# CV Joint Test System

SP-00-603

BiSS CV Joint Test System for constant velocity testing as per SAE J 2028. The test setup evaluates the quality of CV joints by simulating the actual movements as in automobiles with BiSS 2370MS controller.

The two mounting blocks bolted on the frame support a hydraulic motor and a torque load cell coupled with transducers for precision measurement and customized grips to hold the test specimen. The mounting blocks have provision to rotate (+/-45°) and also to move to and fro adjusting to the varying lengths of specimen

## Standard features

- Hydraulic Torque Motor
- Torque load cell
- Suitable for static and dynamic testing
- “Green” highly efficient hydraulic power pack
- BiSS 2370MS controller for synchronous control and data acquisition


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## Specifications

| | |
|---|---|
| **Hydraulic motor** | **Torque:** 1 kNm<br>**Speed:** 1000 rpm<br>Includes torque cell, 1 kNm and suitable digital position encoder |
| **2370MS Controller** | **Control channels:** 1 channel of servo control<br>**Input channels:** 2<br>**Performance:** Typical servo-loop update and DAQ frequency up to 5 kHz |
| **Hydraulic power pack** | Digital servo-control with flow of up to 200 LPM<br>**Operating pressure:** Up to 210 bar.<br>**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)<br>**Temperature range:** -40 °C to 200 °C<br>**Accuracy:** +/- 1 °C<br>**Average rate of rise / fall with load:** 1 °C /min over entire range |
| **Total weight of rig** | 1.5 Ton |
| **Foot print:** | **L X W X H =** 2.5 x 1 x 1.2 m |
| **Customize options are available.** | |

## Applications

- Articulation torque test to measure the torque required to rotate the shaft, when articulated at any point between 0 to 50 degrees
- Measures backlash of the joint, maximum articulation angle, maximum articulation angle and force at any articulation angle from 50 degrees
- Optional testing under cold temperatures up to -40 °C
- Optional testing under hot temperatures up to 200 °C
- Radial expansion measurement

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