N15D

Double carriage

Ordering method

N15D - 20 - [ ] - [ ] - [ ] - [ ] - [ ] - RCX222HP - [ ] - R - [ ] - [ ]

Model	Lead designation	Installation direction	Cable carrier specification	Option	Stroke	Cable length	Controller Note 1	Usable for CE	Regenerative unit	I/O selection 1	I/O selection 2
N15D	20	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 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable) Note 5	RCX222HP SR1-X (2 units) Note 2 TS-X (2 units) Note 2 RDV-X (2 units) Note 2	No entry : Standard E: CE marking	R: RG2	N: NPN Note 3 P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS EN: Ethernet Note 3	No entry: None N1: OP.DIO24/16 (NPN) Note 3 P1: OP.DIO24/17 (PNP) EN: Ethernet Note 3 Note 4

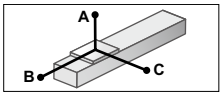
Note 1. To find controller selection options for other than the RCX222HP, see the ordering method on each controller page (SR1-X: P.464, TS-X: P.439, RDV-X: P.455).
Note 2. 2 units are required when using SR1-X, TS-X or RDV-X.
Note 3. NPN and Ethernet cannot be selected when using CE marking.
Note 4. Only when you have selected CC, DN or PB for Input/Output selection 1, you can select EN for Input/Output selection 2.
Note 5. If a flexible cable is needed for the SR1-X, TS-X, or RDV-X, then select 3K/5K/10K. On the RCX222HP, the standard cable is a flexible cable, so enter 3L/5L/10L when ordering.

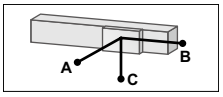
Specifications

AC servo motor output (W)	400
Repeatability Note 1 (mm)	+/-0.01
Deceleration mechanism	Ball screw ϕ15 (Class C7)
Ball screw lead (mm)	20
Maximum speed Note 2 (mm/sec)	1200
Maximum payload (kg)	50
Rated thrust (N)	339
Stroke (mm)	250 to 1750 (100mm pitch)
Overall length (mm)	Stroke+330
Maximum dimensions of cross section of main unit (mm)	W145 × H120
Cable length (m)	Standard: 3.5 / Option: 5,10
Linear guide type	4 rows of circular arc grooves × 2 rail
Position detector	Resolvers Note 3
Resolution (Pulse/rotation)	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 Note





Horizontal installation (Unit: mm)

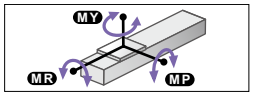
		A	B	C
Lead 20	10kg	3048	2322	1259
	30kg	1489	841	500
	50kg	1278	544	344

Wall installation (Unit: mm)

		A	B	C
Lead 20	10kg	1258	1823	2449
	30kg	428	545	1039
	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

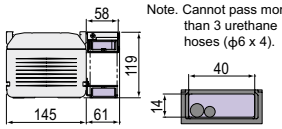
Controller

Controller	Operation method
RCX222HP-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication
SR1-X20-R Note	
TS-X220-R Note	I/O point trace / Remote command
RDV-X20-RBR1 Note	Pulse train control

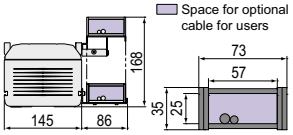
Note. 2 units are required when using SR-1, TS-X or RDV-X.

