VISE GRIPS

Four-Jaw Shoulder Grip

Four-jaw chuck grips for round specimens from Ø 2 to 250 mm



OVERVIEW

A chuck-style grip with four hardened, serrated jaws for holding round and cylindrical specimens. Self-centering versions close all four jaws symmetrically with concentric accuracy down to 0.02 mm; independent versions allow each jaw to be set individually for irregular parts. Chuck diameters from 80 to 250 mm cover specimens from Ø 2 to 250 mm in tensile, pull-out and torsion-assisted tests.

KEY FEATURES

- Four symmetrically closing jaws for self-centering clamping
- Version with four individually adjustable jaws for irregular shapes
- Hardened pyramid-serrated jaw faces for slip-free gripping
- Concentric clamping precision of 0.02 to 0.04 mm
- Six chuck sizes from 80 to 250 mm diameter
- Special jaws for filters and stepped parts available

TECHNICAL SPECIFICATIONS

Test type	Tensile, pull-out
Chuck diameter	80, 100, 125, 160, 200 or 250 mm
Specimen diameter	Ø 2 – 250 mm (depending on chuck size)
Clamping force per jaw	1.7 – 4.6 kN (depending on chuck size)
Max. torque	50 – 180 Nm (depending on chuck size)
Concentricity	0.02 – 0.04 mm
Jaw surface	Pyramid serrated, hardened
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin; others via adapter
Max. load	On request

AVAILABLE VERSIONS

80 mm chuck	Specimens Ø 2–70 mm, extra-long 160 mm coupling
100 mm chuck	Ø 2–90 mm, 1.7 kN/jaw, 50 Nm, 0.02 mm
125 mm chuck	Ø 3–125 mm, 2.4 kN/jaw, 75 Nm, 0.03 mm
160 mm chuck	Ø 4–160 mm, 3.1 kN/jaw, 120 Nm, 0.03 mm
200 mm chuck	Ø 4–200 mm, 3.7 kN/jaw, 160 Nm, 0.04 mm
250 mm chuck	Ø 6–250 mm, 4.6 kN/jaw, 180 Nm, 0.04 mm

APPLICATIONS

- Round bars and tubes
- Filter element pull-out tests
- Cylindrical components and housings
- Stepped and irregular parts

Ordering & customization: Specify chuck size, specimen diameter range, self-centering or independent jaws, 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-030