FDA-115

The MFH-1DD-M1 is a single-axis rate table intended for use during the development, production, in-process testing,calibration, and final inspection of inertial components and instruments, such as MEMS sensors. The product is designed with emphasis on the userfriendliness and economic pricing.
T-Nut levelers, the rate table can be aligned in two directions relative to the horizan.

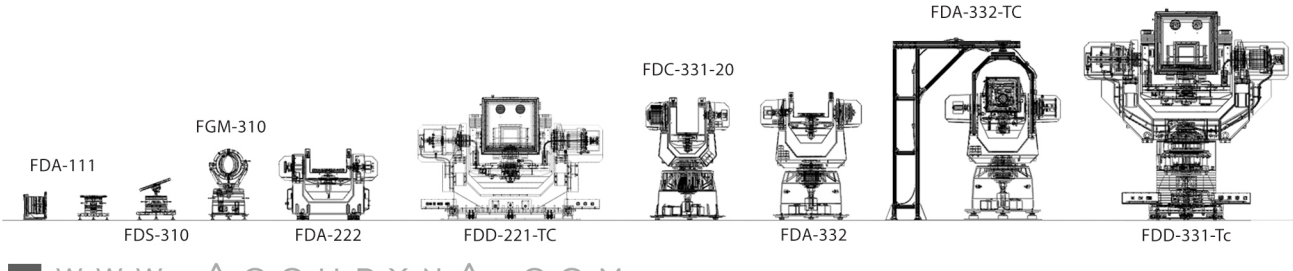
All test tables feature a highly reliable, direct-drive servo system. This system consists of a drive assembly, a servo controller and a power amplifier. The drive assembly comprises a direct-drive brushless

torque motor, an optical encoder, a precision-machined tabletop, and a slip ring assembly.
Precision, pr e-loaded angular contact ball bearings permit load capacities up to 50kg. All systems are provided with required interconnecting cables and mating connectors for customer interface.

Control and readout functions are performed by the MFH controller. The MFH controller can be configured as determined by the customer's application. It is capable of providing position, rate and acceleration control either manually from the GUI or remotely through the RS232/RS422 computer interfaces. UDP (Up to 4 kHz) can be an option.

Available options are special slip ring configurations, custom designed table tops and environmental test chambers.

A wide range ways slip ring connects the Unit Under Test (UUT) to the table base. The lines terminate in two connectors on the table top and the corresponding connectors on the table base.



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FDA-115 PARAMETERS

TABLE-TOP SPECIFICATIONS

Max UUT weight	50 kg
Max UUT diameter	H: 250 mm,D: 400 mm
Max UUT center of mass	100 mm
Table top flatness	0.05 mm
Table top material	Aluminum Alloy (Hard Anodized)
Table top diameter	Ø 450 mm
Electrical lines to UUT	60 Lines @ 2A, 10 Lines @ 5A

RATE TABLE SPECIFICATIONS

Degrees of freedom		
Angular freedom		Continuous
Position		
Accuracy	arcsec	< ±2 p-p
Repeatability	arcsec	< 1
Command resolution	0	0.00001
Rate		
Range	°/s	< ± 1500
Resolution	°/s	0.0001
Accuracy & Stability	°/s	0.001 (10 ppm)
Dynamic		
Maximum torque	N.m	110
Bandwidth (-3db, no load)	Hz	100
Acceleration (no load)	$°/s^2$	> ± 10.000
Orientation error		
Wobble	arcsec	< ± 5
General		
Operating temperature	°C	22 ± 3
Storage temperature	°C	0 to 50
EMC/EMI considerations		According to IEC 61000-5
Rate table dimensions	mm	(L × w × H) 460 × 460 × 650
Rate table weight	Kg	120
Control rack dimensions	mm	(L × w × H) 540× 430 × 180 (4U)
Control rack weight	Kg	20
Motor type		AC Direct Drive
Power supply		380 VAC ± 10 % , 50 Hz
Software		
Computer interface		RS232, LAN
Language of Software		English

The specifications identified in this data sheet are representative of standard systems. To satisfy customer specific requirements ACCUDYNA is able to design systems with specifications that are increased or decreased relative to standard systems.