.6	2.5×2	165200	600500	1050	143	173	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	15.83	3.92
GR8020FS-CAPR	80	20	9.5250	72.6	2.5×3	234100	900800	1620	143	233	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	20.73	3.92
GR8020FS-DAPR	80	20	9.5250	72.6	2.5×3	234100	900800	1620	143	233	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	20.23	3.92

Note: • The rigidity indicated with the *mark in the above list represents the operational value based on the result of rigidity testing. This value is calculated from the elastic displacement measured when the axial load equivalent to 30% of basic dynamic load rating (C) is applied between the screw thread and the balls.
• Wiper material P: Plastic wiper

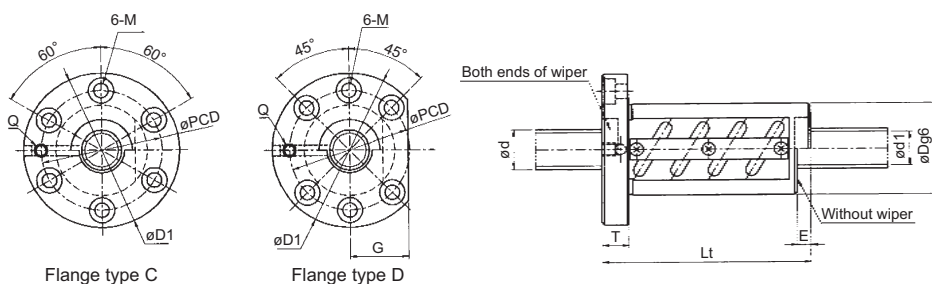
Custom Ball Screw: TUBE METHOD SINGLE NUT (Accuracy grade C1-C10)



(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GRA012ES-CAPR	100	12	7.9375	93.8	2.5x2	109450	451800	1130	160	123	P	6	28	220	C	—	—	—	—	—	—	Rc1/8	188	18	26	17.5	14.07	6.13
GRA012ES-DAPR	100	12	7.9375	93.8	2.5x2	109450	451800	1130	160	123	P	6	28	220	D	—	—	—	—	—	82	Rc1/8	188	18	26	17.5	13.46	6.13
GRA012FS-CAPR	100	12	7.9375	93.8	2.5x3	155000	677700	1630	160	159	P	6	28	220	C	—	—	—	—	—	—	Rc1/8	188	18	26	17.5	17.05	6.13
GRA012FS-DAPR	100	12	7.9375	93.8	2.5x3	155000	677700	1630	160	159	P	6	28	220	D	—	—	—	—	—	82	Rc1/8	188	18	26	17.5	16.43	6.13
GRA016ES-CAPR	100	16	9.5250	92.6	2.5x2	180000	739000	1250	170	165	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	22.44	6.13
GRA016ES-DAPR	100	16	9.5250	92.6	2.5x2	180000	739000	1250	170	165	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	21.60	6.13
GRA016FS-CAPR	100	16	9.5250	92.6	2.5x3	255000	1108500	1800	170	213	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	27.25	6.13
GRA016FS-DAPR	100	16	9.5250	92.6	2.5x3	255000	1108500	1800	170	213	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	26.41	6.13
GRA020ES-CAPR	100	20	9.5250	92.6	2.5x2	180000	739000	1250	170	177	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	23.64	6.13
GRA020ES-DAPR	100	20	9.5250	92.6	2.5x2	180000	739000	1250	170	177	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	22.80	6.13
GRA020FS-CAPR	100	20	9.5250	92.6	2.5x3	255000	1108500	1910	170	237	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	29.65	6.13
GRA020FS-DAPR	100	20	9.5250	92.6	2.5x3	255000	1108500	1910	170	237	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	28.81	6.13
GRC516ES-CAPR	125	16	9.5250	117.6	2.5x2	200400	946900	1520	200	169	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	31.70	9.57
GRC516ES-DAPR	125	16	9.5250	117.6	2.5x2	200400	946900	1520	200	169	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	30.38	9.57
GRC516FS-CAPR	125	16	9.5250	117.6	2.5x3	284100	1420400	2190	200	217	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	37.94	9.57
GRC516FS-DAPR	125	16	9.5250	117.6	2.5x3	284100	1420400	2190	200	217	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	36.62	9.57
GRC520ES-CAPR	125	20	9.5250	117.6	2.5x2	200400	946900	1520	200	181	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	33.26	9.57
GRC520ES-DAPR	125	20	9.5250	117.6	2.5x2	200400	946900	1520	200	181	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	31.94	9.57
GRC520FS-CAPR	125	20	9.5250	117.6	2.5x3	284100	1420400	2190	200	241	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	41.06	9.57
GRC520FS-DAPR	125	20	9.5250	117.6	2.5x3	284100	1420400	2190	200	241	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	39.74	9.57

Custom Ball Screw: TUBE METHOD INTEGRAL NUT (Accuracy grade C0-C5)

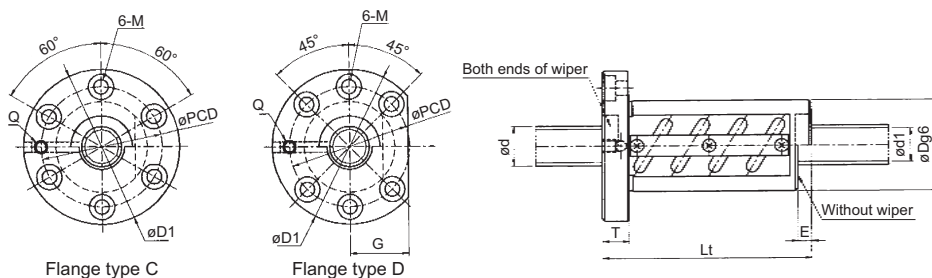


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G				Q			
																						Drill	Spot facing	Depth		Nut (kg)	Screw shaft (kg/100mm)	
GR3205DT-CALR	32	5	3.1750	29.5	2.5×1	10500	28600	370	58	58	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	1.02	0.63
GR3205DT-DALR	32	5	3.1750	29.5	2.5×1	10500	28600	370	58	58	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	0.98	0.63
GR3205ET-CALR	32	5	3.1750	29.5	2.5×2	19000	57200	690	58	88	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	1.40	0.63
GR3205ET-DALR	32	5	3.1750	29.5	2.5×2	19000	57200	690	58	88	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	1.36	0.63
GR3206DT-CALR	32	6	3.9688	28.6	2.5×1	14400	35500	380	62	67	L	5	12	89	C	—	—	—	—	—	—	M6	75	6.6	11	6.5	1.32	0.63
GR3206DT-DALR	32	6	3.9688	28.6	2.5×1	14400	35500	380	62	67	L	5	12	89	D	—	—	—	—	—	34	M6	75	6.6	11	6.5	1.28	0.63
GR3206ET-CALR	32	6	3.9688	28.6	2.5×2	26000	71000	710	62	103	L	5	12	89	C	—	—	—	—	—	—	M6	75	6.6	11	6.5	1.87	0.63
GR3206ET-DALR	32	6	3.9688	28.6	2.5×2	26000	71000	710	62	103	L	5	12	89	D	—	—	—	—	—	34	M6	75	6.6	11	6.5	1.83	0.63
GR3208DT-CALR	32	8	4.7625	28	2.5×1	17800	41700	380	66	81	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.97	0.63
GR3208DT-DALR	32	8	4.7625	28	2.5×1	17800	41700	380	66	81	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.91	0.63
GR3208BT-CALR	32	8	4.7625	28	1.5×2	20900	50000	440	66	105	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	2.40	0.63
GR3208BT-DALR	32	8	4.7625	28	1.5×2	20900	50000	440	66	105	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	2.34	0.63
GR3210AT-CALR	32	10	6.3500	27.2	1.5×1	16600	33400	230	74	88	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.65	0.63
GR3210AT-DALR	32	10	6.3500	27.2	1.5×1	16600	33400	230	74	88	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.57	0.63
GR3210DT-CALR	32	10	6.3500	27.2	2.5×1	25800	55600	380	74	98	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	2.88	0.63
GR3210DT-DALR	32	10	6.3500	27.2	2.5×1	25800	55600	380	74	98	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	2.81	0.63

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 L: Lip seal

Custom Ball Screw: TUBE METHOD INTEGRAL NUT (Accuracy grade C0-C5)

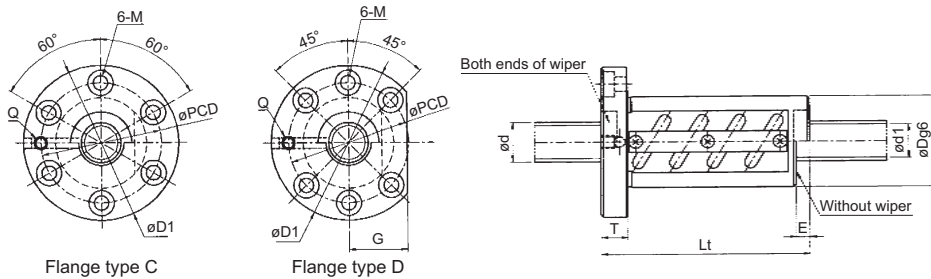


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR3605DT-CAPR	36	5	3.1750	33.5	2.5×1	11000	32300	400	64	61	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	1.44	0.79
GR3605DT-DAPR	36	5	3.1750	33.5	2.5×1	11000	32300	400	64	61	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	1.38	0.79
GR3605ET-CAPR	36	5	3.1750	33.5	2.5×2	20100	64600	750	64	91	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	1.89	0.79
GR3605ET-DAPR	36	5	3.1750	33.5	2.5×2	20100	64600	750	64	91	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	1.84	0.79
GR3606DT-CAPR	36	6	3.9688	32.6	2.5×1	15100	39800	410	66	70	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.67	0.79
GR3606DT-DAPR	36	6	3.9688	32.6	2.5×1	15100	39800	410	66	70	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.61	0.79
GR3606ET-CAPR	36	6	3.9688	32.6	2.5×2	27200	79600	770	66	106	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	2.26	0.79
GR3606ET-DAPR	36	6	3.9688	32.6	2.5×2	27200	79600	770	66	106	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	2.20	0.79
GR3610AT-CAPR	36	10	6.3500	31.2	1.5×1	17800	37800	260	76	88	P	8	15	110	C	—	—	—	—	—	—	M6	92	9	14	8.6	2.64	0.79
GR3610AT-DAPR	36	10	6.3500	31.2	1.5×1	17800	37800	260	76	88	P	8	15	110	D	—	—	—	—	—	42	M6	92	9	14	8.6	2.56	0.79
GR3610DT-CAPR	36	10	6.3500	31.2	2.5×1	27600	63000	420	76	98	P	8	15	110	C	—	—	—	—	—	—	M6	92	9	14	8.6	2.87	0.79
GR3610DT-DAPR	36	10	6.3500	31.2	2.5×1	27600	63000	420	76	98	P	8	15	110	D	—	—	—	—	—	42	M6	92	9	14	8.6	2.80	0.79
GR3610GT-CAPR	36	10	6.3500	31.2	3.5×1	36900	88200	580	76	118	P	8	15	110	C	—	—	—	—	—	—	M6	92	9	14	8.6	3.34	0.79
GR3610GT-DAPR	36	10	6.3500	31.2	3.5×1	36900	88200	580	76	118	P	8	15	110	D	—	—	—	—	—	42	M6	92	9	14	8.6	3.27	0.79

