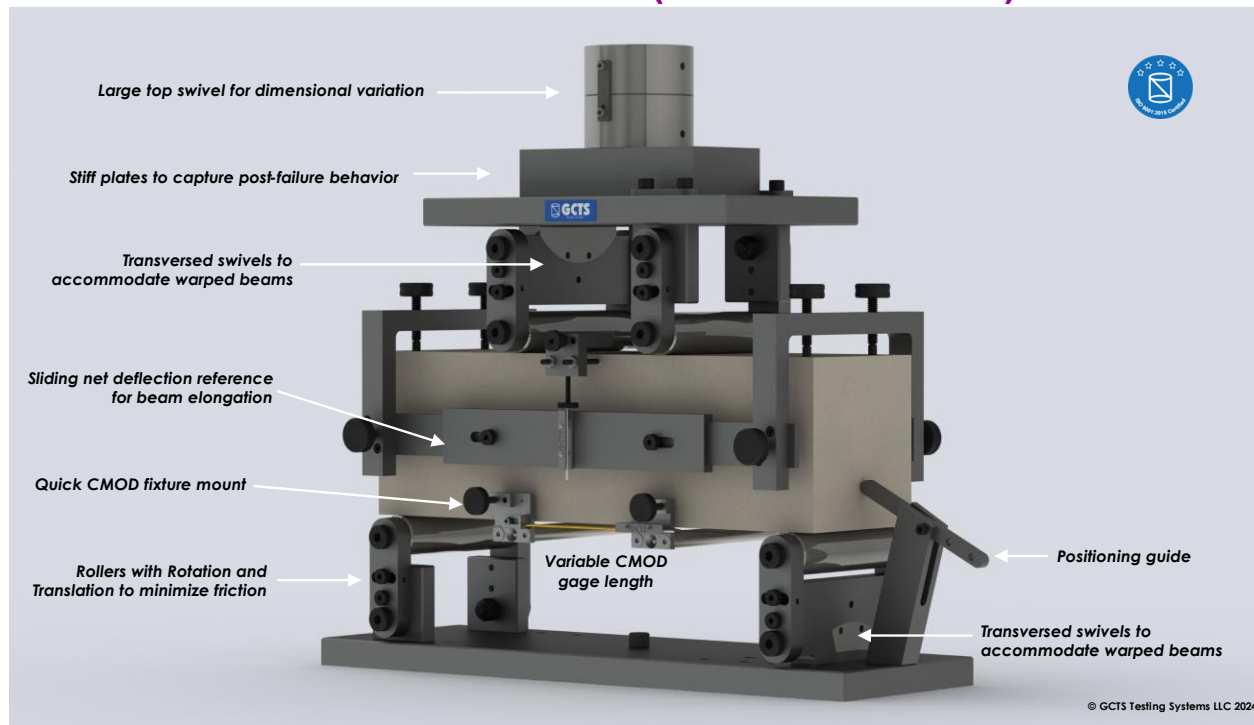


## Flexural Beam Fixture (GCTS CFB-150-ADV)



The GCTS CFB-150-ADV Flexural Beam Fixture is a cutting-edge solution designed for precise testing of concrete beams, especially those with irregularities and imperfect geometry. Engineered with advanced features, this fixture ensures uniform loading and accurate measurement of flexural properties, overcoming common challenges encountered in concrete testing.

### Key Features:

1. *Transversal Swivels:* Equipped with two transversal swivels at opposite beam supports, the fixture minimizes stress concentrations on warped beams, enhancing testing accuracy.
2. *Friction Error Reduction:* Supports can rotate without lateral displacement or with controlled lateral displacement, reducing friction errors and ensuring precise measurement.
3. *Optional Sensor Packages:*
  - CFB-NDEF Package: Measures average net deflection of the neutral axis during loading, providing precise data for analysis. Sliding reference support to allow for beam elongation.
  - CFB-CMOD Package: Measures average Crack Mouth Opening Displacement, ideal for assessing crack propagation and fracture toughness.
4. *Versatile Configuration:* Compatible with 150 x 150 mm or 100 x 100 mm concrete beams, the fixture supports both third-point and center-point loading configurations, offering flexibility in testing methodologies.

### Specifications:

- Maximum Load Capacity: 100 kN
- Beam Size Compatibility: 150 x 150 mm (6 x 6 inch) or 100 x 100 mm (4 x 4 inch)
- Loading Configurations: Third-point and center-point loading

### Conclusion:

The GCTS CFB-150-ADV Flexural Beam Fixture delivers unmatched precision in concrete beam testing. With its advanced features and versatility, it ensures accurate and reliable results, making it an indispensable tool for engineers, researchers, and educators in the field of concrete technology.