Cable carrier for users

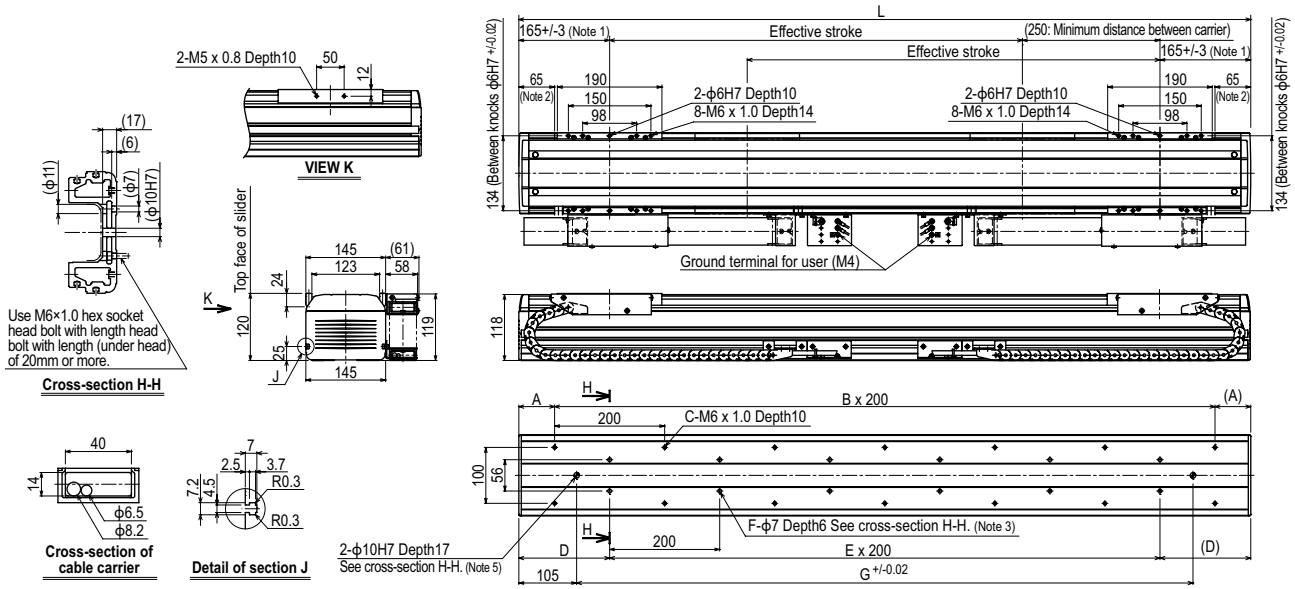
S type Standard cable carrier



M type Optional cable carrier



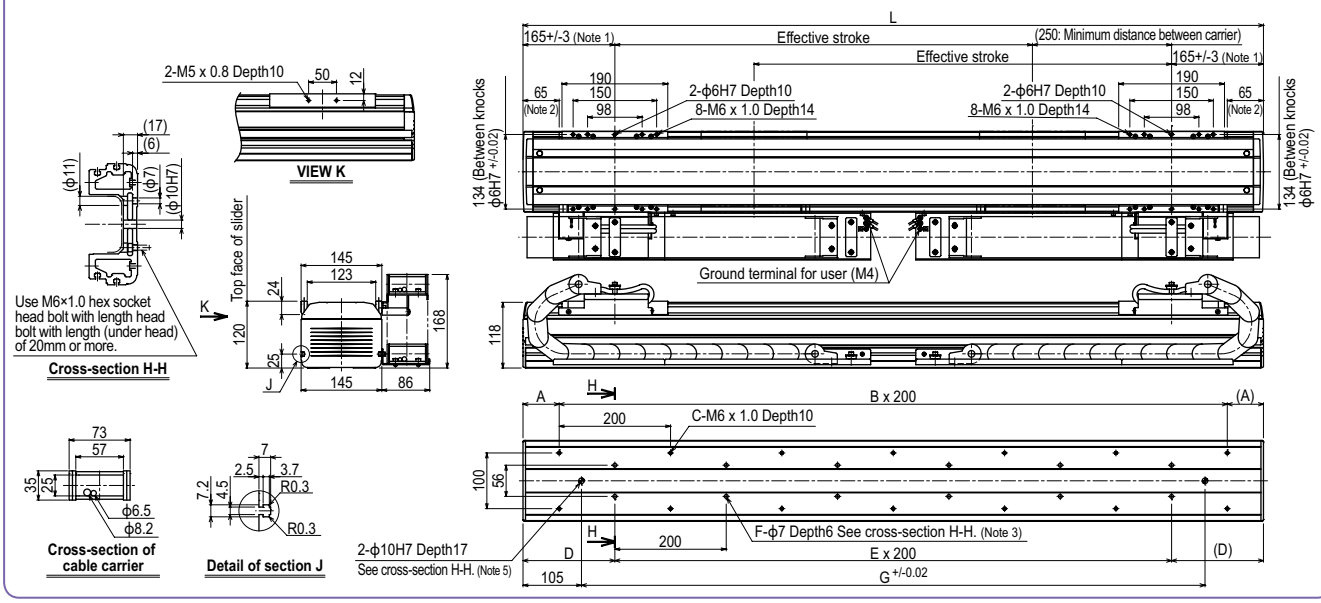
N15D: Horizontal installation / Standard Cable carrier specification



