## OOrdering method



Note 1 . When the shape is bending $(\mathrm{R}, \mathrm{L})$, the high acceleration/deceleration specifications cannot be selected.
Note 2. For the high acceleration/deceleration specifications, the stroke is 50 to 550 mm ( 50 mm pitch).


Note 3. The robot cable is flexible and resists bending
Note 4. When the actuator is used vertically and the stroke is 500 mm or more, the
Note 5. When the motor specification is the standard ( $\mathrm{S}, \mathrm{BK}$ ), whether to use the battery needs to be selected.
$\square$

 EP. 01





PT: PROFINET
ES: EtherCAT

| ES: EtherCA |
| :--- |
| NS: NPN |

CC: CC-Link


## $\square$ Specifications

AC servo motor output
$\frac{\text { Repeatability }}{}{ }^{\text {Note } 1}$
Stroke
Maximum speed ${ }^{\text {Note } 2}$
Ball screw lead
Maximum Horizontal

| Maximum | payload |
| :--- | :--- |
|  | Hortizontal |
|  | Vated |
|  |  |

Rated thrust
Maximum dimensions of

Overall | Ovength | Bending |
| :--- | :--- |

Degree of cleanliness Note 3
Intake air Note 4
Position detector
Resolution
Using ambient temperature and humidity
(non-condensing)
Note 2. When a moving distance is short and depending on an operation condition, it may not reach the maximum speed. f the effective stroke exceeds 600 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 3. When using in a clean environment, attach a suction air joint. The degree of cleanliness is the cleanliness level
Note 4. The required suction amount will vary according
The required suction amount will vary according to the
Note. See P. 117 for acceleration/deceleration.


## Note


AGXS05L-20

| Horizontal installation |  |  |  | (Unit: mm) |
| ---: | ---: | :---: | :---: | :---: |
|  | A | B | C |  |
| $\mathbf{3 k g}$ | 1755 | 559 | 426 |  |
| $\mathbf{8 k g}$ | 737 | 200 | 153 |  |
| $\mathbf{1 2 k g}$ | 608 | 133 | 104 |  |
|  |  |  |  |  |
| AGXS05L-10 |  |  |  |  |

AGXS05L-10
Horizontal installation (Unit: mm)

|  | A | B | C |
| ---: | ---: | ---: | ---: |
| $\mathbf{6 k g}$ | 2416 | 389 | 333 |
| $\mathbf{1 2 k g}$ | 1397 | 187 | 161 |
| $\mathbf{2 4 k g}$ | 875 | 87 | 74 |


| Wall installation |  |  |  |
| ---: | ---: | ---: | ---: |
|  | (Unit: $\mathbf{m m}$ ) |  |  |
| $\mathbf{6 k g}$ | 277 | B | C |
| $\mathbf{1 2 k g}$ | 101 | 2192 |  |
| $\mathbf{2 4 k g}$ | 12 | 115 | 1084 |


| Vertical installation (Unit:mm) |  |  |  |
| :---: | :---: | :---: | :---: |
|  | A | C |  |
| $\mathbf{4 k g}$ | 555 | 555 |  |
| $\mathbf{6 k g}$ | 360 | 360 |  |

## AGXS05L-5

| Horizontal installation |  |  |  |
| :---: | :---: | :---: | :---: |
|  | (Unit: mm) |  |  |
| $\mathbf{1 0 k g}$ | 3127 | B | C |
| $\mathbf{2 0 k g}$ | 1841 | 120 | 225 |
| $\mathbf{3 2 k}$ | 1554 | 70 |  |


| Wall installation |  |  | (Unit: mm) |
| :---: | ---: | ---: | ---: |
|  | A | B | C |
| $\mathbf{1 0 k g}$ | 162 | 181 | 2800 |
| $\mathbf{2 0 k g}$ | 42 | 47 | 1273 |
| $\mathbf{3 2 k g}$ | 0 | 0 | 0 |


| Vertical installation (Unit:mm) |  |  |
| ---: | :---: | :---: |
|  | A | C |
| $\mathbf{5 k g}$ | 501 | 501 |
| $\mathbf{1 0 k g}$ | 235 | 235 |
| $\mathbf{1 2 k g}$ | 190 | 190 |

Note. Dister slider top to center of gravity of object being carried at a guide service life of $10,000 \mathrm{~km}$.
Note. Service life is calculated for 600 mm stroke models.

