

ARTICULATION TORQUE TESTING MACHINE

PRODUCT DATASHEET



PRECISION TORQUE VS ANGLE MEASUREMENT

The JRAGRAU Articulation Torque vs Angle Measuring System is designed for accurate evaluation of torque behavior across controlled angular movement. Engineered with servo-driven motion control and high-precision torque sensing, the system is ideal for laboratory and production testing of articulation mechanisms, ensuring reliable torque, angle, and breakaway measurements under repeatable conditions.

KEY FEATURES

- Servo motor driven articulation control
- Clockwise and counter-clockwise torque measurement
- Integrated OK / Reject indication with cycle monitoring

APPLICATIONS

- Automotive articulation testing
- Component durability and cycle testing
- Torque-angle characterization laboratories

TECHNICAL SPECIFICATIONS

PARAMETER	METRIC (SI)
Torque Capacity	25 Nm / 50 Nm
Torque Resolution	0.1 Nm
Maximum Angle	25 Degree
Angle Resolution	0.1 Degree
Accuracy	±0.5% of reading
Measuring Parameters	CW, CCW, Breakaway Torque
Operating Parameters	Swing angle, number of cycles, OK/Reject

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SYSTEM CONFIGURATION

- Rigid industrial test frame
- Embedded JRAGRAU interface unit
- Lab-grade instrumentation layout

Motor: Servo Motor (Invet Make)

Torque Sensor: JRAGRAU Make

HMI: Invet (Tabular data display)

PC: HP, 1 TB HDD, 6 GB RAM (Lab testing)

ELECTRICAL & INTERFACE

LABEL	VALUE
Power Supply	220 V AC
Interface Unit	Embedded System – JRAGRAU Make