

RF03-N

Rotary type / Limit rotation specification

Articulated robots
VA

Linear conveyor
modules
LCM100

Motor-less single
axis actuator
Robonity

Compact
single-axis robots
TRANSEROV

Single-axis robots
FLIP-X

Linear motor
PHASER

Cartesian
robots
X1-X

SCARA
robots
YK-X

Pick & place
Y-P-X

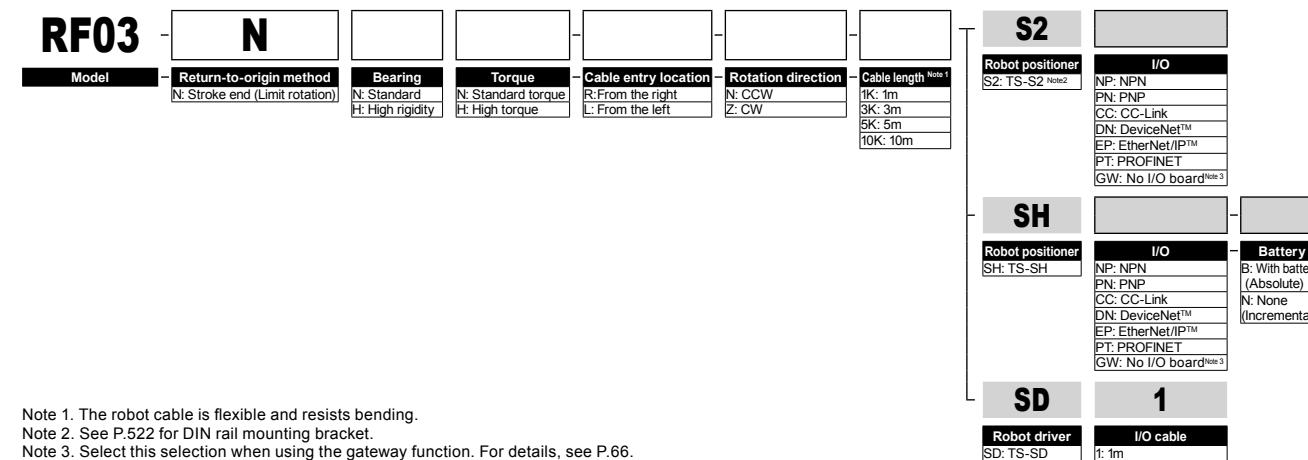
CLEAN

CONTROLLER
INFORMATION

CE compliance

Rotation range : 320°

Ordering method



Note 1. The robot cable is flexible and resists bending.

Note 2. See P.522 for DIN rail mounting bracket.

Note 3. Select this selection when using the gateway function. For details, see P.66.

Basic specifications

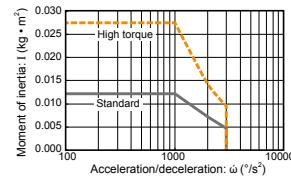
Motor	28 □ Step motor
Resolution (Pulse/rotation)	4096
Repeatability Note 1 (°)	+/-0.05
Drive method	Special warm gear + belt
Torque type	Standard High torque
Maximum speed Note 2 (%/sec)	420 280
Rotating torque (N·m)	0.8 1.2
Max. pushing torque (N·m)	0.4 0.6
Backlash (°)	+/-0.5
Max. moment of inertia Note 3 (kg·m²)	0.012 0.027
Cable length (m)	Standard: 1 Option: 3, 5, 10
Rotation range (°)	320

Note 1. Positioning repeatability in one direction.

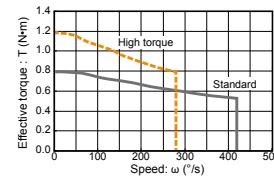
Note 2. The maximum speed may vary depending on the moment of inertia. Check the maximum speed while referring to the "Moment of inertia vs. Acceleration/deceleration" graph and the "Effective torque vs. speed" graph (reference).

Note 3. For moment of inertia and effective torque details, see P.641.

