Oriental motor

New Production Information

Motorized Linear Slides EAS Series
Motorizes Cylinders EAC Series
Standard type /Side-Mounted type

αSTEP AR Series Equipped

NEW PRODUCTS

Maintenance has been simplified!

With Oriental Motor's unique belt tension adjustment mechanism, maintenance parts are commonized with the **AR** Series, and maintenance performance is improved.

Simple Belt Replacement (Side-Mounted Type)

The belt is easily replaced using Oriental Motor's Unique belt tension adjustment mechanism.

Tension adjustment screws

Tension adjustment Springs

Tension adjustment screws

Tension adjustment Springs
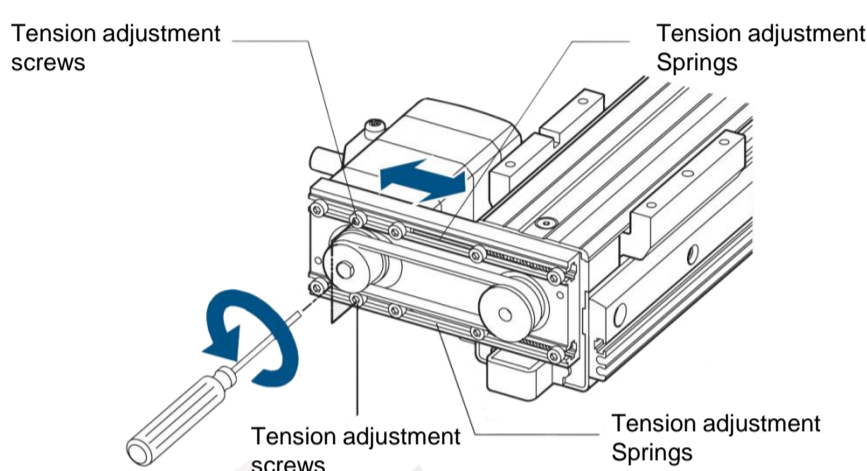
When the screw is loosened, the belt tension is adjusted to the appropriate tension using the force from the spring. The above figure shows the side-mounted mechanism in the **EAS** Series, But it is also similar with the **EAC** Series.

New Service

Try out our new Calculation page!

Newly launched Calculation Page
You can calculate your operational driving pattern and electronic gear here!

[Motor Selection Calculation](#)

[Electronic Gear Calculation](#)

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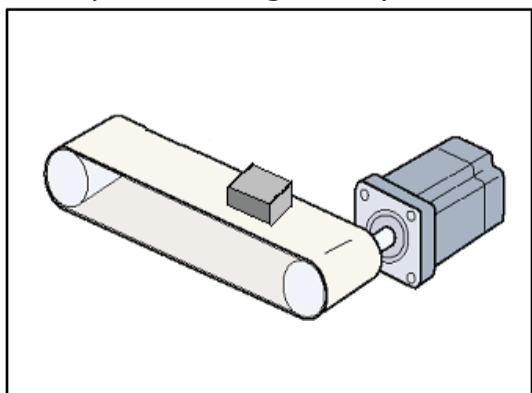**MYMEX Johor Bahru**
Southern Malaysia Manufacturing Exhibition

Technical Information

Improving Tact Time

By using our **αSTEP** Series, the positioning time can reduce to **0.65 sec**
Instead of 1 sec because the Acceleration rate is 0.5 or more.

Example :Indexing conveyor

Pulley Diameter: 50mm
Pulley Width: 300mm
Pulley Material: Stainless Steel
Moving Length: 100mm
Positioning Time: 1 sec ➝ **0.65 sec**
Load Weight: 5kg

Acceleration/Deceleration Rate (Combination reference values with **EMP** Series)

Product	Frame Size	Acceleration/Deceleration Rate T_R [ms/kHz]
5-Phase Stepping Motors	20, 28, 42, 60	20 or more
	85(90)	30 or more
2-Phase Stepping Motors	20, 28(30), 35, 42, 50, 56.4, 60	50 or more
	85(90)	75 or more
αSTEP	28(30), 42, 60, 85(90)	0.5 or more ✳

✳This item need not be checked for **αSTEP**. The values in the table represent the lower limit of settings for the **EMP** Series.
Also for the geared type, the acceleration/deceleration rates are equal to the values shown above. However, when using a half step or microstep motor, the conversion below is required.

$$T_R \cdot \frac{\theta_S}{\theta_B} \cdot i$$

T_R : Acceleration/Deceleration rate [ms/kHz]
θ_S : Step angle []
θ_B : Refer to table below.
i : Gear ratio for geared types

Coefficient

Product	θ_B
5-Phase Stepping Motors	0.72°
2-Phase Stepping Motors	1.8°
αSTEP	0.36°