PRODUCT DATA SHEET

ISO 5173 Bend Fixture

Roller Bend Fixture for Weld Bend Tests

Built to ISO 5173 — Destructive tests on welds in metallic materials — Bend tests



OVERVIEW

Roller bend fixture for transverse and longitudinal bend testing of welded joints. The specimen rests on two support rollers whose spacing is set on a graduated base, and an interchangeable former of the required diameter bends it through the specified angle so the stretched surface can be inspected for defects.

KEY FEATURES

- Two support rollers with pinned, adjustable spacing bars
- Graduated base for fast, symmetric roller distance setting
- Set of interchangeable formers in several thicknesses and radii
- Replaceable roller sleeves for different roller diameters
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Weld bend test, roller-supported former
Test type / loading	Three-point bending with former; root, face or side bends
Specimens	Transverse or longitudinal weld bend specimens per ISO 5173
Formers	Interchangeable diameters sized to specimen thickness
Load capacity	100 kN typical; higher capacities on request
Fixture material	Hardened, corrosion-protected steel
Machine connection	Threaded spigot or pin adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Welder and procedure qualification
- Butt welds in steel and aluminum plate
- Weld cladding and overlay
- Fabrication and pressure-equipment QC

ABOUT THE STANDARD

ISO 5173 specifies methods for transverse root, face and side bend tests and longitudinal bend tests on butt welds, and on cladding, in metallic materials. The specimen is bent with a former of defined diameter until the required angle is reached; the tension surface is then examined for cracks or other imperfections against the acceptance criteria.

Ordering & customization: Specify specimen thickness and width, required former diameters, roller diameter and test machine connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-ISO5173-BF