

BISS offers SP-00-604 Ball Joint Test System for durability and performance evaluation of ball joint system by subjecting the specimen to tilt, rotation and axial loads. Servo torque motor, servo hydraulic linear actuators, customized grips, fixtures, and transducers simulate the real test conditions with the help of BiSS 2370MS controller.

Standard features

- Two 10 kN, +/-150 mm linear actuators
- 1kN-m servo hydraulic rotary actuator
- Suitable for static and dynamic testing
- 2370MS digital controller for synchronous multi-axis control and data acquisition
- "Green" highly efficient hydraulic power pack



Specifications

Rotary actuator (1 No)	Torque: 1 kNm Angular displacement: +/- 50° Includes 1 kNm torque cell and suitable digital position encoder
Linear actuators (2 Nos)	Double acting double ended +/- 10 kN force rating and +/-150 mm stroke. Includes axial load cell of 10 kN and suitable position measurement LVDT
2370MS Controller	Control channels: 3 channel of servo control Input channels: 9 Performance: Typical servo-loop update and DAQ frequency up to 5 kHz
Hydraulic power pack	Servo-controlled with flow of up to 200 LPM Operating pressure: Up to 210 bar. Power consumption: 10 to 80 kVA through "flow on demand" servo control
Environmental Chamber (Optional)	Size: 1000 mm x 500 mm x 500 mm (Internal) Temperature range: -40 °C to 120 °C Accuracy: +/- 3 °C Average rate of rise / fall with load: 5 °C /min over entire range
Muddy water (Optional)	Rate of spray: 4 lpm Tank capacity: 100 L
Total weight of rig	2.5 Ton
Foot print:	L X W X H = 2.5 x 1.5 x 1.5 m

Applications

- Oscillation angle test
- Torque test
- Rigidity test
- Extrusion and drawing strength test
- Ball stud static strength test
- Fatigue strength test
- Service temperature abrasive durability test
- Muddy water durability test
- Dust cover Ozone deterioration, low temperature and heat resistance test
- Optional testing at low and high temperatures up to -40 °C and 200 °C respectively.