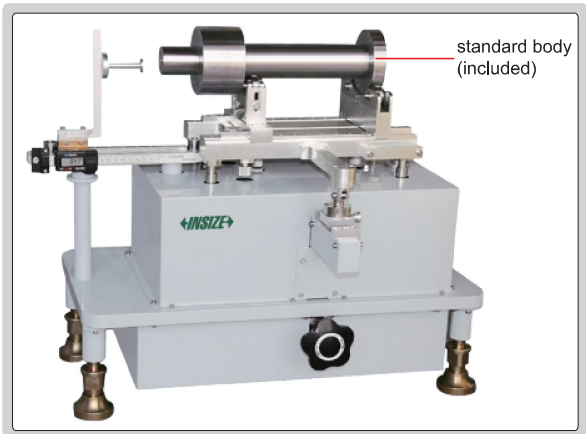
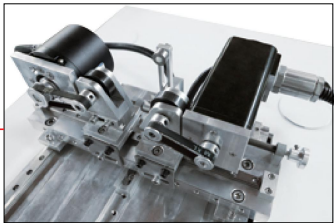
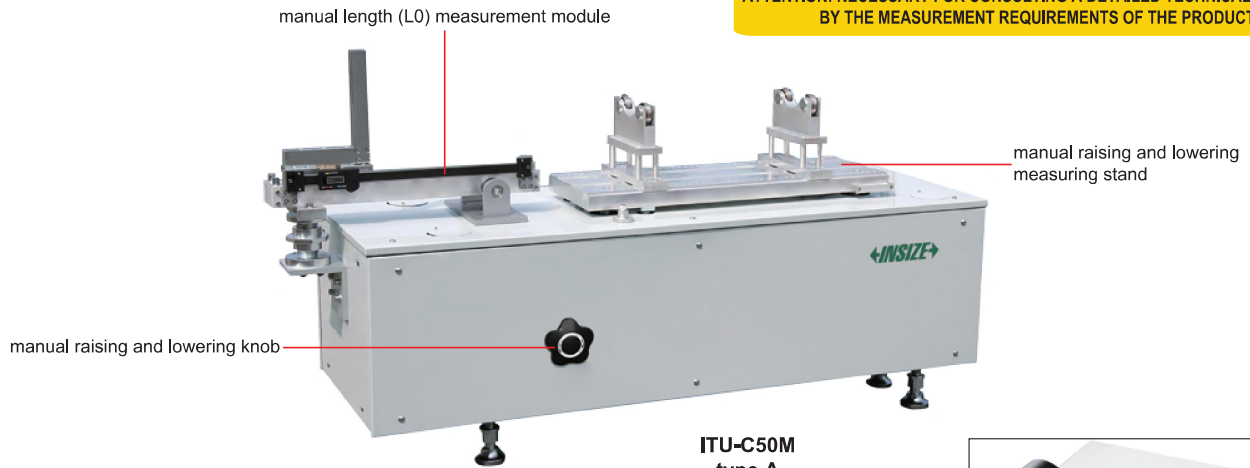


