

B14H



Ordering method

B14H					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 3050 (100mm pitch)	Cable length <small>Note 1</small> 3L: 3.5m (Standard) 5L: 5m 10L: 10m 3K/5K/10K <small>Note 1</small>	Controller SR1-X <small>Note 2</small> TS-X <small>Note 2</small> RDX <small>Note 2</small>	Driver 05: 100W or less	Usable for CE marking No entry: Standard E: CE marking	Regenerative unit <small>Note 3</small> No entry: None R: RG1 (SR1-X)	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link <small>Note 4</small>	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. A regenerative unit is needed if using the SR1-X, TS-X at maximum speeds exceeding 1250mm/sec. If using the RDX, then the regenerative unit RBR1 is required regardless of the installation conditions.
 Note 4. Available only for the slave.

Specifications

AC servo motor output (W)	200
Repeatability <small>Note 1</small> (mm)	+/-0.04
Belt (mm)	Equivalent to lead 25mm
Maximum speed (mm/sec)	1250 (1875 <small>Note 2</small>)
Maximum payload (kg)	30
Stroke (mm)	150 to 3050(100mm pitch)
Overall length (mm)	Motor installation L/R type Another Stroke+475.5
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 <small>Note 3</small>
Resolution (Pulse/rotation)	16384

Note 1. Positioning repeatability in one direction.
 Note 2. A regenerative unit is needed if using the SR1-X, TS-X at maximum speeds exceeding 1250mm/sec. If using the RDX, then the regenerative unit RBR1 is required regardless of the installation conditions.
 Note 3. 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	3000	3000	1941	2074	2585	3000
10kg	2742	1697	1064	1087	1236	2071
20kg	2158	867	651	604	561	1512
30kg	1708	590	466	397	336	1106

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
610	555	488

Controller

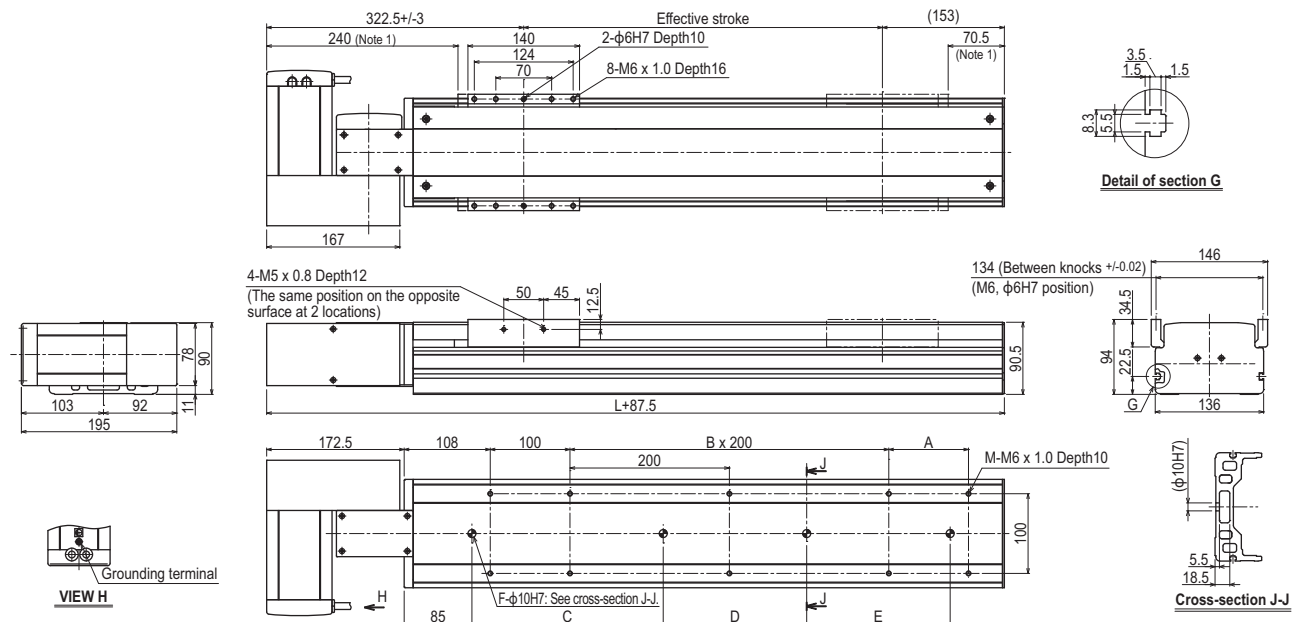
Controller	Operation method
SR1-X-05 <small>Note</small>	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X205 <small>Note</small>	I/O point trace
RDX-10-RBR1	Pulse train control

Note. A regenerative unit is needed if using the SR1-X, TS-X at maximum speeds exceeding 1250mm/sec.

