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

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→ 4 2.150 ▶ Rotation Stage DT-80







FACTS

Load Characteristics	Fx (N)	Fz (N)	Mx (Nm)	Mz (Nm)	ka (μrad/Nm)
DC-B-029	10	20	5	0.1	150
2Phase-041	10	20	5	0.1	150

DESCRIPTION

The **Rotation Stages DT-80** of the structural series 80 are a low cost alternative to the MICOS High-Precision-Rotation Stages DT-65 and PRS-110. They are mainly employed for simple positioning and enlarge the offer of our low cost translation stages of

the structural series 80. The continuous aperture of 40 mm diameter is suitable for many applications in the range of microscopy. The screw worm, -gear wheel combination is prestressed with zero-backlash and produces a smooth move. Rotation stages of the structural series 80 directly driven by DC- and 2-phase-microstep (SMC-series) motors are offered. Motorized rotation stages are equipped with a mechanical reference-limit switch. More Pictures ...



1.7 | -

Technical data

2Phase-041

Rotation Range (°)	360, endless
Worm gear reduction	180:1
Accuracy (°)	+/- 0.04
Repeatability (°)	+/- 0.008
Reversal Error (°)	0.01
Velocity Range (°/sec)	0.001 45
Flatness (µm)	+/- 50
Eccentricity (µm)	+/- 30
Wobble (µrad)	+/- 100
Speed max. (°/sec)	
DC-B-029	45
<u>2Phase-041</u>	30
Resolution Open-Loop (°)	
<u>2Phase-041</u>	0.001 (SMC) 0.01 (FS)
Resolution Closed-Loop (°)	
DC-B-029, Rotary encoder feedback	0.001
Current (Amps) / Voltage (Volts)	
DC-B-029	0.46 30
0.01	4 7 1

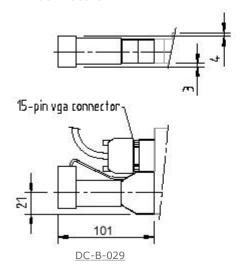
Material	black anodized
Weight (kg)	0.8

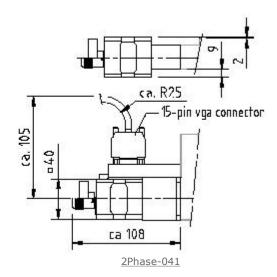
Note: (SMC): Micro-Step Mode, (FS): Full-Step 2Phase

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

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

DT-80 Motors





DT-80 Motor & Controller



Motor & Controller System with DT-80

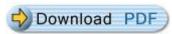
VT-80 Motor & Controller

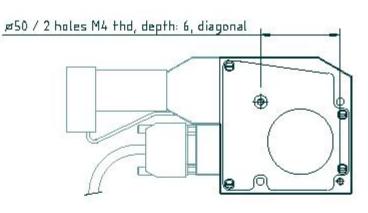


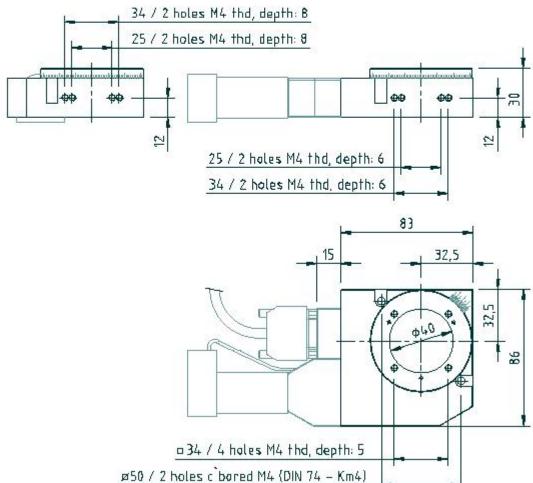
Motor & Controller System with VT-80

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DT-80 Base



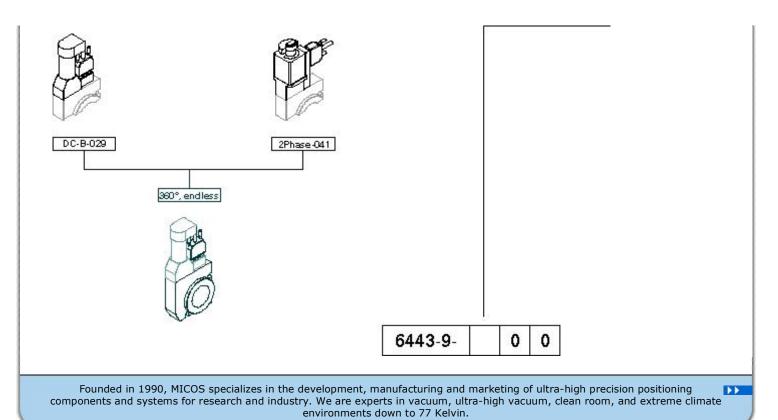




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DT-80 Ordering information

DC-B-029 **1** 2Phase-041 **2**



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MOTION CONTROL = Systems | Positioners | MiniPositioners | DirectDrives | Controllers | ManPositioners | Accessories | Vacuum

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