# MICOS MOTION CONTROL \& OPTICS U S A 

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Rotation Stages of the structural series UPR-160 F and UPR-300 are employed for dynamical positioning. They are mainly utilized in the field of semiconductor technology, for positioning systems of laser treatment, automation systems and robotic. All Rotation Stages of the structural series

UPR are directly driven by a torque motor. Mechanical transmissions become no longer necessary. So, with this better positioning accuracy, higher dynamic accelerations and speeds can be achieved as in case of conventional drive systems. Calibrated, paired angular ball bearings guarantee a high central load capacity without breakdown torque. UPR - Rotation Stages
 are equipped with angular systems. Resolutions up to 0.0004 are standard offered. The Rotation Stages are equipped with a contactless limit switch.

## Technical data

| Rotation Range ( ${ }^{\circ}$ ) | 360, endless |
| :---: | :---: |
| Worm Gear reduction | - |
| Accuracy ( ${ }^{\circ}$ ) | +/-0.005552 |
| Repeatability ( ${ }^{\circ}$ ) | +/-0.0002 |
| Reversal Error ( ${ }^{\circ}$ ) | - |
| Velocity Range ( $\% / \mathrm{sec}$ ) | $0.02 \ldots 360$ |
| Flatness ( $\mu \mathrm{m}$ ) | +/- 2.5 |
| Eccentricity ( $\mu \mathrm{m}$ ) | +/- 2.5 |
| Wobble ( $\mu \mathrm{rad}$ ) | +/-15 |
| Speed max. ( $\%$ sec) |  |
| TM-010 | 360 |
| Resolution Closed-Loop ( ${ }^{\circ}$ ) |  |
| AE-050, Angular scale (50-times interpolation) | 0.0002 |
| Winding Constant |  |
| Torque constant ( $\mathrm{Nm} / \mathrm{Ams}$ ) | - |
| Back EMF constant, peak value V/(rads/sec) | - |
| Electrical resistance at $80^{\circ}(\mathrm{Ohm})$ | - |
| Electrical inductance ( mH ) | - |
| Continuous current at $80^{\circ}$ (Ams) | - |

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| Material | Special Aluminium, black anodized |
| :--- | :---: |
| Weight $(\mathrm{kg})$ | 6 |

UPR-160 F Base \& Motors

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Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning environments down to 77 Kelvin.

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