

Direct Shear

Microprocessor–Controlled Direct Shear Apparatus



UMI115-MC

Technical Features :

- ◆ Large graphical LCD Display
- ◆ Touch type keyboard and controlling panel
- ◆ Fast back to start point by fast forward and backward speed
- ◆ Strain controlling in full scale : 0.00001-9.99999mm/min
- ◆ Specimen size : 2.416inch or 60*60mm
- ◆ Fast forward and backward : 10mm/min
- ◆ Horizontal and vertical measurement : Max horizontal shearing force 5kN,
- ◆ Transducer with 25.4mm rang and division 0.003mm
- ◆ Vertical load and displacement measurement : Level load , 4pcs of 10kg、1 of 5kg、2 of 2kg、1pc of 1kg ,
- ◆ Displacement measurement : 0-12.7mm displacement measurement , division .003mm
- ◆ repeated forward and backword shearing function : Max forward and backward time 10times
- ◆ Max stroke :25mm
- ◆ Stop during the test : preset data in horizontal and displacement
- ◆ Soil sample size: Accepts 2.5in *1in square samples using accessory shear box assemblies
- ◆ Lever ratio: 1:10
- ◆ Standard : ASTM D 3080



Configuration List :

S.N.	Part Name	Qty/UNIT	Remarks
1	Digital shear frame	1set	Supplied with microprocessor with beam loading device,
2	Square shear box assembly	1set	60*60mm
3	Slot weight	1set	50kg in total
4	Vertical displacement transducer and setup components	1set	(12.7mm travel,, accuracy 0.3%) resolution : 0.001mm, 4 pin DIN plug, mounting pillar and bracket for shear box
5	Vertical load sensor assembly	1set	(0-5kN, accuracy 0.3%) fitted with 4-pin DIN plug
6	Embedded controller for horizontal shear controlling system	1set	
7	Modular software in Window (Acquisition only)		Digital control of speed and data acquisition via control system
optional parts			
	square shear box assembly	1set	100*100mm