

TA-DGA – Dual Grip Assembly

The Dual Grips are used to pull a sample apart or peel the backing from its substrate in a 180-degree peel test. The sample is secured into the grips after they have been brought close together. When the test is run, the sample is pulled apart and the distance and load force are recorded.

Fixture Base Table (TA-BT-KIT)

No base table is used with these grips.

Install the Dual Grips

The lower grip attaches directly to the slot in the base of the CT3 by using the two T-bolts supplied. Leave the locking T-bolts loose until the alignment is complete. The upper grip attaches directly to the M6 thread on the probe shaft. Screw the upper grip fully into the probe shaft, aligning the grip faces with those of the lower grip. Lock into position.

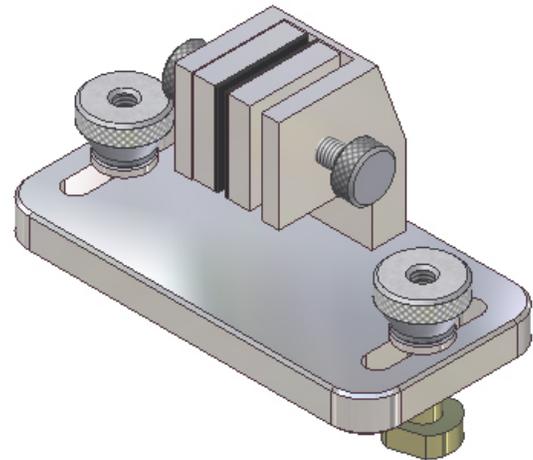
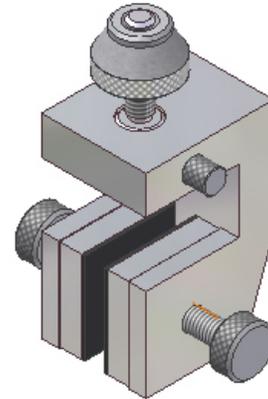
Alignment of the Dual Grips in Stand-Along Mode

The easiest way to align the lower grip under the upper grip in stand-alone mode is by using the Tension test. Rotate the SELECT/SCROLL knob until Tension test appears on the display. After depressing the start button two times, the SELECT/SCROLL knob can be used to lower the upper grip. Depressing and holding the Select/Scroll knob will continuously lower the probe, and rotating the SELECT/SCROLL knob will lower the probe 1 mm for each click of the knob. Bring the probe down 100 mm (this position will be shown in the CT3 display), or until it almost touches the lower grip. Clamp a flat, rigid sheet of paper or thin cardboard into the center of the grip. Align the lower grip directly under the upper grip using the clamped sheet as a guide. The grips should now be properly aligned. Lock the lower grip by tightening the T-bolts.

Use of the Dual Grip Accessory

Once the Dual Grips are aligned, tests can be run in either stand-alone mode or with Texture-Pro CT Software.

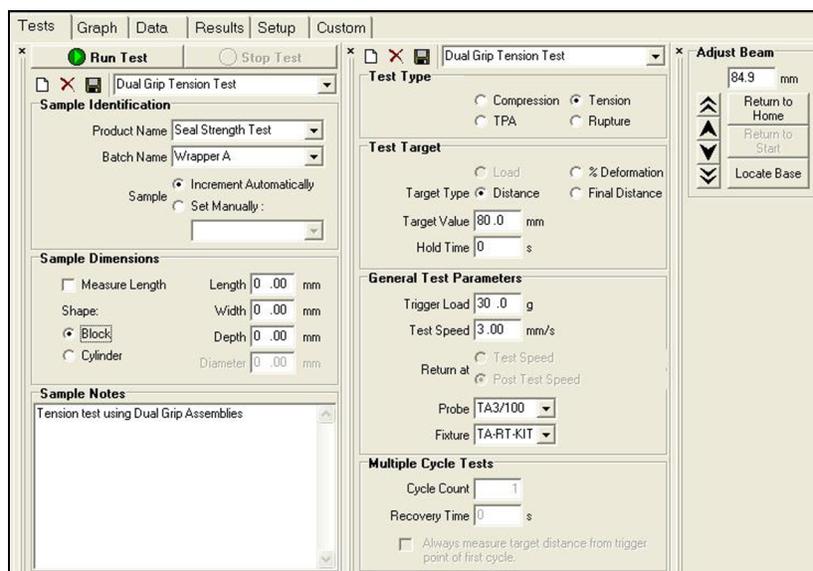
In stand-alone mode, choose the Tension test. Set a Trigger value appropriate for the load cell in your instrument, usually 20 to 50 grams. The maximum deformation distance possible in the CT3 is 101 mm if the test starts with the top grip in its lowest position. The position of the grip is always displayed on the screen. The deformation distance for the test must be no more than this displayed value when the Trigger is



Installation Instructions for Texture Accessory Part Number: TA-DGA

reached, starting the test. The Deformation distance should be set large enough to completely separate the sample. The test speed may be set as desired between 0.1mm/s up to 10mm/s. Bring the upper grip down to a distance sufficient to clamp the sample. After clamping the sample, lower the top grip 1 or 2 mm to relieve any tension on the sample. It is important that the sample not be under tension when the test is started.

When using the Dual Grips with Texture-Pro CT Software, use the Adjust Beam button to lower the top grip to the starting position so the sample can be clamped. The screen below is a starting guideline to set up the test method and sample information.



The deformation Target Value, Trigger Load and Test Speed may be selected according to your needs. For further information, see the application for Dual Grip Assembly on our web site.

