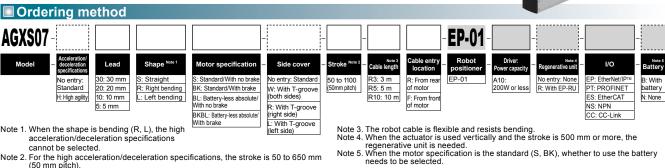
# AGXSC



Advanced model Single-axis robots

Slider type

Note 1. When the shape is bending (R, L), the high acceleration/deceleration specifications cannot be selected.

For the high acceleration/deceleration specifications, the stroke is 50 to 650 mm (50 mm pitch). Note 2.

#### Specifications

_								
AC servo mot		100 W						
Repeatability	Note 1	+/-0.005 mm						
Deceleration	Ground ball screw φ 15 (C5 class)							
Stroke	50 mm to 1100 mm(50 mm pitch)							
Maximum spe	and Note 2	1800	1200	600	300			
waximum spe	eu	mm/sec	mm/sec	mm/sec	mm/sec			
Ball screw lea	ad	30 mm	20 mm	10 mm	5 mm			
Maximum	Horizontal	10 kg	25 kg	45 kg	85 kg			
payload	Vertical	2 kg	4 kg	8 kg	16 kg			
Rated thrust		56 Ň	84 N	169 N	339 Ñ			
Maximum dime cross section o	W 70 mm × H 76.5 mm							
Overall	Straight	ST + 276.5 mm						
length	Bending	ST + 232 mm						
Degree of clea	anliness Note 3	ISO CLASS 3 (ISO14644-1) or equivalent						
Intake air Note 4		30 Nl/min to 115 Nl/min						
Position dete	ctor	Absolute encoder Battery-less absolute encoder						
Resolution		23 bits						
Using ambient and humidity	temperature	0 to 40 °C, 35 to 80 %RH (non-condensing)						
Note 1. Positioning repeatability in one direction. Note 2. When a moving distance is short and depending on an								

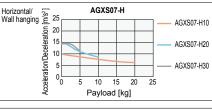
When a moving distance is short and depending of an operation condition, it may not reach the maximum speed. If the effective stroke exceeds 700 mm, the ball screw may resonate. (Critical speed) A this time, make the adjustment to decrease the speed

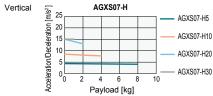
- while referring to the maximum speed shown in the table When using in a clean environment, attach a suction air Note 3.
- Note 5. When using in a clean environment, attach a succion an joint. The degree of cleanliness is the cleanliness level achieved when using at 1000 mm/sec or less.
  Note 4. The required suction amount will vary according to the operating conditions and operating environment.
  Note. See P.119 for acceleration/deceleration.

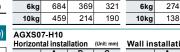
eration or	<sup>r</sup> deceleration	(High	agility	mode

Spe	cificat	Allowable of the second sec							
Stroke	-	50 mn	n to 650 m	AGXS07-H30					
Ball screv	v lead	30 mm	20 mm	10 mm	5 mm	Horizontal installati			
Maximum payload		5 kg	10 kg	20 kg	-	2kg	а 1020	<b>B</b> 897	
Maximum	Horizontal	prizontal 14.72 m/s <sup>2</sup> 14.72 m/s <sup>2</sup> 9.64 m/s <sup>2</sup>			5kg	461	346		
acceleration		(1.5 G)	(1.5 G)	(1 G)	-	AGXS07-H20			
Maximum		4.1-2	0.1	4.1	0.4	Horizontal installa			
payload		1 kg	2 kg	4 kg	8 kg		Α	В	
Maximum	Vertical	/ertical 14.72 m/s <sup>2</sup> 14.72 n	14.72 m/s <sup>2</sup>	8.44 m/s <sup>2</sup> (0.9 G)	4.32 m/s <sup>2</sup> (0.4 G)	3kg	1224	758	
acceleration		(1.5 G)	(1.5 G)			6kg	684	369	
				-	·	10kg	459	214	

### Payload – Acceleration / Deceleration Graph (Estimate)







Horizon	tal insta	llation	(Unit: mm)	Wall in:	stallati	on (	Unit: mm)	Vertical in	stallation	(Unit: mm)
	Α	В	С		Α	В	С		Α	С
5kg	2208	622	665	5kg	603	556	2129	1kg	3012	3012
12kg	991	249	266	12kg	200	182	890	2kg	1487	1487
20kg	637	142	152	20kg	83	75	497	4kg	725	725

Wall installation

Wall installation

Α в

2kg 579 830 976

5kg 208 279 401

3kg 600

A B

Note. Distance from center of slider top to center of gravity of object being carried at a guide service life of 10,000 km. Note. Service life is calculated for 600 mm stroke models.