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

Custom Ball Screw: TUBE METHOD INTEGRAL NUT (Accuracy grade C0-C5)

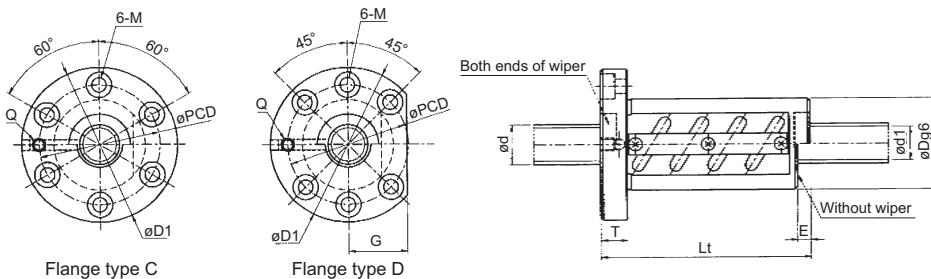


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions														Mass					
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions									Mounting hole			
																W	X	Y	A	B	G	Q						
																Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)								
GR4006DT-CAPR	40	6	3.9688	36.6	2.5×1	14200	44000	430	70	70	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	1.78	0.98
GR4006DT-DAPR	40	6	3.9688	36.6	2.5×1	14200	44000	430	70	70	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	1.72	0.98
GR4006ET-CAPR	40	6	3.9688	36.6	2.5×2	28300	88000	850	70	106	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	2.42	0.98
GR4006ET-DAPR	40	6	3.9688	36.6	2.5×2	28300	88000	850	70	106	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	2.35	0.98
GR4008DT-CALR	40	8	4.7625	36	2.5×1	19600	54200	460	74	81	L	6	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	2.24	0.98
GR4008DT-DALR	40	8	4.7625	36	2.5×1	19600	54200	460	74	81	L	6	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	2.17	0.98
GR4008ET-CALR	40	8	4.7625	36	2.5×2	35600	108400	870	74	129	L	6	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	3.23	0.98
GR4008ET-DALR	40	8	4.7625	36	2.5×2	35600	108400	870	74	129	L	6	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	3.16	0.98
GR4010DT-CALR	40	10	6.3500	35.2	2.5×1	29300	74300	460	82	101	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	3.67	0.98
GR4010DT-DALR	40	10	6.3500	35.2	2.5×1	29300	74300	460	82	101	L	8	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	3.56	0.98
GR4010BT-CALR	40	10	6.3500	35.2	1.5×2	34200	89200	560	82	131	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	4.48	0.98
GR4010BT-DALR	40	10	6.3500	35.2	1.5×2	34200	89200	560	82	131	L	8	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	4.36	0.98
GR4010GT-CALR	40	10	6.3500	35.2	3.5×1	39100	104000	640	82	121	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	4.21	0.98
GR4010GT-DALR	40	10	6.3500	35.2	3.5×1	39100	104000	640	82	121	L	8	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	4.09	0.98
GR4012DT-CALR	40	12	7.1438	34.6	2.5×1	35100	79000	490	86	117	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.55	0.98
GR4012DT-DALR	40	12	7.1438	34.6	2.5×1	35100	79000	490	86	117	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	4.42	0.98
GR4510DT-CALR	45	10	6.3500	40.2	2.5×1	31500	81500	530	86	101	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	3.81	1.24
GR4510DT-DALR	45	10	6.3500	40.2	2.5×1	31500	81500	530	86	101	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	3.68	1.24
GR4510ET-CALR	45	10	6.3500	40.2	2.5×2	57200	163000	990	86	161	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	5.49	1.24
GR4510ET-DALR	45	10	6.3500	40.2	2.5×2	57200	163000	990	86	161	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	5.36	1.24
GR4512DT-CALR	45	12	7.9375	38.8	2.5×1	41200	98500	520	94	119	L	7	22	140	C	—	—	—	—	—	—	Rc1/8	116	14	20	13	5.68	1.24
GR4512DT-DALR	45	12	7.9375	38.8	2.5×1	41200	98500	520	94	119	L	7	22	140	D	—	—	—	—	—	53	Rc1/8	116	14	20	13	5.50	1.24

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

Custom Ball Screw: TUBE METHOD INTEGRAL NUT (Accuracy grade C0-C5)



(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions														Mass					
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions									Mounting hole			
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR5010DT-CALR	50	10	6.3500	45.2	2.5×1	32800	88900	560	93	101	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	4.31	1.53
GR5010DT-DALR	50	10	6.3500	45.2	2.5×1	32800	88900	560	93	101	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	4.17	1.53
GR5010ET-CALR	50	10	6.3500	45.2	2.5×2	59400	177800	1060	93	161	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	6.24	1.53
GR5010ET-DALR	50	10	6.3500	45.2	2.5×2	59400	177800	1060	93	161	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	6.10	1.53
GR5012DT-CALR	50	12	7.9375	43.8	2.5×1	42600	110000	560	100	119	L	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	6.19	1.53
GR5012DT-DALR	50	12	7.9375	43.8	2.5×1	42600	110000	560	100	119	L	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	5.98	1.53
GR5510DT-CALR	55	10	6.3500	50.2	2.5×1	31400	100100	600	100	105	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	5.38	1.85
GR5510DT-DALR	55	10	6.3500	50.2	2.5×1	31400	100100	600	100	105	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	5.18	1.85
GR5510ET-CALR	55	10	6.3500	50.2	2.5×2	62700	200200	1170	100	165	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	7.59	1.85
GR5510ET-DALR	55	10	6.3500	50.2	2.5×2	62700	200200	1170	100	165	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	7.38	1.85
GR6310DT-CAPR	63	10	6.3500	58.2	2.5×1	36800	114900	700	108	105	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	5.86	2.43
GR6310DT-DAPR	63	10	6.3500	58.2	2.5×1	36800	114900	700	108	105	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	5.63	2.43
GR6310ET-CAPR	63	10	6.3500	58.2	2.5×2	66600	229800	1310	108	165	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	8.28	2.43
GR6310ET-DAPR	63	10	6.3500	58.2	2.5×2	66600	229800	1310	108	165	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	8.05	2.43
GR6312DT-CAPR	63	12	7.9375	56.8	2.5×1	48700	139000	700	115	119	P	7	22	161	C	—	—	—	—	—	—	Rc1/8	137	14	20	13	7.46	2.43
GR6312DT-DAPR	63	12	7.9375	56.8	2.5×1	48700	139000	700	115	119	P	7	22	161	D	—	—	—	—	—	61	Rc1/8	137	14	20	13	7.22	2.43

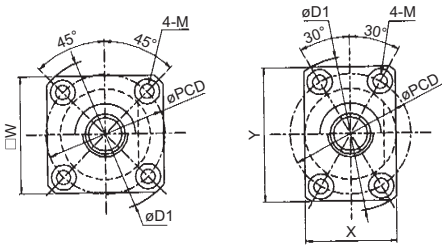
Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

GR series

Screw shaft diameter ø8-ø12

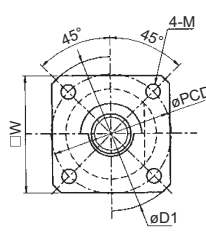
GR series

Screw shaft diameter ø15-ø16

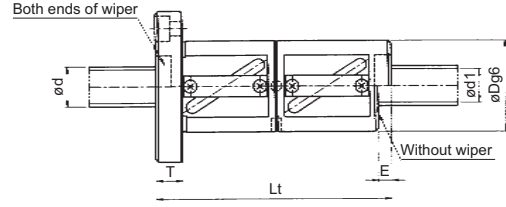


Flange type A

Flange type B



Flange type E



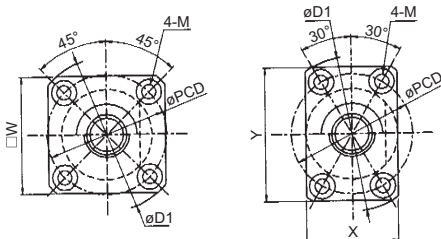
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							PCD	Mounting hole				
																W	X	Y	A	B	G	Q		M				
																								Drill	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	A	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	0.14	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-EAFL	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	0.06
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	0.24	0.06
GR1004DD-BAPR	10	4	2.3812	8.1	2.5×1	3350	5900	120	26	65	P	3	8	46	B	—	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	P	5	8	45	A	35	—	—	—	—	—	—	34	4.5	8	4.4	0.26	0.06
GR1005DD-BAPR	10	5	2.3812	8.1	2.5×1	3350	5900	120	26	70	P	5	8	46	B	—	28	42	—	—	—	—	36	4.5	8	4.4	0.26	0.06
GR1202DD-AAPR	12	2	1.5875	10.6	2.5×1	2450	4100	140	25	59	P	5	8	44	A	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	A	35	—	—	—	—	—	—	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	P	5	8	45	A	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	A	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	A	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	B	—	32	45	—	—	—	—	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	P	3	10	54	A	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	P	3	10	54	B	—	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.

