

TOYO

COST DOWN

Economic

NEW

MG Series

Electric European Belt Actuator

01

Ultra Long Stroke.
Up To
3700mm

02

High payload,
High Rigidity
97kg
Max Payload

03

Better
Repeatability
 ± 0.04 mm

04

Vmax
3500mm/s

05

Better Moment
Load Capacity
38Times

06

No Bracket
Needed For
MAS Design
**Lower Down
Cost**

07

Pulley Reduction/
Gearbox/Direct Drive
**Multiple
Choice**

08

Integrate Bearing.
One Piece Carriage
**High
Rigidity**



TOYO AUTOMATION CO., LTD

[MG Feature]

COST DOWN

5~10%

Economic

Includes a standard reducer, no extra purchase needed, making it more cost-effective.

Way Better Moment Load Capacity

Electric European Belt Actuator MG Series

When the moment load is too large, the slider will be inclined. How to improve the deformation?

Before

Add support axis

- Add support axis
- Cost increase

After

One Piece Carriage **50kg**

Integrate Bearing Design

- Comparing to standard guide, integrate bearing reduce volume and improve moment load capacity.
- Reduced height and volume.
- One piece carriage, better rigidity.

Way Better Moment Load Capacity

New MG65

Better Moment Load Capacity **38 times**

C Moment arm **454mm**

10kg

Rail Spacing **46mm**

65mm

VS

Old MH65/MK65

C Moment arm **12mm**

10kg

79mm

Rail Spacing **12mm**

C Moment arm **42mm**

10kg

85mm

Rail Spacing **15mm**

Enclosed profile comparing to other brand

TOYO

Rail Inside

Belt Inside

Other Brand

Rail Inside

Belt Inside

- Enclosed cover sheet design. Can effectively prevent dust, debris. Increasing overall life.
- Enclosed design prevent dust built inside. Easier to maintain. Can work in clean room required environment.

Using stepper motor, work without gearbox, save more space

Orientalmotor × **TOYO**

- The servo motor's low inertia tolerance and belt rigidity make gain adjustment difficult, needing a gearbox, which adds space, slows speed, and increases costs.
- The AZ series offers "no gain adjustment," "high inertia tolerance," and "unaffected by mechanism rigidity," eliminating the need for a gearbox and making it ideal for long-stroke, high-speed positioning of belt slides.

System Simplify

Save Space

213mm

Stepper

354.5mm

Servo Motor

Gearbox

Multiple Reducing Method

- Reducer as standard option. Reduce cost. Can also work with gearbox.

	Type	Pulley Reduction	Gearbox	Direct Driv
MG50	Ratio	2.5:1	4:1	1:1
MG65	Ratio	2:1	3:1	1:1
MG85	Ratio	3:1	5:1	1:1

Low Dust Application

- The special roller-supported steel belt design reduces dust caused by friction between the slider and the steel belt.
- Clean room grease for all series. Optional pneumatic port, suitable for clean room application and up to CLASS 100 certification.

Cover sheet

Special roller design

Caged Ball, Reduce Noise, Increase Life

- No contact between balls. Lowering the noise and increasing life.

Friction without caged balls

Reduce friction with caged balls.

*MG65/85 only

Patented Grease Fitting on Both Side

- The patented single oil nozzle on the slider allows simultaneous lubrication of the rail and slider, making maintenance easier and faster. The nozzle direction can be customized.

Patented grease fitting design

Copyright ©