

### I. Functions

The device is used to measure the force of the material. It is divided into three types: GY-1, GY-2, and GY-3. The GY-1 type is used for measuring the force of the material with a diameter of 3.5mm. The GY-2 type is used for measuring the force of the material with a diameter of 3.5mm. The GY-3 type is used for measuring the force of the material with a diameter of 8mm and 11mm.

### II. Principle

The principle of the device is based on the relationship between the force (N) and the displacement (S) of the material. The force (P) is calculated as follows:

$$P = N / S$$

P - 105Pa/cm<sup>2</sup>

N - kg

S - cm<sup>2</sup>

### III. Specification

	GY-1	GY-2	GY-3	
Force	215/cm <sup>2</sup> ×105Pa	215/cm <sup>2</sup> ×105Pa	215/cm <sup>2</sup> ×105Pa	215/cm <sup>2</sup> ×105Pa
Diameter	Φ3.5mm	Φ3.5mm	Φ8mm	Φ11mm
Accuracy	0.1±	0.02±	0.1±	
Resolution	10			
Dimensions	140×60×30			
Weight	0.3			

### IV. Instructions

The device is used to measure the force of the material.

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0.2

0.5; 1

10

3