

## Grips

Grips are fixtures that connect a test sample to the force gauge and test stand. Grips should emulate the type of loading the product sees in service and should not induce premature sample failure.

Grips are often modified to work to the application's unique circumstances. For example, a urethane sheet may be trimmed and adhered to a standard grip face in order to reduce sample tearing. Spacer or backer materials may improve testing.

All items on this price list are 10-32 thread and rated for 1000N unless otherwise noted. All grips sold as single unit unless specified as a pair.

### Compression Fittings

Can apply a variety of types of compressive loads. Compression loading only.

<u>Part Number</u>	<u>Description</u>	<u>List Price Each</u>
AWT05-500453	Compression fitting, cone point profile	\$30
AWT05-500452	Compression fitting, chisel profile	\$30
AWT05-500451	Compression fitting, inverted chisel	\$30
36316-5200	Compression plate, 0.75 inch / 20 mm dia	\$30
AWT05-500448	Vented compression plate, 2 inch / 50 mm dia	\$50
36303-0016	Vented compression plate with swivel, 4.5 inch / 114 mm dia	\$220
51912-0018	Physical therapy & muscle pressure plates, set of 3	\$450

### Hooks

A popular method to grab tensile samples when loops, holes, folds or overlaps exist. Quick attachment to the sample. Tension only.

<u>Part Number</u>	<u>Description</u>	<u>List Price Each</u>
36316-5192	Hook	\$30

### Vice-Action Grips

Squeeze the specimen prior to the test. Jaw spacing remains fixed, regardless of the load applied. Good for materials that do not neck significantly under load.

#### **Serrated Clamp Grip**

Twin knobs for excellent clamp load. Open sided design for wide samples.

<u>Part Number</u>	<u>Description</u>	<u>List Price Each</u>
AWT05-500443	Serrated clamp grip	\$275

#### **Pinch Grip**

Compact design works great on small samples and to simulate finger pinch. Small groove on one plane improves grip on small circular samples such as connector pins. May be used in compression.

<u>Part Number</u>	<u>Description</u>	<u>List Price Each</u>
AWT05-500442	Pinch grip	\$155

## Self-Tightening Grips

Self-tightening grips increase clamping force on the specimen as it is loaded. Typically a wedge or eccentric roller design. Work in tension only.

### **Wedge Grip**

Grip surface bites into most flat materials. Both faces move together simultaneously. The faces close automatically upon release of the opening lever and a small initial preload is applied to the specimen.

<b>Part Number</b>	<b>Description</b>	<b>List Price Each</b>
AWT05-500440	Wedge Grip, Small	\$320
AWT05-500441	Wedge Grip, Large	\$350

### **Cam Grip**

Wide contact area is suitable for flat material in strips up to the grip width. Often used with textiles, rubber and plastic. Papers and foils may use a spacer to reduce tearing at serrations.

<b>Part Number</b>	<b>Description</b>	<b>List Price Each</b>
AWT05-500444	Wide cam grip	\$145
AWT05-500447	Narrow cam grip, open-sided	\$165

### **Friction Roller Grip**

Designed for materials prone to slipping such as woven fabrics, plastic films and foils. Combines the drum of frictional grips with a self-tightening mechanism. A spring produces initial clamping pressure to prevent the sample from unspooling prior to the test. Samples are quickly inserted and removed.

<b>Part Number</b>	<b>Description</b>	<b>List Price Each</b>
AWT05-500445	Friction roller grip with spring preload	\$395

## Frictional Drum Grip

Reduce grip-induced stresses on the sample. They distribute friction around a fixed drum, which results in a much smaller clamping force needed to hold the sample. Tension only.

<b>Part Number</b>	<b>Description</b>	<b>List Price Each</b>
AWT05-500446	Filament grip	\$350

## Accessories

Extension rods increase length when needed. Quick coupler/adapters allow quick interchange of grips between the stand and gauge. They can also be used to affordably adapt one thread size to another.

<b>Part Number</b>	<b>Description</b>	<b>List Price Each</b>
36316-5184	Extension rod, 1.25 inch / 32 mm	\$28
AWT05-500449	Extension rod, 5 inch / 130 mm	\$35
36298-0054	Quick-Couple adapter, upper (typically to force gauge or stand), 10-32 thread	\$45
36299-0053	Quick-Couple adapter, lower (typically to grip), 10-32 thread	\$45

*Many more quick coupler thread sizes are available. See the GS/GTX price list or call for details.*