

Air Slide Table

Series MXQ

ø6, ø8, ø12, ø16, ø20, ø25

Integration of the guide rail and the table.
Uses a recirculating linear guide for high rigidity and high precision.
Air slide table for precision assembly processes.

High precision, compact design

Comparison of MXQ and MXS (mm)

| Model | Repeatability | | Dimensions | | |
|----------|---------------|------------------|------------|--------|----------------|
| | Parallelism | Height tolerance | Width | Height | Overall length |
| MXQ12-30 | 0.035 | ±0.08 | 46 | 30 | 86 |
| MXS12-30 | 0.2 | ±0.2 | 50 | 32 | 80 |

Improved load resistance

Load resistance against sudden and excessive external forces is nearly three times greater than Series MXS.

Symmetric type is also standardized.

Available for all option

Wide variety of adjuster option

Positioning hole

Improved workpiece mounting repeatability

Workpiece mounting taps

Improved strength

End plate uses extra super duralumin. (Except the one with buffer)

Dual rods

Twice the output of conventional cylinders

Recirculating linear guide

Wide type linear guide block body made of martensitic stainless steel

Body mounting through-hole

Auto switch mounting groove

Auto switches can be mounted in grooves provided on the side of the body where they do not protrude.

Integrating table with guide rail

Made of martensitic stainless steel

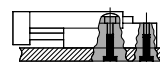
Positioning hole

Reproducibility for mounting on the body has been improved.

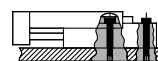
Body mounting taps

Mounting is possible from 3 directions.

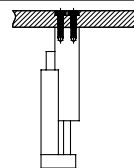
1. Lateral mounting (Body tapped)



2. Lateral mounting (Body through-hole)



3. Vertical mounting (Body tapped)



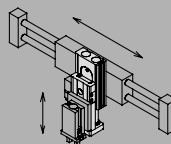
Wide Variety of Option

Adjuster option and function option can be combined

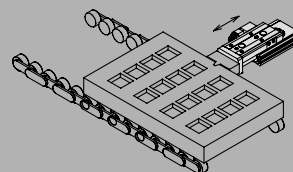
| Symmetric type | Adjuster option | Functional option |
|----------------|--------------------------|---------------------------|
| | With stroke adjuster | With buffer mechanism |
| | With shock absorber | With end lock |
| | | Axial piping type |

Application Example

As Z-axis for picking and placing



For positioning of pallets on a conveyor



MXH

MXU

MXS

MXQ

MXF

MXW

MXJ

MXP

MXY

MTS

D-□

-X□

Individual
-X□

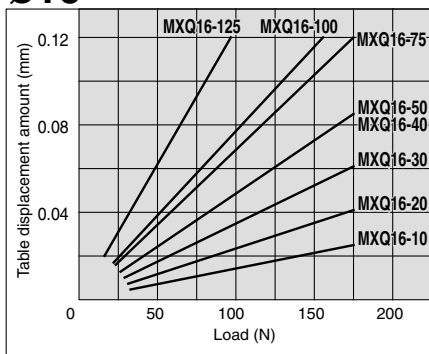
The graphs below show the table displacement when the static moment load is applied to the table. The graphs do not show the loadable mass. Refer to the Model Selection for the loadable mass.

Table displacement due to pitch moment load

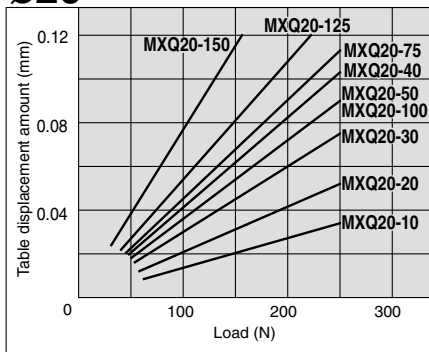
Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø16



