

DAMPER TEST SYSTEMS

TESTING RAILWAY SHOCK ABSORBERS BI-7080R

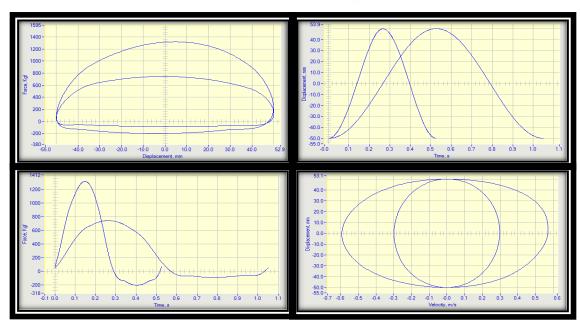
The BI-7080R is meant to test shock absorbers used in the tilting position, as used on railway coaches. The machine is used to ensure that assembled parts meet specified performance specifications. It is the result of over seven years of R&D with a focus on harmonizing tilt test requirements.

FEATURES

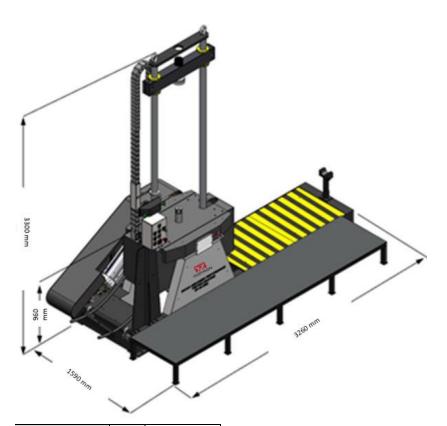
- Two column load frame with a bottom mount actuator
- Hydraulic/Manual tilting option for the load frame to test shox/strut at user defined angle between 0 to 90°.
- Evaluation of seal friction, gas charge, static and dynamic response
- Quick change jaw faces and spacers to switch between parts
- Proprietary low noise, servo-controlled pump for energy efficiency. Down to about 40% of most conventional pumps
- Contamination insensitive servo-hydraulics with readily available COTS spares
- Dust proof air-conditioned enclosures for electrical and electronics



TEST RESULTS



SYSTEM DIMENSIONS



		BI-7085R
Dynamic Load Capacity	kN	50
Total Actuator Stroke	mm	150
Column Clearance	mm	600
Vertical Day- light measured b/w actuator and loadcell	mm	1500
System weight	kg	1400

COMMON SPECIFICATIONS

Actuator stroke: 150 mm as standard

Displacement resolution: 0.5 $\mu\text{, optional 0.1}\,\mu\text{m}$

Column clearance: 600 mm

Operating / working pressure: 210bar

Frequency range of operation: 0.001 to 200 Hz

Hydraulic Power Supply Voltage Options

380/400/415 VAC, 3 Ph, 50/60 Hz Extra vertical daylight options available

24-bit analog data acquisition, 32-bit digital encoder inputs and data logging,

40-bit digital servo-loop update

Offers accuracy of $\pm~0.5\%$ (optionally $\pm0.25\%)$ of read out value on stroke, load & channels

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. CE certification on Demand

Specifications are subject to change without prior notice

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