C8L

Origin on the non-motor side is selectable

Ordering method

C8L - [Model] - [Lead] - [Brake] - [Option] - [Stroke] - [Cable length Note 1]

Model	Lead	Brake	Option	Stroke	Cable length Note 1
	20: 20mm 10: 10mm 5: 5mm	No entry: With no brake BK: With brake	Origin position change: None: Standard, Z: Non-motor side	150 to 1050 (50mm pitch)	3L: 3.5m 5L: 5m 10L: 10m 3K/5K/10K (Flexible cable)

TSX - [Positioner Note 2] - [Driver: Power-supply voltage / Power capacity] - [LCD monitor] - [I/O selection] - [Battery]

Positioner Note 2	Driver: Power-supply voltage / Power capacity	LCD monitor	I/O selection	Battery
TS-X	105: 100V/100W or less 205: 200V/100W or less	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 Note 3	B: With battery (Absolute) N: None (Incremental)

SR1-X - **05** - [Usable for CE] - [I/O selection] - [Battery]

Controller	Driver: Power capacity	Usable for CE	I/O selection	Battery
	05: 100W or less	No entry: Standard E: CE marking	N: NPN P: PNP CC: CC-Link DN: DeviceNet™ PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)

RDV-X - **2** - **05** - **RBR1**

Driver	Power-supply voltage	Driver: Power capacity	Regenerative unit
	2: AC200V	05: 100W or less	

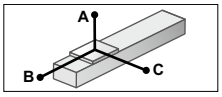
Note 1. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable. See P.692 for details on robot cable.
Note 2. See P.600 for DIN rail mounting bracket.
Note 3. Select this selection when using the gateway function.

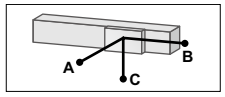
Basic specifications

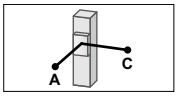
AC servo motor output (W)		100		
Repeatability Note 1 (mm)		+/-0.01		
Deceleration mechanism		Ball screw ϕ15		
Ball screw lead (mm)		20	10	5
Maximum speed Note 2 (mm/sec)		1000	600	300
Maximum payload (kg)	Horizontal	20	40	50
	Vertical	4	8	16
Rated thrust (N)		84	169	339
Stroke (mm)		150 to 1050 (50mm pitch)		
Overall length (mm)	Horizontal	Stroke+325		
	Vertical	Stroke+360		
Maximum outside dimension of body cross-section (mm)		W80 × H75		
Cable length (m)		Standard: 3.5 / Option: 5, 10		
Degree of cleanliness		CLASS 10 Note 3		
Intake air (Nℓ/min)		30 to 90 Note 4		

Note 1. Positioning repeatability in one direction.
Note 2. When the stroke is longer than 700mm, 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 below.
Note 3. Per 1cf (0.1μm base), when suction blower is used.
Note 4. The necessary intake amount varies depending on the use conditions and environment.

Allowable overhang Note







Horizontal installation (Unit: mm)

		A	B	C
Lead 20	5kg	259	122	179
	10kg	149	55	89
	15kg	100	33	56
	20kg	95	22	41
Lead 10	10kg	251	61	130
	20kg	127	25	55
	30kg	90	14	31
	40kg	69	8	18
Lead 5	20kg	256	29	76
	30kg	188	16	43
	40kg	96	10	28
	50kg	33	6	18

Wall installation (Unit: mm)

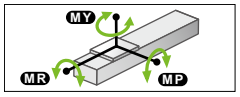
		A	B	C
Lead 20	5kg	147	100	220
	10kg	53	32	97
	15kg	17	10	39
	20kg	0	0	0
Lead 10	10kg	87	41	197
	20kg	10	4	37
	30kg	0	0	0
	40kg	0	0	0
Lead 5	20kg	24	9	152
	30kg	0	0	0
	40kg	0	0	0
	50kg	0	0	0

Vertical installation (Unit: mm)

