

- Origin on the non-motor side is selectable



### Ordering method

C20						TSX		220							
Model	Lead <sup>Note 1</sup>	Brake	Option		Stroke	Cable length <sup>Note 2</sup>	Positioner <sup>Note 3</sup>	Driver: Power supply voltage <sup>Note 4</sup> Power capacity <sup>Note 4</sup>	Regenerative unit	LCD monitor	I/O selection	Battery			
	20: 20mm 10: 10mm	No entry: With no brake BK: With brake	Origin position change	None: Standard Z: Non-motor side	200 to 1250 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)	TS-X	220: 200V/400 to 600W	No entry: None R: With RGT	No entry: None L: With LCD	NP: NPN PN: PNP CC: CC-Link DN: DeviceNet™ EP: EtherNet/IP™ PT: PROFINET GW: No I/O board <sup>Note 5</sup>	B: With battery (Absolute) N: None (Incremental)			
						SR1-X		20							
						Controller	Driver: Power capacity <sup>Note 4</sup>	Usable for CE	Regenerative unit	I/O selection	Battery				
							20: 400 to 600W	E: CE marking	R: With RG1	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ FB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)				
						RDV-X		2		20					
						Driver	Power supply voltage <sup>Note 4</sup>	Driver: Power capacity <sup>Note 4</sup>	Regenerative unit						
							2: AC200V	20: 400W or less	RBRT (Horizontal)						

Note 1. Only the model with specifications with brake (vertical specifications) can select a lead of 10mm.

Note 2. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.

Note 3. See P.600 for DIN rail mounting bracket.

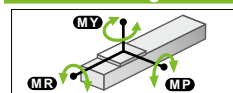
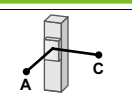
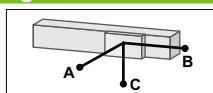
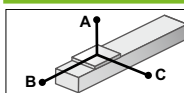
Note 4. Acceleration / deceleration is different depending the Positioner or Controller or Driver.

Note 5. Select this selection when using the gateway function.

## Basic specifications

AC servo motor output (W)	600	
Repeatability <sup>Note 1</sup> (mm)	+/-0.01	
Deceleration mechanism	Ball screw φ20	
Ball screw lead (mm)	20	10
Maximum speed <sup>Note 2</sup> (mm/sec)	1000	500
Maximum payload (kg)	Horizontal	—
	Vertical	25
Rated thrust (N)	510	1020
Stroke (mm)	200 to 1250 (50mm pitch)	
Overall length (mm)	Horizontal	Stroke+441
	Vertical	Stroke+471
Maximum outside dimension of body cross-section (mm)	W202 × H117	
Cable length (m)	Standard: 3.5 / Option: 5, 10	
Degree of cleanliness	CLASS 10 <sup>Note 3</sup>	
Intake air (Nl/min)	30 to 90 <sup>Note 4</sup>	

**Allowable overhang** Note



		A	B	C
Lead 20	50kg	2602	869	1149
	80kg	2193	528	720
	120kg	1841	339	500

		A	B	C
Lead 20	50kg	1144	798	260
	80kg	717	456	219
	120kg	466	267	184

Vertical installation (Unit: m)		A	C
Lead 20	15kg	2711	2711
	20kg	2045	2045
	25kg	1647	1647
Lead 10	20kg	2182	2182
	30kg	1437	1437
	45kg	939	939

(Unit: N)		
MY	MP	MR
1101	1103	968

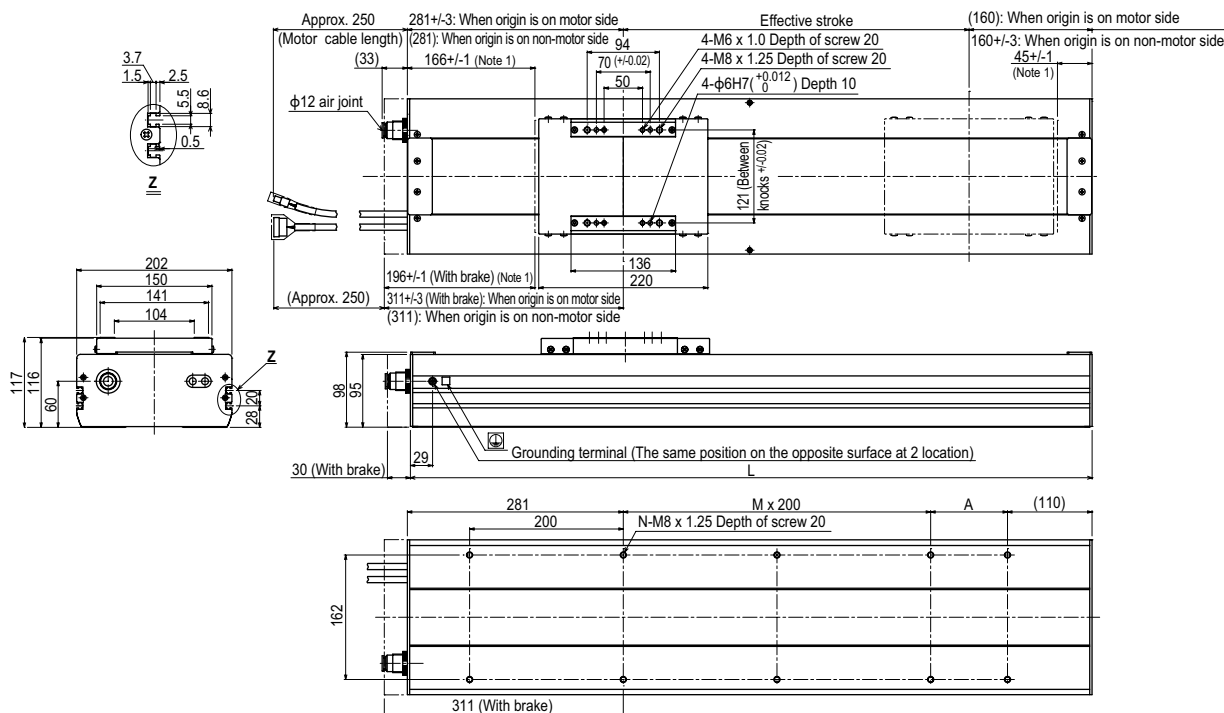
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.

## Controller

Controller	Operation method
SR1-X20 <sup>Note</sup>	Programming / I/O point trace / Remote command
RCX320, RCX340	Operation using RS-232C communication
TS-X220 <sup>Note</sup>	I/O point trace / Remote command
RDV-X220-RBR1 (Horizontal)	Pulse train control
RDV-X220-RBR2 (Vertical)	

Note. [The following arrangements require a regeneration unit.]

## C20



Effective stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	
L	641	691	741	791	841	891	941	991	1041	1091	1141	1191	1241	1291	1341	1391	1441	1491	1541	1591	1641	1691	
A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	
M	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	
N	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	
Weight (kg) <sup>Note 3</sup>	25.0	26.0	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0	46.0	
Maximum speed (mm/sec) <sup>Note 4</sup>	Lead 20							1000							800							600	
	Lead 10							500							400							300	
	Speed setting							—							80%							50%	

Note 4. When the stroke is longer than 950mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.

Controller

**SR1-X ▶ 618** | **TS-X ▶ 592** | **RPV-X ▶ 606**

Linear conveyor  
modules  
**LCMR200**

Single-axis robots  
**GX**

## Single-axis robot Robonity

Linear motor  
single-axis robot  
**PHASER**

Compact  
single-axis robot  
**TRANSERV**

CLEAN

CONTRC

ILLER  
INFO

ATION

## Single-axis