

# Deflector method ball screws

## D series

	Page
Features and specifications of D series ball screws	B_20
Ordering instructions, shaft diameter and lead combinations	B_21

### Stocked DP series (C3 grade)

- 6 mm shaft diameter, One end finished ————— B\_22
- 8 mm shaft diameter, One end finished ————— B\_23 ~ 24
- 10 mm shaft diameter, One end finished ————— B\_25
- 12 mm shaft diameter, One end finished ————— B\_26 ~ 27
- 14 mm shaft diameter, One end finished ————— B\_28

\* Refer to page E-1 and after for the shaft-end process drawings for the above sizes.

### Custom product DR series, Single nut (C0 ~ C7 grade)

- 6 to 50 mm shaft diameter, Single nut ————— B\_29 ~ 30

### Custom product DR series, Integral nut (C0 ~ C5 grade)

- 6 to 50 mm shaft diameter, Integral nut type ————— B\_31

# Deflector method ball screws **D series**

D series

## Features

### ● Nut dimensions for more compactness

- Provided with an improved ball circulation system called deflector type system, which enables the nut dimensions to be as small as possible.

(Example) Comparison of nut body diameters between ball screws with different methods (when the screws have a  $\phi 12$  mm shaft diameter, 3 mm lead, and 2.0 mm ball diameter)

Tube type: GR1203DS Outside diameter of the body =  $\phi 26$  mm

Deflector type: DR1203JS Outside diameter of the body =  $\phi 21$  mm

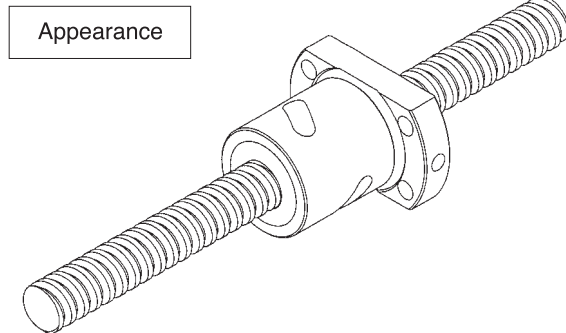
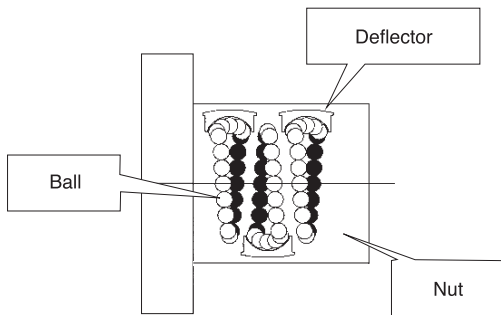
- Delivers excellent rotation balance achieved by distributing ball recirculation components evenly along the circumference of the nut body.

### ● Nut dimensions for more compactness

- D series ball screws provided with 1 to 10 mm lead are suitable for machines and equipment which require small-pitch feeding and precise positioning.

## Summary of the specifications

- Shaft diameter:  $\phi 6$  to  $\phi 50$  mm, lead: 1 to 10 mm  
(Refer to the list of shaft diameters and lead combinations for more details.)
- Accuracy grade: C0 to C7 grades (C0 to C5 grades for ball screws with integral nut)
- Nut type: single nut, integral nut
- Recirculation system: deflector method



### Series product line-up

Series name		Nut type	Accuracy grade	Shaft diameter line-up	Shaft type	Product line
D series	DP series	Single nut	C3	$\phi 6 \sim \phi 14$	One end finished	Standard (in-stock) product line
	DR series	Single nut	C0 ~ C7	$\phi 6 \sim \phi 50$	Free design	Custom product line
		Integral nut	C0 ~ C5	$\phi 16 \sim \phi 50$		

- In the standard (in-stock) product line, only the shaft end on the fixed side is finished. The other end on the supported side needs additional end machining to fulfill your needs and operating conditions.
- Refer to page E-1 and after in this catalog for the shaft-end process drawings for standard (in-stock) products.
- For the custom ball screws, custom shaft design to fulfill your needs and operating conditions is required.

## □ Model numbers of D series

Example of the model number	Model series	Screw shaft diameter	Lead	Number of circuits	Combination	Flange type	Ball recirculation system	Wiper material	Thread direction	Overall length of screw shaft	Shaft end type	Thread length	Accuracy grade	Axial clearance
	DR	12	02	J	S	H	D	N	R	0400	X	0355	C3	F
DP	6 ~ 14	1 ~ 4	J	S	H	D	See specifications.	R	To be shown with a 4-digit number in metric unit (mm)	B, X	To be shown with a 4-digit number in metric unit (mm)	C3	F, S	
DR	6 ~ 50	1 ~ 10	See specifications.		See specifications.							X	C0 ~ C7	S, F, H, M
DR	16 ~ 50	5 ~ 10		T									C0 ~ C5	S

- For more details, refer to specifications and data for each size.
- Contact KURODA for specifications on left screws.

