

Terms | Sitemap | About us | Contact | Catalog | Shows | News | Offices | Partners | Press Center | Support | Team | Home

MICOS USA • 15375 BARRANCA PARKWAY • STE G101 • IRVINE • CA 92618 • PHONE 949 480 0538 • FAX 949 480 0538

Page

4.010 FF Linear Motor Stage LMS-180



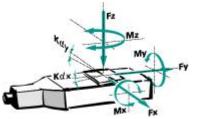






Key features

- Linear motor
- Travel range up to 305 mm
 - Maximum speed 400 mm/sec
- Load capacity up to 100 kg
- Bi-directional repeatability +/- 0.08 μm
- Linear recirculating ball system
- Special, tempered Aluminium
- Limit switches integrated
- Module combination



FACTS

| | Load Characteristics | Fx (N) | | Fy (N) (Con.) | | Mx (N) | My (Nm) | Mz (Nm) | kax (µrad/Nm) | kay (µrad/Nm) |
|---|-------------------------|-----------|-----|------------------|-----|-----------|------------|------------|------------------|------------------|
| ļ | LM-010 | 450 | 176 | 50 | 450 | 65 | 120 | 65 | 80 | 60 |

DESCRIPTION

Linear Stages of the structural series **LMS-180** and LMS-300 are mainly employed for modern electronic production and laser application. Combined with direct-driven Rotation Stages UPR of MICOS, high-dynamic, precise positioning systems can be configured resulting in an efficient production. Linear Stages LMS-180 and LMS-300

LMS-180 [detail]

are driven by linear motors without iron. The linear measuring system with very high accuracy is installed between the guides. With this, a higher system accuracy can be achieved. Especially significant is a very quiet and dynamic smooth move. All Linear Stages of the structural series LMS-180 are equipped with inductive travel-limit switch and protection against damage.



Technical data

| Travel Range (mm) | 155 | 205 | 305 | 408 |
|-----------------------------------|------------|---------|---------|---------|
| Bi-directional Repeatability (µm) | +/- 0.02 2 | | | |
| Accuracy per 100 mm (µm) | +/- 1 10 | | | |
| Velocity Range (mm/sec) | 0.001 400 | | | |
| Straightness / Flatness (µm) | +/- 3 | +/- 6 | +/- 8 | +/- 10 |
| Pitch (µrad) | +/- 80 | +/- 100 | +/- 120 | +/- 140 |
| Yaw (µrad) | +/- 100 | | | |

| Speed | max. | (mm/ | sec) |
|-------|------|------|------|
| | , | , | |

Resolution Closed-Loop (µm)

| LS-030, Linear glass scale (25-times interpolation) | 0.08 | | |
|---|--------|--|--|
| Reference mark | center | | |

| Winding | Constant | |
|---------|----------|--|
| | | |

| Force constant (Nm/Ams) | 17 | | |
|--|------|--|--|
| Back EMF constant, peak value V/(m/s)* | 13.9 | | |
| Electrical resistance at 80° (Ohm)* | 7.39 | | |
| Electrical inductance (mH)* | 1.81 | | |
| Continuous current at 80° (Ams) | 1.5 | | |

| Material | Special Aluminium, black anodized | | | lized |
|-------------|-----------------------------------|---|---|-------|
| Weight (kg) | - | - | - | - |

Note: * Terminal to terminal

