

B10



APPLICATION
Compact
single-axis robots
TRANSEURO
Single-axis robots
FLIP-X
Single-axis robots
PHASER
Linear motor
single-axis robots
XY-X
Cartesian
robots
YK-XG
SCARA
robots
YP-X
Pick & place
robots
CLEAN
CONTROLLER INFORMATION
T type
F type
N type
B type

Ordering method

B10				SR1-X	05					
Model	Motor installation direction L: Motor leftward, horizontal position R: Motor rightward, horizontal position LU: Motor leftward, upper position RU: Motor rightward, upper position LD: Motor leftward, lower position RD: Motor rightward, lower position	Option Grease type: None: Standard GC: Clean	Stroke 150 to 2550 (100mm pitch)	Cable length^{No.1} 3L: 3.5m (Standard) 5L: 5m 10L: 10m 3K/5K/10K ^{No.1}	Controller SR1-X TS-X ^{Note 2} RDX ^{No.2}	Driver 05: 100W or less	Usable for CE No entry: Standard E: CE marking	Regenerative unit No entry: None	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{No.3}	Battery No entry: None (Incremental specification) B: Battery (Absolute specification)

Note 1. The robot cable is standard cable, but can be changed to bend-resistant cable. (not supported on RDX). See P.423 for details on robot cable.
Note 2. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).
Note 3. Available only for the slave.

Specifications

AC servo motor output (W)	100
Repeatability^{Note 1} (mm)	+/-0.04
Belt (mm)	Equivalent to lead 25
Maximum speed (mm/sec)	1875
Maximum payload (kg)	10
Stroke (mm)	150 to 2550 (100mm pitch)
Overall length (mm)	Motor installation: Stroke+397.5 Another: Stroke+310
Maximum dimensions of cross section of main unit (mm)	W100 x H81
Cable length (m)	Standard: 3.5 / Option: 5.10
Linear guide type	4 rows of circular arc grooves x 1 rail
Position detector	Resolvers ^{Note 2}
Resolution (Pulse/rotation)	16384

Note 1. Positioning repeatability in one direction.
Note 2. Position detectors (resolvers) are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications.

Allowable overhang^{Note}

	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)		
	A	B	C	A	B	C
3kg	1800	1392	1084	1144	1005	1734
5kg	1574	826	696	724	576	1199
8kg	1221	509	474	493	333	918
10kg	1171	403	407	414	254	869

