F17L

Ordering method

F17L - 50 Option Stroke Cable length Note 2 I/O selection Origin None: Standard position Z: Non-change mone: Standard Grease None: Standard No entry: None (Incremental specification No entry: 1100 to 2050 (50mm pitch) 3L: 3.5m (Standard) No entry: Standard (S) U: From the top R: From the right No brakes BK: Brakes B: Battery
(Absolute specification) provided arking 3K/5K/10K No e 2 type

Note 1. Vertical installation (with brake) are only supported on the SR1-X and TS-X. The RDX supports only horizontal installation.

Note 2. The robot cable is standard cable, but can be changed to bend-resistant cable. (not supported on RDX). See P.423 for details on robot cable. Note 3. To find TS-X, RDX selection options, see the ordering method listed on each controller's page (TS-X: P.355, RDX: P.365).

■ Specifications									
AC servo motor	output (W)	600							
Repeatability Not	^{e 1} (mm)	+/-0.02							
Deceleration me	echanism	Ball screw (Class C10)							
Ball screw lead	(mm)	50							
Maximum speed N	ote 2 (mm/sec)	<u>'</u>							
Maximum	Horizontal	50							
payload (kg)	Vertical	10							
Rated thrust (N)		204							
Stroke (mm)		1100 to 2050 (50mm pitch)							
Overall length	Horizontal	Stroke+475							
(mm)	Vertical	Stroke+505							
Maximum dimens section of main up		W168 × H100							
Cable length (m)	Standard: 3 5 / Option: 5,10							
Linear guide typ	ре	4 rows of circular arc grooves × 2 rail							
Position detect	or	Resolvers Note 3							
Resolution (Pul	se/rotation)	16384							
Note 1 Positioning repeatability in one direction									

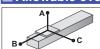
Note 1. Positioning repeatability in one direction.

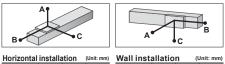
Note 2. When the stroke is longer than 1250mm, resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

Note 3. 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

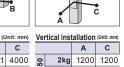
В С





Α







Static loading moment

MY	MP	MR
1032	1034	908

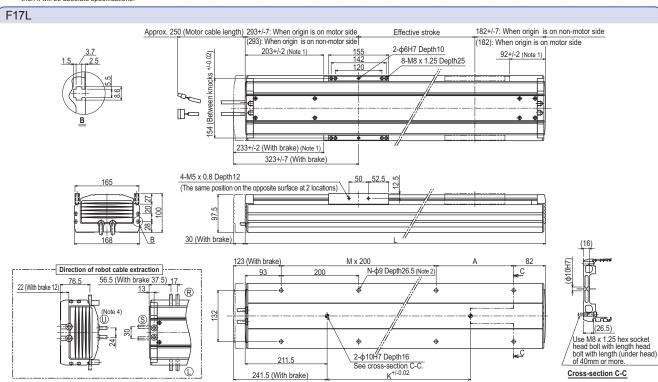
20	10kg	4000	2755	2608	50	10kg	2720 2681 4000		20	2kg	1200	1200	
Lead	30kg	3045	895	1175	ad	30kg	1185	821	3045	ad		3000	3000
۴	50kg	2602	523	715	Le	50kg	680	449	2602	٩	10kg	2650	2650
Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km.													

ВС

Controller

Controller	Operation method										
SR1-X-20-R	Programming / I/O point trace / Remote command / Operation using RS-232C communication										
TS-X220-R	I/O point trace										
RDX-20-RBR1	Pulse train control										

Cross-section C-C



Note 1. Length from both ends to mechanical stopper position.

Note 2. It is not allowed to use a counter bore washer, etc. when installing the main unit Note 3. This is the weight of the model without a brake. The weight of the model equipped with a brake is 1.2kg heavier than this value. Note 4. Make a separate consultation with us regarding robot cable (brake specifications) U extraction.

	NOTE 2. It is not allowe	ou to use a count	DOIC W	donoi, cic	. WIICH III	stanning ti	ic main a	IIIC.		TTOIC T.	widhe d	эсрага	ic const	illation i	vitii us i	cgarani	grobott	Jubic (bi	and spe	Jointoutic	113) 0 0	Attaction
	Effective	stroke	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050
	L		1575	1625	1675	1725	1775	1825	1875	1925	1975	2025	2075	2125	2175	2225	2275	2325	2375	2425	2475	2525
	Α		200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150	200	50	100	150
	М		6	7	7	7	7	8	8	8	8	9	9	9	9	10	10	10	10	11	11	11
	N		16	18	18	18	18	20	20	20	20	22	22	22	22	24	24	24	26	26	26	26
	K		1140	1140	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320
	Weight (k	g) ^{Note 3}	34.1	34.9	35.8	36.7	37 6	38.4	39.3	40.2	41.1	42	42.9	43.8	44.7	45.6	46.5	47.3	48.2	49.1	50	50.9
Maximum speed Note 5 Lead 50			2200			19	00		1500				1200				900				800	
	(mm/sec)	Speed setting		-		86%				68%			54%				40%				36%	

241.5 (With brake)

Note 5. When the stroke exceeds 1250mm, 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.

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