

## FACTS

Load Characteristics	Fx (N)	Fz (N)	Mx (Nm)	Mz (Nm)	ka (µrad/Nm)
<u>DC-B-041</u>	150	400	50	2.5	1
2Phase-070	150	400	50	2.5	1

## DESCRIPTION

The **Rotation Stages DT-120** are mainly applied in the range of industrial linear, vision control, micro-laser application and for high-precision microhandling. Especially significant is the large free centre hole diameter 120 mm of the rotation stages of the structural series DT-120. The body is fabricated from a special, high-rigid, tempered AIalloy. Two calibrated prestressed zero backlash precision-roller bearing couples guarantee smallest deviations of flatness and smooth move. A hardened and ground screw worm combined with a calibrated gear wheel guarantees a quiet smooth move. DT-120 with zerobacklash are delivered by MICOS. Standard the Rotation Stages DT-120 are equipped with two limit-, reference switches. The limit switch switch points can be user-friendly free configured. Drive variants such as DC- or 2-phasemicro-step (SMC-series) motors are available.



Technical data

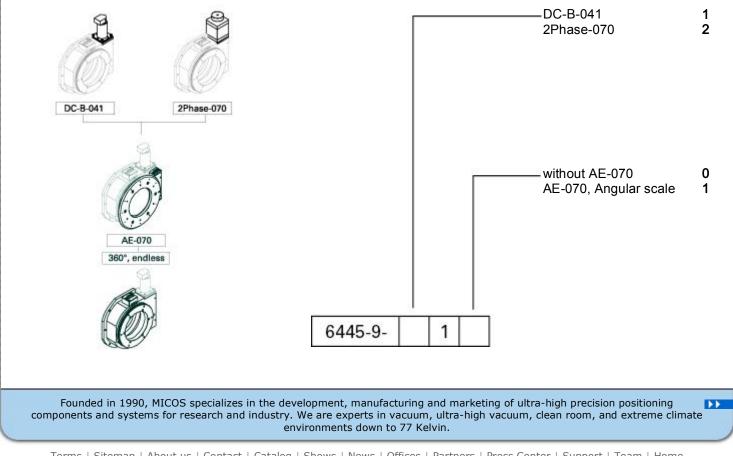
Rotation Range (°)	360, endless
Worm gear reduction	320:1
Accuracy (°)	+/- 0.003 0.02
Repeatability (°)	+/- 0.001 0.002
Reversal Error (°)	0.01
Velocity Range (°/sec)	0.001 50
Flatness (µm)	+/- 8
Eccentricity (µm)	+/- 8
Wobble (µrad)	+/- 80

Speed max. (°/sec)	
DC-B-041	50
2Phase-070	15

Resolution Open-Loop (°)	
2Phase-070	0.0005625 (SMC)   0.005625 (FS)

Resolution Closed-Loop (°)	
RE-010, Rotary encoder feedback	0.0005625

<u>DC-B-041</u>	3.8   24
2Phase-070	2.8   -
Material	Special Aluminium, black anodized
Weight (kg)	8
Note: (SMC): Micro-Step Mode, (FS): Full-Step 2/5P More info: Detailed information, concerning the mot	tor and connectors, see: Appendix
DT-120 Motors	ontrollers ManPos Accessories Vacuum MAC PhotonX M
TION CONTROL Systems Positioners MiniPos DirectDrives Co DT-120 Base	Travel range A (mm) Open-Loop 74.5 Closed-Loop 95
onnector for near encoder connector for motors	Closed Loop 55



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