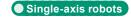
Basic model Rod type



Ordering method



R: Right bending L: Left bending 10: 10 mm 5: 5 mm

BK: Standard/With brake BL: Battery-less absolute With no brake BKBL: Battery-less absolute/ With brake

50 to 800 (50mm pitch)

R: From rear of motor R5: 5 m F: From front o

EP-01

R: With EP-RU

PT: PROFINET ES: EtherCAT NS: NPN CC: CC-Link

B: With N: None

Note 1. The robot cable is flexible and resists bending. Note 2. When the actuator is used vertically, the regenerative unit is needed.

When the actuator is used horizontally and the stroke of lead 10 or 20 is 150 to 500 mm, the regenerative unit is needed.

Note 3. When the motor specification is the standard (S, BK), whether to use the battery needs to be selected.

■ Specification	S										
AC servo motor output		200 W									
Repeatability Note 1		+/-0.01 mm									
Deceleration mechanis	m	Shifting position ball screw φ 16 (C7 class)									
Stroke		50 mm to 800 mm (50mm pitch)									
Maximum speed Note 2		1200 mm/sec	600 mm/sec	300 mm/sec							
Ball screw lead		20 mm	10 mm	5 mm							
Maximum navload	Horizontal	30 kg	60 kg	80 kg							
Maximum payload	Vertical	8 kg	20 kg	30 kg							
Max. pressing force		201 N	402 N	804 N							
Rotating backlash		+/-0 °									
Maximum dimensions of section of main unit	of cross	W 82 mm × H 73.5 mm									
Overall length	Straight	ST + 401 mm									
Overall leligtii	Bending	ST + 312.5 mm									
Position detector		Absolute encoder Battery-less absolute encoder									
Resolution		23 bits									
Using ambient tempera humidity	ture and	0 to 40 °C, 35 to 80 %RH (non-condensing)									

Controller Controller Operation method EP-01 I/O point trace/Remote command

Note 1. Positioning repeatability in one direction.

Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum

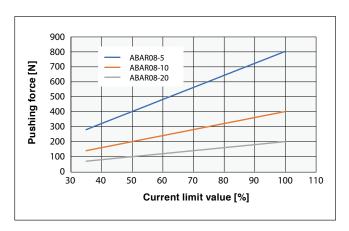
If the effective stroke exceeds 400 mm, the ball screw may resonate. (Critical speed) At this time, make the adjustment to decrease the speed while referring to the maximum speed shown in the table

Note. See P.138 for acceleration/deceleration.

■ Pushing force (reference value)

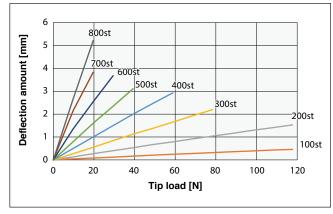
For the pushing force during pushing operation, see the graph below.

Note. The operable time (pushing judgement time) depends on the current limit value. Use the pushing force under the conditions that no overload error occurs.



■ Rod deflection amount (reference value)

For the deflection amount per stroke, see the graph below.

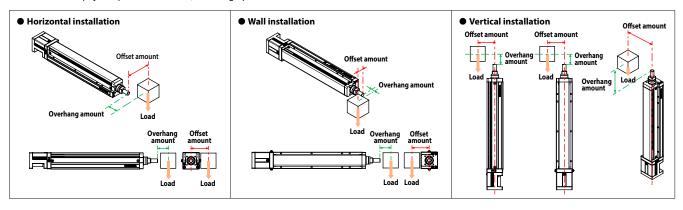




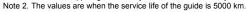
The cycle time simulation can be performed easily from our member site. For details, see P.12.

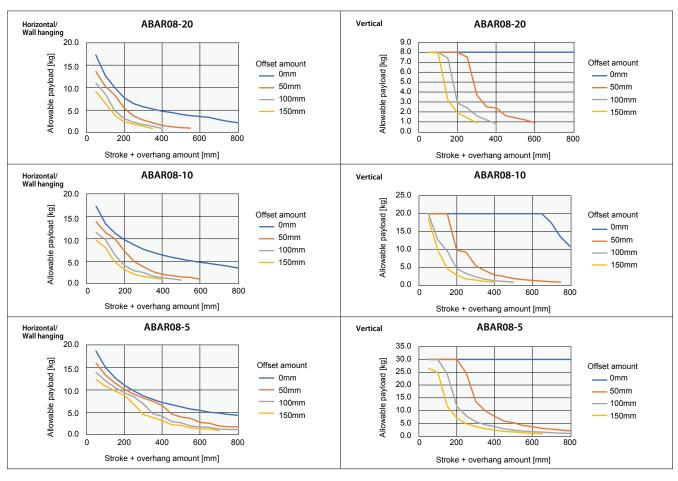
■ Allowable payload

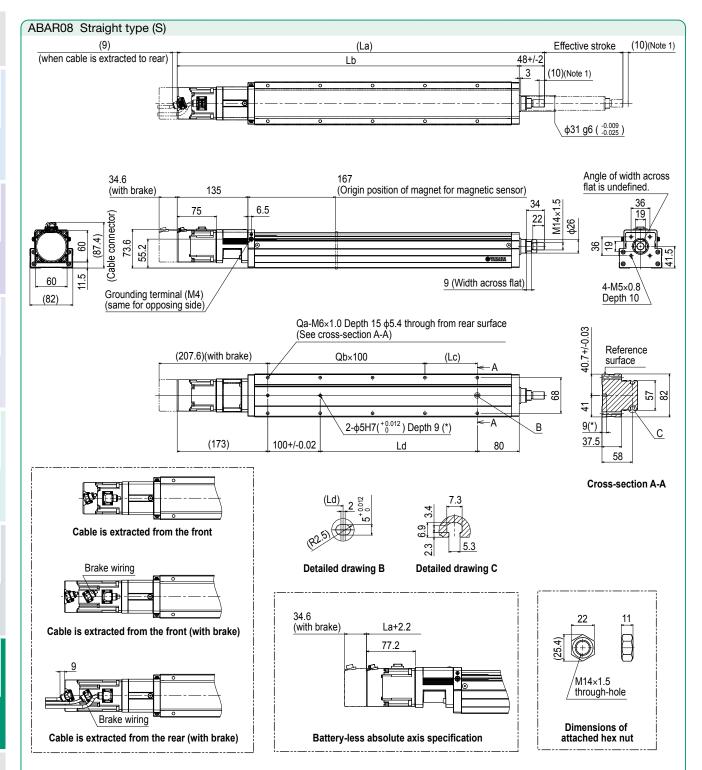
For the allowable payload per offset amount, see the graph below.



