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

Page

■ 4 2.170 ▶ Goniometer WT-90



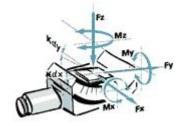






Key features

- Repeatability 0.00077121°
- Angular scale feedback
 - Tachometer combination
 - Hardened worm and gear drive
 - Precise, smooth continuous 90° motion
- Up to 30°/sec
 - Single-row ball bearings
- Special, tempered Aluminium
- Load up to 12 kg
- Module combination



FACTS

Load Characteristics	Fx (N)	Fz (N)	Mx (Nm)	Mz (Nm)	ka (μrad/Nm)
DC-B-031	50	120	2.5	12	25
2Phase-033	50	120	2.5	12	25

DESCRIPTION

The **Goniometer Stages WT-90** and WT-120 are designed for all tasks where conventional rotation stages cannot be employed due to limited space conditions. Typical applications are measuring tasks in the field of laser- and radiotechnology. The Goniometer Stages WT-90 and

WT-120 are well-suited to each other. Orthogonally mounted they have a common spacial center. WT-90 is equipped with a ground wire guiding. The ground and hardened screw worm-gear wheel combination produces a very quiet smooth move. Directly driven by DC-, 2-phase step motors high travel speed and resolution can be achieved. WT-90 Stages can be equipped with optical angular system. Resolutions up to 0.0003856 are standard offered. The Goniometer WT-90 is standardly equipped with two limit switches.



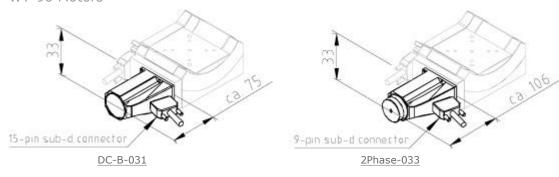
Technical data

rechinear data				
Rotation Range (°)	90			
Worm gear reduction	360:1			
Accuracy (°)	+/- 0.025 0.05			
Repeatability (°)	+/- 0.0005			
Reversal Error (°)	0.003856 0.02			
Velocity Range (°/sec)	0.001 30			
Wobble (µrad)	125			
Speed max. (°/sec)				
DC-B-031	30			
<u>2Phase-033</u>	15			
Resolution Open-Loop (°) 2Phase-033	0.001 (SMC) 0.005 (FS)			
Resolution Closed-Loop (°)				
RE-010, Rotary encoder	0.0005			
AE-060, Angular scale	0.0003856			
Current (Amps) / Voltage (Volts)				
DC-B-031	2 24			
2Phase-033	1.2 -			
Material	Special Aluminium, black anodized			
Weight (kg)	2.8			

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

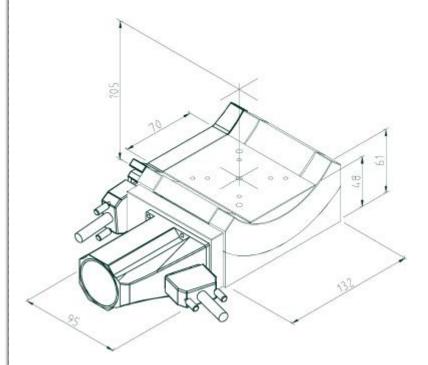
More info: Detailed information, concerning motor and connectors, see: Appendix

WT-90 Motors

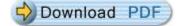


MOTION CONTROL Systems Positioners MiniPos DirectDrives Controllers ManPos Accessories Vacuum MAC PhotonX M A C

WT-90 Base



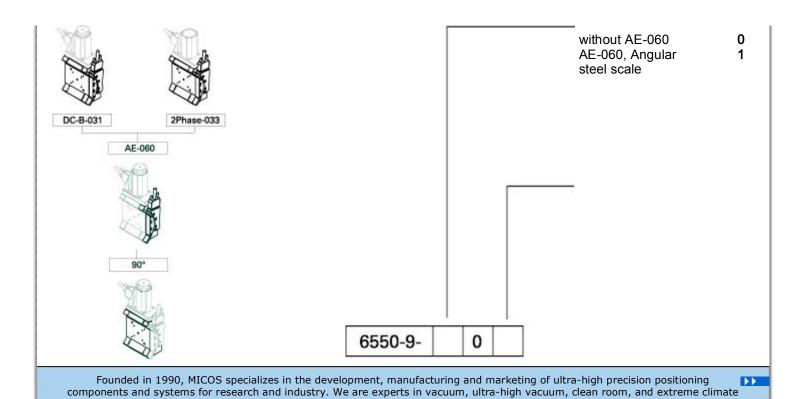
Rotation range 90°



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

WT-90 Ordering information

DC-B-031 **1** 2Phase-033 **2**



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environments down to 77 Kelvin.

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