STANDARDS TEST FIXTURE

Mattress Firmness Ram Head

Twin-dome ram head for mattress firmness retention and surface deformation tests



OVERVIEW

Ram head for testing firmness retention and surface deformation of mattresses according to ASTM F1566 Fig. 6. The twin hemispherical indenter is bolted to a flat mounting plate and pressed into the mattress surface by the testing machine, simulating body loading during repeated or static compression. Lightweight anodized aluminum construction keeps the moving mass low.

KEY FEATURES

- Twin hemispherical indenter geometry per ASTM F1566 Fig. 6
- Anodized aluminum construction for low moving mass
- Bolted mounting plate with central clevis adapter
- Suitable for static firmness and repeated-load durability tests
- Large contact area simulates body loading on bedding
- Mounts directly on the load cell via standard clevis

TECHNICAL SPECIFICATIONS

Test type	Compression: firmness retention, surface deformation
Indenter	Twin hemispherical ram head per ASTM F1566 Fig. 6
Max. load	On request
Dimensions	Per ASTM F1566 Fig. 6
Material	Aluminum, anodized
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin
Temperature range	Ambient; others on request

APPLICATIONS

- Mattresses and box springs
- Foam and spring cores
- Bedding manufacturers
- Furniture test laboratories

STANDARDS ASTM F1566

Ordering & customization: Specify machine coupling and expected maximum test load; a lower support platen for the mattress is ordered separately.

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-ST-640