Pneumatic Wedge Action Grips

For use in Environmental Chambers to 350°C (660°F)

G321 Series wedge action grips are specially designed for use inside of environmental chambers. The grips are designed so the gripping portion is inside the chamber at operating temperature and the power cylinder (pneumatic or hydraulic) is outside, located in ambient temperatures. The grip heads are opened and closed remotely so they eliminate the need to cool them down before changing specimens. Sample changeover is quick. Because the grip head operates in the chamber, thermal gradients are minimized.

G321 Pneumatic wedge action grips feature grip bodies that move vertically to open and close the wedge jaws. As the bodies move, the jaws are held in position on the sample and open and close. The dual acting wedge jaws move simultaneously relative to the grip centerline, ensuring correct specimen alignment, removing bending strains that invalidate test results.

G321grips test round and flat samples and save time by offering quick and easy sample insertion. They feature constant clamp loading that protects samples from slipping as they stretch.

G321 Family	G321-20	G321-50	G321-100	G321-250
Maximum Force Capacity	20 kN (4500 lb)	50 kN (11250 lb)	100 kN (22500 lb)	250 kN (55000 lb)
Grip Diameter	158 mm (6.2 in)	198 mm (7.8 in)	198 mm (7.8 in)	296 mm (11 in)
Max Sample Width	50 mm (2 in)	60 mm (2.4 in)	60 mm (2.4 in)	80 mm (3.1 in)
Max Sample Thickness	16 mm (0.62 in)	22 mm (0.86 in)	22 mm (0.86 in)	33 mm (1.3 in)
Temperature Range	Stainless Steel Construction -70°C to +350C			

G321-50 - Rated 11 Kip

G321-100 Hydraulic

G321-250

Interchangeable Jaws available to size requirements

Jaw	Description
J321-XXBP	Pyramid Serrated (0.8 mm x45)
J321-XXBV	V-Jaw for rounds

G321 grips handle high and low temperatures and are designed for use in environmental chambers at temperatures to 350C. Test Machine 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.