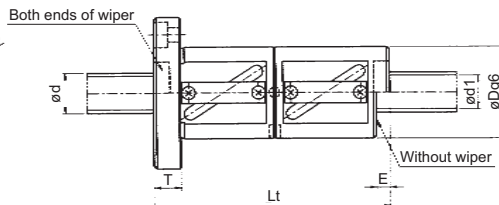
• Wiper material F: Felt wiper, P: Plastic wiper, L: Lip seal

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)



Flange type A

Flange type B



(Unit: mm)

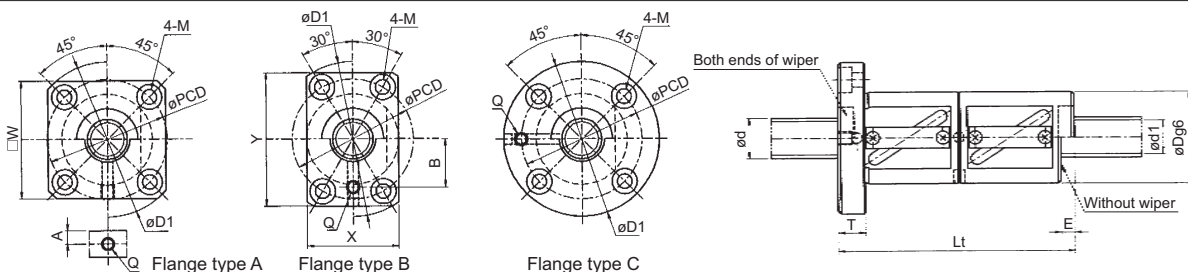
Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q						
																							M				Nut (kg)	Screw shaft (kg/100mm)
Drill	Spot facing	Depth																										
GR1502DD-AAPR	15	2	1.5875	13.6	2.5×1	2700	5500	180	30	61	P	5	10	54	A	41	—	—	—	—	—	—	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	P	5	10	54	B	—	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	P	4	10	54	A	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	P	4	10	54	B	—	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	P	5	10	54	A	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	P	5	10	54	B	—	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	A	43	—	—	—	—	—	—	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	B	—	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	A	44	—	—	—	—	—	—	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	B	—	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	P	3	10	58	A	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	P	3	10	58	B	—	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	P	3	10	58	A	44	—	—	—	—	—	—	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	P	3	10	58	B	—	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	A	46	—	—	—	—	—	—	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	B	—	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	P	3	10	59	A	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	P	3	10	59	B	—	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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

GR series



(Unit: mm)

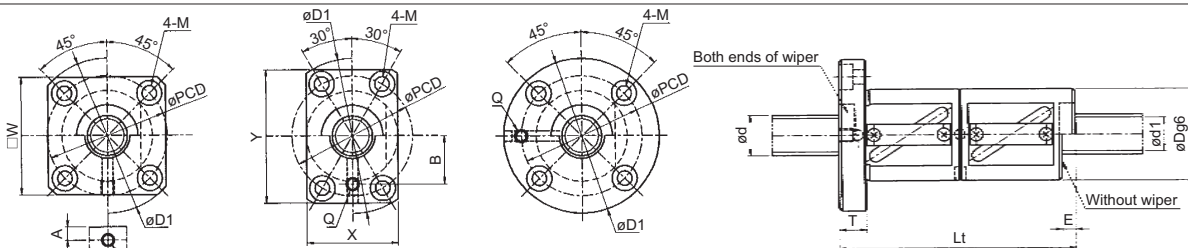
Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{nut} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	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	P	4	10	62	A	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	P	4	10	62	C	—	—	—	—	—	—	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	A	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	C	—	—	—	—	—	—	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	A	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	C	—	—	—	—	—	—	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	A	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	C	—	—	—	—	—	—	M6	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	B	—	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	C	—	—	—	—	—	—	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	A	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	C	—	—	—	—	—	—	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	P	5	12	72	A	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	P	5	12	72	C	—	—	—	—	—	—	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	P	5	12	72	A	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	P	5	12	72	C	—	—	—	—	—	—	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	P	5	15	74	A	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	P	5	15	74	C	—	—	—	—	—	—	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	A	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	B	—	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	A	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	B	—	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 shaft diameter ø20

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

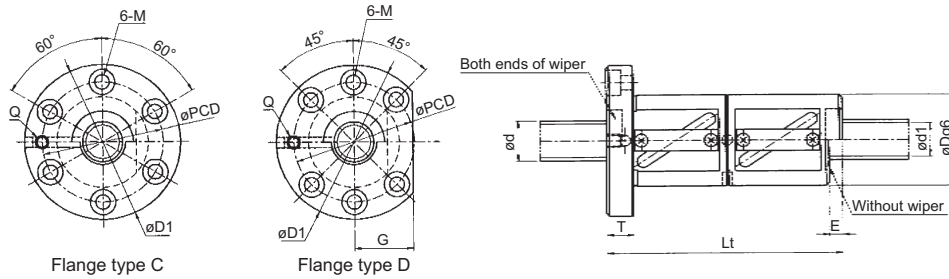
GR series



(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	Rigidity K _{nut} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth		
																											Nut (kg)	Screw shaft (kg/100mm)
GR2504DD-AAPR	25	4	2.3812	23.1	2.5×1	5200	14400	280	46	75	P	3	12	74	A	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	P	3	12	74	C	—	—	—	—	—	—	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	P	3	12	74	A	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	P	3	12	74	C	—	—	—	—	—	—	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	A	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	C	—	—	—	—	—	—	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	A	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	C	—	—	—	—	—	—	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	A	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	C	—	—	—	—	—	—	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	A	59	—	—	7.5	—	—	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	C	—	—	—	—	—	—	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	A	59	—	—	7.5	—	—	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	C	—	—	—	—	—	—	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	A	59	—	—	7.5	—	—	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	C	—	—	—	—	—	—	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	P	5	15	86	A	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	P	5	15	86	C	—	—	—	—	—	—	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	P	6	15	86	A	66	—	—	10	—	—	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	P	6	15	86	C	—	—	—	—	—	—	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	A	66	—	—	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	B	—	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	A	66	—	—	10	—	—	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	B	—	52	78	—	30	—	M6	68	9	14	8.6	1.68	0.38

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)



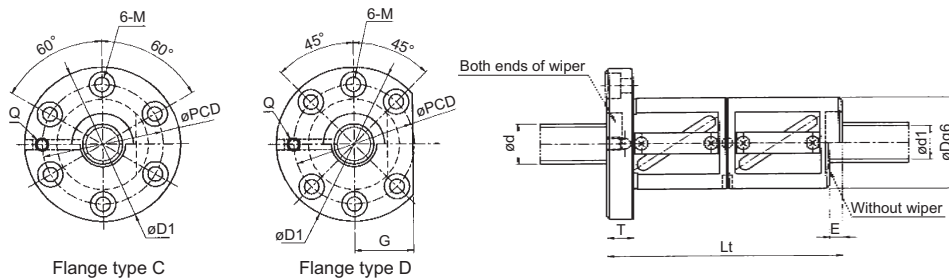
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q				PCD		
																							M				Nut (kg)	Screw shaft (kg/100mm)
GR2805DD-CAPR	28	5	3.1750	25.5	2.5×1	9800	24900	330	54	73	P	5	12	82	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	1.12	0.48
GR2805DD-DAPR	28	5	3.1750	25.5	2.5×1	9800	24900	330	54	73	P	5	12	82	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	1.09	0.48
GR2805ED-CAPR	28	5	3.1750	25.5	2.5×2	17900	49800	610	54	103	P	5	12	82	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	1.47	0.48
GR2805ED-DAPR	28	5	3.1750	25.5	2.5×2	17900	49800	610	54	103	P	5	12	82	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	1.44	0.48
GR2810DD-CAPR	28	10	4.7625	24	2.5×1	17000	37600	340	56	115	P	5	15	84	C	—	—	—	—	—	—	M6	69	6.6	11	6.5	1.76	0.48
GR2810DD-DAPR	28	10	4.7625	24	2.5×1	17000	37600	340	56	115	P	5	15	84	D	—	—	—	—	—	32	M6	69	6.6	11	6.5	1.72	0.48

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)



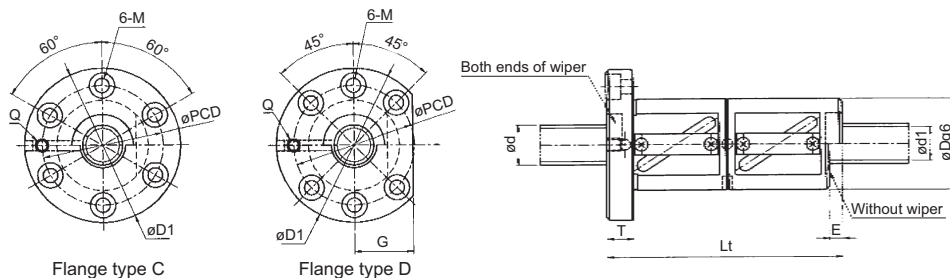
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q				PCD		
																							M				Nut (kg)	Screw shaft (kg/100mm)
Drill	Spot facing	Depth																										
GR3204DD-CAPR	32	4	2.3812	30.1	2.5×1	5800	18900	330	54	75	P	3	12	81	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	1.04	0.63
GR3204DD-DAPR	32	4	2.3812	30.1	2.5×1	5800	18900	330	54	75	P	3	12	81	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	1.01	0.63
GR3204ED-CAPR	32	4	2.3812	30.1	2.5×2	10500	37800	610	54	91	P	3	12	81	C	—	—	—	—	—	—	M6	67	6.6	11	6.5	1.21	0.63
GR3204ED-DAPR	32	4	2.3812	30.1	2.5×2	10500	37800	610	54	91	P	3	12	81	D	—	—	—	—	—	31	M6	67	6.6	11	6.5	1.18	0.63
GR3205DD-CALR	32	5	3.1750	29.5	2.5×1	10500	28600	370	58	73	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	1.21	0.63
GR3205DD-DALR	32	5	3.1750	29.5	2.5×1	10500	28600	370	58	73	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	1.17	0.63
GR3205ED-CALR	32	5	3.1750	29.5	2.5×2	19000	57200	690	58	103	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	1.59	0.63
GR3205ED-DALR	32	5	3.1750	29.5	2.5×2	19000	57200	690	58	103	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	1.55	0.63
GR3205FD-CALR	32	5	3.1750	29.5	2.5×3	26900	85800	990	58	133	L	5	12	85	C	—	—	—	—	—	—	M6	71	6.6	11	6.5	1.96	0.63
GR3205FD-DALR	32	5	3.1750	29.5	2.5×3	26900	85800	990	58	133	L	5	12	85	D	—	—	—	—	—	32	M6	71	6.6	11	6.5	1.93	0.63
GR3206DD-CALR	32	6	3.9688	28.6	2.5×1	14400	35500	380	62	85	L	5	12	89	C	—	—	—	—	—	—	M6	75	6.6	11	6.5	1.59	0.63
GR3206DD-DALR	32	6	3.9688	28.6	2.5×1	14400	35500	380	62	85	L	5	12	89	D	—	—	—	—	—	34	M6	75	6.6	11	6.5	1.55	0.63
GR3206ED-CALR	32	6	3.9688	28.6	2.5×2	26000	71000	710	62	121	L	5	12	89	C	—	—	—	—	—	—	M6	75	6.6	11	6.5	2.14	0.63
GR3206ED-DALR	32	6	3.9688	28.6	2.5×2	26000	71000	710	62	121	L	5	12	89	D	—	—	—	—	—	34	M6	75	6.6	11	6.5	2.10	0.63
GR3208BD-CALR	32	8	4.7625	28	1.5×2	20900	50000	440	66	129	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	2.83	0.63
GR3208BD-DALR	32	8	4.7625	28	1.5×2	20900	50000	440	66	129	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	2.77	0.63
GR3208DD-CALR	32	8	4.7625	28	2.5×1	17800	41700	380	66	97	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	2.26	0.63
GR3208DD-DALR	32	8	4.7625	28	2.5×1	17800	41700	380	66	97	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	2.19	0.63
GR3208ED-CALR	32	8	4.7625	28	2.5×2	32300	83400	590	66	145	L	6	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	3.12	0.63
GR3208ED-DALR	32	8	4.7625	28	2.5×2	32300	83400	590	66	145	L	6	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	3.05	0.63

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)



