

# B14H



## Ordering method

B14H		Option	Stroke	Cable length (mm)	TSX	R	I/O selection	Battery	
<b>Model</b>	<b>Motor installation direction</b>	<b>Grease type</b> None: Standard GC: Clean	150 to 3050 (60mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	<b>Positioner</b> <sup>Note 2</sup> TSX: TS-X	<b>Regenerative unit</b> R: With RGT	<b>LCD monitor</b> No entry: None L: With LCD	<b>I/O selection</b> NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFIBUS GW: No I/O board <sup>Note 3</sup>	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
	<b>L</b> : Motor leftward, horizontal position <b>R</b> : Motor rightward, horizontal position <b>LU</b> : Motor leftward, upper position <b>RU</b> : Motor rightward, upper position <b>LD</b> : Motor leftward, lower position <b>RD</b> : Motor rightward, lower position								
					<b>SR1-X</b>	<b>05</b>	<b>R</b>	<b>I/O selection</b> N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	<b>Battery</b> B: With battery (Absolute) N: None (Incremental)
					<b>Controller</b>	<b>Driver: Power capacity</b> 05: 100W or less	<b>Usable for CE</b> No entry: Standard E: CE marking		
					<b>RDV-X</b>	<b>2</b>	<b>10</b>	<b>RBR1</b>	<b>Regenerative unit</b>
					<b>Driver</b>	<b>Power-supply voltage</b> 2: AC200V	<b>Driver: Power capacity</b> 10: 200W or less		

Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.732 for details on robot cable.  
 Note 2. See P.634 for DIN rail mounting bracket.  
 Note 3. Select this selection when using the gateway function. For details, see P.96.

## Specifications

<b>AC servo motor output (W)</b>	200
<b>Repeatability</b> <sup>Note 1</sup> (mm)	+/-0.04
<b>Belt (mm)</b>	Equivalent to lead 25mm
<b>Maximum speed (mm/sec)</b>	1250 (1875 <sup>Note 2</sup> )
<b>Maximum payload (kg)</b>	30
<b>Stroke (mm)</b>	150 to 3050(100mm pitch)
<b>Overall length (mm)</b>	<b>Motor installation</b> L/R type <b>Another</b> Stroke+475.5 Stroke+388
<b>Maximum dimensions of cross section of main unit (mm)</b>	W146 × H94
<b>Cable length (m)</b>	Standard: 3.5 / Option: 5,10
<b>Linear guide type</b>	4 rows of circular arc grooves × 2 rail
<b>Position detector</b>	Resolvers <sup>Note 3</sup>
<b>Resolution (Pulse/rotation)</b>	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 RDV-X, 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

	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

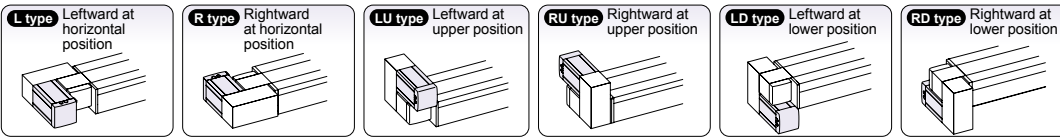
## Controller

Controller	Operation method
SR1-X05 <sup>Note</sup> RCX320 RCX221/222 RCX340	Programming / I/O point trace / Remote command / Operation using RS-232C communication
TS-X105 <sup>Note</sup> TS-X205 <sup>Note</sup>	I/O point trace / Remote command
RDV-X210-RBR1	Pulse train control