## □ Shaft diameter and lead combinations

Screw shaft diameter (mm)	Lead (mm)					
	1	2	3	4	5	10
6	S					
8	S	S				
10		S				
12		S	S			
14				S		
16					S	
					T	
20					S	S
					T	
25					S	S
					T	
32					S	S
					T	T
40						S
						T
50						S
						T

- The symbols in the above table represent:  
S: single nut, T: integral nut
- The shaded areas indicate that the screws are standard (in-stock) products (S: single nut).

## □ Options available for standard (in-stock) ball screws

Series	Additional end machining	Surface treatment	Grease	Direction of nut	Wiper detachment
DP series	o	See the notes below.	o	o	See the notes below.

- In DP series, only the shaft end on the fixed side is finished. The other end on the supported side needs additional end machining to fulfill your needs and operating conditions.
- Only the screw model with wiper is available in DP series.
- Contact KURODA for more information on the above mentioned surface treatment.
- Multemp PS2 Grease is contained in a nut shipped from KURODA, unless otherwise specified. Contact KURODA if you want other greases to be contained.







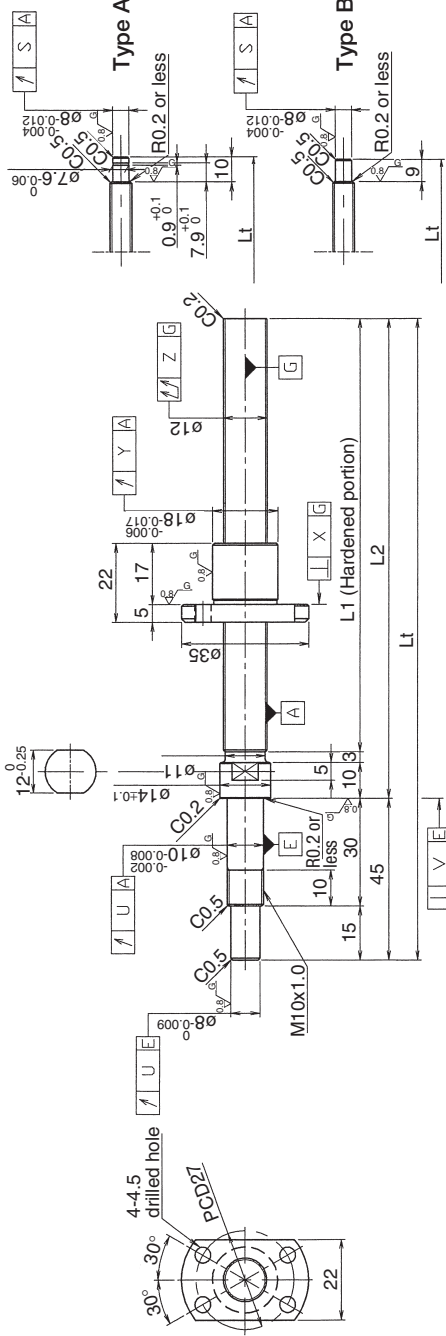


**KURODA** Standard Ground Ball Screw: DP Series (Accuracy grade C3)

**ONE SHAFT END FINISHED**

**Screw shaft diameter ø12, Lead 2**

Recommended supported end configuration (Unit: mm)



Model No.	Axial clearance	L <sub>1</sub>	L <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	U	V	S	X	Y	Z	Preload torque (N·cm)		Lead accuracy		Wiper	Mass (kg)
												±Ec	ec	±Ec	ec		
DP1202JS-HDNR-0300B-C3F	~0.005(F)	242	255	300	300	0.007	0.003	0.011	0.008	0.009	0.030	~0.5	0.012	0.008	0.008	-	0.28
DP1202JS-HDNR-0300B-C3S	0(S)											0.4~3.4					
DP1202JS-HDNR-0400B-C3F	~0.005(F)	342	355	400	400						0.040	~0.5	0.013	0.010	0.008	-	0.36
DP1202JS-HDNR-0400B-C3S	0(S)											0.4~3.4					

- Mounting accuracy of ball screw in case of shaft end machining is equivalent to JIS C5 grade.
- Support unit: BUK-10A (BUK-10F, BUK-8S) or BUM-10 is recommended.
- Product with axial clearance ~0.005(F) shown in the table may be partially preloaded.
- Preload torque shown in the table is a value before greasing.
- The grease is contained inside of nut only at the time of delivery. When using it, apply lubricant where appropriate.

Table of optional specifications for each model

Additional machining of shaft end	Surface treatment (Note 1)	Difference of grease	Direction of nut	Wiper removal
○	∅	○	○	-

Note 1: For the above-mentioned surface treatment, consult KURODA.

