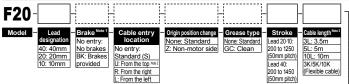
High lead: Lead 40

Origin on the non-motor side is selectable

Note. Upper robot cable (U) on models with brakes is a special order item, so please consult our sales office or sales representative for assistance (External dimensions: overall length + 20 mm)

Ordering method



- Note 1. The model with a lead of 40mm cannot select specifications with brake (vertical specifications).
- Note 2. Upper robot cable (U) on models equipped with brake is a special-order item Note 3. The robot cable is standard cable (3L/5L/10L), but can be changed to flexible cable See P.594 for details on robot cable.
- Note 4. See P.498 for DIN rail mounting bracket.

 Note 5. Acceleration / deceleration is different depending the Positioner or Controller or Driver.
- Note 6. The robot with the high lead specifications (lead 40) needs a regenerative unit. Note 7. Select this selection when using the gateway function. For details, see P.60.

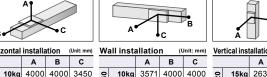
TSX	220	-	-		-
Positioner Note 4 TS-X	Driver: Power-supply voltage / Power capacity Notes 220: 200V/400 to 600W	Regenerative - unit Note 6 No entry: None R: With RGT	- LCD monitor - No entry: None L: With LCD	I/O selection NP: NPN PN: PNP CC: CC-Link DN: DeviceNet TM EP: EtherNet/IPTM PT: PROFINET GW: No I/O board Note?	B: With battery (Absolute) N: None (Incremental)
- SR1-X	20	-	-		-
Controller	Driver: Power capacity Note 5 20: 400 to 600W	Usable for CE - No entry: Standard E: CE marking	Regenerative – unit Note 6 No entry: None R: With RG1	I/O selection N: NPN P: PNP CC: CC-Link DN: DeviceNet TM PB: PROFIBUS	B: With battery (Absolute) N: None (Incremental)
RDV-X	2	2	0 -		
Driver	Power-supply voltage 2: AC200V	Driver: Power 20: 600W or le		Regenerative unit Note 6 RBR1 (Horizontal) RBR2 (Vertical)	
ing ^{Note}				Static loading n	noment

■ Specifications													
AC servo motor	output (W)	600											
Repeatability Not	e 1 (mm)	+/-0.01											
Deceleration me	echanism	Ball screw (Class C7)											
Ball screw lead		40	20	10									
Maximum speed N		2400	1000 (1200 Note 3)	600									
Maximum	Horizontal	60	120	-									
payload (kg)	Vertical	_	25	45									
Rated thrust (N)	ĺ	255	510	1020									
Stroke (mm)		200 to 1450 Note 4 (50mm pitch)											
Overall length	Horizontal	Stroke+427	Stroke+4	17									
(mm)	Vertical	_	Stroke+4	+447									
Maximum dimens section of main ur		١	W202 × H115										
Cable length (m)	Standa	rd: 3.5 / Optior	n: 5,10									
Linear guide typ			ircular arc groove	s × 2 rail									
Position detector	or	F	Resolvers Note 5										
Resolution (Puls	se/rotation)		16384										

F20

- IUItion (Pulse/rotation)]
 Positioning repeatability in one direction.
 When the stroke is longer than 800mm, 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. To operate the unit at a speed exceeding 1,000mm/sec. (Max. speed), a regeneration unit RG1 is required.
 Longer than 1250mm stroke can be handled by the high lead specification (Lead 40) only.
 Position detectors (resolvers) are common to incremental and absolute specifications. If the controller has a backup function then it will be absolute specifications. Note 3

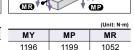
- Note 5.



Allowable overha

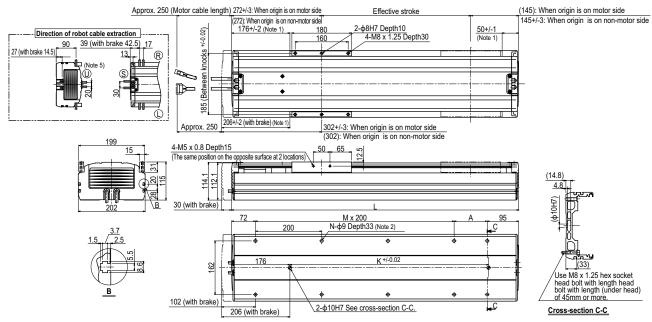
но	rizontai	instalia	ition	(Unit: mm)	VV	aii insta	allatio	vertical installation (Unit: mm)						
		Α	В	С			Α	В	С			Α	С	
40	10kg	4000	4000	3450	40	10kg	3571	4000	4000	20	15kg	2635	2635	
ead	20kg	3397	2235	2073	ead	20kg	2118	2164	3397	ad	20kg	2000	2000	
ڐ	60kg	2443	718	977	Le	60kg	1000	648	2443	اد	25kg	1621	1621	
20	50kg	2602	869	1083	20	50kg	1097	799	2602	9	20kg	2188	2188	
ead	80kg	2193	528	703	Lead	80kg	708	458	2193	ag	30kg	1446	1446	
Ľ	120kg	1841	339	505	Le	120kg	468	268	1841	٦	45kg	951	951	
					. —									