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

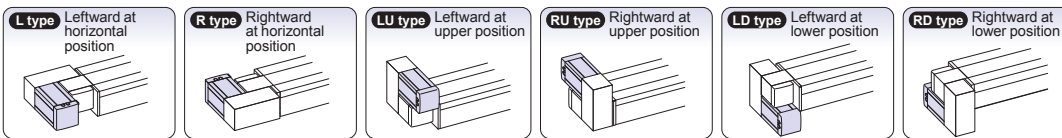
Static loading moment

(Unit: N-m)		
MY	MP	MR
188	188	165

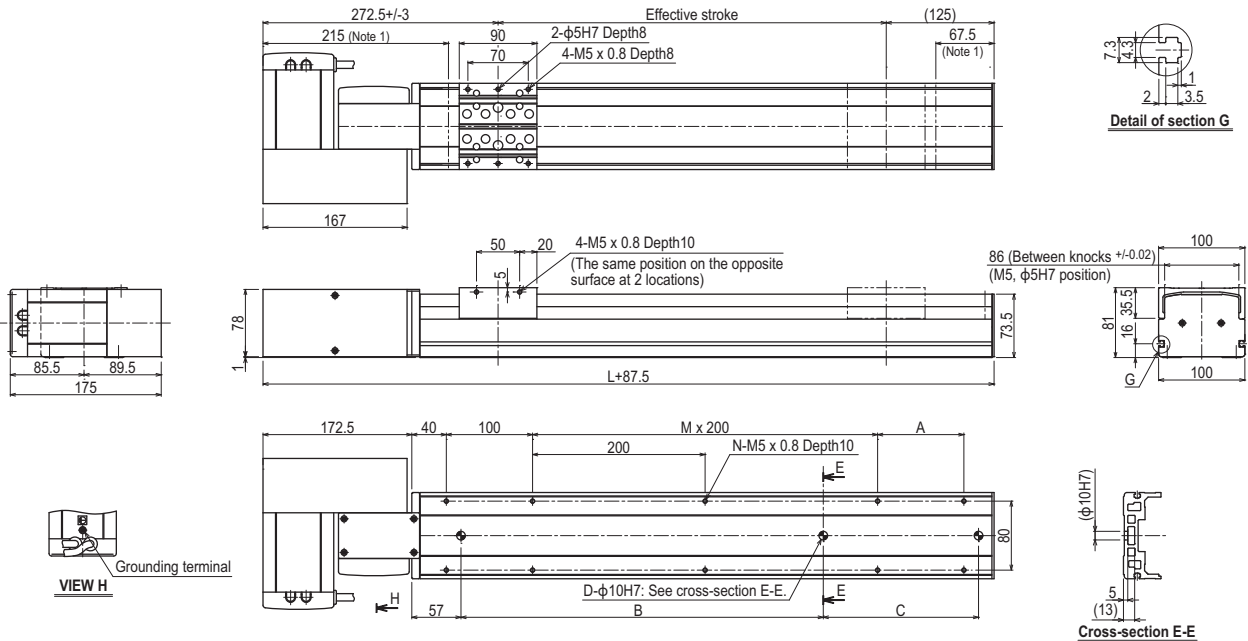
Controller

Controller	Operation method
SR1-X-05	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X205	I/O point trace
RDX-05-RBR1	Pulse train control

Motor installation The line-up consisting of six models of different motor installation position as follows.



