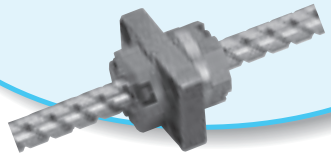
KURODA

BALL SCREWS

Compact and High Speed!!

Standard Ground Ball Screw
H series

HG：C5 Accuracy
End Cap Method with Multi-Start Threads
High Speed Application
Shaft：ϕ 6 — ϕ 32



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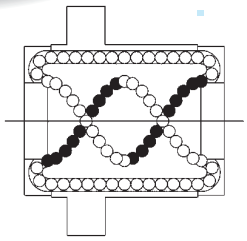
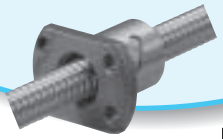


Standard Ground Ball Screw
D series

DP：C3 Accuracy
Deflector Method
Compact Nut Diameter
Shaft：ϕ 6 — ϕ 14



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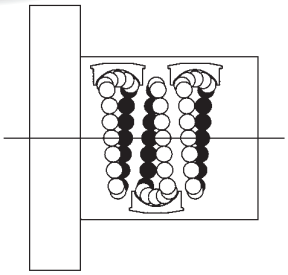
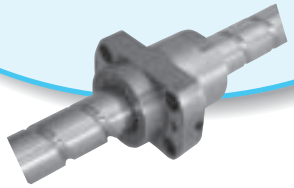


High-Speed and Ultra-Quiet Ball Screw
F Series

Innovative End Defrector Method
Ultra Quiet and MAX.5000r.p.m. (in ϕ25 screw shaft)
ϕ20 & 25 in C5 & C7 as standard
ϕ20–40 in C3 & C5 as customized



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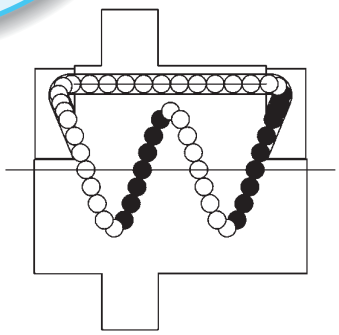
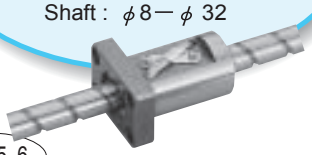


Abundant Variety of Ball Screws

Standard Ground Ball Screw

G series
GE : C7, GG : C5, GP : C3
Shaft : ϕ8 — ϕ 32



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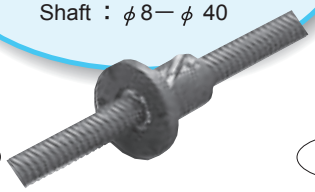
Standard Rolled Ball Screw

G series
GY : C10, GW : C7
Shaft : ϕ8 — ϕ 40



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Customized Ground Ball Screw

G series
GR, GD, FR, GM, GZ : C0 —C10
Shaft : ϕ8 — ϕ 125

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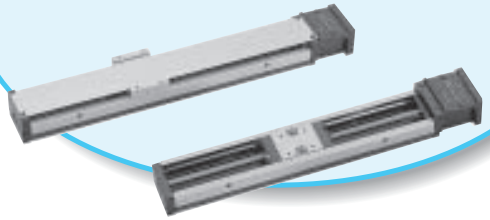
Space, Designing & Ass'y time saving

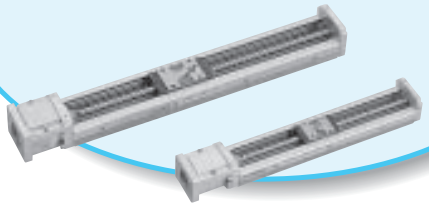
Ballscrew Actuator

SE series
High Rigidity
with Rolled Ball Screw
Ball Screw Dia . : ϕ8, 10, 15



Ballscrew Actuator

SG series
High Accuracy and Rigidity
with Ground Ball Screw
Ball Screw Dia. : ϕ 6–20



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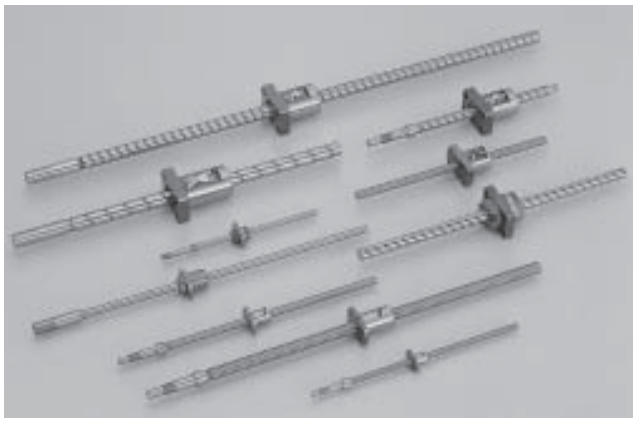
BALL SCREW RANGE



