

Pneumatic Wedge Action Grips

Pneumatic wedge action grips include wedge jaws that are moved by a pneumatic piston centered above them. The dual acting wedge jaws move simultaneously to the grip centerline, ensuring correct specimen alignment, removing bending strains that invalidate test results.

They are used for static tension tests and tension-tension fatigue. They are not capable of through zero/reverse stress or fatigue tests.

G175 grips test round and flat samples of elastomers and plastics including rigid and semi-rigid films and sheets. These grips save time by offering quick and easy sample insertion. They feature constant clamp loading that protects samples from slipping as they stretch.

G175 Family	G175-10	G175-20	G175-50	G175-100
Maximum Force Capacity	10 kN (2250 lb)	20 kN (4500 lb)	50 kN (11250 lb)	100 kN (22500 lb)
Grip Diameter	90 mm (3.5 in)	150 mm (5.9 in)	198 mm (7.8 in)	280 mm (11 in)
Max Sample Width	40 mm (1.4 in)	60 mm (2.4 in)	60 mm (2.4 in)	100 mm (4 in)
Max Sample Thickness	16 mm (0.62 in)	20 mm (0.8 in)	22 mm (0.86 in)	22 mm (1.3 in)
Construction Material	Stainless Steel	Black Oxide*	Black Oxide*	Black Oxide*



G175-10 Stainless Steel



G175-20 Black Oxide



G175-50 Black Oxide



G175-10 Electroless Nickel

* Electroless Nickel plating available for corrosion protection

Interchangeable Jaws available to size requirements

Jaw	Description
J175-XXBP	Pyramid Serrated (0.8 mm x45)
J175-XXBD	Diamond Grit
J175-XXBV	V-Jaw for rounds

G175 grips are configurable to handle high and low temperatures and environmental chambers. Adapters, Push – Pull rods, and special seal designs are available for a variety of test scenarios.

Contact an application engineer to configure a solution to your application requirements.