

100/200 and 2000 N Advantage Pneumatic Grips



The lightweight design of these pneumatic grips makes them ideal for your low-force applications.

Designed for testing a wide variety of materials, including elastomers, thin sheets, films, and tapes, these lightweight grips will let you perform tests with your low-capacity load cell without worrying about your fixture weight taking up too much of your load cell capacity.

Both low and medium capacity models feature dual acting grip faces that simultaneously move to the centerline of the grip. This assures correct specimen alignment and removes the bending strains that can invalidate your test results.

These grips use standard pin connectors for both electromechanical and servohydraulic test systems.

The design of these grips also lets you load and align your specimens quickly and easily. The grips include an area above the grip faces that is large enough for you to load the specimens while holding them with your fingers.

Both models require an air grip controller for operation. The air controller and faces must be purchased separately. Faces can be ordered with flat, corrugated, serrated, diamond and rubber surfaces.



Features

Lightweight Design

► Perform tests with your low-capacity load cell without worrying about your fixture weight taking up too much of your load cell capacity.

Dual Acting Grip Faces

► The grip faces simultaneously move to the centerline of the grip, assuring correct alignment and removing the bending strains on your specimen that can invalidate your tests.

Large Area Above Faces

► Designed with a large enough area above the faces for you to hold your specimens with your fingers during loading.

Integrated Clamp/Release Switch

► Some customers prefer to use a clamp/release footswitch, some customers prefer more local operation. This product accommodates both. The integrated clamp/release switch is located close to the specimen for intuitive inspection. Also allows customers to purchase a less expensive grip supply.



Also Required

Pneumatic Control

► Both models require an air grip supply to provide dry, filtered air and an air grip controller for operation. This control features a foot operated switch which lets you control the grips and keep both hands free for specimen alignment. An air pressure of 0.6 MPa/80 psi is required.

Adapters

► The 100/200 N grips require a Type C (5/8 in.) adapter for the upper grip and a Type D (1 1/4 in.) adapter for the lower grip. The 2000 N grips require a Type D (1 1/4 in.) adapter for both the upper and lower grips.

Options

Choice Of Faces

Faces are available with surfaces designed to test a variety of materials.

► Corrugated

For smooth specimens (textile, fabrics, tissue, leather).

► Serrated

For gripping soft materials without causing failure (paper, board, aluminum, copper and steel wire, soft steels).

► Rubber Coated

To offer extra protection for your thin specimens (films, fibers, aluminum foil).

► Diamond Tipped

To provide you with an aggressive surface for gripping soft materials (soft steels, rigid plastic, wood).

► Grab Test

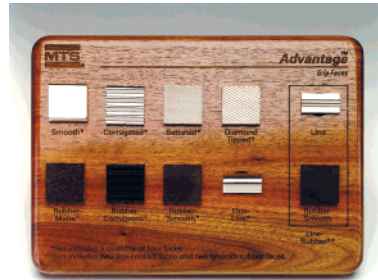
According to international standards, including ASTM D2208 (leather), D5034 (fabrics), D1683 (woven fabrics) and ISO 5082 (fabrics).

► Line Contact

Faces are for rubber, latex and cable sheath.

► Flat

For zippers and soft foods, such as chewing gum and dough.



Capacity	Dimensions Width Height	Temperature Rating	Clamping Force	Upper Grip Weight	Maximum Specimen Thickness	Part Number
200 N 40 lbs.	114 mm 4.5 in 180 mm 7.1 in	-40°C to 200°C -40°F to 400°F	620 N 140 lbf	1.0 kg 2 lbs	10 mm .39 in	100-036-576
2 kN 400 lbs.	147 mm 5.8 in 160 mm 6.3 in	-40°C to 200°C -40°F to 400°F	7100 N 1600 lbf	2.7 kg 6 lbs	12 mm 0.47 in	100-036-337

Faces

Face Surface	Dimensions	Part Number
Rubber (smooth)*	12.5 mm x 25 mm (0.5 in x 1 in)	056-163-801
Smooth	25 mm x 25 mm (1 in x 1 in)	056-163-801
Corrugated	25 mm x 25 mm (1 in x 1 in)	056-163-802
Serrated	25 mm x 25 mm (1 in x 1 in)	056-163-803
Diamond Tip	25 mm x 25 mm (1 in x 1 in)	056-163-804
Rubber (matte)*	25 mm x 25 mm (1 in x 1 in)	056-163-805
Rubber (corrugated)*	25 mm x 25 mm (1 in x 1 in)	056-163-806
Rubber (smooth)*	25 mm x 25 mm (1 in x 1 in)	056-163-807
Line Contact (r=4.75 mm)	25 mm x 25 mm (1 in x 1 in)	056-163-808
Line Contact w/Rubber Opposite* (r=4.75 mm)	25 mm x 25 mm (1 in x 1 in)	056-163-826
Line Contact w/Rubber Opposite* (r=2.5 mm)	25 mm x 25 mm (1 in x 1 in)	056-163-829
Smooth	25 mm x 75 mm (1 in x 2.6 in)	056-163-809
Corrugated	25 mm x 75 mm (1 in x 2.6 in)	056-163-810
Serrated	25 mm x 75 mm (1 in x 2.6 in)	056-163-811
Diamond Tip	25 mm x 75 mm (1 in x 2.6 in)	056-163-812
Rubber (matte)*	25 mm x 75 mm (1 in x 2.6 in)	056-163-813
Rubber (corrugated)*	25 mm x 75 mm (1 in x 2.6 in)	056-163-814
Rubber (smooth)*	25 mm x 75 mm (1 in x 2.6 in)	056-163-815
Diamond	25 mm x 150 mm (1 in x 5.9 in)	056-163-828
Rubber*	25 mm x 150 mm (1 in x 5.9 in)	056-163-830
Smooth	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-816
Corrugated	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-817
Serrated	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-818
Diamond Tip	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-819
Rubber (matte)*	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-820
Rubber (corrugated)*	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-821
Rubber (smooth-EPDM)*	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-822
Line Contact (r=4.75 mm)	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-823
Line Contact w/Rubber Opposite* (r=4.75 mm)	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-827
Grab Test	38 mm x 58 mm (1.5 in x 2.3 in)	056-163-824

* Rubber grip faces are for use only at room temperature.

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