Effective stroke and maximum speed during high acceleration or deceleration														
Effective stroke 50 100 150 200 250 300 350 400 450 500 550 600 650														
	Lead 30							1800			•	•	•	
Maximum	Lead 20	1200												
speed (mm/sec) Lead 10 600														
(	Lead 5	300												
Nets The he				6 + le -	hinh as									

Note.

The bending unit cannot be used for the high agility mode. The high agility mode is used in an effective stroke range of 50 to 650 (50 mm pitch). There is no critical speed setting. The maximum speed can be set for a selectable stroke. The speed may not reach the maximum speed if the movement distance is short or depending on the operating conditions.

When the actuator is used with the high acceleration/deceleration specifications, the operation duty and motor load factor need to be considered. (See P.93.) Note Note. See P.121 for acceleration/deceleration

(NAMAH)

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



AGXS07-H5

3kg 1093 1093

5kg 639 639

8kg

Vertical installation (Unit: mm)

384 384

С

Allowable overh	Static loading moment				
A C	A C B	A C			
AGXS07-30 Horizontal installation (Unit: mm) A B C 2kg 3078 1509 1221 6kg 1191 501 418 10kg 957 317 282	Wall installation      (Unit: mm)        A      B      C        2kg      1237      1442      2975        6kg      393      435      1062        10kg      244      251      793	A      C        1kg      2335        2kg      1158	MY      MP      MR        138      121      121		
AGXS07-20 Horizontal installation (Unit: mm) A B C 10kg 1327 370 358 20kg 1136 186 188 25kg 1509 163 173	Wall installation      (Unit: mm)        A      B      C        10kg      313      304      1164        20kg      131      119      804        25kg      109      97      1010	Vertical installation      Unit: mm)        A      C        1kg      3416      3416        2kg      1701      1701        4kg      841      841	Controller Controller Operation method EP-01 // Opoint trace/		
AGXS07-10        Horizontal installation      (Unit: mm)        A      B      C        15kg      2420      338      372        30kg      1531      160      176        45kg      1181      101      111	Wall installation      (Unit: mm)        A      B      C        15kg      306      271      2192        30kg      106      94      1155        45kg      39      34      623	A      C        3kg      1688      1688        6kg      827      827        8kg      612      612	Remote command		
AGXS07-5        Horizontal installation      (Unit: mm)        A      B      C        30kg      2915      172      197        50kg      2535      96      110        85kg      2024      49      56	Wall installation      (Unit: mm)        A      B      C        30kg      122      106      2458        50kg      34      30      1476        85kg      0      0      0	A      C        6kg      907      907        9kg      591      591        16kg      314      314			
Note. Distance from center of sl service life of 10,000 km.	ider top to center of gravity of obje	ct being carried at a guide			

(Unit: mm)

(Unit: mm)

C

692 1175

303 621

147 376

C

Vertical installation

1kg

1kg

2kg

Α 

Vertical installation (Unit: n

Α C

> 891 891

1793 1793

1165

(Unit

1165

Note. Service life is calculated for 600 mm stroke models.

