

# N15D

● Double carriage

## Ordering method

<b>N15D - 20</b>						<b>RCX222HP</b>		<b>R</b>			
<b>Model</b>	<b>Lead designation</b>	<b>Installation direction</b>	<b>Cable carrier specification</b>	<b>Option</b>	<b>Stroke</b>	<b>Cable length</b>	<b>Controller</b> <sup>Note 1</sup>	<b>Usable for CE</b>	<b>Regenerative unit</b>	<b>I/O selection 1</b>	<b>I/O selection 2</b>
		H: Horizontal installation W: Wall installation	S: Standard Cable carrier M: Optional Cable carrier	Grease type None: Standard GC: Clean	250 to 1750 (100mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	RCX222HP DRCX-2020 SR1-X (2 units) <sup>Note 2</sup> TS-X (2 units) <sup>Note 2</sup> RDX (2 units) <sup>Note 2</sup>	No entry: Standard E: CE marking	R: RG2 (RCX222HP)	N: NPN <sup>Note 3</sup> P: PNP CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet <sup>Note 3</sup> YC: YC-Link <sup>Note 3</sup>	No entry: None N1: OPDIO24/16 (NPN) <sup>Note 3</sup> P1: OPDIO24/17 (PNP) EN: Ethernet <sup>Note 3</sup>

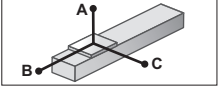
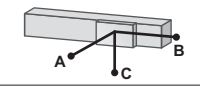
Note 1. To find controller selection options for other than the RCX222HP, see the ordering method on each controller page (DRCX: P.387, SR1-X: P.377, TS-X: P.355, RDX: P.365).  
 Note 2. 2 units are required when using SR1-X, TS-X or RDX.  
 Note 3. NPN and Ethernet cannot be selected when using CE marking. Note 4. Available only for the master.  
 Note 5. Only when you have selected CC, DN or PB for Input/Output selection 1, you can select EN for Input/Output selection 2.

## Specifications

<b>AC servo motor output (W)</b>	400
<b>Repeatability</b> <sup>Note 1</sup> (mm)	+/-0.01
<b>Deceleration mechanism</b>	Ball screw $\phi 15$ (Class C7)
<b>Ball screw lead (mm)</b>	20
<b>Maximum speed</b> <sup>Note 2</sup> (mm/sec)	1200
<b>Maximum payload (kg)</b>	50
<b>Rated thrust (N)</b>	339
<b>Stroke (mm)</b>	250 to 1750 (100mm pitch)
<b>Overall length (mm)</b>	Stroke+330
<b>Maximum dimensions of cross section of main unit (mm)</b>	W145 x H120
<b>Cable length (m)</b>	Standard: 3.5 / Option: 5.10
<b>Linear guide type</b>	4 rows of circular arc grooves x 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. The maximum speed may not be reached when the moving distance is short.  
 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.

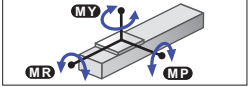
## Allowable overhang

Horizontal installation (Unit: mm)				Wall installation (Unit: mm)			
Lead	20	A	B	20	A	B	C
10kg	3048	2322	1259	10kg	1258	1823	2449
30kg	1489	841	500	30kg	428	545	1039
50kg	1278	544	344	50kg	248	289	749

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
691	692	608

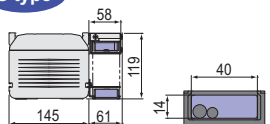
## Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication
DRCX-2020-R	Operation using RS-232C communication
SR1-X-20-R <sup>Note 5</sup>	I/O point trace
TS-X220-R <sup>Note 5</sup>	Pulse train control
RDX-20-RB1 <sup>Note 5</sup>	

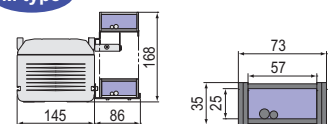
Note. 2 units are required when using SR-1, TS-X or RDX.