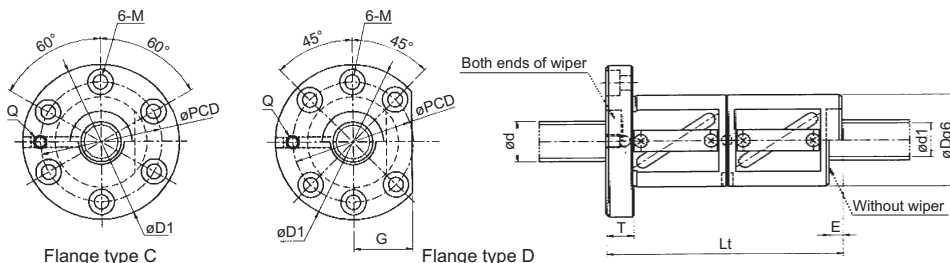
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR3210BD-CALR	32	10	6.3500	27.2	1.5×2	30300	66700	450	74	158	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	4.30	0.63
GR3210BD-DALR	32	10	6.3500	27.2	1.5×2	30300	66700	450	74	158	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	4.23	0.63
GR3210DD-CALR	32	10	6.3500	27.2	2.5×1	25800	55600	380	74	118	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	3.35	0.63
GR3210DD-DALR	32	10	6.3500	27.2	2.5×1	25800	55600	380	74	118	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	3.28	0.63
GR3210ED-CALR	32	10	6.3500	27.2	2.5×2	46900	111200	720	74	178	L	8	15	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	4.77	0.63
GR3210ED-DALR	32	10	6.3500	27.2	2.5×2	46900	111200	720	74	178	L	8	15	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	4.70	0.63
GR3212DD-CAPR	32	12	6.3500	27.2	2.5×1	25800	55600	420	74	141	P	8	18	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	4.01	0.63
GR3212DD-DAPR	32	12	6.3500	27.2	2.5×1	25800	55600	420	74	141	P	8	18	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	3.92	0.63
GR3212GD-CAPR	32	12	6.3500	27.2	3.5×1	34500	77800	570	74	165	P	8	18	108	C	—	—	—	—	—	—	M6	90	9	14	8.6	4.58	0.63
GR3212GD-DAPR	32	12	6.3500	27.2	3.5×1	34500	77800	570	74	165	P	8	18	108	D	—	—	—	—	—	41	M6	90	9	14	8.6	4.49	0.63

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)



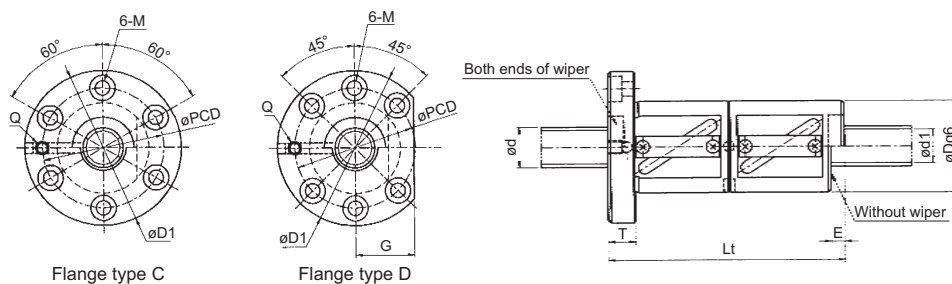
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{iso} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR3605DD-CAPR	36	5	3.1750	33.5	2.5×1	11000	32300	400	64	76	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	1.67	0.79
GR3605DD-DAPR	36	5	3.1750	33.5	2.5×1	11000	32300	400	64	76	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	1.61	0.79
GR3605ED-CAPR	36	5	3.1750	33.5	2.5×2	20100	64600	750	64	106	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	2.12	0.79
GR3605ED-DAPR	36	5	3.1750	33.5	2.5×2	20100	64600	750	64	106	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	2.07	0.79
GR3605FD-CAPR	36	5	3.1750	33.5	2.5×3	28300	96900	1080	64	136	P	5	15	98	C	—	—	—	—	—	—	M6	80	9	14	8.6	2.58	0.79
GR3605FD-DAPR	36	5	3.1750	33.5	2.5×3	28300	96900	1080	64	136	P	5	15	98	D	—	—	—	—	—	38	M6	80	9	14	8.6	2.53	0.79
GR3606DD-CAPR	36	6	3.9688	32.6	2.5×1	15100	39800	410	66	88	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	1.97	0.79
GR3606DD-DAPR	36	6	3.9688	32.6	2.5×1	15100	39800	410	66	88	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	1.90	0.79
GR3606ED-CAPR	36	6	3.9688	32.6	2.5×2	27200	79600	770	66	124	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	2.56	0.79
GR3606ED-DAPR	36	6	3.9688	32.6	2.5×2	27200	79600	770	66	124	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	2.49	0.79
GR3606FD-CAPR	36	6	3.9688	32.6	2.5×3	38500	119400	1090	66	160	P	5	15	100	C	—	—	—	—	—	—	M6	82	9	14	8.6	3.15	0.79
GR3606FD-DAPR	36	6	3.9688	32.6	2.5×3	38500	119400	1090	66	160	P	5	15	100	D	—	—	—	—	—	38	M6	82	9	14	8.6	3.09	0.79
GR3608DD-CAPR	36	8	4.7625	32	2.5×1	19200	47900	410	70	97	P	6	15	104	C	—	—	—	—	—	—	M6	86	9	14	8.6	2.41	0.79
GR3608DD-DAPR	36	8	4.7625	32	2.5×1	19200	47900	410	70	97	P	6	15	104	D	—	—	—	—	—	40	M6	86	9	14	8.6	2.35	0.79
GR3608ED-CAPR	36	8	4.7625	32	2.5×2	34700	95800	780	70	145	P	6	15	104	C	—	—	—	—	—	—	M6	86	9	14	8.6	3.34	0.79
GR3608ED-DAPR	36	8	4.7625	32	2.5×2	34700	95800	780	70	145	P	6	15	104	D	—	—	—	—	—	40	M6	86	9	14	8.6	3.28	0.79
GR3610DD-CALR	36	10	6.3500	31.2	2.5×1	27600	63000	420	76	118	L	8	15	110	C	—	—	—	—	—	—	M6	92	9	14	8.6	3.34	0.79
GR3610DD-DALR	36	10	6.3500	31.2	2.5×1	27600	63000	420	76	118	L	8	15	110	D	—	—	—	—	—	42	M6	92	9	14	8.6	3.27	0.79
GR3610ED-CALR	36	10	6.3500	31.2	2.5×2	50100	126000	800	76	178	L	8	15	110	C	—	—	—	—	—	—	M6	92	9	14	8.6	4.74	0.79
GR3610ED-DALR	36	10	6.3500	31.2	2.5×2	50100	126000	800	76	178	L	8	15	110	D	—	—	—	—	—	42	M6	92	9	14	8.6	4.67	0.79
GR3612DD-CAPR	36	12	7.1438	30.6	2.5×1	32800	69700	440	81	141	P	8	18	123	C	—	—	—	—	—	—	M6	101	11	17.5	10.8	4.84	0.79
GR3612DD-DAPR	36	12	7.1438	30.6	2.5×1	32800	69700	440	81	141	P	8	18	123	D	—	—	—	—	—	47	M6	101	11	17.5	10.8	4.73	0.79
GR3612GD-CAPR	36	12	7.1438	30.6	3.5×1	43700	97600	600	81	165	P	8	18	123	C	—	—	—	—	—	—	M6	101	11	17.5	10.8	5.51	0.79
GR3612GD-DAPR	36	12	7.1438	30.6	3.5×1	43700	97600	600	81	165	P	8	18	123	D	—	—	—	—	—	47	M6	101	11	17.5	10.8	5.40	0.79

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

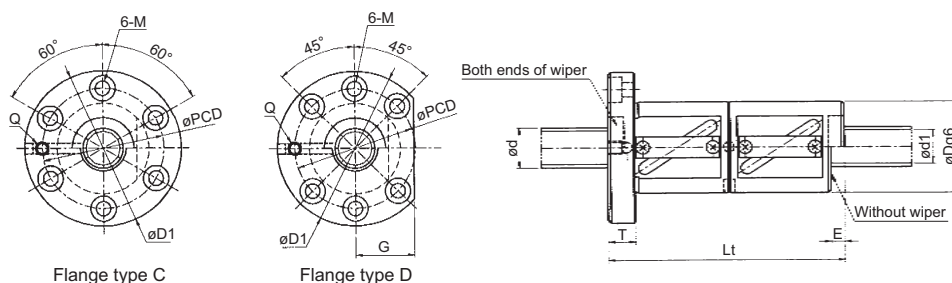


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{st} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR4005DD-CAPR	40	5	3.1750	37.5	2.5×1	11600	36000	430	67	76	P	5	15	101	C	—	—	—	—	—	—	Rc1/8	83	9	14	8.6	1.71	0.98
GR4005DD-DAPR	40	5	3.1750	37.5	2.5×1	11600	36000	430	67	76	P	5	15	101	D	—	—	—	—	—	39	Rc1/8	83	9	14	8.6	1.65	0.98
GR4005ED-CAPR	40	5	3.1750	37.5	2.5×2	21000	72000	800	67	106	P	5	15	101	C	—	—	—	—	—	—	Rc1/8	83	9	14	8.6	2.18	0.98
GR4005ED-DAPR	40	5	3.1750	37.5	2.5×2	21000	72000	800	67	106	P	5	15	101	D	—	—	—	—	—	39	Rc1/8	83	9	14	8.6	2.12	0.98
GR4005FD-CAPR	40	5	3.1750	37.5	2.5×3	29800	108000	1150	67	136	P	5	15	101	C	—	—	—	—	—	—	Rc1/8	83	9	14	8.6	2.65	0.98
GR4005FD-DAPR	40	5	3.1750	37.5	2.5×3	29800	108000	1150	67	136	P	5	15	101	D	—	—	—	—	—	39	Rc1/8	83	9	14	8.6	2.59	0.98
GR4006BD-CAPR	40	6	3.9688	36.6	1.5×2	18200	52800	540	70	112	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	2.52	0.98
GR4006BD-DAPR	40	6	3.9688	36.6	1.5×2	18200	52800	540	70	112	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	2.46	0.98
GR4006ED-CAPR	40	6	3.9688	36.6	2.5×2	28300	88000	850	70	124	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	2.74	0.98
GR4006ED-DAPR	40	6	3.9688	36.6	2.5×2	28300	88000	850	70	124	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	2.67	0.98
GR4006FD-CAPR	40	6	3.9688	36.6	2.5×3	40200	132000	1200	70	160	P	5	15	104	C	—	—	—	—	—	—	Rc1/8	86	9	14	8.6	3.37	0.98
GR4006FD-DAPR	40	6	3.9688	36.6	2.5×3	40200	132000	1200	70	160	P	5	15	104	D	—	—	—	—	—	40	Rc1/8	86	9	14	8.6	3.31	0.98
GR4008DD-CALR	40	8	4.7625	36	2.5×1	19600	54200	460	74	97	L	6	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	2.57	0.98
GR4008DD-DALR	40	8	4.7625	36	2.5×1	19600	54200	460	74	97	L	6	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	2.50	0.98
GR4008ED-CALR	40	8	4.7625	36	2.5×2	35600	108400	870	74	145	L	6	15	108	C	—	—	—	—	—	—	Rc1/8	90	9	14	8.6	3.57	0.98
GR4008ED-DALR	40	8	4.7625	36	2.5×2	35600	108400	870	74	145	L	6	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	3.49	0.98