Ball screw specifications

Screw shaft diameter	12	Axial clearance	~0.005(F)	0(S)
Lead	2	Basic dynamic load rating	1650N	
Thread direction	Right-hand	Basic static load rating	3600N	
Number of circuits	1 turn 3 circuit	Spacer ball	None	
Ball diameter	1.200	Lubricant	Multitemp PS2	

Notation of standard ground ball screw

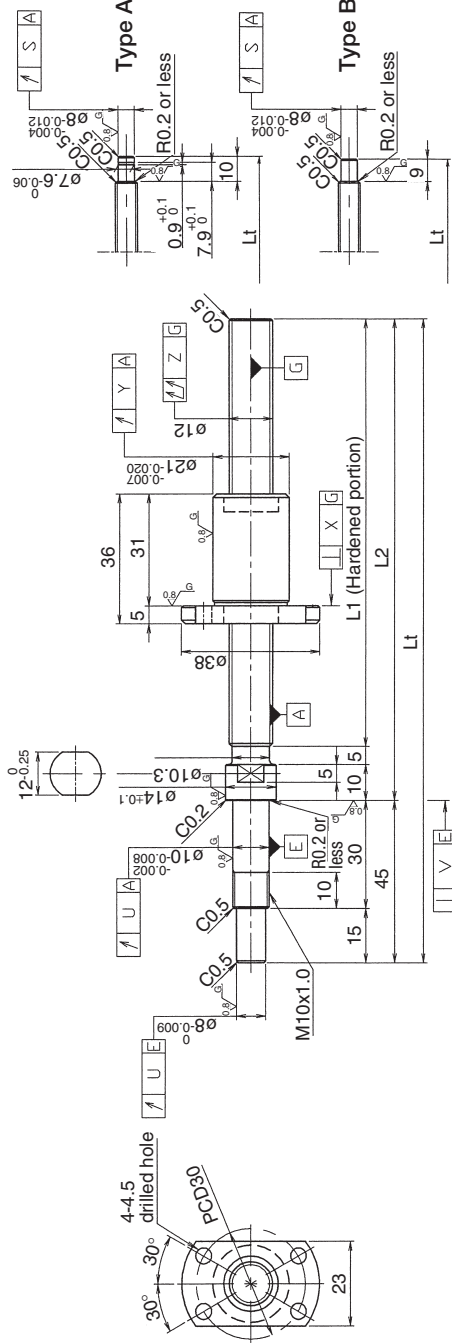
- Standard length shaft without end machining  
DP1202JS-HDNR-□□□□□□B-C3F  
DP1202JS-HDNR-□□□□□□B-C3S
  - With end machining specified on your drawing  
DP1202JS-□DNR-□□□□□□X□□□□□□-C3F  
DP1202JS-□DNR-□□□□□□X□□□□□□-C3S
- Overall length    Thread length



**ONE SHAFT END FINISHED**

**Screw shaft diameter  $\phi 12$ , Lead 3**

Recommended supported end configuration (Unit: mm)



Model No.	Axial clearance	L <sub>1</sub>	L <sub>2</sub>	L <sub>t</sub>	U	V	S	X	Y	Z	Preload torque (N·cm)		Lead accuracy		Wiper	Mass (kg)
											~1.0	0.4~3.4	±Ec	ec		
DP1203JS-HDPR-0300B-C3F	~0.005(F)	240	255	300						0.030	~1.0	0.012	0.008	Plastic wiper	0.29	
DP1203JS-HDPR-0300B-C3S	0(S)				0.007	0.003	0.011	0.008	0.010	0.040	0.4~3.4	0.013	0.010		0.36	
DP1203JS-HDPR-0400B-C3F	~0.005(F)	340	355	400							~1.0					
DP1203JS-HDPR-0400B-C3S	0(S)										0.4~3.4					

· Mounting accuracy of ball screw in case of shaft end machining is equivalent to JIS C5 grade.

· Support unit: BUK-10A (BUK-10F, BUK-8S) or BUM-10 is recommended.

· Product with axial clearance ~0.005(F) shown in the table may be partially preloaded.

· Preload torque shown in the table is a value before greasing.

· The grease is contained inside of nut only at the time of delivery. When using it, apply lubricant where appropriate.

**Table of optional specifications for each model**

Additional machining of shaft end	Surface treatment (Note 1)	Difference of grease	Direction of nut	Wiper removal
o	o	o	o	o

Note 1: For the above-mentioned surface treatment, consult KURODA.

**Ball screw specifications**

Screw shaft diameter	12	Axial clearance	~0.005(F)	0(S)
Lead	3	Basic dynamic load rating	3450N	
Thread direction	Right-hand	Basic static load rating	6100N	
Number of circuits	1 turn 3 circuit	Spacer ball	None	
Ball diameter	2.000	Lubricant	Multemp PS2	

**Notation of standard ground ball screw**

- Standard length shaft without end machining  
DP1203JS-HDPR-□□□□□□□□□□-B-C3F  
DP1203JS-HDPR-□□□□□□□□□□-B-C3S
- With end machining specified on your drawing  
DP1203JS-□□□□R-□□□□□□□□□□-C3F  
DP1203JS-□□□□R-□□□□□□□□□□-C3S