## Cable carrier for users

**S type** Standard cable carrier

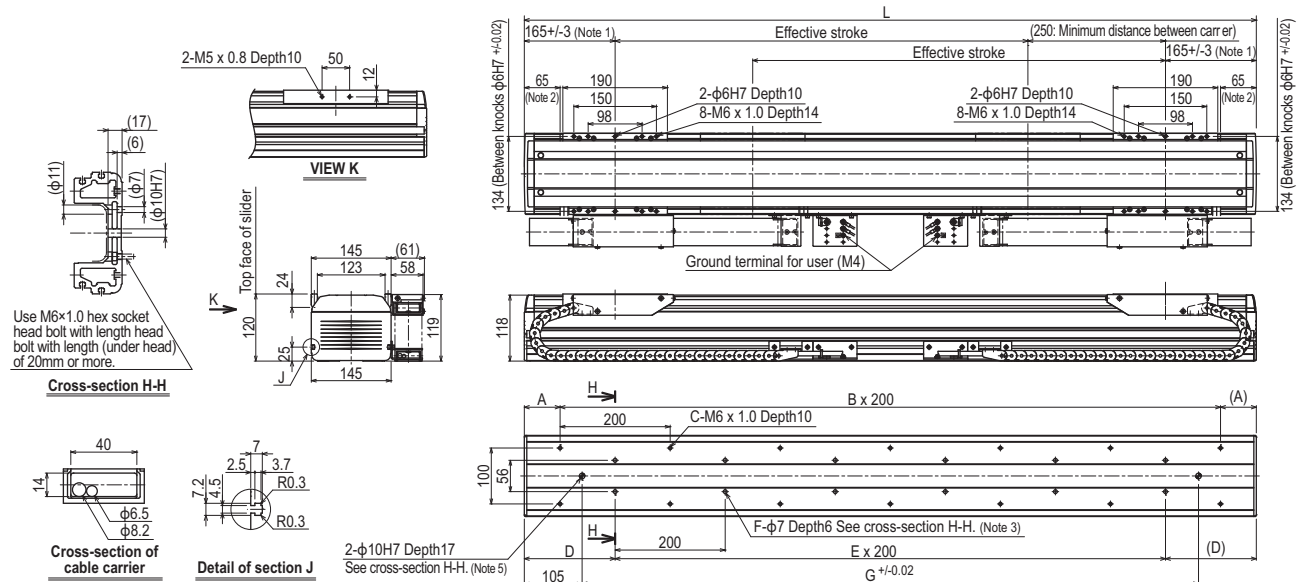


**M type** Optional cable carrier



Note. Cannot pass more than 3 urethane hoses ( $\phi 6 \times 4$ ).  
 Space for optional cable for users

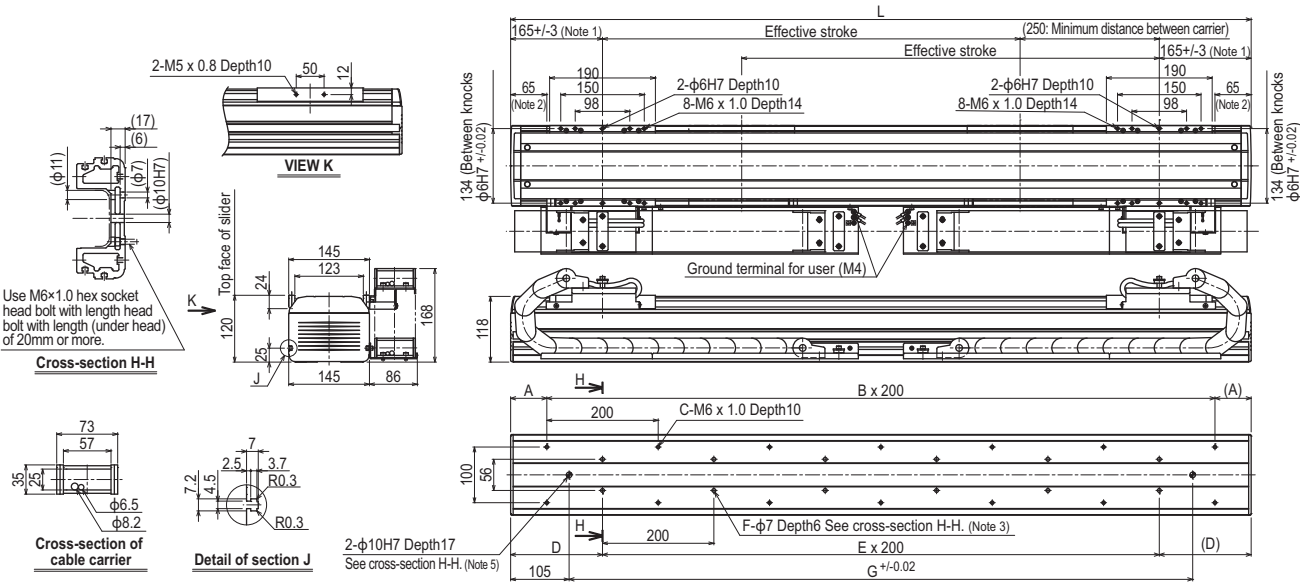
## N15D: Horizontal installation / Standard Cable carrier specification