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

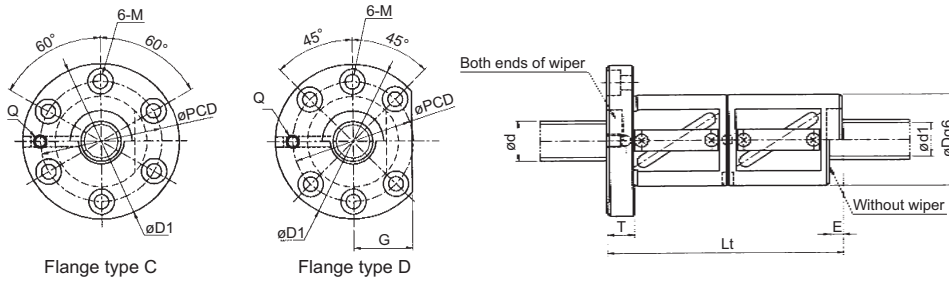


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{st} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)								
GR4010BD-CALR	40	10	6.3500	35.2	1.5×2	34200	89200	560	82	161	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	5.29	0.98
GR4010BD-DALR	40	10	6.3500	35.2	1.5×2	34200	89200	560	82	161	L	8	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	5.17	0.98
GR4010DD-CALR	40	10	6.3500	35.2	2.5×1	29300	74300	460	82	121	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	4.21	0.98
GR4010DD-DALR	40	10	6.3500	35.2	2.5×1	29300	74300	460	82	121	L	8	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	4.09	0.98
GR4010ED-CALR	40	10	6.3500	35.2	2.5×2	53000	140800	880	82	181	L	8	18	124	C	—	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	5.83	0.98
GR4010ED-DALR	40	10	6.3500	35.2	2.5×2	53000	140800	880	82	181	L	8	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	5.71	0.98
GR4012DD-CALR	40	12	7.1438	34.6	2.5×1	35100	79000	490	86	141	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	5.28	0.98
GR4012DD-DALR	40	12	7.1438	34.6	2.5×1	35100	79000	490	86	141	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	5.15	0.98
GR4012ED-CALR	40	12	7.1438	34.6	2.5×2	63700	158000	930	86	213	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	7.48	0.98
GR4012ED-DALR	40	12	7.1438	34.6	2.5×2	63700	158000	930	86	213	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	7.35	0.98
GR4016DD-CAPR	40	16	7.1438	34.6	2.5×1	35100	79000	490	86	155	P	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	5.93	0.98
GR4016DD-DAPR	40	16	7.1438	34.6	2.5×1	35100	79000	490	86	155	P	9	22	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	5.77	0.98
GR4016GD-CALR	40	16	7.1438	34.6	3.5×1	46800	110600	670	86	187	L	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	6.91	0.98
GR4016GD-DALR	40	16	7.1438	34.6	3.5×1	46800	110600	670	86	187	L	9	22	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	6.75	0.98
GR4020DD-CAPR	40	20	7.1438	34.6	2.5×1	35100	79000	490	86	185	P	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	6.84	0.98
GR4020DD-DAPR	40	20	7.1438	34.6	2.5×1	35100	79000	490	86	185	P	9	22	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	6.69	0.98
GR4020GD-CAPR	40	20	7.1438	34.6	3.5×1	46800	110600	670	86	225	P	9	22	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	8.06	0.98
GR4020GD-DAPR	40	20	7.1438	34.6	3.5×1	46800	110600	670	86	225	P	9	22	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	7.90	0.98

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

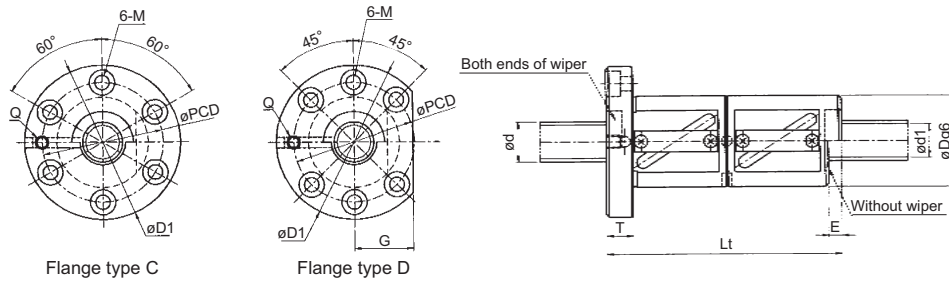
Screw shaft
diameter ø45

(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{tw} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR4505BD-CAPR	45	5	3.1750	42.5	1.5×2	14100	48600	570	74	96	P	5	15	108	C	—	—	—	—	—	Rc1/8	90	9	14	8.6	2.37	1.24	
GR4505BD-DAPR	45	5	3.1750	42.5	1.5×2	14100	48600	570	74	96	P	5	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	2.30	1.24
GR4505CD-CAPR	45	5	3.1750	42.5	1.5×3	20100	72900	830	74	116	P	5	15	108	C	—	—	—	—	—	Rc1/8	90	9	14	8.6	2.75	1.24	
GR4505CD-DAPR	45	5	3.1750	42.5	1.5×3	20100	72900	830	74	116	P	5	15	108	D	—	—	—	—	—	41	Rc1/8	90	9	14	8.6	2.68	1.24
GR4506BD-CAPR	45	6	3.9688	41.6	1.5×2	19300	59700	580	78	112	P	5	15	112	C	—	—	—	—	—	Rc1/8	94	9	14	8.6	3.06	1.24	
GR4506BD-DAPR	45	6	3.9688	41.6	1.5×2	19300	59700	580	78	112	P	5	15	112	D	—	—	—	—	—	43	Rc1/8	94	9	14	8.6	2.99	1.24
GR4506ED-CAPR	45	6	3.9688	41.6	2.5×2	30000	99500	910	78	124	P	5	15	112	C	—	—	—	—	—	Rc1/8	94	9	14	8.6	3.32	1.24	
GR4506ED-DAPR	45	6	3.9688	41.6	2.5×2	30000	99500	910	78	124	P	5	15	112	D	—	—	—	—	—	43	Rc1/8	94	9	14	8.6	3.25	1.24
GR4506FD-CAPR	45	6	3.9688	41.6	2.5×3	42500	149300	1300	78	160	P	5	15	112	C	—	—	—	—	—	Rc1/8	94	9	14	8.6	4.12	1.24	
GR4506FD-DAPR	45	6	3.9688	41.6	2.5×3	42500	149300	1300	78	160	P	5	15	112	D	—	—	—	—	—	43	Rc1/8	94	9	14	8.6	4.04	1.24
GR4508BD-CAPR	45	8	4.7625	41	1.5×2	24000	72600	590	82	132	P	6	18	124	C	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	4.30	1.24	
GR4508BD-DAPR	45	8	4.7625	41	1.5×2	24000	72600	590	82	132	P	6	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	4.18	1.24
GR4508ED-CAPR	45	8	4.7625	41	2.5×2	37300	121000	950	82	148	P	6	18	124	C	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	4.71	1.24	
GR4508ED-DAPR	45	8	4.7625	41	2.5×2	37300	121000	950	82	148	P	6	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	4.59	1.24
GR4508FD-CAPR	45	8	4.7625	41	2.5×3	52700	181500	1310	82	196	P	6	18	124	C	—	—	—	—	—	Rc1/8	102	11	17.5	10.8	5.92	1.24	
GR4508FD-DAPR	45	8	4.7625	41	2.5×3	52700	181500	1310	82	196	P	6	18	124	D	—	—	—	—	—	47	Rc1/8	102	11	17.5	10.8	5.81	1.24

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)



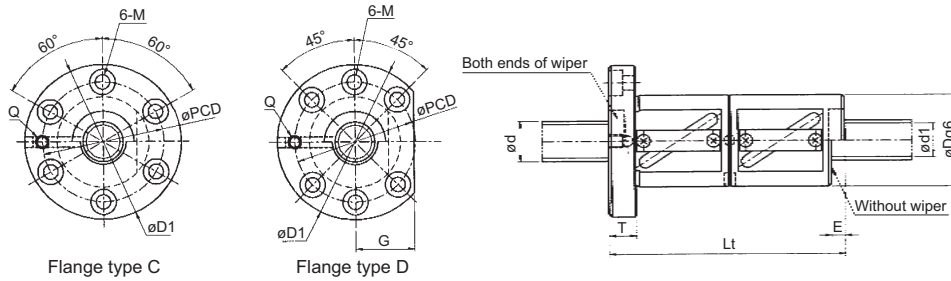
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{tw} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR4510BD-CALR	45	10	6.3500	40.2	1.5×2	36800	97800	620	86	161	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	5.49	1.24
GR4510BD-DALR	45	10	6.3500	40.2	1.5×2	36800	97800	620	86	161	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	5.36	1.24
GR4510DD-CALR	45	10	6.3500	40.2	2.5×1	31500	81500	530	86	121	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	4.37	1.24
GR4510DD-DALR	45	10	6.3500	40.2	2.5×1	31500	81500	530	86	121	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	4.24	1.24
GR4510ED-CALR	45	10	6.3500	40.2	2.5×2	57200	163000	990	86	181	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	6.05	1.24
GR4510ED-DALR	45	10	6.3500	40.2	2.5×2	57200	163000	990	86	181	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	5.91	1.24
GR4510FD-CALR	45	10	6.3500	40.2	2.5×3	81000	244500	1420	86	241	L	8	18	128	C	—	—	—	—	—	—	Rc1/8	106	11	17.5	10.8	7.72	1.24
GR4510FD-DALR	45	10	6.3500	40.2	2.5×3	81000	244500	1420	86	241	L	8	18	128	D	—	—	—	—	—	48	Rc1/8	106	11	17.5	10.8	7.59	1.24
GR4512DD-CALR	45	12	7.9375	38.8	2.5×1	41200	98500	520	94	143	L	7	22	140	C	—	—	—	—	—	—	Rc1/8	116	14	20	13	6.54	1.24
GR4512DD-DALR	45	12	7.9375	38.8	2.5×1	41200	98500	520	94	143	L	7	22	140	D	—	—	—	—	—	53	Rc1/8	116	14	20	13	6.35	1.24
GR4512ED-CALR	45	12	7.9375	38.8	2.5×2	74900	197000	980	94	215	L	7	22	140	C	—	—	—	—	—	—	Rc1/8	116	14	20	13	9.10	1.24
GR4512ED-DALR	45	12	7.9375	38.8	2.5×2	74900	197000	980	94	215	L	7	22	140	D	—	—	—	—	—	53	Rc1/8	116	14	20	13	8.91	1.24
GR4512FD-CALR	45	12	7.9375	38.8	2.5×3	106200	295500	1410	94	287	L	7	22	140	C	—	—	—	—	—	—	Rc1/8	116	14	20	13	11.66	1.24
GR4512FD-DALR	45	12	7.9375	38.8	2.5×3	106200	295500	1410	94	287	L	7	22	140	D	—	—	—	—	—	53	Rc1/8	116	14	20	13	11.47	1.24

