

# Soil Hardness Tester

## TYD-1

### 1. Introduction

Soil Hardness Tester adopts theoretical value of pressure gauge-- $\text{kg/cm}^2$  to test the wedging resistance of soil and get the soil hardness value directly. Thus, the tightness degree of soil with different depth can be known. The instrument has the advantage of fast testing speed and visualized testing results. For soil permeability, aeration and other soil properties survey research, it's very convenient and accurate using the tester.

### 2. Technical parameter

Hardness range: 0 ~ 500  $\text{kg/cm}^2$

Depth range: 0 ~ 40 mm

### 3. Operation

3.1 Clean the ground and insert top of the instrument into soil until the mouth part.

3.2 Pull out the instrument vertically and along the direction, and read the hardness value on the instrument.

The outer circle value is the inserted depth value, unit: mm. The inner circle value is the hardness value, unit:  $\text{kg/cm}^2$ .

3.3 After read, please rotate the driven needle to the 0 scale.

3.4 If there is some soil sticking on the inside indicator, the read value will not be accurate.

Please rotate the mouth part counter clockwise and take down the round sleeve, clean it up before the next use.

### 4. Attentions

4.1 Shake is forbidden.

4.2 Shock measurement is forbidden.