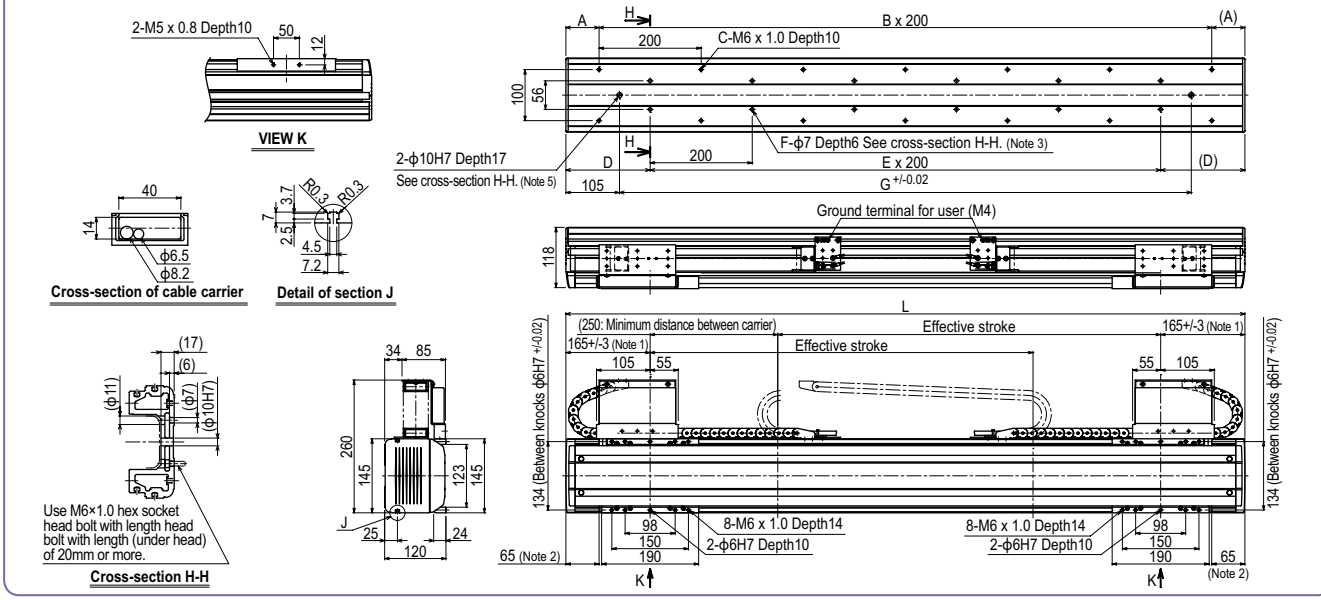
Note 1. Position of table carriage when searched to the origin.
Note 2. Distance from both ends to the mechanical stopper.
Note 3. When using ϕ7 holes for installation, do not use a washer, spring washer, etc. in the main unit.
Note 4. If the model is a standard cable carrier specification, it is not possible to pass 3 or more ϕ6 × 4 urethane air hoses.
Note 5. When using a ϕ10H7 hole, make sure that the pin does not go into 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
L	830	930	1030	1130	1230	1330	1430	1530	1630	1730	1830	1930	2030	2130	2230	2330
A	15	65	15	65	15	65	15	65	15	65	15	65	15	65	15	65
B	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11
C	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24
D	115	165	115	165	115	165	115	165	115	165	115	165	115	165	115	165
E	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
F	8	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22
G	620	720	820	920	1020	1120	1220	1320	1420	1520	1620	1720	1820	1920	2020	2120
Weight (kg) Note 7	24	26	27	29	30	32	33	35	36	38	39	40	42	43	45	46