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 L: Lip seal

Screw shaft
diameter ø45

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

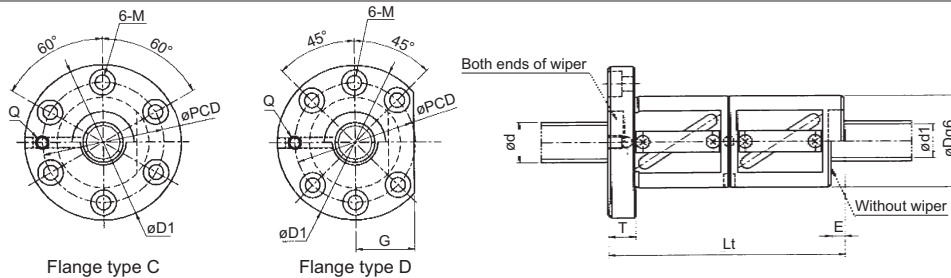
Screw shaft
diameter ø50

(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{nut} (N/μm)	Nut dimensions																		Mass	
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR5005BD-CAPR	50	5	3.1750	47.5	1.5×2	14800	54200	620	80	96	P	5	15	114	C	—	—	—	—	—	—	Rc1/8	96	9	14	8.6	2.65	1.53
GR5005BD-DAPR	50	5	3.1750	47.5	1.5×2	14800	54200	620	80	96	P	5	15	114	D	—	—	—	—	—	43	Rc1/8	96	9	14	8.6	2.57	1.53
GR5005CD-CAPR	50	5	3.1750	47.5	1.5×3	21000	81300	890	80	116	P	5	15	114	C	—	—	—	—	—	—	Rc1/8	96	9	14	8.6	3.08	1.53
GR5005CD-DAPR	50	5	3.1750	47.5	1.5×3	21000	81300	890	80	116	P	5	15	114	D	—	—	—	—	—	43	Rc1/8	96	9	14	8.6	2.99	1.53
GR5006BD-CAPR	50	6	3.9688	46.6	1.5×2	20100	66500	640	84	112	P	5	15	118	C	—	—	—	—	—	—	Rc1/8	100	9	14	8.6	3.41	1.53
GR5006BD-DAPR	50	6	3.9688	46.6	1.5×2	20100	66500	640	84	112	P	5	15	118	D	—	—	—	—	—	45	Rc1/8	100	9	14	8.6	3.32	1.53
GR5006ED-CAPR	50	6	3.9688	46.6	2.5×2	31300	110800	990	84	124	P	5	15	118	C	—	—	—	—	—	—	Rc1/8	100	9	14	8.6	3.70	1.53
GR5006ED-DAPR	50	6	3.9688	46.6	2.5×2	31300	110800	990	84	124	P	5	15	118	D	—	—	—	—	—	45	Rc1/8	100	9	14	8.6	3.62	1.53
GR5006FD-CAPR	50	6	3.9688	46.6	2.5×3	44300	166200	1420	84	160	P	5	15	118	C	—	—	—	—	—	—	Rc1/8	100	9	14	8.6	4.59	1.53
GR5006FD-DAPR	50	6	3.9688	46.6	2.5×3	44300	166200	1420	84	160	P	5	15	118	D	—	—	—	—	—	45	Rc1/8	100	9	14	8.6	4.51	1.53
GR5008BD-CAPR	50	8	4.7625	46	1.5×2	24900	80100	650	87	132	P	6	18	129	C	—	—	—	—	—	—	Rc1/8	107	11	17.5	10.8	4.60	1.53
GR5008BD-DAPR	50	8	4.7625	46	1.5×2	24900	80100	650	87	132	P	6	18	129	D	—	—	—	—	—	49	Rc1/8	107	11	17.5	10.8	4.47	1.53
GR5008ED-CAPR	50	8	4.7625	46	2.5×2	38700	133400	1030	87	148	P	6	18	129	C	—	—	—	—	—	—	Rc1/8	107	11	17.5	10.8	5.03	1.53
GR5008ED-DAPR	50	8	4.7625	46	2.5×2	38700	133400	1030	87	148	P	6	18	129	D	—	—	—	—	—	49	Rc1/8	107	11	17.5	10.8	4.91	1.53
GR5008FD-CAPR	50	8	4.7625	46	2.5×3	55000	200100	1480	87	196	P	6	18	129	C	—	—	—	—	—	—	Rc1/8	107	11	17.5	10.8	6.34	1.53
GR5008FD-DAPR	50	8	4.7625	46	2.5×3	55000	200100	1480	87	196	P	6	18	129	D	—	—	—	—	—	49	Rc1/8	107	11	17.5	10.8	6.22	1.53

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)



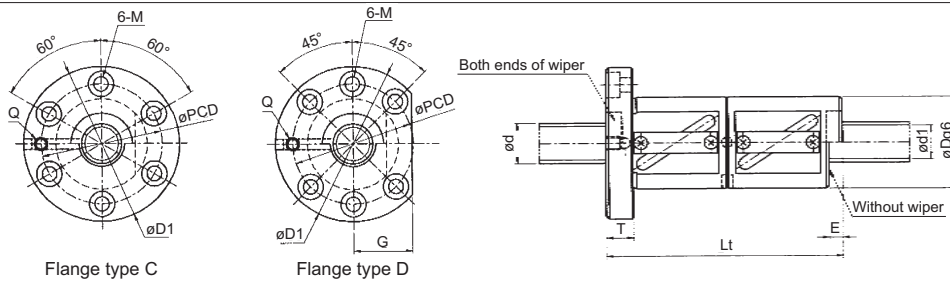
(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{nut} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						Mounting hole						
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR5010BD-CALR	50	10	6.3500	45.2	1.5x2	38300	106700	670	93	161	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	6.24	1.53
GR5010BD-DALR	50	10	6.3500	45.2	1.5x2	38300	106700	670	93	161	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	6.10	1.53
GR5010DD-CALR	50	10	6.3500	45.2	2.5x1	32800	88900	560	93	121	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	4.95	1.53
GR5010DD-DALR	50	10	6.3500	45.2	2.5x1	32800	88900	560	93	121	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	4.81	1.53
GR5010ED-CALR	50	10	6.3500	45.2	2.5x2	59400	177800	1060	93	181	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	6.88	1.53
GR5010ED-DALR	50	10	6.3500	45.2	2.5x2	59400	177800	1060	93	181	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	6.74	1.53
GR5010FD-CALR	50	10	6.3500	45.2	2.5x3	84100	266700	1520	93	241	L	8	18	135	C	—	—	—	—	—	—	Rc1/8	113	11	17.5	10.8	8.81	1.53
GR5010FD-DALR	50	10	6.3500	45.2	2.5x3	84100	266700	1520	93	241	L	8	18	135	D	—	—	—	—	—	51	Rc1/8	113	11	17.5	10.8	8.67	1.53
GR5012DD-CALR	50	12	7.9375	43.8	2.5x1	42600	110000	570	100	143	L	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	7.13	1.53
GR5012DD-DALR	50	12	7.9375	43.8	2.5x1	42600	110000	570	100	143	L	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	6.92	1.53
GR5012ED-CALR	50	12	7.9375	43.8	2.5x2	77400	220000	1070	100	215	L	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	9.95	1.53
GR5012ED-DALR	50	12	7.9375	43.8	2.5x2	77400	220000	1070	100	215	L	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	9.74	1.53
GR5012FD-CALR	50	12	7.9375	43.8	2.5x3	109600	330000	1540	100	287	L	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	12.77	1.53
GR5012FD-DALR	50	12	7.9375	43.8	2.5x3	109600	330000	1540	100	287	L	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	12.56	1.53
GR5016DD-CAPR	50	16	7.9375	43.8	2.5x1	42600	110000	570	100	183	P	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	8.69	1.53
GR5016DD-DAPR	50	16	7.9375	43.8	2.5x1	42600	110000	570	100	183	P	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	8.49	1.53
GR5016ED-CAPR	50	16	7.9375	43.8	2.5x2	77400	220000	1080	100	279	P	7	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	12.45	1.53
GR5016ED-DAPR	50	16	7.9375	43.8	2.5x2	77400	220000	1080	100	279	P	7	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	12.25	1.53
GR5020DD-CAPR	50	20	7.9375	43.8	2.5x1	42600	110000	650	100	189	P	7	28	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	9.34	1.53
GR5020DD-DAPR	50	20	7.9375	43.8	2.5x1	42600	110000	650	100	189	P	7	28	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	9.09	1.53
GR5020ED-CAPR	50	20	7.9375	43.8	2.5x2	77400	220000	1210	100	309	P	7	28	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	14.04	1.53
GR5020ED-DAPR	50	20	7.9375	43.8	2.5x2	77400	220000	1210	100	309	P	7	28	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	13.79	1.53