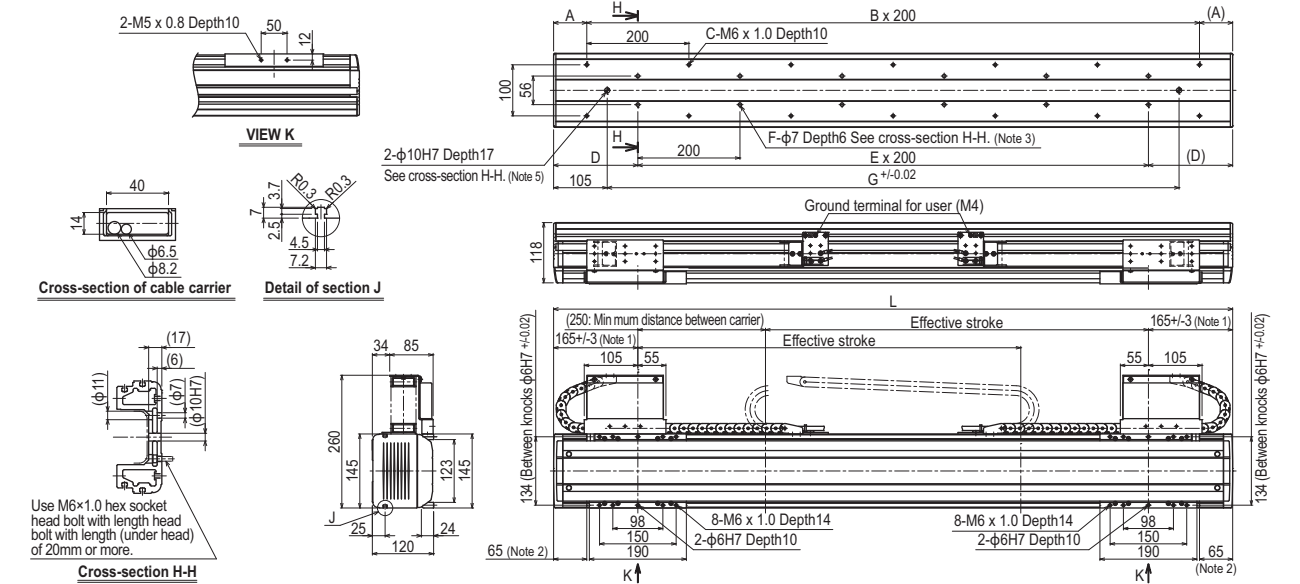
Note 1. Position of table carriage when searched to the origin.  
 Note 2. Distance from both ends to the mechanical stopper.  
 Note 3. When using  $\phi 7$  holes for installation, do not use a washer, spring washer, etc. in the main unit.  
 Note 4. If the model is a standard cable carrier specification, it is not possible to pass 3 or more  $\phi 6 \times 4$  urethane air hoses.  
 Note 5. When using a  $\phi 10H7$  hole, make sure that the pin does not go deeper than as shown in the drawing.  
 Note 6. Contact us for vertical installation.  
 Note 7. Weight of models with no brake. The weight of brake-attached models is 1 kg heavier than the models with no brake shown in the table.

Effective stroke	250	350	450	550	650	750	850	950	1050	1150	1250	1350	1450	1550	1650	1750
<b>L</b>	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330
<b>A</b>	15	65	15	65	15	65	15	65	15	65	15	65	15	65	15	65
<b>B</b>	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
<b>C</b>	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
<b>D</b>	115	165	115	165	115	165	115	165	115	165	115	165	115	165	115	165
<b>E</b>	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
<b>F</b>	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
<b>G</b>	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120
<b>Weight (kg)</b> <sup>Note 7</sup>	24	26	27	29	30	32	33	35	36	38	39	40	42	43	45	46

N15D: Horizontal installation / Optional Cable carrier specification



N15D: Wall installation / Standard Cable carrier specification



N15D: Wall installation / Optional Cable carrier specification