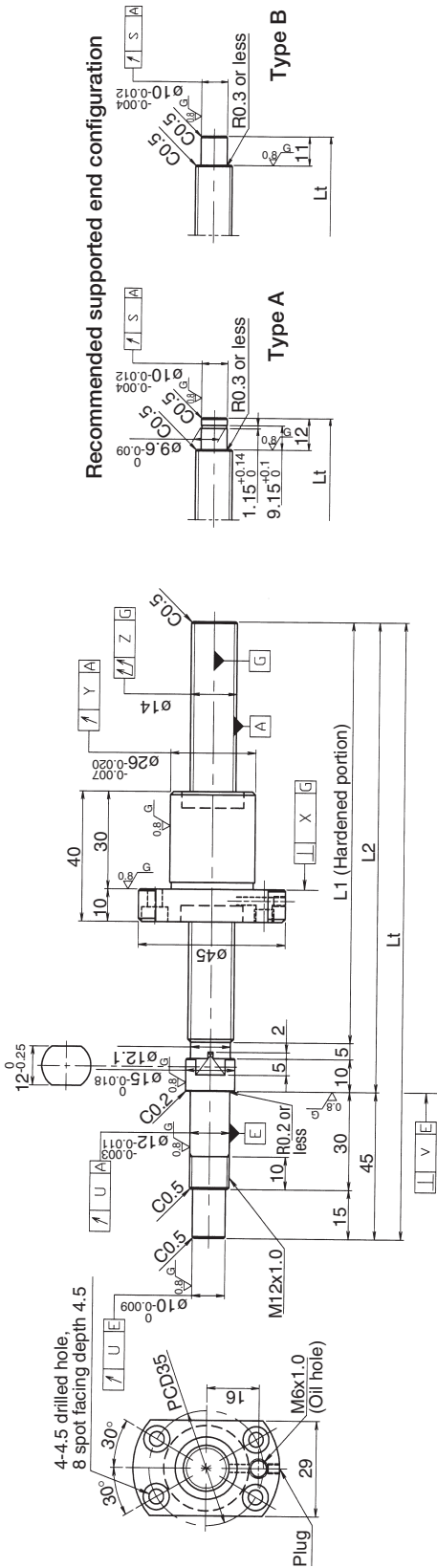
Overall length Thread length

**KURODA** Standard Ground Ball Screw: DP Series (Accuracy grade C3)

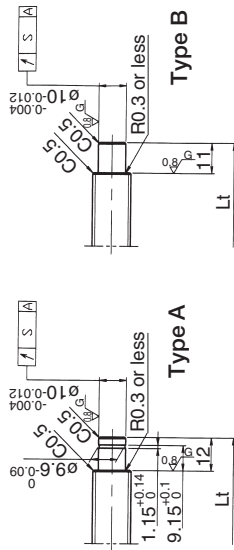
**ONE SHAFT END FINISHED**

**Screw shaft diameter ø14, Lead 4**

(Unit: mm)



Recommended supported end configuration



Model No.	Axial clearance	L <sub>1</sub>	L <sub>2</sub>	L <sub>4</sub>	L <sub>5</sub>	U	V	S	X	Y	Z	Lead accuracy		Wiper	Mass (kg)
												±Ec	e300		
DP1404JS-HDPR-0230B-C3F	~0.005(F)	170	185	230							0.025	~1.5	0.012	0.008	0.38
DP1404JS-HDPR-0230B-C3S	0(S)										0.025	1.0~6.9			
DP1404JS-HDPR-0280B-C3F	~0.005(F)	220	235	280							0.025	~1.5	0.012	0.008	0.43
DP1404JS-HDPR-0280B-C3S	0(S)										0.025	1.0~6.9			
DP1404JS-HDPR-0330B-C3F	~0.005(F)	270	285	330	0.009	0.004	0.012	0.008	0.010	0.030	~1.5	~1.5	0.012	0.008	0.48
DP1404JS-HDPR-0330B-C3S	0(S)										0.040	1.0~6.9		Plastic wiper	0.59
DP1404JS-HDPR-0430B-C3F	~0.005(F)	370	385	430							0.045	~1.5	0.013	0.010	0.69
DP1404JS-HDPR-0430B-C3S	0(S)										0.045	1.0~6.9			
DP1404JS-HDPR-0530B-C3F	~0.005(F)	470	485	530								~1.5	0.015	0.010	0.69
DP1404JS-HDPR-0530B-C3S	0(S)											1.0~6.9			

- Mounting accuracy of ball screw in case of shaft end machining is equivalent to JIS C5 grade. · Support unit: BUK-12A (BUK-12F, BUK-10S) or BUM-12 is recommended.
- Product with axial clearance ~0.005(F) shown in the table may be partially preloaded. · Preload torque shown in the table is a value before greasing.
- The grease is contained inside of nut only at the time of delivery. When using it, apply lubricant where appropriate.

Table of optional specifications for each model

Additional machining of shaft end	Surface treatment (Note 1)	Difference of grease	Direction of nut	Wiper removal
o	∅	o	o	o

Note 1: For the above-mentioned surface treatment, consult KURODA.