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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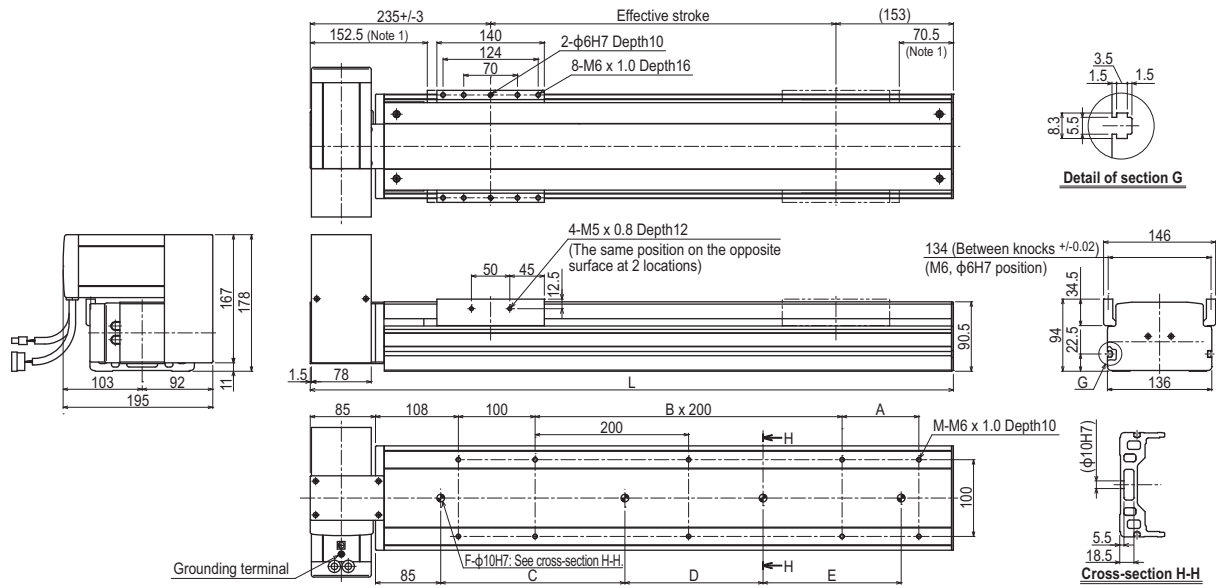
B14H R type



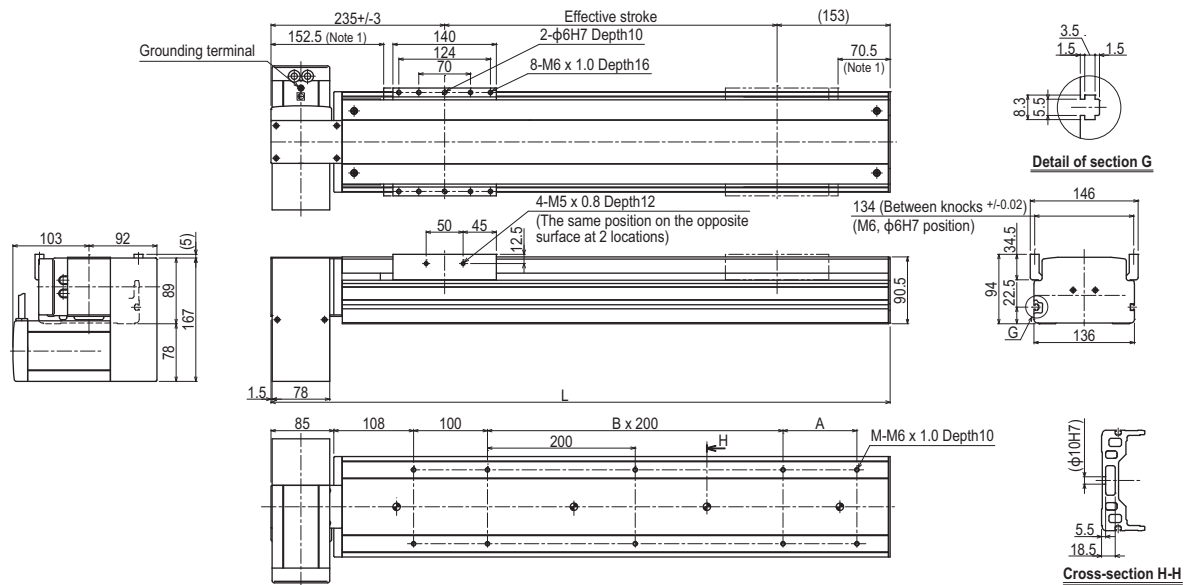
Note 1. Distance from both ends to the mechanical stopper.
 Note 2. Motor can be installed in upward, downward or horizontal positions versus the robot movement axis. (This figure shows the horizontal direction.)
 Note 3. Motor can be installed on the right or left side of the robot movement axis. (This figure shows the rightward direction.)
 Note 4. Cables can be extracted in upward, downward, forward or rearward direction. (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	538	638	738	838	938	1038	1138	1238	1338	1438	1538	1638	1738	1838	1938	2038	2138	2238	2338	2438	2538	2638	2738	2838	2938	3038	3138	3238	3338	3438	
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	1140	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	600	600	780	780	960	960	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	240	420	420	600	600	780	960
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	3	3	3	3	3	3	
Weight (kg)	10.9	12.1	13.2	14.4	15.6	16.7	17.9	19.1	20.2	22.0	22.6	23.8	24.9	26.1	27.3	28.4	29.6	30.8	31.9	33.1	34.3	35.5	36.6	37.8	39.0	40.1	41.3	42.5	43.6	45.4	

B14H RU type



B14H RD type



B14H LU type