ORDERING NUMBER

●Without end machining

GE 1504DS－BALR－0600A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

●With end machining

GE 1504DS－BALR－1100 X 0600－C7M

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭

①Series

Ground ball screw	Rolled ball screw
GE : JIS C7 grade	GY : JIS C10 grade
GG : JIS C5 grade	GW : JIS C7 grade
GP : JIS C3 grade	GT : Customized for Rolled Ball Screw
DP : JIS C3 grade	
HG : JIS C5 grade high lead	
FE : JIS C7 grade	
FG : JIS C5 grade	

FR : Order for nut with exact same dimensions as our catalogue
GR : Order for nut with exact same dimensions as our catalogue
GD : Order for nut with exact same dimensions as our catalogue
GM : Order for nut with different flange dimensions from our catalog
GZ : Customized ball screw

②Shaft diameter (mm)

③Lead (mm)

④Number of circuits

A : 1.5 turns 1 circuit	H : 1 turn 2 circuits
B : 1.5 turns 2 circuits	J : 1 turn 3 circuits
C : 1.5 turns 3 circuits	K : 1 turn 4 circuits
D : 2.5 turns 1 circuit	L : 1 turn 5 circuits
E : 2.5 turns 2 circuits	M : 1 turn 6 circuits
F : 2.5 turns 3 circuits	Q : End cap type
G : 3.5 turns 1 circuit	Z : Customized (including shaft only)
R : 3.5 turns 2 circuits	P : End deflector type

⑤Nut type
S : Single nut
T : Integral nut
D : Double nut (Pin type)
Z : Customized (including shaft only)

⑥Flange type
A～E, H
N : Without flange
Z : Customized (including shaft only)

⑦Ball return system
A : Tube method (Round type)
T : Tube method (Standard type)
U : Tube method (Inlaid type)
K : Tube method (Square type)
D : Deflector method
G : Guide plate method
E : End cap method
Z : Customized (including shaft only)
P : End deflector method

⑧Wiper material
P : Plastic
L : Lip seal
F : Felt
B : Brush
S : LUBSEAL
N : No wiper

⑨Thread direction
R : Right hand thread
L : Left hand thread
Z : Others (including shaft only)

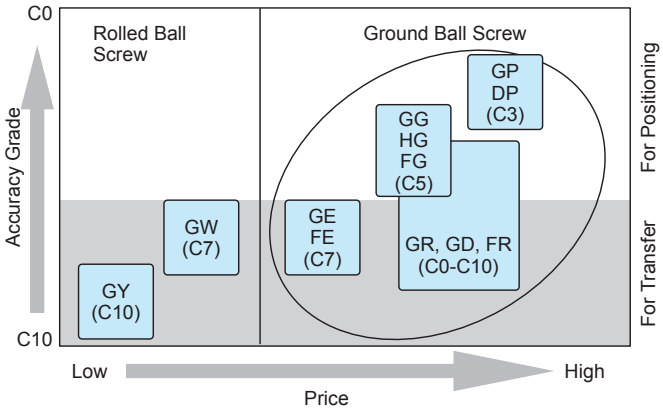
⑩Overall length of screw shaft (mm)

⑪Shaft end configuration
A : Without end machining
B : One shaft end machining as per your drawing
X : End machining as per your drawing
Y : End machining as per your drawing for rolled screw shaft

⑫Thread length (mm)

⑬Accuracy grade
C0, C1, C2, C3, C4, C5, C7, CA (=C10)

⑭Axial clearance
S : 0 (Preloaded)
F : 0.005mm max
H : 0.010mm max.
M : 0.030mm max
L : 0.200mm max
Y : Axial play for rolled ball screw
Z : Others



— MATERIAL & HARDENING —

GROUND BALL SCREW

	MATERIAL	HEAT TREATMENT	HARDNESS
NUT	SCM420	Carburizing	58-62HRC
SHAFT	SCM415 SCM420	Carburizing	58-62HRC
	AISI4150HV	Induction hardening	58-62HRC
STEEL BALL	SUJ2	Hardening	60HRC or higher

ROLLED BALL SCREW

	MATERIAL	HEAT TREATMENT	HARDNESS
NUT	SCM420	Carburizing	56-62HRC
SHAFT	S45C S55C	Induction hardening	58-62HRC
STEEL BALL	SUJ2	Hardening	60HRC or higher