

# LARGE SHEARTRAC III

The ShearTrac III is a fully automated system designed for shear testing on a large sample size. It performs the consolidation and shearing phases of up to a 305 x 305 x 205 mm (12 x 12 x 8 in) sample under automatic control for soils/aggregate, rock, and geosynthetics (geomembrane, geotextile, GCL, geogrid, etc.). It can also be used for determining the interface frictional properties of soil, rock and geosynthetics, as well as internal friction of GCLs. With its high load capacity, broad range of testing flexibility, and overall ease of use the ShearTrac III is the preferred large shear machine on the market.

Technical Specifications	
<b>LOAD CAPACITY</b>	Up to 160 kN ( 35 klbf) vertical Up to 115 kN (25 klbf) horizontal
<b>VERTICAL/HORIZONTAL MOTORS</b>	Micro-stepper system with built-in controls for vertical load
<b>CONTROL</b>	<ul style="list-style-type: none"> <li>Stress (load)</li> <li>Strain (displacement)</li> </ul>
<b>RATE OF DISPLACEMENT</b>	0.00003 to 7.5 mm per min (0.000001 to 0.3 in per min)
<b>VERTICAL/HORIZONTAL TRAVEL</b>	+/- 100 mm (4 in)
<b>INCLUDED</b>	<ul style="list-style-type: none"> <li>Geo-NET network card and cable to link to PC</li> <li>Associated module to automatically run and report tests</li> </ul>
<b>ACCESSORIES</b>	<ul style="list-style-type: none"> <li>Gripping plates: optional for GCL testing</li> <li>Shear box</li> </ul>
<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>12 month warranty; extended warranties available</li> </ul>
<b>TESTING CAPABILITIES</b>	<ul style="list-style-type: none"> <li>Direct shear on soil and aggregates</li> <li>Interface frictional properties of soil &amp; geosynthetics</li> <li>Internal friction of GCL</li> <li>Rock shear</li> <li>1-D incremental consolidation up to 32 steps</li> <li>Constant volume swell</li> <li>Constant stress swell (free swell)</li> </ul>



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