



### PRODUCT CODE

- NT-S0600** Direct Shear Test Device (5 kN kapasiteli)
- NT-S0605** Shear Box Set for 60x60 mm samples
- NT-S0610** Shear Box Set for Ø 60 mm samples
- NT-S0615** Shear Box Set for 100x100 mm samples
- NT-S0620** Shear Box Set for Ø 100 mm samples
- NT-S0625** Shear Box Set for Ø 2,5 inch samples
- NT-S6100** Slotted weight set, 50 kg (4x10 kg, 1x5 kg, 2x2 kg, 1x1 kg)

### STANDARDS

AASHTO T236, ASTM D3080; BS 1377:7; EN-ISO 17892-10

### SPECIFICATIONS

The Automatic Direct Shear Testing Machine is a servo-motor-controlled testing system developed to measure the shear strength of soil materials with high precision under consolidated and drained conditions. It is designed to perform direct and residual shear tests on undisturbed or pre-mixed soil samples.

The device offers the ability to perform direct shear testing, one of the most critical tests used in analyzing soil mechanical behavior, fully automatically and without requiring user intervention.

**Fully Automatic Test Process:** Position resetting and system checks are performed automatically at the beginning of the test.

**Servo Motor Driven Mechanism:** Infinitely variable speed control between 0.00001 mm/min and 9.99999 mm/min, enabling forward and reverse movement.

**Load Application Device:** A lever-operated loading system with ratios of 9:1, 10:1, and 11:1 allows for a total vertical load of up to 5 kN with a weight of up to 50 kg.





### SPECIFICATIONS

#### Sample Size Compatibility:

**Square:** 60x60 mm and 100x100 mm

**Circular:** Ø60 mm, Ø100 mm, and Ø2.5"

#### RS232 & PC Software Compatibility:

The test process can be monitored via computer, graphical data can be generated (shear stress - vertical stress curves), and cohesion and internal friction angles are automatically calculated.

**Touch Screen & User Friendly Interface:** Test start, stop, data tracking and sensor calibrations can be easily performed via the microprocessor-controlled 6" color TFT screen.

#### Technical Specifications:

<b>Capacity</b>	: 5 kN
<b>Loading Speed</b>	: 0.00001 – 9.99999 mm/min (forward/reverse)
<b>Reverse Speed</b>	: 10 mm/min
<b>Vertical Displacement</b>	: 10 x 0.001 mm
<b>Horizontal Displacement</b>	: 25 x 0.001 mm
<b>Voltage</b>	: 220-240V, 50-60Hz

**Note:** Shear box assemblies (for different sizes) must be ordered separately.