Ilowable overhang Note

B C

897 608

346 245

758 640

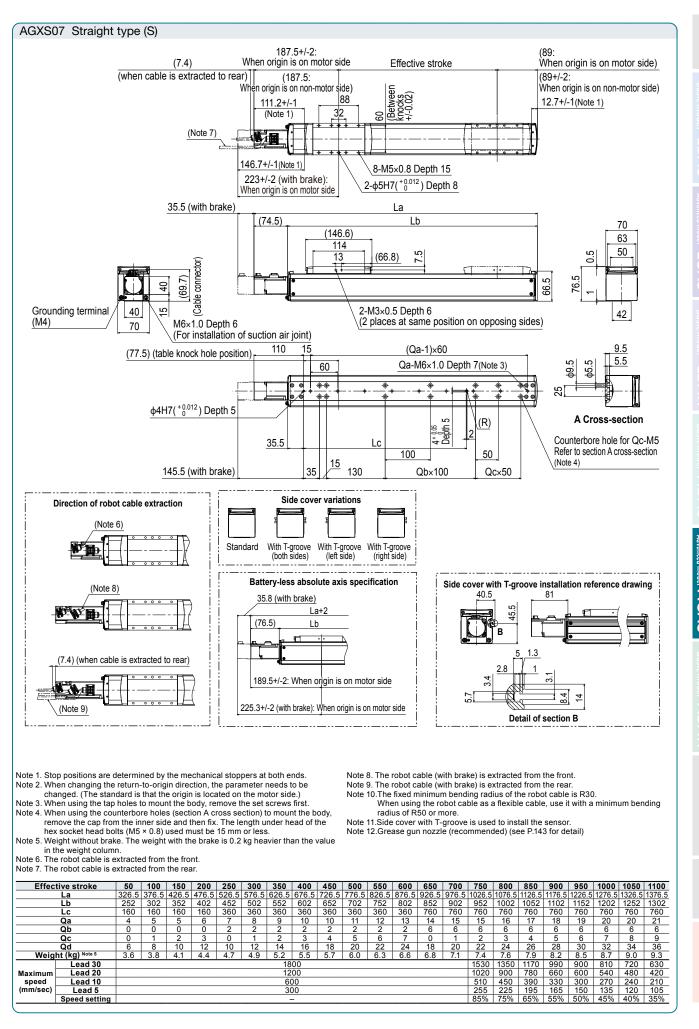
(Unit: mm)

(Unit: mm)

С

When used with high accele e)

## AGXS07

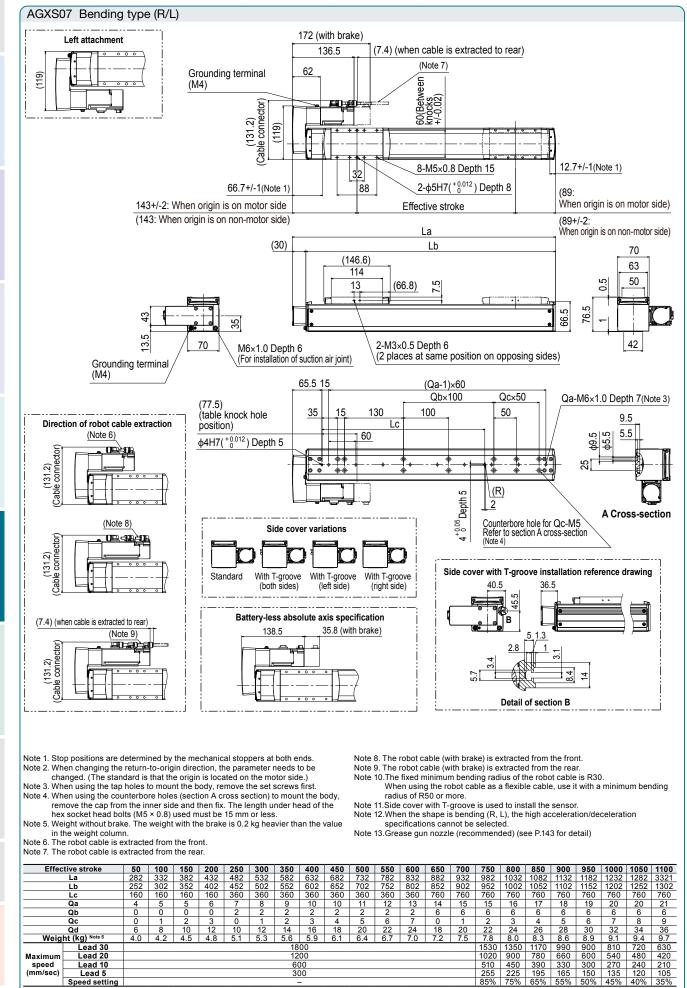


Controller

EP-01 ► 146

79

## AGXS07



axis Robot positioner EP-0