ø20



ø25

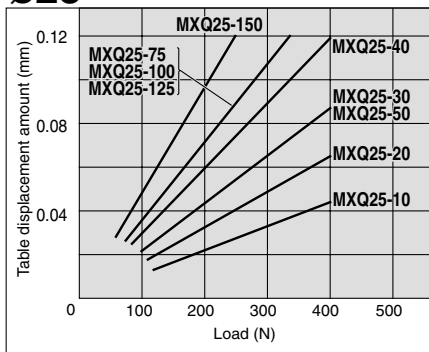
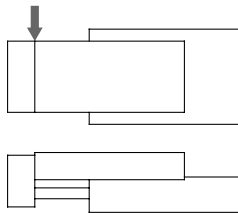
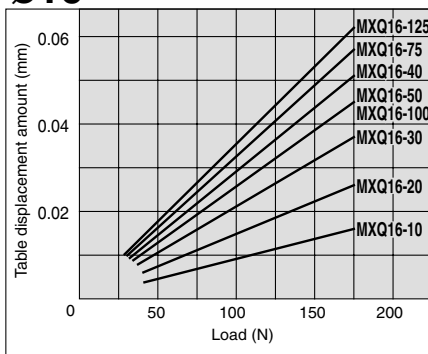


Table displacement due to yaw moment load

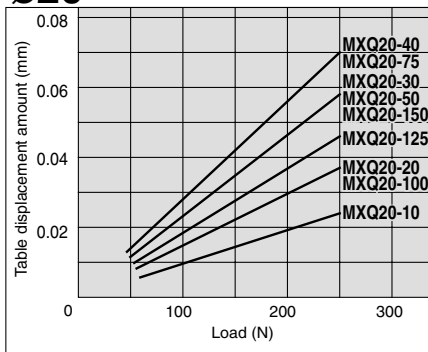
Table displacement when loads are applied to the section marked with the arrow at the full stroke.



ø16



ø20



ø25

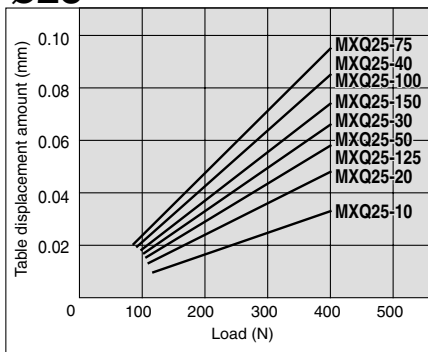
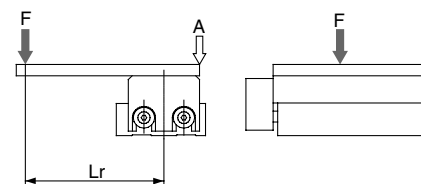
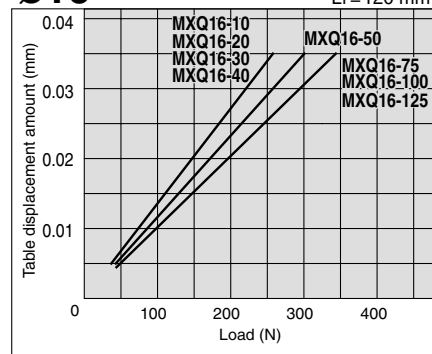


Table displacement due to roll moment load

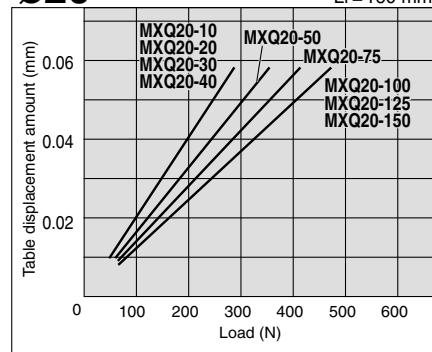
Table displacement of section A when loads are applied to the section F with the slide table retracted.



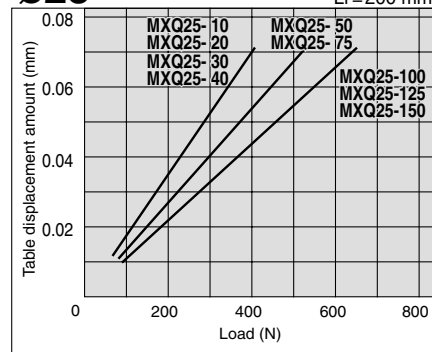
ø16



ø20



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