

CALIBRATION ARMS AND LOAD MASSES FOR TORQUE SENSOR CALIBRATION

High-precision calibration arms and load masses for torque sensor calibration are calibrated in Norbar's laboratory, a leading manufacturer of torque measuring devices and sensors. Calibration arms, designed for static calibration of torque sensors and mechanical torque measuring devices, are built to minimize uncertainty factors affecting measurement results.

Calibration arms are machined to meet the highest ISO 2725 requirements, ensuring minimal play between the arm drive and the sensor. Due to sensor drive tolerances, alignment errors, and sensor rotational elasticity, the arm will inevitably tilt from horizontal when loaded.

To counteract this, the ends of the calibration arms are designed to prevent these uncertainty factors from affecting calibration accuracy.

Additionally, the calibration arms are engineered to direct the load to the center of the sensor drive, minimizing sensor bending and ensuring the arm does not fall off the sensor onto the floor, thereby improving workplace safety.

- Usable in both clockwise and counterclockwise directions.
- Interchangeable drives enhance versatility.
- No bearing-induced energy loss during loading.
- Balancing ensures maximum load transfer to the sensor.
- Calibration arms available for torque ranges from 0.04 to 5,000 Nm.

When calibrating sensors with arms, various load masses are used to generate a precisely known torque. When purchasing load masses, it is essential to know the exact local gravitational acceleration value to ensure correct calibration, guaranteeing the accuracy and validity of results obtained using calibration arms.

Furthermore, torque sensor calibration with calibration arms always requires a temperature-controlled environment.