		A	C
Lead 20	2kg	255	260
	4kg	111	115
Lead 10	2kg	300	302
	4kg	131	133
	6kg	75	77
	8kg	47	49
Lead 5	5kg	113	114
	10kg	37	38
	15kg	12	12
	16kg	9	9

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



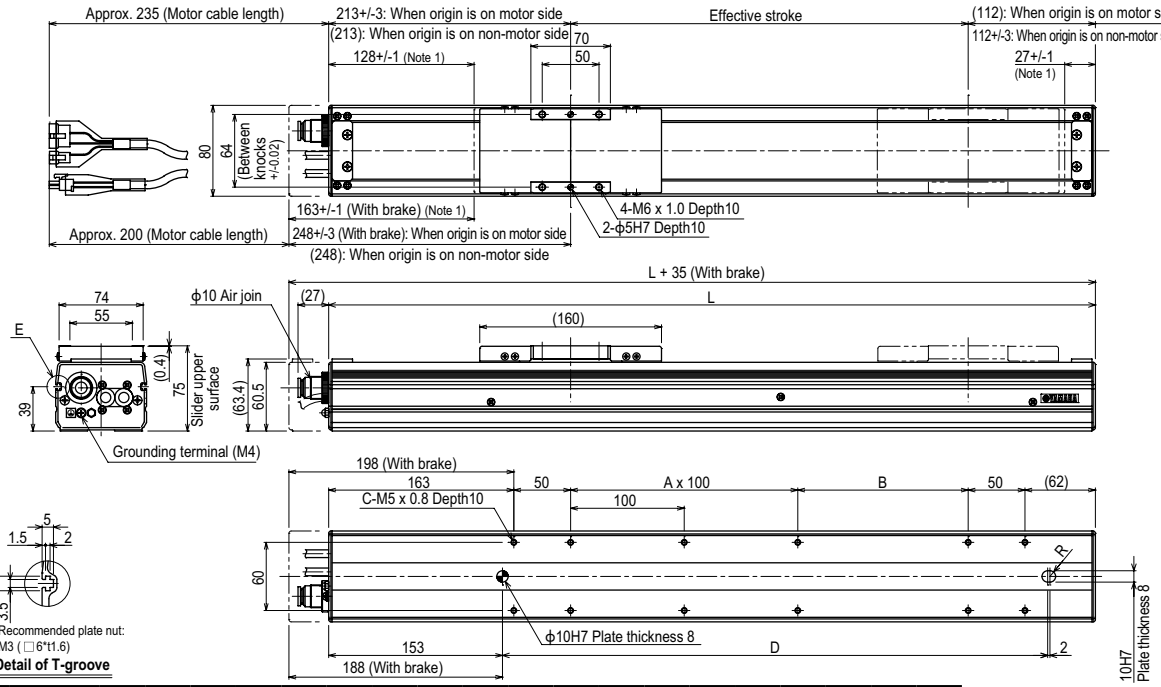
(Unit: N·m)

MY	MP	MR
70	95	110

Controller

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

C8L



Effective stroke	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050
L	475	525	575	625	675	725	775	825	875	925	975	1025	1075	1125	1175	1225	1275	1325	1375
A	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9
B	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150	100	150
C	8	10	10	12	12	14	14	16	16	18	18	20	20	22	22	24	24	26	26
D	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180
Weight (kg) Note 3	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.4	6.7	7.0	7.3	7.6	7.9	8.2	8.5	8.8	9.2	9.5
Maximum speed Note 4 (mm/sec) Lead 20	1000												900	800	700	650	600	550	500
Speed setting	–												90%	80%	70%	65%	60%	55%	50%
Lead 10	600											510	450	390	360	330	300	270	240
Lead 5	300											255	225	195	180	165	150	135	120
Speed setting	–											85%	75%	65%	60%	55%	50%	45%	40%

Note 1. Stop positions are determined by the mechanical stoppers at both ends.
Note 2. Minimum bend radius of motor cable is R50.
Note 3. Weight of models with no brake. The weight of brake-attached models is 0.3 kg heavier than the models with no brake shown in the table.
Note 4. When the stroke is longer than 700mm, 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 | RDV-X ▸ 606