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



Contr	oller
Controller	Operation method
SR1-X20 Note RCX221/222 RCX240/340	Programming / I/O point trace / Remote command / Operation using RS- 232C communication
TS-X220 Note	I/O point trace/ Remote command
RDV-X220-RBR1 (Horizontal)	Pulse train control
RDV-X220-RBR2 (Vertical)	Pulse train control

Note. When using the vertical model, if the unit is operated at such speed exceeding the maximum speed of 1,000mm/sec., and if it has a high lead (40), a regeneration unit is required



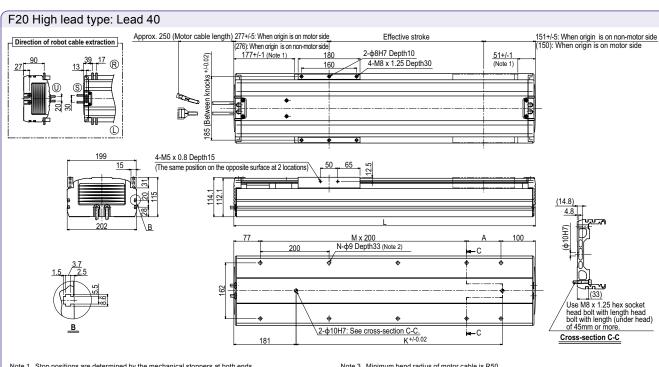
- Note 1. Stop positions are determined by the mechanical stoppers at both ends Note 2. When installing the robot, do not use washers inside the robot body. Note 3. Minimum bend radius of motor cable is R50.
- Note 4. Weight of models with no brake. The weight of brake-attached models is 1.5 kg heavier than the models with
- no brake shown in the table.

 Note 5. Make a separate consultation with us regarding robot cable (brake specifications) U extraction. (External dimensions: overall length + 20 mm)

Effectiv	e stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
ı	L	617	667	717	767	817	867	917	967	1017	1067	1117	1167	1217	1267	1317	1367	1417	1467	1517	1567	1617	1667
	A	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
ı	M	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7
-	N	8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18
-	K	420	20 420 420 420 600 600 600 600 780 780 780 780 96							960	960	960	960	1140	1140	1140	1320	1320	1320				
Weight (kg) Note 4		21.0	22.0	22.9	23.8	24.8	25.7	26.6	27.5	28.5	29.4	30.3	31.2	32.1	33.0	34.0	34.9	35.8	36.7	37.7	38.6	39.5	40.4
Maximum	Lead 20		1000 (1200 Note 7)												96	30	84	40	7:	20	600		480
speed Note 6	peed Note 6 Lead 10 600										480		420		360		30	300					
(mm/sec)	Speed setting														80%		70)%	60%		50%		40%

- Note 6. When the stroke exceeds 800mm, although depending on the moving range, the ball screw may resonate (critical speed). In that case, make adjustment to lower the speed on the program using the maximum speed given in the above table as a guide.

 Note 7. To operate the unit at a speed exceeding 1,000mm/sec. a regeneration unit RG1 is required.



Note 1. Stop positions are determined by the mechanical stoppers at both ends.

Note 3. Minimum bend radius of motor cable is R50

Note 2. When ins	Note 2. When installing the robot, do not use washers inside the robot body.																										
Effective	stroke	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
L		627	677	727	777	827	877	927	977	1027	1077	1127	1177	1227	1277	1327	1377	1427	1477	1527	1577	1627	1677	1727	1777	1827	1877
Α		50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100
М		2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	8	8
N		8	8	8	8	10	10	10	10	12	12	12	12	14	14	14	14	16	16	16	16	18	18	18	18	20	20
K		420	420	420	420	600	600	600	600	780	780	780	780	960	960	960	960	1140	1140	1140	1320	1320	1320	1320	1320	1320	1320
Weight	(kg)	21.2	22.2	23.1	24.0	25.0	25.9	26.8	27.7	28.7	29.6	30.5	31.4	32.3	33.2	34.2	35.1	36.0	36.9	37.9	38.8	39.7	40.6	41.5	42.4	43.3	44.2
Maximum speed Note 4	Lead 40		2400												1920 1680				1440		1200		960		840		720
(mm/sec)	Speed setting														80	%	70	%	60	%	50)%	40	1%	35	5%	30%

Note 4. When the stroke is longer than 800mm, 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 above.

Note 5. Longer than 1250mm stroke can be handled by the high lead specification (Lead 40) only.