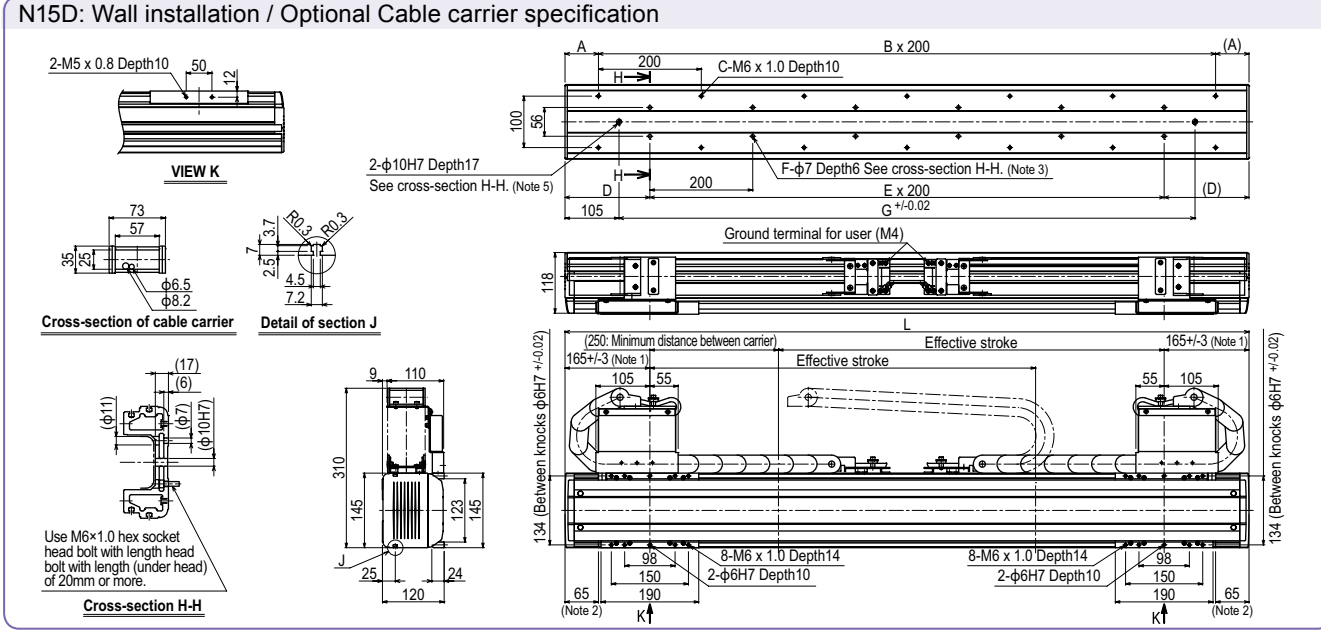
N15D: Horizontal installation / Optional Cable carrier specification



N15D: Wall installation / Standard Cable carrier specification



N15D: Wall installation / Optional Cable carrier specification



Controller RCX222 ▶ 474 | SR1-X ▶ 464 | TS-X ▶ 438 | RDV-X ▶ 455