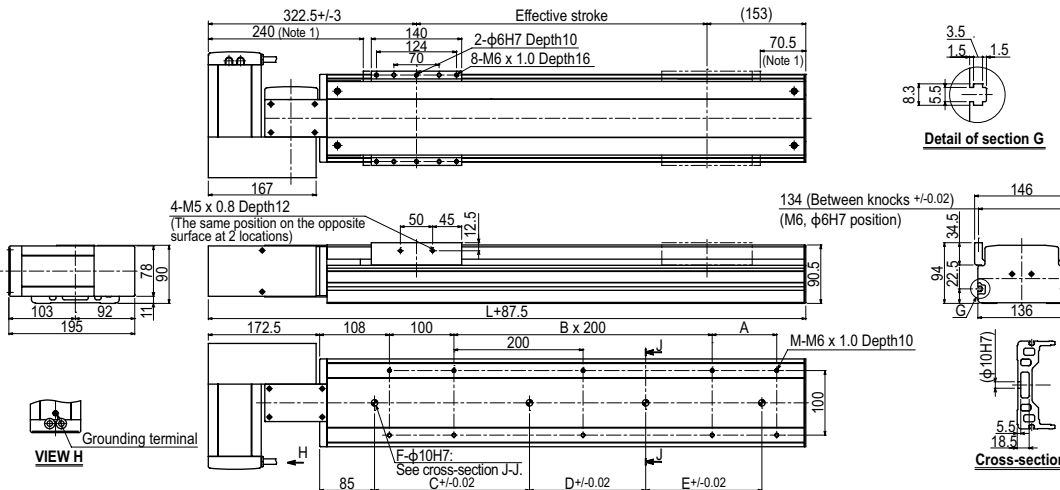
Note. A regenerative unit is needed if using the SR1-X, TS-X at maximum speeds exceeding 1250mm/sec.

## Motor installation

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



### B14H R type (Motor rightward, horizontal position)



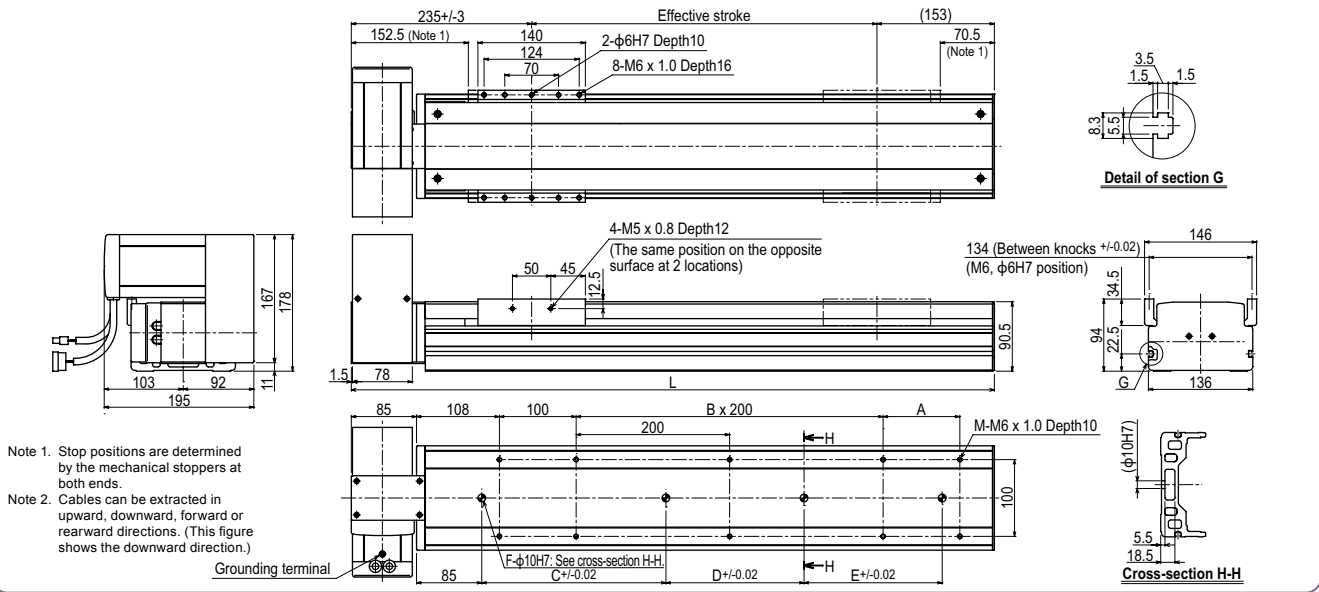
Note 1. Stop positions are determined by the mechanical stoppers at both ends.  
 Note 2. Cables can be extracted in upward, downward, forward or rearward directions. (This figure shows the forward direction.)

Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
L	538	588	638	688	738	788	838	888	938	988	1038	1088	1138	1188	1238	1288	1338	1388	1438	1488	1538	1588	1638	1688	1738	1788	1838	1888	1938	1988
M	6	8	8	8	8	10	10	10	12	12	12	14	14	14	16	16	16	16	16	16	16	18	18	18	20	20	20	20	20	22
A	-	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50
B	-	1	1	1	1	2	2	2	2	3	3	3	4	4	4	5	5	5	5	5	5	6	6	6	7	7	7	7	8	
C	240	240	420	420	420	600	600	600	600	780	780	780	780	960	960	960	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Weight (kg)	10.9	11.5	12.1	12.7	13.2	13.9	14.4	15.0	15.6	16.2	16.7	17.4	17.9	18.5	19.1	19.7	20.2	20.9	22.0	22.1	22.6	23.3	23.8	24.4	24.9	25.6	26.1	26.8	27.3	27.9

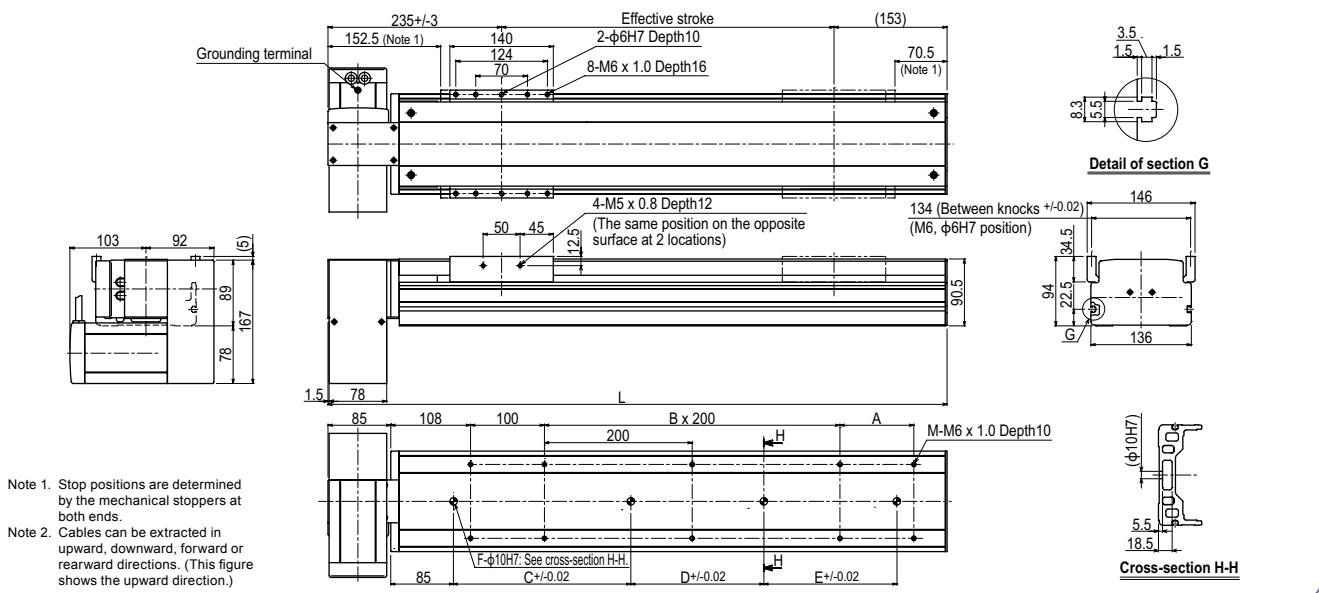
  

Effective stroke	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	3000	3050	
L	2038	2088	2138	2188	2238	2288	2338	2388	2438	2488	2538	2588	2638	2688	2738	2788	2838	2888	2938	2988	3038	3088	3138	3188	3238	3288	3338	3388	3438	
M	22	22	22	24	24	24	24	26	26	26	26	28	28	28	30	30	30	30	32	32	32	32	34	34	34	34	34	36	36	
A	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