When used with high acceleration or deceleration (High agility mode)



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. When using the tap holes to mount the body, remove the set screws first. Note 4. When using the counterbore holes (section A cross section) to mount the body, remove the cap from the inner side and then fix. The length under head of the hex socket head bolts ( $M 5 \times 0.8$ ) used must be 15 mm or less.
Note 5 . Weight without brake. The weight with the brake is 0.2 kg heavier than the value in the weight column.
Note 6. The robot cable is extracted from the front.
Note 7. The robot cable is extracted from the rear.

| Effective stroke |  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| La |  | 286 | 336 | 386 | 436 | 486 | 536 | 586 | 636 | 686 | 736 | 786 | 836 | 886 | 936 | 986 | 1036 |
| Lb |  | 211.5 | 261.5 | 311.5 | 361.5 | 411.5 | 461.5 | 511.5 | 561.5 | 611.5 | 661.5 | 711.5 | 761.5 | 811.5 | 861.5 | 911.5 | 961.5 |
| Lc |  | 130 | 130 | 130 | 130 | 330 | 330 | 330 | 330 | 330 | 330 | 630 | 630 | 630 | 630 | 630 | 630 |
| Qa |  | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 |
| Qb |  | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 1 | 2 | 3 | 4 | 5 |
| Qc |  | 3 | 4 | 5 | 6 | 5 | 6 | 7 | 8 | 9 | 10 | 8 | 9 | 10 | 11 | 12 | 13 |
| Weight (kg) Note 5 |  | 1.8 | 1.9 | 2.1 | 2.2 | 2.4 | 2.6 | 2.7 | 2.9 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 |
| Maximum speed ( $\mathrm{mm} / \mathrm{sec}$ ) | Lead 20 | 1333 |  |  |  |  |  |  |  |  |  |  |  | 1066 | 933 | 800 | 666 |
|  | Lead 10 | 666 |  |  |  |  |  |  |  |  |  |  |  | 532 | 466 | 400 | 333 |
|  | Lead 5 | 333 |  |  |  |  |  |  |  |  |  |  |  | 266 | 233 | 200 | 166 |
|  | Speed setting | - |  |  |  |  |  |  |  |  |  |  |  | 80\% | 70\% | 60\% | 50\% |

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. When using the tap holes to mount the body, remove the set screws first.
Note 4. When using the counterbore holes (section A cross section) to mount the body, remove the cap from the inner side and then fix. The length under head of the hex socket head bolts ( $M 5 \times 0.8$ ) used must be 15 mm or less.
Note 5 . Weight without brake. The weight with the brake is 0.2 kg heavier than the value in the weight column.
Note 6. The robot cable is extracted from the front
Note 7. The robot cable is extracted from the rear.

| Effective stroke |  | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| La |  | 241.5 | 291.5 | 341.5 | 391.5 | 4415 | 491.5 | 541.5 | 591.5 | 641.5 | 691.5 | 741.5 | 791.5 | 841.5 | 891.5 | 941.5 | 991.5 |
| Lb |  | 211.5 | 261.5 | 311.5 | 361.5 | 411.5 | 461.5 | 511.5 | 561.5 | 611.5 | 661.5 | 711.5 | 761.5 | 811.5 | 861.5 | 911.5 | 961.5 |
| Lc |  | 130 | 130 | 130 | 130 | 330 | 330 | 330 | 330 | 330 | 330 | 630 | 630 | 630 | 630 | 630 | 630 |
| Qa |  | 1 | 1 | 1 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 |
| Qb |  | 0 | 1 | 2 | 3 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | 1 | 2 | 3 | 4 | 5 |
| Qc |  | 3 | 4 | 5 | 6 | 5 | 6 | 7 | 8 | 9 | 10 | 8 | 9 | 10 | 11 | 12 | 13 |
| Weight (kg) Note 5 |  | 2.2 | 2.3 | 2.5 | 2.6 | 2.8 | 3.0 | 3.1 | 3.3 | 3.4 | 3.6 | 3.7 | 3.9 | 4.0 | 4.2 | 4.3 | 4.5 |
| Maximum speed ( $\mathrm{mm} / \mathrm{sec}$ ) | Lead 20 | 1333 |  |  |  |  |  |  |  |  |  |  |  | 1066 | 933 | 800 | 666 |
|  | Lead 10 | 666 |  |  |  |  |  |  |  |  |  |  |  | 532 | 466 | 400 | 333 |
|  | Lead 5 | 333 |  |  |  |  |  |  |  |  |  |  |  | 266 | 233 | 200 | 166 |
|  | Speed setting | - |  |  |  |  |  |  |  |  |  |  |  | 80\% | 70\% | 60\% | 50\% |