Ball screw specifications

Screw shaft diameter	Lead	Thread direction	Number of circuits	Ball diameter	Axial clearance	Basic dynamic load rating	Basic static load rating	Spacer ball	Lubricant
14	4	Right-hand	1 turn 3 circuit	2.3812	~0.005(F)	4600N	8600N	None	Multemp PS2

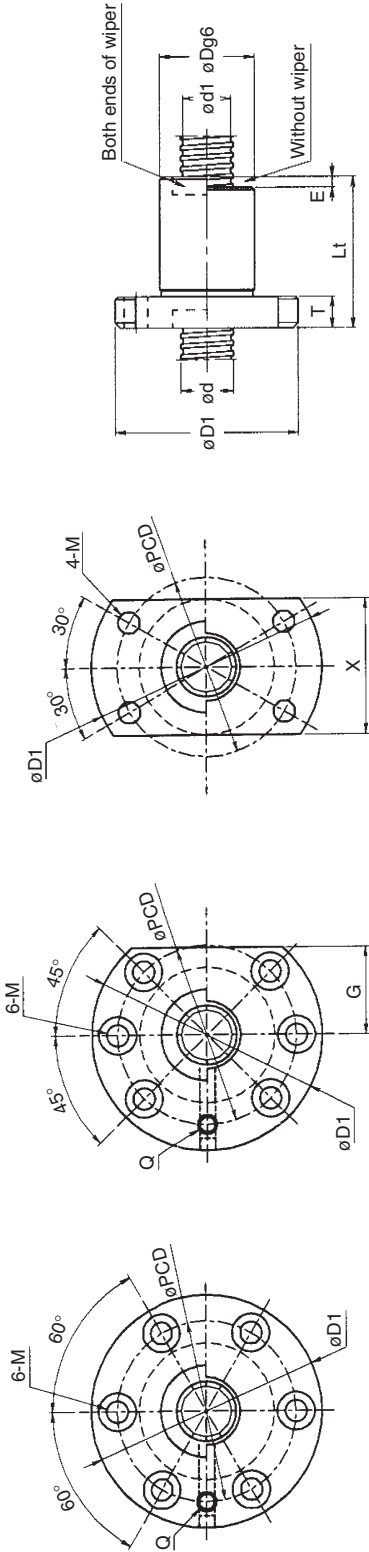
Notation of standard ground ball screw

- Standard length shaft without end machining  
DP1404JS-HDPR-□□□□□□□□□□-C3F
- With end machining specified on your drawing  
DP1404JS-□□□□□□□□□□□□□□□□□□□□-C3F
- Overall length Thread length  
DP1404JS-□□□□□□□□□□□□□□□□□□□□-C3S

**DEFLECTOR METHOD SINGLE NUT**

**Screw shaft diameter  $\phi 6$ - $\phi 20$**

(Unit: mm)



Flange type C

Flange type D

Flange type H

Model No.	Screw shaft diameter $d$	Lead $L$	Ball diameter $D_b$	Root diameter $d_1$	Number of Turn Circuits $x$	Basic dynamic load rating $C$ (N)	Basic static load rating $C_0$ (N)	* Rigidity $K_{vis}$ (N/ $\mu$ m)	Nut dimensions				Flange dimensions				Mounting hole			Mass										
									Outer diameter $D$	Overall length $L_t$	Wiper material	Without wiper $E$	Flange thickness $T$	Flange outer diameter $D_1$	Flange type	W $W$	X $X$	Y $Y$	A $A$	B $B$	G $G$	Q $Q$	PCD	Drill	M Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)		
																													Flange type C	Flange type D
DR0601JS-HDNR	6	1	0.8000	5.3	1X3	550	1150	50	10	14.5	N	-	3.5	22	H	-	14	-	-	-	-	-	-	-	16	3.4	-	-	0.01	0.02
DR0801JS-HDNR	8	1	0.8000	7.3	1X3	650	1600	60	12	15	N	-	4	25	H	-	16	-	-	-	-	-	-	-	19	3.4	-	-	0.01	0.04
DR0802JS-HDNR	8	2	1.2000	7	1X3	1350	2300	60	14	21	N	-	4	27	H	-	17	-	-	-	-	-	-	-	21	3.4	-	-	0.02	0.04
DR1002JS-HDNR	10	2	1.2000	9	1X3	1550	3000	70	16	22	N	-	5	33	H	-	21	-	-	-	-	-	-	-	25	4.5	-	-	0.03	0.06
DR1202JS-HDNR	12	2	1.2000	11	1X3	1650	3600	85	18	22	N	-	5	35	H	-	22	-	-	-	-	-	-	-	27	4.5	-	-	0.04	0.09
DR1203JS-HDPR	12	3	2.0000	10.3	1X3	3450	6100	100	21	36	P	3	5	38	H	-	23	-	-	-	-	-	-	-	30	4.5	-	-	0.07	0.09
DR1404JS-HDPR	14	4	2.3812	12.1	1X3	4600	8600	110	26	40	P	3	10	45	H	-	29	-	-	-	-	-	-	-	35	4.5	8	4.5	0.15	0.12
DR1605JS-CDPR	16	5	3.1750	13.5	1X3	7700	14600	120	28	47	P	3	10	47	C	-	-	-	-	-	-	-	-	-	37	4.5	8	4.4	0.20	0.16
DR1605JS-DDPR	16	5	3.1750	13.5	1X3	7700	14600	120	28	47	P	3	10	47	D	-	-	-	-	-	-	-	-	-	37	4.5	8	4.4	0.19	0.16
DR2005JS-CDPR	20	5	3.1750	17.5	1X3	8900	18900	150	35	46	P	3	11	58	C	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.33	0.25
DR2005JS-DDPR	20	5	3.1750	17.5	1X3	8900	18900	150	35	46	P	3	11	58	D	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.31	0.25
DR2005KS-CDPR	20	5	3.1750	17.5	1X4	11400	25200	200	35	51	P	3	11	58	C	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.35	0.25
DR2005KS-DDPR	20	5	3.1750	17.5	1X4	11400	25200	200	35	51	P	3	11	58	D	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.33	0.25
DR2010JS-CDPR	20	10	3.9688	16.6	1X3	10000	19000	150	35	63	P	3	11	58	C	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.38	0.25
DR2010JS-DDPR	20	10	3.9688	16.6	1X3	10000	19000	150	35	63	P	3	11	58	D	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.36	0.25