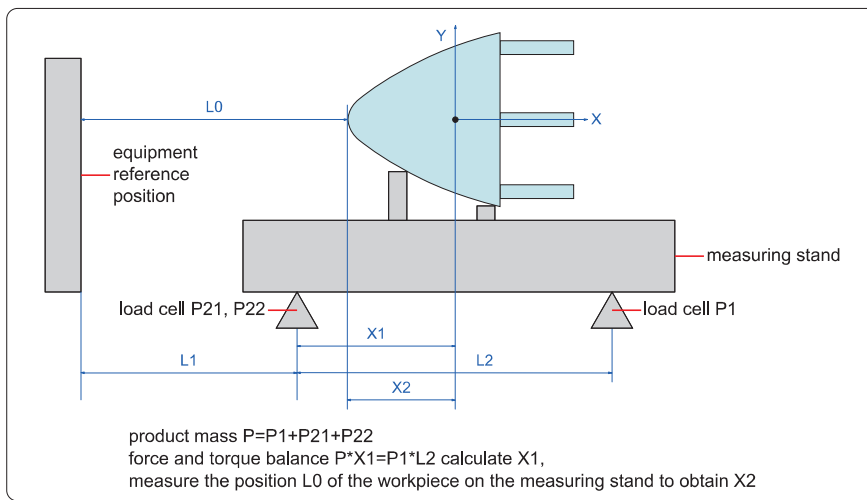
# HORIZONTAL MASS AND CENTER OF MASS TESTING MACHINES

CUSTOMIZED ACCORDING TO WORKPIECES

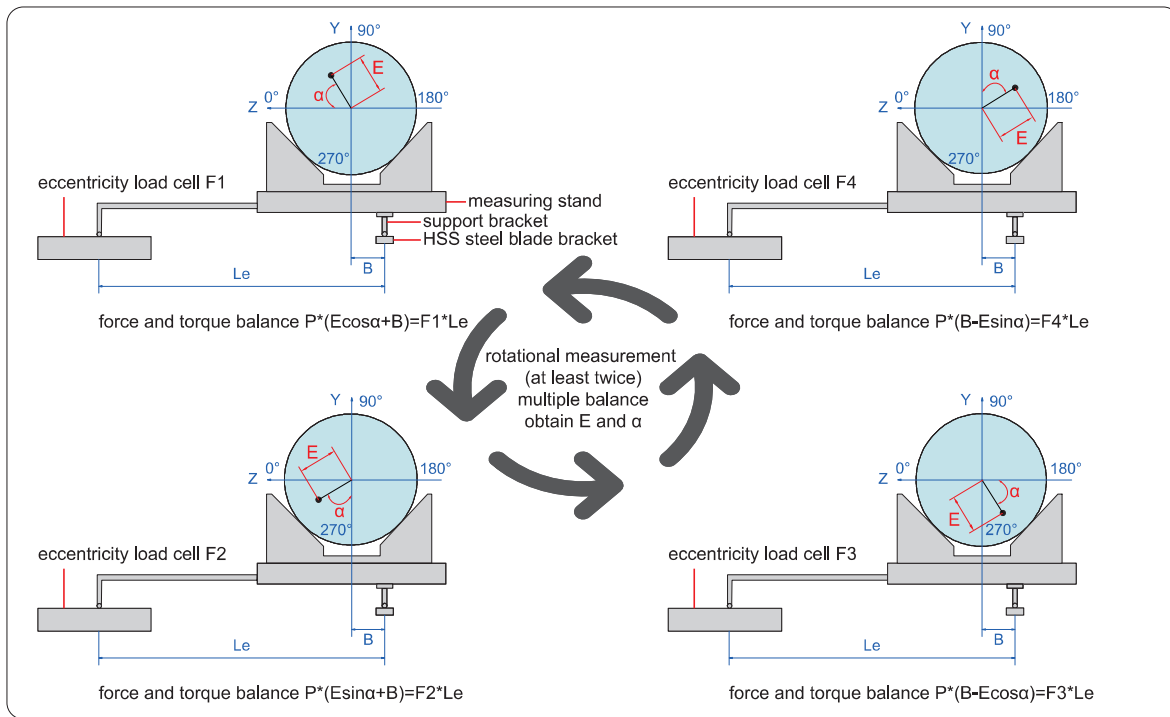
ATTENTION: NECESSARY FOR CONSULTING A DETAILED TECHNICAL SOLUTION BY THE MEASUREMENT REQUIREMENTS OF THE PRODUCT



- Principle of force and torque balance measurement
- Suitable for 3D center of mass measurement of cylindrical and conical rotating objects, it can also be used for irregular objects after establishing a reference point on the machine
- Using a traditional three-point sensor force measurement method, the mass and 3D center of mass are determined in a single measurement
- Simple in design, economical and practical, and widely used
- For automatic machines: high-efficiency measurement, automatic raising and lowering of the measuring stand and automatic rotation of the workpiece
- Measurement software was developed in the VB 6.0 programmer and includes calibration and data measurement components
- Stored data uses a standard Access database structure, facilitating data integration and analysis



measurement model for product mass P and axial center of mass X2  
 (the model is viewed from the side of the product, from front to back)



Y and Z axis radial center of mass measurement model  
 (the model is viewed from the tail end of the product to the head end)

### SPECIFICATION

Code	ITU-C50M	ITU-C500A
Type	A (manual measurement)	B (automatic measurement)
Maximum mass test range *	50kg	500kg
Accuracy of mass *	$\pm 0.05\%FS$	$\pm 0.03\%FS$
Accuracy of center of mass *	$\Delta X \leq 0.1mm$ ; $\Delta YZ \leq 0.1mm$	$\Delta X \leq 0.08mm$ ; $\Delta YZ \leq 0.08mm$
Applicable workpiece length range *	covering the length range of the customer's workpieces	
Applicable workpiece diameter range *	covering the diameter range of the customer's workpieces	
Temperature and humidity	0~40°C, 20~90%RH	
Power supply	AC 220V $\pm 10\%$ , 50Hz $\pm 2\%$	
Electromagnetic environment	compliant with the EMC Directive 2004/108/EC	
Vibration environment	certical Z-axis vibration level $\leq 75dB$	

\* Customized adjustment based on workpiece and specific requirement

### STANDARD DELIVERY

Product testing fixture	1 set
Measuring stand	1 pc
Raising and lowering module	1 set
Leveling and auxiliary leveling module	1 set
Coordinate transformation module	1 set
Eccentricity test module	1 set
Center/eccentricity of mass conversion module	1 set
Length measurement module	1 set
Data acquisition module	1 set
Measuring software	1 set
Testing machine base	1 pc
Standard body	1 pc