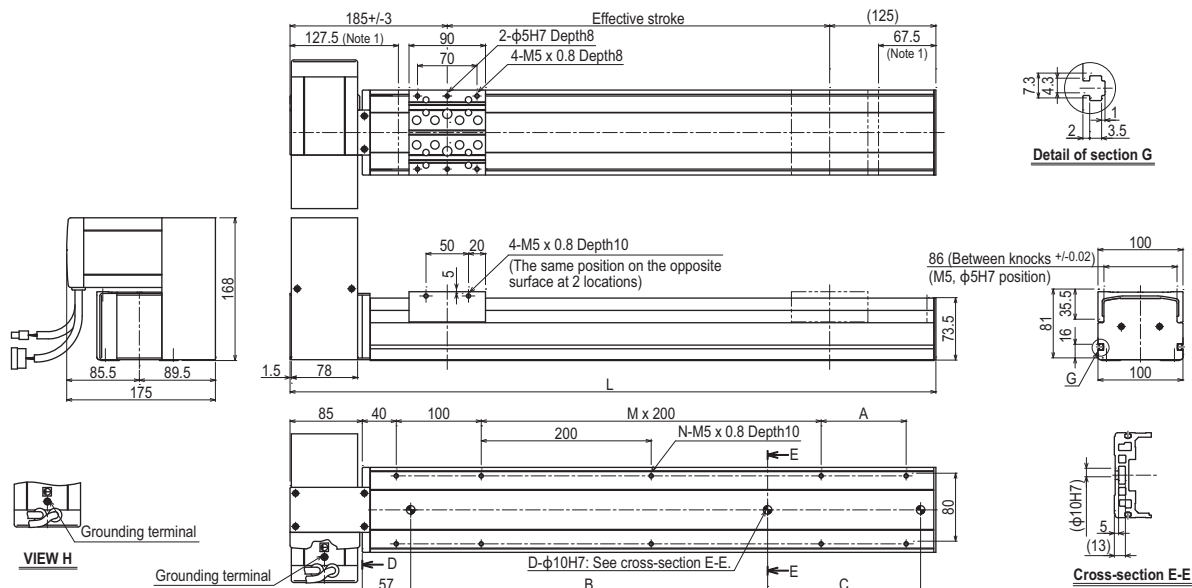
B10 R type



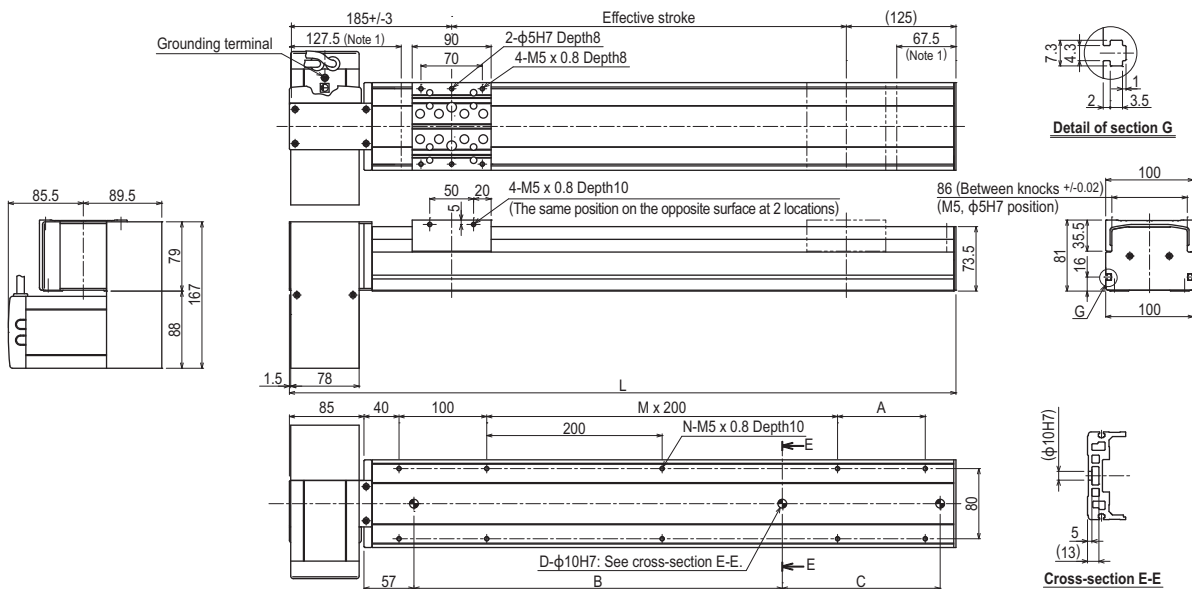
Note 1. Distance from both ends to the mechanical stopper.
Note 2. Motor can be installed in upward, downward or horizontal positions versus the robot movement axis. (This figure shows the horizontal direction.)
Note 3. Motor can be installed on the right or left side of the robot movement axis. (This figure shows the rightward direction.)
Note 4. Cables can be extracted in upward, downward, forward or rearward directions. (This figure shows the forward direction.)

Effective stroke	150	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750	1850	1950	2050	2150	2250	2350	2450	2550
L	460	560	660	760	860	960	1060	1160	1260	1360	1460	1560	1660	1760	1860	1960	2060	2160	2260	2360	2460	2560	2660	2760	2860
A	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200	100	200
B	240	240	420	600	600	780	780	960	960	1140	1140	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320
C	-	-	-	-	-	-	-	-	-	-	-	-	-	240	240	420	420	600	780	780	960	960	1140	1140	1320
D	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
M	-	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12
N	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26	28	28	30	30
Weight (kg)	7.4	8.2	9.0	9.8	10.5	11.3	12.1	12.9	13.7	14.5	15.3	16.1	16.9	17.7	18.4	19.2	20.0	20.8	21.6	22.4	23.2	24.0	24.8	25.6	26.3

B10 RU type



B10 RD type



B10 LU type