Note: \* The rigidity indicated with the \* mark in the above list represents the practical value based on the result of rigidity test. 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.

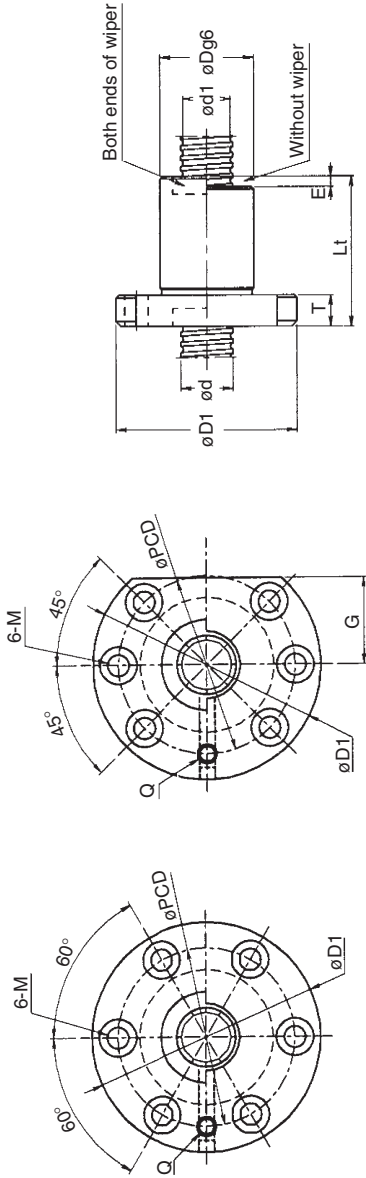
· Wiper material N: Without wiper P: Plastic wiper

**KURODA** Customized Ground Ball Screw: DR Series (Accuracy grade C0-C10)

**DEFLECTOR METHOD SINGLE NUT**

**Screw shaft diameter ø25-ø50**

(Unit: mm)