- Note 1. When transferring an object with a weight exceeding the following, use an external support guide. Install the support guide flexibly so that no unnecessary load is applied to the rod.







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

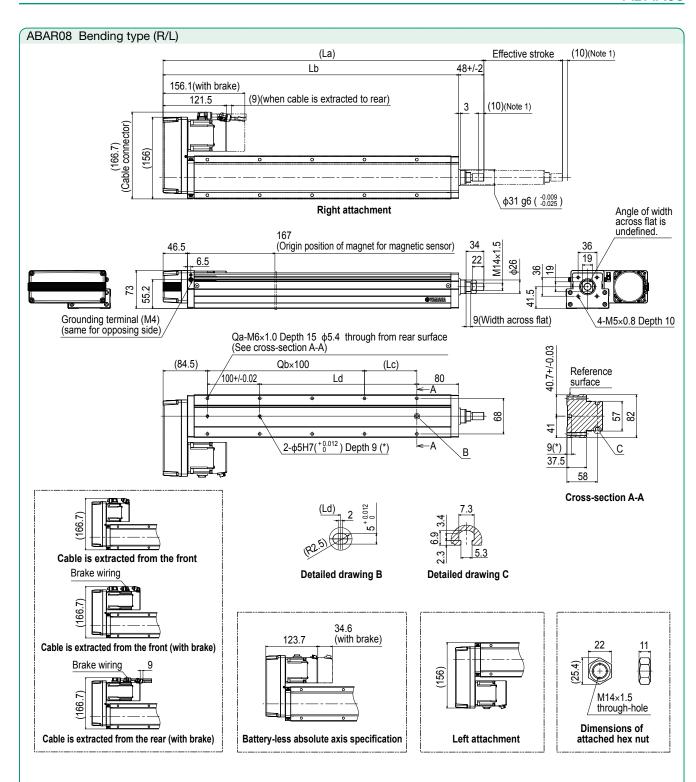
 Note 2. When changing the return-to-origin direction, the parameter needs to be changed. (The standard is that the origin is located on the motor side.)

 Note 3. For the installation through hole, the length under head << 45 mm or more>> is recommended for the hex socket head bolts <M5 × 0.8>. In the installation tap hole, the length under head <<th>4.5 mm or less>> is recommended for the hex socket head bolts <M6 × 1.0> used to install the main unit.
- Note 4. The weight with the brake is 0.4 kg heavier than the value in the weight column.

 Note 5. The minimum bending radius of the robot cable is R30 on the fixed side or R50 on the movable side. The cable extraction direction may vary depending on the specifications.
- Note 6. Grease gun nozzle (recommended) (see P.143 for detail) Part number: KFU-M3861-00

Effect	tive stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
La		451	501	551	601	651	701	751	801	851	901	951	1001	1051	1101	1151	1201
Lb		403	453	503	553	603	653	703	753	803	853	903	953	1003	1053	1103	1153
Lc		50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
Qa		6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20
	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
Weight (kg) Note 4		4.7	5.1	5.5	5.8	6.1	6.5	6.8	7.1	7.4	7.8	8.2	8.5	8.9	9.2	9.4	9.7
	Lead 20	1200									720	600	480	420	360	300	240
Maximum speed (mm/sec)	Lead 10	600								450	360	300	240	210	180	150	120
	Lead 5	300								225	180	150	120	105	90	75	60
	Speed setting	-								75%	60%	50%	40%	35%	30%	25%	20%





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

Note 2. When changing the return-to-origin direction, the parameter needs to be changed. (The standard is that the origin is located on the motor side.)

Note 3. For the installation through hole, the length under head << 45 mm or more>> is recommended for the hex socket head bolts <M5 × 0.8>. In the installation tap hole, the length under head <<th>the length under head << 1.0> used to install the main unit.

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Note 6. Grease gun nozzle (recommended) (see P.143 for detail) Part number: KFU-M3861-00

===			100	450		0.50			100	450			222				
Effect	ive stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
	La	362.5	412.5	462.5	512.5	562.5	612.5	662.5	712.5	762.5	812.5	862.5	912.5	962.5	1012.5	1062.5	1112.5
Lb		314.5	364.5	414.5	464.5	514.5	564.5	614.5	664.5	714.5	764.5	814.5	864.5	914.5	964.5	1014.5	1064.5
Lc		50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20	20	
	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	
Weight (kg) Note 4		5.1	5.5	5.9	6.2	6.5	6.9	7.2	7.5	7.8	8.2	8.6	8.9	9.3	9.6	9.8	10.1
	Lead 20	1200									720	600	480	420	360	300	240
Maximum speed (mm/sec)	Lead 10	600								450	360	300	240	210	180	150	120
	Lead 5	300								225	180	150	120	105	90	75	60
	Speed setting	-							75%	60%	50%	40%	35%	30%	25%	20%	