

BiSS AC-0511AX Series, hydraulic Axial Torsion Grips, serve static and fatigue test applications where both axial and torsional forces are applied simultaneously. Unique self-locking feature of the grip permits grip mounting without preloaded spiral or wedge washers. Each grip is equipped with two hydraulic chambers. The lower chamber activates the self-lock actuator to lock the grip in its present position with respect to the load frame with required tensile preload to eliminate both axial and torsional mounting play. The upper chamber activates wedge gripping with adjustable pressure. This pressure pushes the wedges up thereby forcing clamping at desired specimen orientation. These grips ensure clamping of the specimen under reproducible conditions for each test.

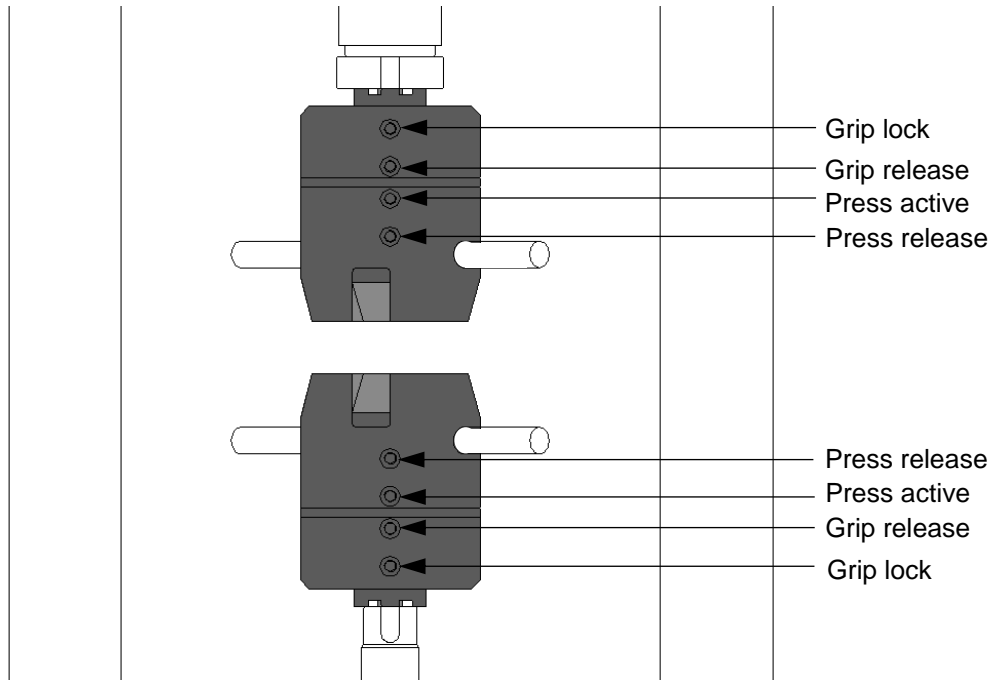
Standard features

- Self-locking with zero axial/torsion backlash
- Quick connect and self-sealing hydraulic hose connections
- Easily mountable without need for wedge/spiral washers and preload
- Separate manifold provided for electronically controlling the grip and press activation
- Wedges for flat & round specimens



Specifications

Model Number	AC-05-11-A5	
Axial capacity	±100 kN	
Torsion capacity	±2000 Nm	
Operating pressure	Up to 80 bar/1200 PSI	
Grip operating pressure	Up to 120 bar/1800 PSI	
Weight per grip (excluding wedges)	48 kg	
Overall dimension	Ø 200 mm x 240 mm	
Mounting thread size	M27x2 RH	
Max. wedge width	75 mm	
Max. gripping length	50 mm	
Specimen types	Flat specimen	0.5 -16 mm
	Round specimen	Ø3-Ø18 mm
	Hollow specimen	Ø25 mm



Note: Products and accessories can also be customized as per requirement.