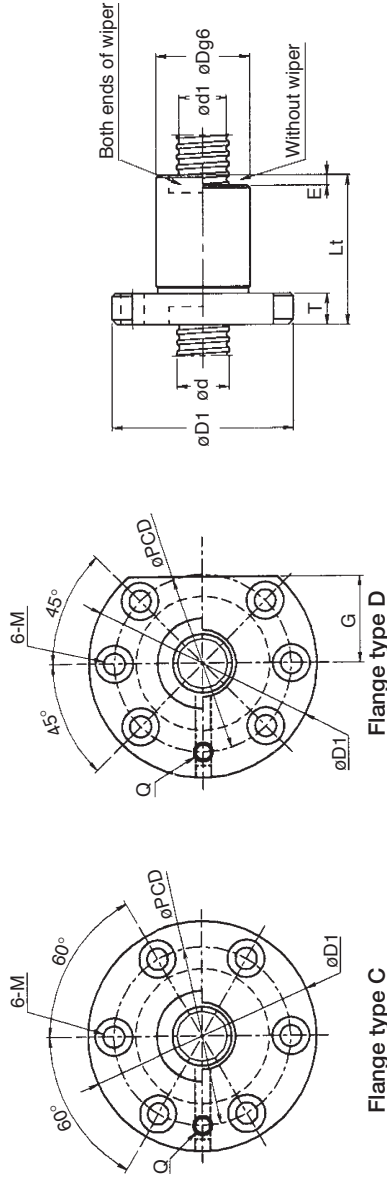
Model No.	Screw shaft diameter d	Lead L	Ball diameter D <sub>b</sub>	Root diameter d <sub>1</sub>	Number of circuits	Basic dynamic load rating C (N)	Basic static load rating C <sub>0</sub> (N)	Basic * Rigidity K <sub>NS</sub> (N/μm)	Nut dimensions										Mass										
									Outer diameter D	Overall length L <sub>t</sub>	Wiper material	Without wiper E	Flange thickness T	Flange outer diameter D <sub>1</sub>	Flange type	Flange dimensions			PCD	Mounting hole		Nut (kg)	Screw shaft (kg/100mm)						
																W	X	Y		A	B			G	Q	Drill	M	Spot facing	Depth
DR2505JS-CDPR	25	5	3.1750	22.5	1X3	9850	23450	180	40	46	P	3	11	63	C	-	-	-	-	-	-	M6	51	5.5	9.5	5.4	0.37	0.38	
DR2505JS-DDPR	25	5	3.1750	22.5	1X3	9850	23450	180	40	46	P	3	11	63	D	-	-	-	-	-	-	-	M6	51	5.5	9.5	5.4	0.35	0.38
DR2510JS-CDPR	25	10	3.9688	21.6	1X3	12000	25800	190	40	63	P	3	11	63	C	-	-	-	-	-	-	-	M6	51	5.5	9.5	5.4	0.43	0.38
DR2510JS-DDPR	25	10	3.9688	21.6	1X3	12000	25800	190	40	63	P	3	11	63	D	-	-	-	-	-	-	-	M6	51	5.5	9.5	5.4	0.41	0.38
DR3205JS-CDPR	32	5	3.1750	29.5	1X3	11300	31100	220	48	47	P	3	12	75	C	-	-	-	-	-	-	-	M6	61	6.6	11	6.5	0.53	0.63
DR3205JS-DDPR	32	5	3.1750	29.5	1X3	11300	31100	220	48	47	P	3	12	75	D	-	-	-	-	-	-	-	M6	61	6.6	11	6.5	0.51	0.63
DR3205KS-CDPR	32	5	3.1750	29.5	1X4	14500	41500	290	48	52	P	3	12	75	C	-	-	-	-	-	-	-	M6	61	6.6	11	6.5	0.56	0.63
DR3205KS-DDPR	32	5	3.1750	29.5	1X4	14500	41500	290	48	52	P	3	12	75	D	-	-	-	-	-	-	-	M6	61	6.6	11	6.5	0.54	0.63
DR3210JS-CDPR	32	10	6.3500	27.2	1X3	26900	58400	250	50	78	P	8	15	84	C	-	-	-	-	-	-	-	M6	66	9	14	8.6	0.84	0.63
DR3210JS-DDPR	32	10	6.3500	27.2	1X3	26900	58400	250	50	78	P	8	15	84	D	-	-	-	-	-	-	-	M6	66	9	14	8.6	0.80	0.63
DR4010JS-CDPR	40	10	6.3500	35.2	1X3	31300	80300	300	62	83	P	8	18	104	C	-	-	-	-	-	-	-	Rc1/8	82	11	17.5	10.8	1.54	0.98
DR4010JS-DDPR	40	10	6.3500	35.2	1X3	31300	80300	300	62	83	P	8	18	104	D	-	-	-	-	-	-	-	Rc1/8	82	11	17.5	10.8	1.46	0.98
DR4010KS-CDPR	40	10	6.3500	35.2	1X4	40100	100000	400	62	93	P	8	18	104	C	-	-	-	-	-	-	-	Rc1/8	82	11	17.5	10.8	1.63	0.98
DR4010KS-DDPR	40	10	6.3500	35.2	1X4	40100	100000	400	62	93	P	8	18	104	D	-	-	-	-	-	-	-	Rc1/8	82	11	17.5	10.8	1.55	0.98
DR5010JS-CDPR	50	10	6.3500	45.2	1X3	35700	98150	370	72	83	P	8	18	114	C	-	-	-	-	-	-	-	Rc1/8	92	11	17.5	10.8	1.77	1.53
DR5010JS-DDPR	50	10	6.3500	45.2	1X3	35700	98150	370	72	83	P	8	18	114	D	-	-	-	-	-	-	-	Rc1/8	92	11	17.5	10.8	1.68	1.53
DR6010KS-CDPR	50	10	6.3500	45.2	1X4	45700	130000	490	72	93	P	8	18	114	C	-	-	-	-	-	-	-	Rc1/8	92	11	17.5	10.8	1.88	1.53
DR6010KS-DDPR	50	10	6.3500	45.2	1X4	45700	130000	490	72	93	P	8	18	114	D	-	-	-	-	-	-	-	Rc1/8	92	11	17.5	10.8	1.79	1.53

Note: \* The rigidity indicated with the \*mark in the above list represents the practical value based on the result of rigidity test. 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

**DEFLECTOR METHOD INTEGRAL NUT**

**Screw shaft diameter  $\phi 16$ - $\phi 50$**

(Unit: mm)



