

B14



Ordering method

B14				SR1-X	05					
Model	Motor installation direction	Option	Stroke	Cable length^{Note 1}	Controller	Driver	Usable for CE	Regenerative unit	I/O selection	Battery
	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	None: Standard GC: Clean	150 to 3050 (100mm pitch)	3L: 3.5m Standard 5L: 5m 10L: 10m 3K/5K/10K ^{Note 1}	SR1-X TS-X ^{Note 2} RDX ^{Note 2}	05: 100W or less	No entry: Standard E: CE marking	No entry: None	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 3}	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 P423 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 25mm
Maximum speed (mm/sec)	1875
Maximum payload (kg)	20
Stroke (mm)	150 to 3050 (100mm pitch)
Overall length (mm)	Motor installation L/R type Stroke+425.5 Another Stroke+338
Maximum dimensions of cross section of main unit (mm)	W146 x H94
Cable length (m)	Standard: 3.5 / Option: 5.10
Linear guide type	4 rows of circular arc grooves x 2 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
5kg	2159	1228	943	1064	816	1468
10kg	1389	623	548	564	377	888
20kg	1102	320	348	305	156	615

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
226	227	199

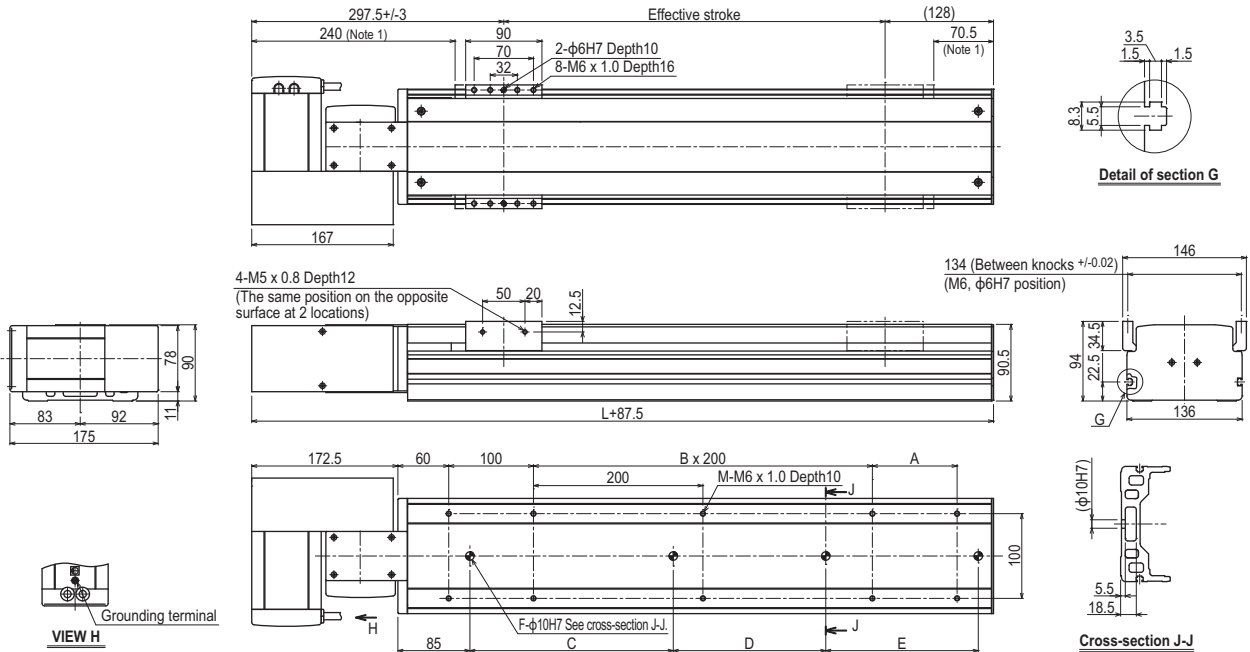
Controller

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.