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 shaft
diameter ø50

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

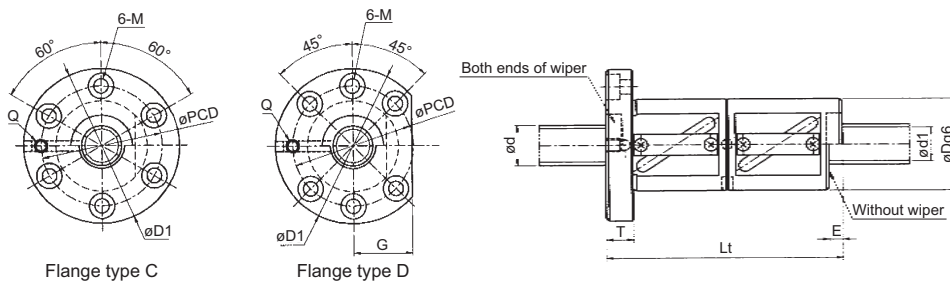


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{rw} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Q	PCD	Mounting hole			
																W	X	Y	A	B	G	M						
																						Drill			Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR5508ED-CAPR	55	8	4.7625	51	2.5×2	40100	145900	1100	92	150	P	5	22	138	C	—	—	—	—	—	53	Rc1/8	114	14	20	13	5.80	1.85
GR5508ED-DAPR	55	8	4.7625	51	2.5×2	40100	145900	1100	92	150	P	5	22	138	D	—	—	—	—	—	53	Rc1/8	114	14	20	13	5.63	1.85
GR5508FD-CAPR	55	8	4.7625	51	2.5×3	56900	218900	1580	92	198	P	5	22	138	C	—	—	—	—	—	—	Rc1/8	114	14	20	13	7.20	1.85
GR5508FD-DAPR	55	8	4.7625	51	2.5×3	56900	218900	1580	92	198	P	5	22	138	D	—	—	—	—	—	53	Rc1/8	114	14	20	13	7.03	1.85
GR5510BD-CALR	55	10	6.3500	50.2	1.5×2	40400	120100	760	100	165	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	7.59	1.85
GR5510BD-DALR	55	10	6.3500	50.2	1.5×2	40400	120100	760	100	165	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	7.38	1.85
GR5510ED-CALR	55	10	6.3500	50.2	2.5×2	62700	200200	1170	100	185	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	8.32	1.85
GR5510ED-DALR	55	10	6.3500	50.2	2.5×2	62700	200200	1170	100	185	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	8.12	1.85
GR5510FD-CALR	55	10	6.3500	50.2	2.5×3	89000	300300	1690	100	245	L	8	22	146	C	—	—	—	—	—	—	Rc1/8	122	14	20	13	10.53	1.85
GR5510FD-DALR	55	10	6.3500	50.2	2.5×3	89000	300300	1690	100	245	L	8	22	146	D	—	—	—	—	—	55	Rc1/8	122	14	20	13	10.32	1.85
GR5512ED-CAPR	55	12	7.9375	48.8	2.5×2	81200	243300	1170	108	215	P	7	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	11.41	1.85
GR5512ED-DAPR	55	12	7.9375	48.8	2.5×2	81200	243300	1170	108	215	P	7	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	11.19	1.85
GR5512FD-CAPR	55	12	7.9375	48.8	2.5×3	115100	365000	1680	108	287	P	7	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	14.69	1.85
GR5512FD-DAPR	55	12	7.9375	48.8	2.5×3	115100	365000	1680	108	287	P	7	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	14.46	1.85
GR5516DD-CAPR	55	16	9.5250	47.6	2.5×1	76700	207800	690	112	195	P	13	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	12.54	1.85
GR5516DD-DAPR	55	16	9.5250	47.6	2.5×1	76700	207800	690	112	195	P	13	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	12.21	1.85
GR5516ED-CAPR	55	16	9.5250	47.6	2.5×2	139100	415600	1080	112	291	P	13	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	17.28	1.85
GR5516ED-DAPR	55	16	9.5250	47.6	2.5×2	139100	415600	1080	112	291	P	13	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	16.95	1.85
GR5520DD-CALR	55	20	9.5250	47.6	2.5×1	76700	207800	720	112	195	L	12.5	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	12.54	1.85
GR5520DD-DALR	55	20	9.5250	47.6	2.5×1	76700	207800	720	112	195	L	12.5	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	12.21	1.85
GR5520ED-CALR	55	20	9.5250	47.6	2.5×2	139100	415600	1340	112	315	L	12.5	28	172	C	—	—	—	—	—	—	Rc1/8	140	18	26	17.5	18.46	1.85
GR5520ED-DALR	55	20	9.5250	47.6	2.5×2	139100	415600	1340	112	315	L	12.5	28	172	D	—	—	—	—	—	66	Rc1/8	140	18	26	17.5	18.13	1.85

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

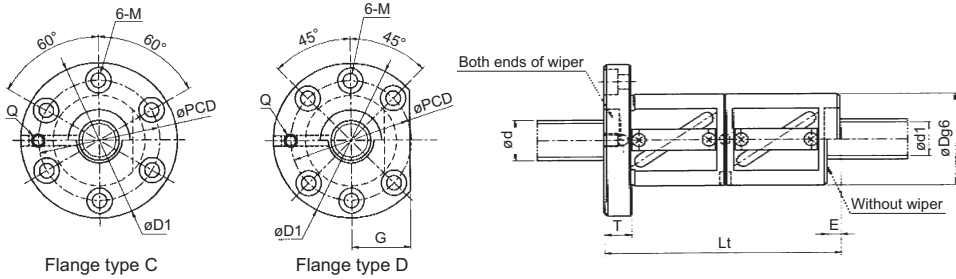


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _s	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{rw} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR6306BD-CAPR	63	6	3.9688	59.6	1.5×2	22100	83500	850	100	113	P	4	18	142	C	—	—	—	—	—	—	Rc1/8	120	11	17.5	10.8	4.85	2.43
GR6306BD-DAPR	63	6	3.9688	59.6	1.5×2	22100	83500	850	100	113	P	4	18	142	D	—	—	—	—	—	53	Rc1/8	120	11	17.5	10.8	4.69	2.43
GR6306CD-CAPR	63	6	3.9688	59.6	1.5×3	31300	125300	1100	100	137	P	4	18	142	C	—	—	—	—	—	—	Rc1/8	120	11	17.5	10.8	5.65	2.43
GR6306CD-DAPR	63	6	3.9688	59.6	1.5×3	31300	125300	1100	100	137	P	4	18	142	D	—	—	—	—	—	53	Rc1/8	120	11	17.5	10.8	5.48	2.43
GR6308BD-CAPR	63	8	4.7625	59	1.5×2	27800	102500	790	104	134	P	5	22	150	C	—	—	—	—	—	—	Rc1/8	126	14	20	13	6.56	2.43
GR6308BD-DAPR	63	8	4.7625	59	1.5×2	27800	102500	790	104	134	P	5	22	150	D	—	—	—	—	—	57	Rc1/8	126	14	20	13	6.36	2.43
GR6308CD-CAPR	63	8	4.7625	59	1.5×3	39300	153800	1140	104	166	P	5	22	150	C	—	—	—	—	—	—	Rc1/8	126	14	20	13	7.75	2.43
GR6308CD-DAPR	63	8	4.7625	59	1.5×3	39300	153800	1140	104	166	P	5	22	150	D	—	—	—	—	—	57	Rc1/8	126	14	20	13	7.55	2.43

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C0-C5)

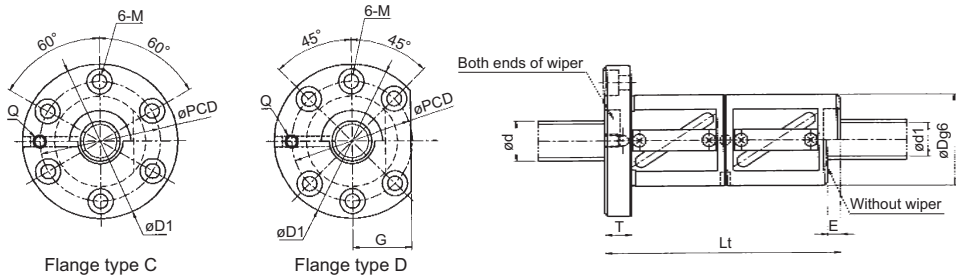


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _W (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR6310DD-CAPR	63	10	6.3500	58.2	2.5×1	36800	114900	700	108	125	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	6.67	2.43
GR6310DD-DAPR	63	10	6.3500	58.2	2.5×1	36800	114900	700	108	125	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	6.44	2.43
GR6310ED-CAPR	63	10	6.3500	58.2	2.5×2	66600	229800	1310	108	185	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	9.09	2.43
GR6310ED-DAPR	63	10	6.3500	58.2	2.5×2	66600	229800	1310	108	185	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	8.86	2.43
GR6310FD-CAPR	63	10	6.3500	58.2	2.5×3	94400	344700	1880	108	245	P	8	22	154	C	—	—	—	—	—	—	Rc1/8	130	14	20	13	11.51	2.43
GR6310FD-DAPR	63	10	6.3500	58.2	2.5×3	94400	344700	1880	108	245	P	8	22	154	D	—	—	—	—	—	58	Rc1/8	130	14	20	13	11.28	2.43
GR6312DD-CAPR	63	12	7.9375	56.8	2.5×1	48700	139000	700	115	143	P	7	22	161	C	—	—	—	—	—	—	Rc1/8	137	14	20	13	8.62	2.43
GR6312DD-DAPR	63	12	7.9375	56.8	2.5×1	48700	139000	700	115	143	P	7	22	161	D	—	—	—	—	—	61	Rc1/8	137	14	20	13	8.38	2.43
GR6312ED-CAPR	63	12	7.9375	56.8	2.5×2	88500	278000	1310	115	215	P	7	22	161	C	—	—	—	—	—	—	Rc1/8	137	14	20	13	12.10	2.43
GR6312ED-DAPR	63	12	7.9375	56.8	2.5×2	88500	278000	1310	115	215	P	7	22	161	D	—	—	—	—	—	61	Rc1/8	137	14	20	13	11.86	2.43
GR6312FD-CAPR	63	12	7.9375	56.8	2.5×3	125500	417000	1880	115	287	P	7	22	161	C	—	—	—	—	—	—	Rc1/8	137	14	20	13	15.58	2.43
GR6312FD-DAPR	63	12	7.9375	56.8	2.5×3	125500	417000	1880	115	287	P	7	22	161	D	—	—	—	—	—	61	Rc1/8	137	14	20	13	15.34	2.43
GR6316DD-CAPR	63	16	9.5250	55.6	2.5×1	80300	231000	780	122	195	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	14.06	2.43
GR6316DD-DAPR	63	16	9.5250	55.6	2.5×1	80300	231000	780	122	195	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	13.70	2.43
GR6316ED-CAPR	63	16	9.5250	55.6	2.5×2	145800	462000	1460	122	291	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	19.51	2.43
GR6316ED-DAPR	63	16	9.5250	55.6	2.5×2	145800	462000	1460	122	291	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	19.14	2.43
GR6320DD-CAPR	63	20	9.5250	55.6	2.5×1	80300	231000	780	122	195	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	14.06	2.43
GR6320DD-DAPR	63	20	9.5250	55.6	2.5×1	80300	231000	780	122	195	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	13.70	2.43
GR6320ED-CAPR	63	20	9.5250	55.6	2.5×2	145800	462000	1460	122	315	P	13	28	180	C	—	—	—	—	—	—	Rc1/8	150	18	26	17.5	20.87	2.43
GR6320ED-DAPR	63	20	9.5250	55.6	2.5×2	145800	462000	1460	122	315	P	13	28	180	D	—	—	—	—	—	69	Rc1/8	150	18	26	17.5	20.50	2.43

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C1-C5)

