

N15



Ordering method

N15-20- - - - - SR1-X-20- - - - - R- - - - -

Model	Lead designation	Cable carrier entry location ^{Note 1}	Cable carrier specification	Option	Stroke	Cable length ^{Note 2}	Controller	Driver	Usable for CE	Regenerative unit	I/O selection	Battery
		RH: Horizontal, right LH: Horizontal, left RW: Wall, right LW: Wall, left	S: Standard C: Cable carrier M: Optional Cable carrier	Origin position Horizontal: None: R side (Standard) Z: L side Wall: None: L side (Standard) Z: R side Grease type: None: Standard GC: Clean	500 to 2000 (100mm pitch)	3L: 3.5m (Standard) 5L: 5m 10L: 10m	SR1-X TS-X ^{Note 3}	20: 400 to 600W 220 (TS-X)	No entry: Standard E: CE marking	R: RG1 (SR1-X) R: RGT (TS-X)	N: NPN P: PNP CC: CC-Link DN: DeviceNet PB: Profibus YC: YC-Link ^{Note 4}	No entry: None (Incremental specification) B: Battery (Absolute specification)

Note 1. To find information on cable carrier extraction directions see P. 7.
 Note 2. The robot cable is standard cable, but can be changed to bend-resistant cable. (consult factory)
 Note 3. To find TS-X selection options, see the ordering method listed on each controller's page.
 Note 4. Available only for the SR1-X slave.

Basic 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)	500 to 2000 (100mm pitch)
Overall length (mm)	Stroke+330
Maximum dimensions of cross section of main unit (mm)	W145 x H120
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 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)	Horizontal installation (Unit: mm)			Wall installation (Unit: mm)			
	A	B	C	Lead 20	A	B	C
Lead 20	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 1. 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
SR1-X-20-R	Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication
TS-X220-R	I/O point trace (BCD)

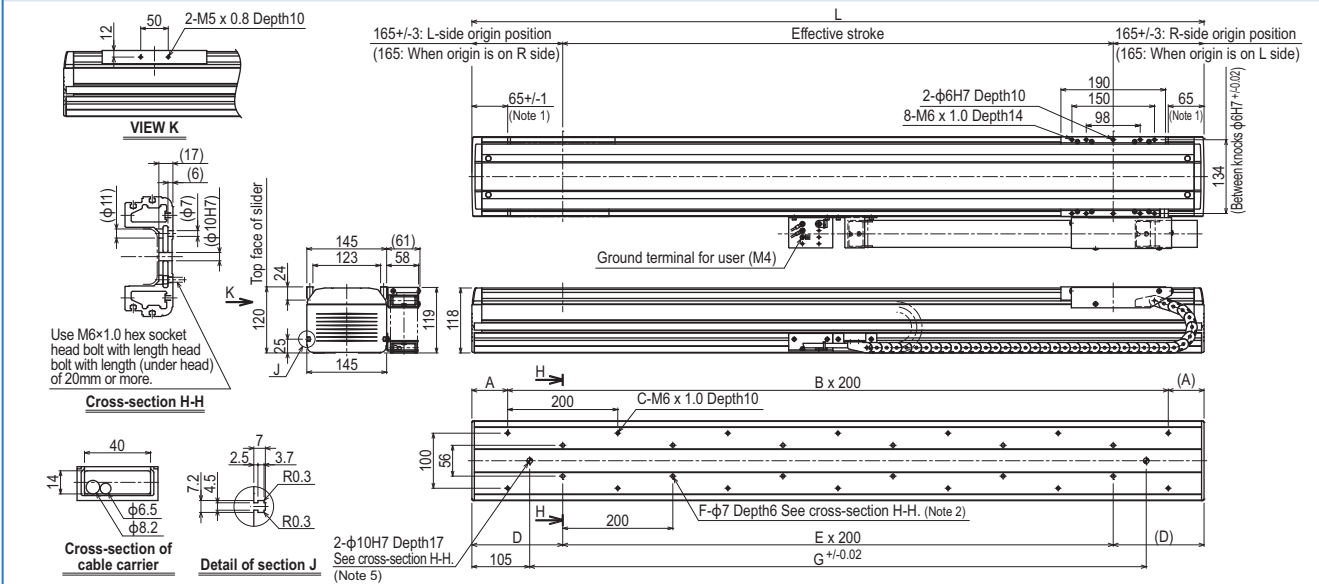
Cable carrier for users

S type Standard cable carrier

M type Optional cable carrier

Note. Cannot pass more than 3 urethane hoses (φ6 x 4). Space for optional cable for users

N15: Horizontal installation / Standard Cable carrier specification RH



Note 1. Distance from both ends to the mechanical stopper.
 Note 2. When using φ7 holes for installation, do not use a washer, spring washer, etc. in the main unit.
 Note 3. When shipped from the factory, the horizontal model has the origin on the right side and the wall model has the origin on the left side. (This diagram shows the machine whose cable carrier taken out from right.)
 Note 4. If the model is a standard cable carrier specification, it is not possible to pass 3 or more φ6 x 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	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
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}	19	20	22	23	24	26	27	29	30	32	33	35	36	38	39	40

