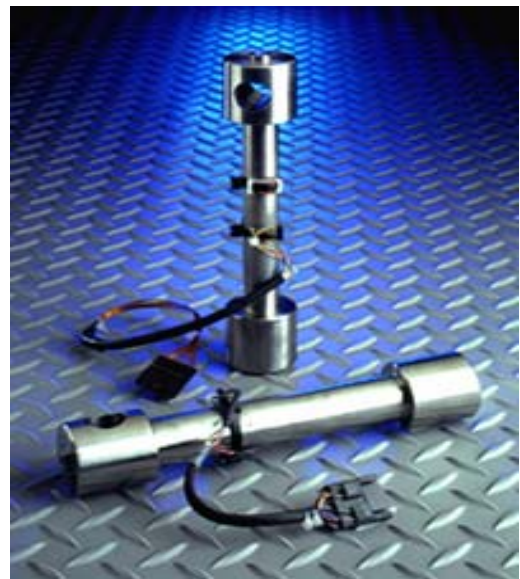


Simplifies Retrieval of MOV Test Data

The Easy Torque-Thrust™ sensor, by CRANE Nuclear, enables users of CRANE Motor Operated Valve (MOV) diagnostic systems to easily perform motor operated valve testing while ensuring accuracy in test results.

Mounted on the valve stem, the Easy Torque-Thrust™ sensor captures the data, in both the open and closed direction, for the entire length of the stroke. The sensor captures stem thrust data — plus torque data. It uses a single cable that attaches directly to the diagnostic system and can be connected only one way, ensuring that the sensor's torque and thrust traces are never confused.

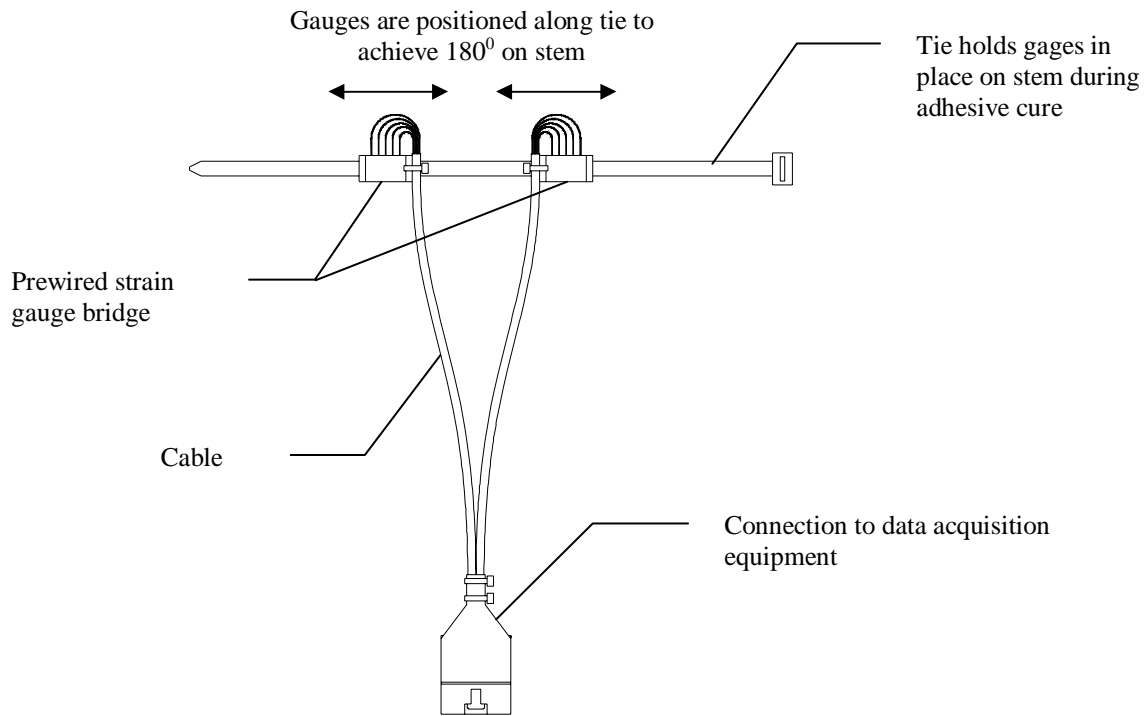
Easy Torque-Thrust Cell (ETT)



Operational Benefits

- Adaptable for various stem diameters 3/4 "to 6"
- Individual thrust and torque outputs
- Thrust accuracy of 8%; Torque accuracy: 9% (torque measured in the presence of thrust)
- Comprehensive error analysis provided
- Failure Mode and Effects Analysis available to support nuclear plant installation
- Designed for stem temperatures up to 250°F
- Sensor materials controlled to support permanent installation in nuclear plants
- Simple installation technique using standard tools
- Correct sensor positioning assured by sensor designed and mounting instructions
- Sensor bond integrity easily verified using CRANE Nuclear's torque and /or thrust calibrators

Easy Torque-Thrust™ (ETT) — Functional Diagram



The design eliminates the tedious and concentrated effort required to correctly wire gages into bridges and establish good solder connections to lead-out wires.

The Easy Torque-Thrust™ sensor has built-in bridges and connectors, strapped on a stem with a tie wrap that serves as a permanent retaining band. This reduces the time and effort to install on MOVs because of limited access to the stem.

To find out more, contact Tony Morris, Marketing Manger at 770.429.4706.

CRANE NUCLEAR

2825 Cobb International Blvd.
Kennesaw, GA 30152
PH: 770.424.6343 | 1.800.795.8013
FAX: 770.429.4752

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