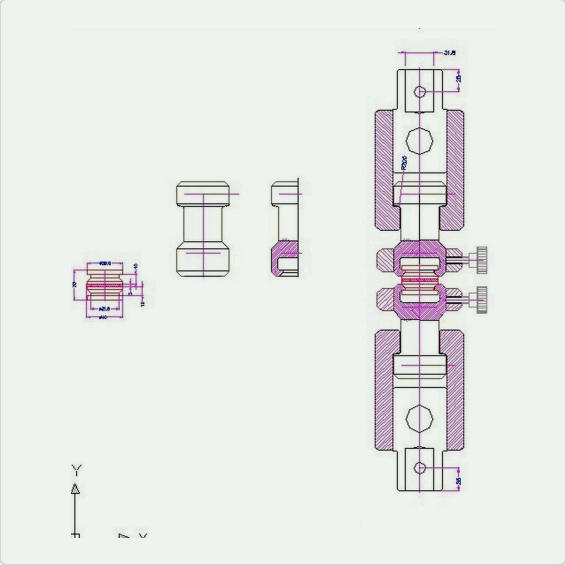
Two-Plate Adhesion Test Fixture for Rubber to Metal

Built to ISO 814 — Rubber, vulcanized or thermoplastic — Determination of adhesion to metal — Two-plate method



OVERVIEW

Tensile fixture for testing the adhesion of rubber bonded between two metal plates. Split holders with thumb screws engage the grooved end plates of the test piece, and pinned clevis housings with self-aligning seats pull the assembly apart along its axis so the bond sees uniform tension.

KEY FEATURES

- Split holders slide onto grooved end plates for quick loading
- Thumb screws secure each holder without tools
- Self-aligning housings keep the bond in pure axial tension
- Pin connections at both ends for easy installation
- Holder geometry made to suit customer test piece plates

TECHNICAL SPECIFICATIONS

Test method	Two-plate tensile adhesion
Test type / loading	Axial tension perpendicular to bond
Specimens	Rubber disc bonded between two metal plates, per ISO 814
Load capacity	10 kN standard; higher capacities on request
Fixture material	Hardened steel holders and housings
Gripping surfaces	Split cups engaging grooved test piece plates
Alignment	Self-aligning seats in clevis housings
Machine connection	Pin connection, to suit customer frame

APPLICATIONS

- Rubber-to-metal bonded components
- Bonding agent qualification
- Engine and suspension mounts
- Adhesive and primer development

ABOUT THE STANDARD

ISO 814 specifies a method for determining the adhesive strength of rubber to metal where the rubber is bonded between two parallel metal plates. The assembled test piece is pulled apart perpendicular to the bonded faces at constant rate. The force at failure, divided by bonded area, gives adhesion strength, with the failure type also recorded.

Ordering & customization: Specify test piece plate diameter and groove geometry, 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-ISO814-ATF