



MTG5 Digital Three Axis Tilt Table

THREE AXIS TILT TABLE

The DMA MTG5 is an automatic three axis rotary tilt table used to test attitude/heading and inertial platforms. All the procedures are computer driven through a control unit.

It is composed by:

- Rectangular table for UUT (unit under test) fixing.
- Three motors (for the three axis) driven by a computerized control box
- Three position transducers (digital angle encoders with 0.03° resolution)
- Three digital angle encoders used for speed control
- Control box with LCD display and keyboard input
- RS232 port with high level command set to control all the tilt table functions by an external computer
- ± 360 degrees around vertical axis and ± 90 degrees around the other two axis
- speed regulation up to 20 deg/sec
- up to 26 test user programmed profiles can be stored in internal memory each with 99 step

FEATURES

- Vertical (yaw) axis : ± 360 degrees
- Pitch and Roll axis: ± 90 degrees
- Control accuracy: better than 0.07 degrees
- Rate resolution 0.1 degrees /sec
- Maximum rate 1200 degrees/min
- Control unit with LCD display and keyboard
- RS232 serial transmission data
- Home position finder
- Position, speed and acceleration separately for three axis setting
- Limits angle setting avoids instruments damage even with operator errors
- Universal power supply: 120 to 240 VAC
- Weight 75 Kg

On power-up the program starts searching the home position and when reached the main menu appears giving the various options: 1, 2 or 3 axis control, rate of turn test, etc.

The tilt table can be controlled through the dedicated control unit or by an external computer connected via RS232.

SPECIFICATIONS

Parameter	Range		Resolution	Accuracy	
	Measure	Control		Measure	Control
Vertical axis angle (yaw)	+/- 360 °	+/- 360 °	0.03 °	0.07 °	0.07 °
Angular speed	0.1 ÷ 20 °/sec	0.1 ÷ 20 °/sec	0.1 °/sec	0.1 °/sec	0.1 °/sec
Pitch & roll axis angle	+/- 90 °	+/- 90 °	0.03 °	0.07 °	0.07 °
Angular speed	0.1 ÷ 20 °/sec	0.1 ÷ 20 °/sec	0.1 °/sec	0.1 °/sec	0.1 °/sec

Note

Tables to custom specifications can be supplied on request.

FEATURES

Stand levelling range by air bell with adjustable screws
 Axis lock: fail safe microswitches
 Autozero
 Angular position control
 Speed control
 Acceleration control
 Continuous movement between two angular positions control for each axis
 Control features mixing
 RS232 serial communication

PHYSICAL SPECIFICATIONS

Dimensions: 25" x 30" x 15"
 Platform size : 400 x 400 mm (15.7")
 Weight: 165 lbs

PROGRAMMABILITY

Up to 26 test user programmed routines each with 99 steps programmable in time, position and speed can be stored in internal memory
 High level RS232 commands set allows control of MTG5 with external PC

POWER SUPPLY

Universal: 90 to 220 Vac

Note: --- Specifications subject to change ---



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