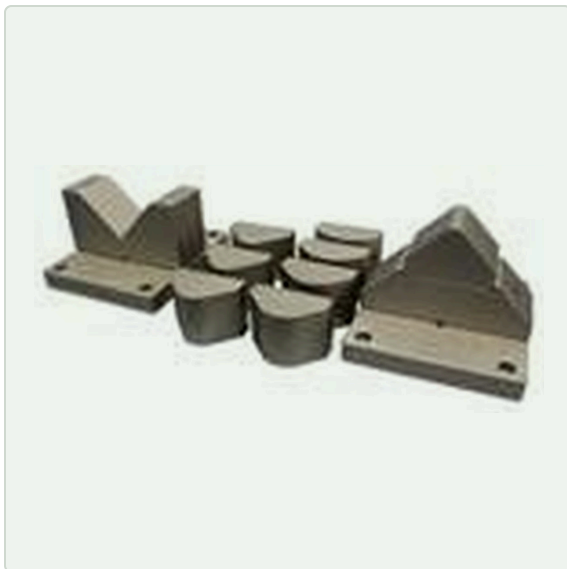


Metallic Bend Test Tooling Set

Built to ISO 7438 — Metallic materials — Bend test



OVERVIEW

Bend test tooling set for metallic specimens, comprising a V-block die, a wedge-type former and a range of interchangeable mandrels of different radii. The specimen is bent over the chosen former into the die by the test machine, then inspected for cracks on the outer surface.

KEY FEATURES

- Bolt-down V-block die with mounting holes for secure location
- Interchangeable mandrels in several radii to suit bend ratio requirements
- Wedge-type former for tight-radius and V-bends
- Hardened, ground working faces for repeatable bend geometry
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Bend test, V-block method, per ISO 7438
Test type / loading	Compression-driven bending to specified angle
Specimens	Round, square, rectangular or polygonal section test pieces
Load capacity	100 kN standard; higher capacities on request
Fixture material	Hardened tool steel
Mandrels	Interchangeable formers, radii to suit bend requirement
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Steel plate, sheet and bar
- Weld procedure and welder qualification
- Aluminium and non-ferrous products
- Mill and fabrication quality control

ABOUT THE STANDARD

ISO 7438 specifies a method for determining the ability of metallic materials to undergo plastic deformation in bending. A test piece of round, square, rectangular or polygonal section is bent without changing direction of loading until a specified angle is reached, using roller supports, a V-block or a clamp. The result is pass or fail based on visible cracking.

Ordering & customization: Specify specimen thickness and width, required mandrel diameters, bend angle, required capacity 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-ISO7438-BF