

AXIAL TORSION TEST SYSTEM

BI-7050

BI-7050 Axial-Torsion Servo-Hydraulic Testing System meets the challenging demands of various static and dynamic test requirements. The system carries out axial, torsion, or combined axial-torsion tests. With the actuator in the upper crosshead and a lower t-slot table, the system makes an ideal platform for testing a variety of medical devices, biomaterials, advanced materials, and other components testing.

FEATURES

- Twin column high stiffness, precision aligned load frame with actuator mounted on top movable crosshead
- Double-acting servo-hydraulic actuator with force capacity up to ±25 kN and torque capacity of ±250 Nm
- 100 mm of usable axial stroke and ±45° of rotation
- Designed for both dynamic and static testing on a variety of materials and components
 Choice of hydraulic configuration and dynamic performance to suit application
- Extra-height frame option for testing longer load strings
 Adjustable upper crosshead with hydraulic lifts and manual locks fitted as standard for easy adjustment of daylight
- Electronically servo-controlled variable flow, variable pressure, low noise, energy efficient pump
- Digital servo controller with 6 kHz, 32-bit digital closed loop control and 24 bit data acquisition
- User friendly MTL-windows software with dedicated application software

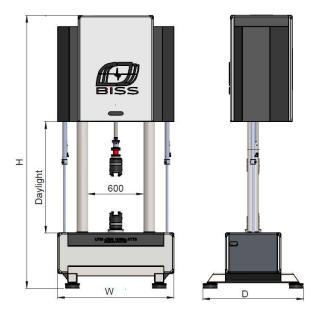
APPLICATIONS

- Tensile, compression, LCF, fracture mechanics clevis for crack growth and fracture toughness studies or flexure fixtures for bend tests
- System is also suitable to test under high or low temperatures and with customized grips to test complex specimen geometries



Specifications

		BI-7051	BI-7052	BI-7053
Dynamic Load Capacity	kN	25	50	100
Configuration		Top mount actuator Bottom mount actuator		
Torsional Capacity	Nm	250	1000	2000
Actuator Total Stroke	mm	150		
Angle of Rotation	mm	±45 deg with a tolerance of ±5 deg.C		
Frame Stiffness	kN/mm	500	1000	2000
Loadcell Accuracy		+/-0.5% down to 1/500 th of loadcell capacity		
Column Clearance	mm	600	600	600
*Daylight Opening	mm	1200	1500	1500
System Dimensions H x W x D	mm	2950 x 1260 x 1100	3250 x 1400 x 1400	3250 x 1400 x 1400
Max. Frame Weight	kg	1500	1600	1800



NOTE

Please refer to individual brochures for information on the selected power packs & accessories Custom configurations available CE certification on Demand

Specifications are subject to change without prior notice





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Axial Torsion Test System V1