B	8	8	8	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	13	13	13	13	14	14	14	14	14	15	15	
C	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
D	600	600	780	780	780	960	960	960	960	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140	1140
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
F	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Weight (kg)	28.4	29.1	29.6	30.3	30.8	31.4	31.9	32.6	33.1	33.8	34.3	35.0	35.5	36.1	36.6	37.3	37.8	38.5	39.0	39.6	40.1	40.8	41.3	42.0	42.5	43.1	43.6	44.3	45.4	

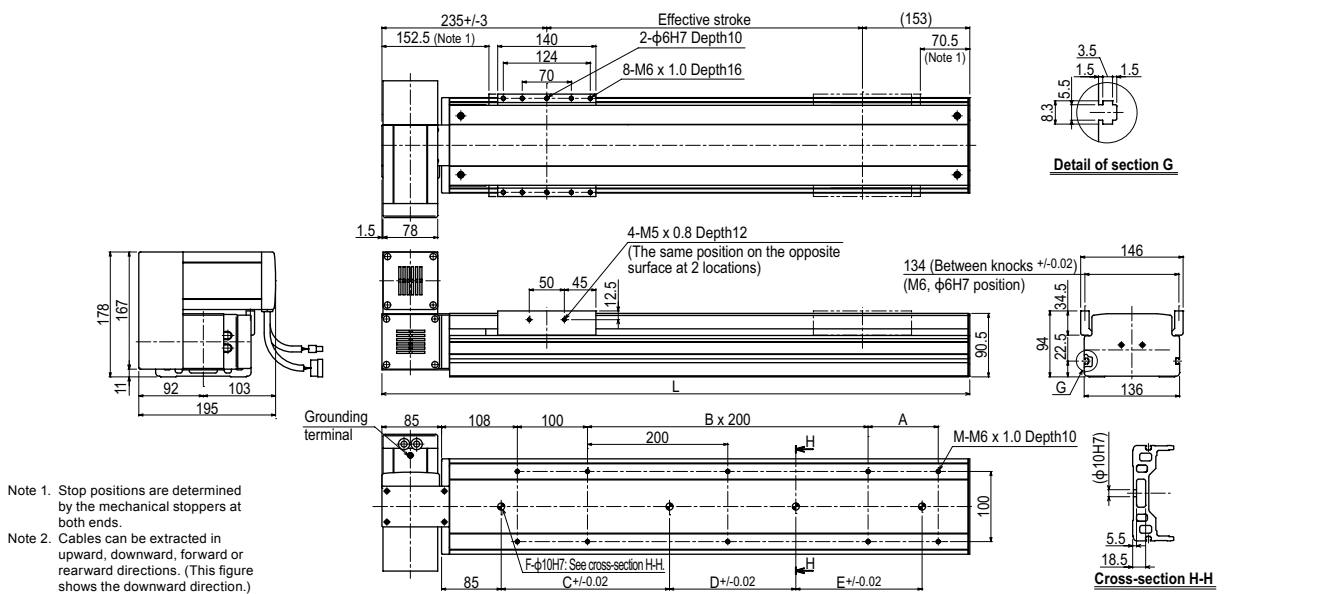
## B14H RU type (Motor rightward, upper position)



## B14H RD type (Motor rightward, lower position)



## B14H LU type (Motor leftward, upper position)



YA	Articulated robots
LCM	Linear conveyor modules
CX	Single-axis robots
Robotomy	Multi-axis single-axis actuators
TRANSEVO	Compact single-axis robots
FLIP-X	Single-axis robots
PHASER	Linear motor single-axis robots
XY-X	Cartesian robots
YK-X	SCARA robots
YP-X	Pick & place robots
CLEAN	CLEAN
CONTROLLER	CONTROLLER
INFORMATION	INFORMATION
T type	T type
F type	F type
GF type	GF type
N type	N type
B type	B type