Moment of inertia Acceleration/deceleration



Effective torque vs. speed



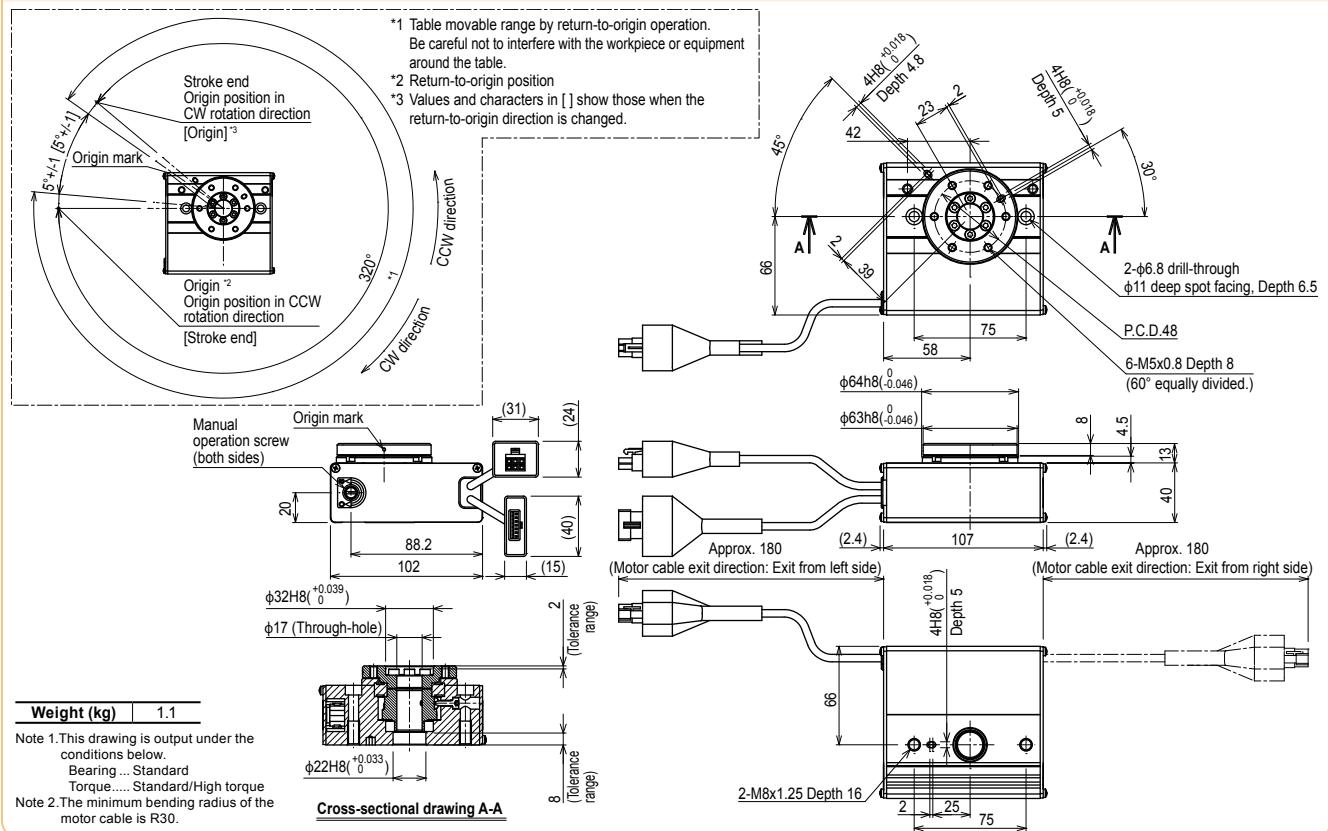
Allowable load

Allowable radial load (N)	Allowable thrust load (N)		Allowable moment (N·m)	
	(a)	(b)	Standard model	High rigidity model
Standard model	196	233	197	363
High rigidity model			398	5.3 6.4

Note. When purchasing the product, set the controller acceleration while carefully checking the "Moment of inertia vs. Acceleration/Deceleration" and "Effective torque vs. Speed" graphs.

For details, please refer to the TRANSEROV Series User's Manual.

RF03-NN Limit rotation specification – Standard model



Controller

Controller	Operation method
TS-S2	I/O point trace / Remote command
TS-SH	
TS-SD	Pulse train control

RF03-NH Limit rotation specification – High rigidity model

