VISE GRIPS

Dynamic Vise Grip for Composites 100 kN

Bolt-clamped vise grips for fatigue tests on polymer composites, -70 to +180 °C



OVERVIEW

Heavy vise grips for dynamic and fatigue testing of polymer composite specimens up to 100 kN. The jaws are clamped with multiple cap screws, giving a rigid, backlash-free hold under cyclic loading, and an engraved scale helps center the specimen. A pull-rod version allows use in temperature chambers from -70 to +180 °C, and a water-cooled version protects the load train.

KEY FEATURES

- Rated 100 kN for static and fatigue loading
- Multiple cap screws give backlash-free clamping under cyclic loads
- Engraved centering scale for repeatable specimen alignment
- Temperature range -70 to +180 °C
- Pull-rod version for use inside temperature chambers
- Water-cooled version to protect load cell and actuator

TECHNICAL SPECIFICATIONS

Max. load	100 kN (static and dynamic)
Test type	Tensile, tension-tension fatigue
Clamping	Bolt-clamped wedge jaws
Temperature range	-70 to +180 °C
Material / finish	Steel, nickel-plated
Operation	Manual, cap screws
Coupling	On request
Specimen size	On request

AVAILABLE VERSIONS

Pull-rod version	For temperature chambers, -70 to +180 °C
Water-cooled version	Integrated cooling, -70 to +180 °C

APPLICATIONS

- Polymer matrix composites
- Fiber-reinforced laminates
- Fatigue testing
- High and low temperature testing

Ordering & customization: Specify specimen width and thickness, test temperature, chamber or water-cooled version, and 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-VG-060