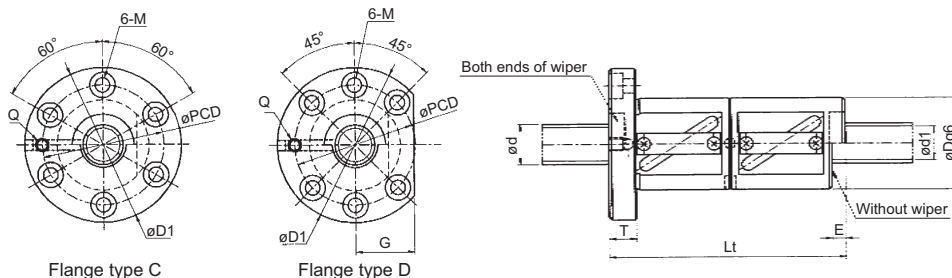


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _W (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions						PCD	Mounting hole					
																W	X	Y	A	B	G		Q	M				
																								Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)
GR7010ED-CAPR	70	10	6.3500	65.2	2.5x2	69100	252100	1400	120	183	P	7	22	166	C	—	—	—	—	—	—	Rc1/8	142	14	20	13	11.05	3.00
GR7010ED-DAPR	70	10	6.3500	65.2	2.5x2	69100	252100	1400	120	183	P	7	22	166	D	—	—	—	—	—	63	Rc1/8	142	14	20	13	10.79	3.00
GR7010FD-CAPR	70	10	6.3500	65.2	2.5x3	97900	378200	2020	120	243	P	7	22	166	C	—	—	—	—	—	—	Rc1/8	142	14	20	13	14.09	3.00
GR7010FD-DAPR	70	10	6.3500	65.2	2.5x3	97900	378200	2020	120	243	P	7	22	166	D	—	—	—	—	—	63	Rc1/8	142	14	20	13	13.84	3.00
GR7012ED-CAPR	70	12	7.9375	63.8	2.5x2	93400	312700	1440	124	215	P	7	22	170	C	—	—	—	—	—	—	Rc1/8	146	14	20	13	13.63	3.00
GR7012ED-DAPR	70	12	7.9375	63.8	2.5x2	93400	312700	1440	124	215	P	7	22	170	D	—	—	—	—	—	64	Rc1/8	146	14	20	13	13.36	3.00
GR7012FD-CAPR	70	12	7.9375	63.8	2.5x3	132400	469100	2070	124	287	P	7	22	170	C	—	—	—	—	—	—	Rc1/8	146	14	20	13	17.59	3.00
GR7012FD-DAPR	70	12	7.9375	63.8	2.5x3	132400	469100	2070	124	287	P	7	22	170	D	—	—	—	—	—	64	Rc1/8	146	14	20	13	17.31	3.00
GR7016ED-CAPR	70	16	9.5250	62.6	2.5x2	152100	508000	1570	130	291	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	21.43	3.00
GR7016ED-DAPR	70	16	9.5250	62.6	2.5x2	152100	508000	1570	130	291	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	21.00	3.00
GR7016FD-CAPR	70	16	9.5250	62.6	2.5x3	215600	762000	2330	130	387	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	27.41	3.00
GR7016FD-DAPR	70	16	9.5250	62.6	2.5x3	215600	762000	2330	130	387	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	26.98	3.00
GR7020ED-CAPR	70	20	9.5250	62.6	2.5x2	152100	508000	1580	130	315	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	22.92	3.00
GR7020ED-DAPR	70	20	9.5250	62.6	2.5x2	152100	508000	1580	130	315	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	22.50	3.00
GR7020FD-CAPR	70	20	9.5250	62.6	2.5x3	215600	762000	2340	130	435	P	13	28	190	C	—	—	—	—	—	—	Rc1/8	158	18	26	17.5	30.40	3.00
GR7020FD-DAPR	70	20	9.5250	62.6	2.5x3	215600	762000	2340	130	435	P	13	28	190	D	—	—	—	—	—	72	Rc1/8	158	18	26	17.5	29.98	3.00

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C1-C5)

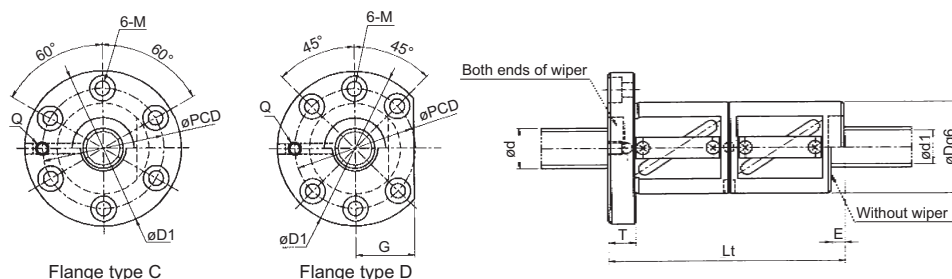


(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{st} (N/μm)	Nut dimensions																Mass			
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole					
																W	X	Y	A	B	G	Q	PCD	M				
																								Drill	Spot facing	Depth		
																											Nut (kg)	Screw shaft (kg/100mm)
GR8010ED-CAPR	80	10	6.3500	75.2	2.5×2	73100	289100	1570	130	183	P	7	22	176	C	—	—	—	—	—	—	Rc1/8	152	14	20	13	12.11	3.92
GR8010ED-DAPR	80	10	6.3500	75.2	2.5×2	73100	289100	1570	130	183	P	7	22	176	D	—	—	—	—	—	66	Rc1/8	152	14	20	13	11.81	3.92
GR8010FD-CAPR	80	10	6.3500	75.2	2.5×3	103700	433700	2260	130	243	P	7	22	176	C	—	—	—	—	—	—	Rc1/8	152	14	20	13	15.46	3.92
GR8010FD-DAPR	80	10	6.3500	75.2	2.5×3	103700	433700	2260	130	243	P	7	22	176	D	—	—	—	—	—	66	Rc1/8	152	14	20	13	15.15	3.92
GR8012ED-CAPR	80	12	7.9375	73.8	2.5×2	99400	359100	1610	136	215	P	7	22	182	C	—	—	—	—	—	—	Rc1/8	158	14	20	13	15.65	3.92
GR8012ED-DAPR	80	12	7.9375	73.8	2.5×2	99400	359100	1610	136	215	P	7	22	182	D	—	—	—	—	—	68	Rc1/8	158	14	20	13	15.32	3.92
GR8012FD-CAPR	80	12	7.9375	73.8	2.5×3	140700	538700	2320	136	287	P	7	22	182	C	—	—	—	—	—	—	Rc1/8	158	14	20	13	20.23	3.92
GR8012FD-DAPR	80	12	7.9375	73.8	2.5×3	140700	538700	2320	136	287	P	7	22	182	D	—	—	—	—	—	68	Rc1/8	158	14	20	13	19.91	3.92
GR8016ED-CAPR	80	16	9.5250	72.6	2.5×2	165200	600500	1810	143	289	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	24.84	3.92
GR8016ED-DAPR	80	16	9.5250	72.6	2.5×2	165200	600500	1810	143	289	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	24.34	3.92
GR8016FD-CAPR	80	16	9.5250	72.6	2.5×3	234100	900800	2610	143	385	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	31.89	3.92
GR8016FD-DAPR	80	16	9.5250	72.6	2.5×3	234100	900800	2610	143	385	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	31.39	3.92
GR8020ED-CAPR	80	20	9.5250	72.6	2.5×2	165200	600500	1810	143	313	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	26.60	3.92
GR8020ED-DAPR	80	20	9.5250	72.6	2.5×2	165200	600500	1810	143	313	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	26.10	3.92
GR8020FD-CAPR	80	20	9.5250	72.6	2.5×3	234100	900800	2680	143	433	P	12	28	204	C	—	—	—	—	—	—	Rc1/8	172	18	26	17.5	35.41	3.92
GR8020FD-DAPR	80	20	9.5250	72.6	2.5×3	234100	900800	2680	143	433	P	12	28	204	D	—	—	—	—	—	77	Rc1/8	172	18	26	17.5	34.91	3.92

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

Custom Ball Screw: TUBE METHOD DOUBLE NUT (Accuracy grade C1-C5)



(Unit: mm)

Model No.	Screw shaft diameter d	Lead L	Ball diameter D _b	Root diameter d _r	Number of circuits Turn x Circuit	Basic dynamic load rating C (N)	Basic static load rating C ₀ (N)	*Rigidity K _{st} (N/μm)	Nut dimensions																	Mass		
									Outer diameter D	Overall length L _t	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D ₁	Flange type	Flange dimensions							Mounting hole M					
																W	X	Y	A	B	G	Q				PCD		
																Drill	Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)								
GRA012ED-CAPR	100	12	7.9375	93.8	2.5×2	109450	451800	1940	160	219	P	6	28	220	C	—	—	—	—	—	—	Rc1/8	188	18	26	17.5	22.01	6.13
GRA012ED-DAPR	100	12	7.9375	93.8	2.5×2	109450	451800	1940	160	219	P	6	28	220	D	—	—	—	—	—	82	Rc1/8	188	18	26	17.5	21.39	6.13
GRA012FD-CAPR	100	12	7.9375	93.8	2.5×3	155000	677700	2790	160	291	P	6	28	220	C	—	—	—	—	—	—	Rc1/8	188	18	26	17.5	27.96	6.13
GRA012FD-DAPR	100	12	7.9375	93.8	2.5×3	155000	677700	2790	160	291	P	6	28	220	D	—	—	—	—	—	82	Rc1/8	188	18	26	17.5	27.34	6.13
GRA016ED-CAPR	100	16	9.5250	92.6	2.5×2	180000	739000	2140	170	293	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	35.26	6.13
GRA016ED-DAPR	100	16	9.5250	92.6	2.5×2	180000	739000	2140	170	293	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	34.42	6.13
GRA016FD-CAPR	100	16	9.5250	92.6	2.5×3	255000	1108500	3080	170	389	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	44.88	6.13
GRA016FD-DAPR	100	16	9.5250	92.6	2.5×3	255000	1108500	3080	170	389	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	44.04	6.13
GRA020ED-CAPR	100	20	9.5250	92.5	2.5×2	180000	739000	2140	170	317	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	37.66	6.13
GRA020ED-DAPR	100	20	9.5250	92.5	2.5×2	180000	739000	2140	170	317	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	36.82	6.13
GRA020FD-CAPR	100	20	9.5250	92.5	2.5×3	255000	1108500	3170	170	437	P	12	32	243	C	—	—	—	—	—	—	Rc1/8	205	22	32	21.5	49.69	6.13
GRA020FD-DAPR	100	20	9.5250	92.5	2.5×3	255000	1108500	3170	170	437	P	12	32	243	D	—	—	—	—	—	91	Rc1/8	205	22	32	21.5	48.84	6.13
GRC516ED-CAPR	125	16	9.5250	117.6	2.5×2	200400	946900	2620	200	297	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	48.34	9.57
GRC516ED-DAPR	125	16	9.5250	117.6	2.5×2	200400	946900	2620	200	297	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	47.02	9.57
GRC516FD-CAPR	125	16	9.5250	117.6	2.5×3	284100	1420400	3720	200	393	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	60.83	9.57
GRC516FD-DAPR	125	16	9.5250	117.6	2.5×3	284100	1420400	3720	200	393	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	59.50	9.57
GRC520ED-CAPR	125	20	9.5250	117.6	2.5×2	200400	946900	2620	200	321	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	51.47	9.57
GRC520ED-DAPR	125	20	9.5250	117.6	2.5×2	200400	946900	2620	200	321	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	50.14	9.57
GRC520FD-CAPR	125	20	9.5250	117.6	2.5×3	284100	1420400	3760	200	441	P	12	36	290	C	—	—	—	—	—	—	Rc1/8	243	26	39	25.5	67.07	9.57
GRC520FD-DAPR	125	20	9.5250	117.6	2.5×3	284100	1420400	3760	200	441	P	12	36	290	D	—	—	—	—	—	109	Rc1/8	243	26	39	25.5	65.74	9.57

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