

HIGH FORCE FATIGUE TEST SYSTEM

BI-7030

The Bi-7030 High Force Fatigue Testing Machines are servo-hydraulic solutions built for testing materials or components at large forces using a four- column high stiffness loadframe and a spacious T-slot bed. They are typically used for static and fatigue testing of metals, wire ropes, rebars, rails, concrete and aerospace components.

FEATURES

- Force Rating 600, 1000, 2000 and 3000kN
- Actuator stroke 150 mm with 0.1 resolution
- Mechanical/hydraulic/pneumatic anti vibration pads
- Rated up to 30Hz cyclic operations
- Choice of hydraulic configuration and dynamic performance to suit application
- Adjustable upper crosshead with hydraulic lifts and locks for easy adjustment of daylight
- Compatible with a large range of grips, fixtures, and other accessories
- Touch screen/Operator control panel for basic machine operation viz., hydraulics on/off, low/high pressure, E-stop, actuator jogging up/down slow/fast, cross head height adjustment & lock/unlock, hydraulic grips operation etc.
- Intelli mount feature to protect the sample during test set-up. System works in stroke control mode to adjust the actuator to maintain load within a window specified by user at the time of specimen loading.

APPLICATIONS

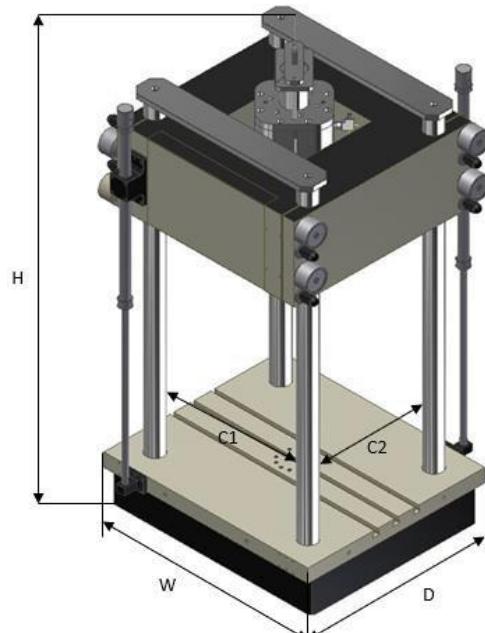
- Tension/Compression
- Ductile and Brittle Fracture
- Fatigue crack propagation
- High-Cycle Fatigue (HCF)
- Elastomer properties
- Flexural strength tests



SPECIFICATIONS

Model		BI-7031	BI-7032	BI-7033	BI-7034	BI-7035	BI-7036	BI-7037				
Dynamic Load Capacity	kN	500	600	1000	1500	2000	3000	6000				
Total Actuator Stroke	mm	150/200/250										
No. of Columns		4										
Actuator Position		On Top Crosshead										
Frame Stiffness	MN /m	2500	2500	4000	6000	8000	10000					
Loadcell Accuracy		$\pm 0.5\%$ of reading as per ISO 7500-1			$\pm 1\%$ of reading as per ISO 7500-1							
*Cycling Frequency	Hz	0-35										
Column Clearance, C1/C2	mm	800/1000										
*Daylight Opening	mm	1200										
Electric Supply		380/400/415 VAC, 3 Ph, 50/60 Hz										
System Dimensions H x W x D	mm	3100 x 1000 x 1065	3100 x 1000 x 1065	2800 x 1300 x 1500	4100 x 1500 x 2000	4100 x 1500 x 2000	5500 x 1500 x 2000					
Max. Frame Weight	kg	7400	7500		8500	10300	14000					

*Maximum Between Load Cell and Actuator at zero position



NOTE

Please refer to individual brochures for information on the selected power packs & accessories.
 Optional vertical & horizontal daylights are available up to 2500mm and 800mm respectively
 Custom configurations available
 CE certification on Demand
 Specifications are subject to change without prior notice

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