L type Leftward at horizontal position	R type Rightward at horizontal position	LU type Leftward at upper position	RU type Rightward at upper position	LD type Leftward at lower position	RD type Rightward at lower position
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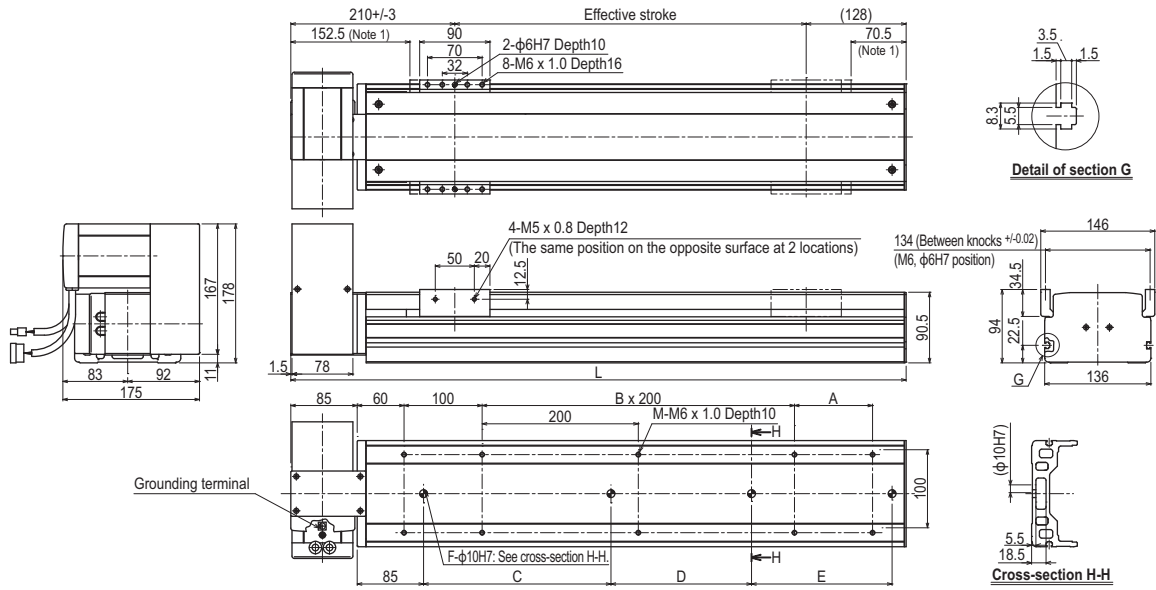
B14 R type



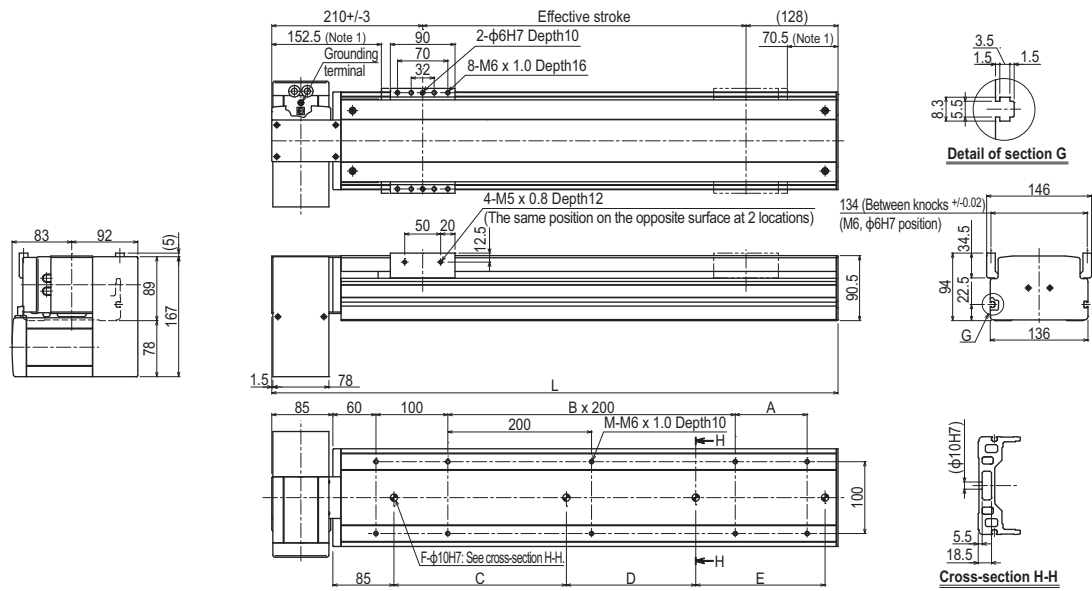
Note 1. Distance from both ends to the mechanical stopper.
 Note 2. Motor can be installed in upward, downward or horizontal positions versus the robot movement axis. (This figure shows the horizontal direction.)
 Note 3. Motor can be installed on the right or left side of the robot movement axis. (This figure shows the rightward direction.)
 Note 4. Cables can be extracted in upward, downward, forward or rearward di. (This figure shows the forward direction.)
 Note 5. As the carriage is made of extracted aluminum, its width dimension may slightly differ from the value above.

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	2650	2750	2850	2950	3050	
L	488	588	688	788	888	988	1088	1188	1288	1388	1488	1588	1688	1788	1888	1988	2088	2188	2288	2388	2488	2588	2688	2788	2888	2988	3088	3188	3288	3388	
M	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	32	32	34	34	36	
A	-	100	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	100	200	100	
B	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12	13	13	14	14	15	
C	240	420	420	600	600	780	780	960	960	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	
D	-	-	-	-	-	-	-	-	-	-	-	240	240	420	420	600	600	780	780	960	960	1140	1140	1140	1140	1140	1140	1140	1140	1140	
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240	240	420	600	600	780	780
F	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	
Weight (kg)	9.6	10.8	12	13.1	14.3	15.5	16.6	17.8	19	20.2	21.3	22.5	23.7	24.8	26	27.2	28.3	29.5	30.7	31.9	33	34.2	35.4	36.5	37.7	38.9	40	41.2	42.4	43.6	

B14 RU type



B14 RD type



B14 LU type