Model No.	Screw shaft diameter $d$	Lead $L$	Ball diameter $D_b$	Root diameter $d_1$	Turns $x$	Basic dynamic rating $C$ (N)	Basic static rating $C_0$ (N)	Rigidity $K_{nw}$ (N/ $\mu$ m)	Nut dimensions				Flange dimensions				Mounting hole			Mass											
									Outer diameter $D$	Overall length $L_t$	Wiper material	Without wiper thickness $E$	Flange thickness $T$	Flange outer diameter $D_1$	Flange type	W $W$	X $X$	Y $Y$	A $A$	B $B$	G $G$	Q $Q$	PCD	Drill	M Spot facing	Depth	Nut (kg)	Screw shaft (kg/100mm)			
DR1605JT-CDPR	16	5	3.1750	13.5	1X3	7700	14600	230	28	67	P	3	10	47	C	-	-	-	-	-	-	-	-	-	37	4.5	8	4.4	0.24	0.16	
DR1605JT-DDPR	16	5	3.1750	13.5	1X3	7700	14600	230	28	67	P	3	10	47	D	-	-	-	-	-	-	-	-	-	-	37	4.5	8	4.4	0.24	0.16
DR2005JT-CDPR	20	5	3.1750	17.5	1X3	8900	18900	280	35	66	P	3	11	58	C	-	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.41	0.25
DR2005JT-DDPR	20	5	3.1750	17.5	1X3	8900	18900	280	35	66	P	3	11	58	D	-	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.39	0.25
DR2005KT-CDPR	20	5	3.1750	17.5	1X4	11400	25200	370	35	76	P	3	11	58	C	-	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.44	0.25
DR2005KT-DDPR	20	5	3.1750	17.5	1X4	11400	25200	370	35	76	P	3	11	58	D	-	-	-	-	-	-	-	-	-	-	46	5.5	9.5	5.4	0.43	0.25
DR2505JT-CDPR	25	5	3.1750	22.5	1X3	9850	23450	340	40	66	P	3	11	63	C	-	-	-	-	-	-	-	-	-	-	51	5.5	9.5	5.4	0.46	0.38
DR2505JT-DDPR	25	5	3.1750	22.5	1X3	9850	23450	340	40	66	P	3	11	63	D	-	-	-	-	-	-	-	-	-	-	51	5.5	9.5	5.4	0.45	0.38
DR3205JT-CDPR	32	5	3.1750	29.5	1X3	11300	31100	420	48	67	P	3	12	75	C	-	-	-	-	-	-	-	-	-	-	61	6.6	11	6.5	0.66	0.63
DR3205JT-DDPR	32	5	3.1750	29.5	1X3	11300	31100	420	48	67	P	3	12	75	D	-	-	-	-	-	-	-	-	-	-	61	6.6	11	6.5	0.63	0.63
DR3205KT-CDPR	32	5	3.1750	29.5	1X4	14500	41500	560	48	77	P	3	12	75	C	-	-	-	-	-	-	-	-	-	-	61	6.6	11	6.5	0.72	0.63
DR3205KT-DDPR	32	5	3.1750	29.5	1X4	14500	41500	560	48	77	P	3	12	75	D	-	-	-	-	-	-	-	-	-	-	61	6.6	11	6.5	0.69	0.63
DR3210JT-CDPR	32	10	6.3500	27.2	1X3	26900	58400	430	50	118	P	8	15	84	C	-	-	-	-	-	-	-	-	-	-	66	9	14	8.6	1.05	0.63
DR3210JT-DDPR	32	10	6.3500	27.2	1X3	26900	58400	430	50	118	P	8	15	84	D	-	-	-	-	-	-	-	-	-	-	66	9	14	8.6	1.02	0.63
DR4010JT-CDPR	40	10	6.3500	35.2	1X3	31300	80300	530	62	123	P	8	18	104	C	-	-	-	-	-	-	-	-	-	-	82	11	17.5	10.8	1.91	0.98
DR4010JT-DDPR	40	10	6.3500	35.2	1X3	31300	80300	530	62	123	P	8	18	104	D	-	-	-	-	-	-	-	-	-	-	82	11	17.5	10.8	1.83	0.98
DR4010KT-CDPR	40	10	6.3500	35.2	1X4	40100	100000	690	62	143	P	8	18	104	C	-	-	-	-	-	-	-	-	-	-	82	11	17.5	10.8	2.09	0.98
DR4010KT-DDPR	40	10	6.3500	35.2	1X4	40100	100000	690	62	143	P	8	18	104	D	-	-	-	-	-	-	-	-	-	-	82	11	17.5	10.8	2.02	0.98
DR5010JT-CDPR	50	10	6.3500	45.2	1X3	35700	98150	640	72	123	P	8	18	114	C	-	-	-	-	-	-	-	-	-	-	92	11	17.5	10.8	2.21	1.53
DR5010JT-DDPR	50	10	6.3500	45.2	1X3	35700	98150	640	72	123	P	8	18	114	D	-	-	-	-	-	-	-	-	-	-	92	11	17.5	10.8	2.12	1.53
DR5010KT-CDPR	50	10	6.3500	45.2	1X4	45700	130000	850	72	143	P	8	18	114	C	-	-	-	-	-	-	-	-	-	-	92	11	17.5	10.8	2.43	1.53
DR5010KT-DDPR	50	10	6.3500	45.2	1X4	45700	130000	850	72	143	P	8	18	114	D	-	-	-	-	-	-	-	-	-	-	92	11	17.5	10.8	2.34	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 practical value based on the result of rigidity test for the rigidity of nut etc. . Wiper material P: Plastic wiper

