SHEAR FIXTURES

Biomass Shear Fixture

Shear fixture for cylindrical biomass samples



OVERVIEW

A shear test fixture for compacted biomass samples such as pellets, briquettes and plant material cores. The cylindrical sample is held in a nickel-plated steel housing and sheared by an upper punch, giving the shear strength of the compacted material. Interchangeable inserts adapt the housing to different sample heights.

KEY FEATURES

- Designed for shear testing of cylindrical biomass samples
- Rated to 10 kN maximum test load
- Interchangeable inserts for different sample heights
- Housing and punch made of nickel-plated steel
- Ø 20 mm female clevis coupling

TECHNICAL SPECIFICATIONS

Test type	Shear of cylindrical samples
Max. load	10 kN
Sample size	52 × 35 mm
Inserts	For 20, 30 and 35 mm sample heights
Coupling	Female clevis, Ø 20 mm pin
Material	Steel, nickel-plated
Temperature range	Ambient

AVAILABLE VERSIONS

Insert H20	For 20 mm sample height
Insert H30	For 30 mm sample height
Insert H35	For 35 mm sample height

APPLICATIONS

- Biomass briquettes
- Wood pellets
- Agricultural residues
- Bioenergy research

Ordering & customization: Specify sample diameter and height, and the machine coupling.

Drawings available on request
Contact us for dimensional drawings or 3D models of this product.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-SF-070