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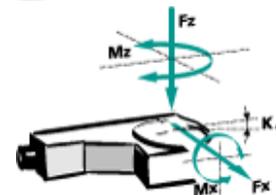
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◀ 3.044 ▶ **Rotation Stage RS-40**



Key features

- Clear aperture 20 mm
- Worm gear drive
- Repeatability 0.005°
- Precision bearings
- Precise, smooth continuous 360° motion
- High precision four point-bearings
- Speed up to 7 °/sec
- Load up to 2 kg
- Reference switch integrated (Hall sensors HLS)



F A C T S

Load Characteristics	Fx (N)	Fz (N)	Mx (Nm)	Mz (Nm)	ka (µrad/Nm)
DC-B-009	10	20	2	0.2	270
2Phase-010	10	20	2	0.2	270

D E S C R I P T I O N

back

The **NEW Rotation Stage RS-40** are mainly applied in the range of industrial measuring techniques, vision control, micro-laser application and for precision micro-handling. The body is fabricated from a special, high-rigidity tempered Al-alloy. A precision bearing guarantees a perfectly smooth move. The RS-40 rotation stages have nearly zero backlash worm gear reduction. All RS-40 motorized rotation stages are equipped with reference switches (Hall sensors HLS). Drive options such as DC, - 2-phase-micro-step (SMC-series) motors are available.



Technical data

Rotation Range (°)	360, endless
Worm gear reduction	90:1
Accuracy (°)	+/- 0.2
Repeatability (°)	+/- 0.005
Reversal Error (°)	+/- 0.04
Velocity Range (°/sec)	0.001 ... 7
Flatness (µm)	+/- 5
Eccentricity (µm)	+/- 5
Wobble (µrad)	+/- 35

Speed max. (°/sec)

<u>DC-B-009</u>	7
<u>2Phase-010</u>	5

Resolution Open-Loop (°)

<u>2Phase-010</u>	0.0011 (SMC) 0.0022 (FS)
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Resolution Closed-Loop (°)

<u>RE-010</u> , Rotary encoder	0.00026
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Current (Amps) / Voltage (Volts)

<u>DC-B-009</u>	0.16 12
<u>2Phase-010</u>	0.25 -

Material

Special aluminium, black anodized

Weight (kg)

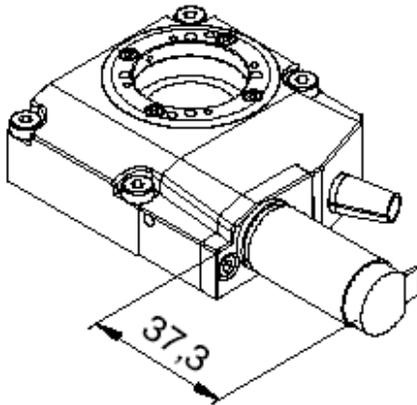
0.65

Note: (SMC): Micro-Step Mode, (FS): Full-Step 2Phase

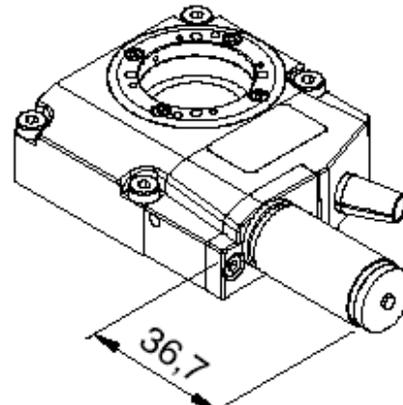
More info: Detailed information, concerning the motor and connectors, see: Appendix

MOTION CONTROL Systems Positioners MiniPos DirectDrives Controllers ManPos Accessories Vacuum MAC PhotonX M A C

RS-40 Motors



DC-B-009



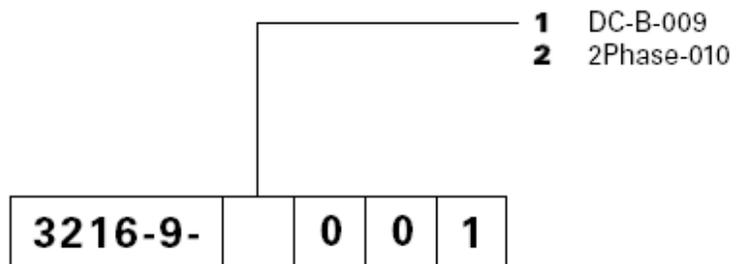
2Phase-010

MOTION CONTROL Systems Positioners MiniPos DirectDrives Controllers ManPos Accessories Vacuum MAC PhotonX M A C

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RS-40 Ordering Information

Order No.



Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning components and systems for research and industry. We are experts in vacuum, ultra-high vacuum, clean room, and extreme climate environments down to 77 Kelvin. ▶▶

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