

Automatic Precision Spring Tensile and Compression Testing Machine with Loading 5N to 100N**Model: iST-5****Features:**

1. Can automatically measure the spring tension, stress and elastic coefficient;
2. To specify section of 1, 2, 3, Automatic test;
3. The controller interface dialogue straightforward in English;
4. High efficiency, complete functions, convenient operation;
5. With SPC and mechanical two level limits protection;
6. High speed movement function;
7. By pre-loading and compensation correction to ensure accurate measurements;
8. Load sensor overload protection and emergency stop function;
9. Connect the micro printer.

Overview:

Spring Testing Machines is widely used for quick and accurate testing of compression & tension test of springs. The machine uses a high precision Load Cell for measurement of force.

For displacement measurement Mechanical Linear Scale or Digital Vernier Caliper or Rotary Encoder is used. Measuring System is based on latest microcontroller / microprocessor based electronic panels with all facilities.

igualitrol iST-5 spring testing machine according to the national standard JB/T7796-2017 "tension and compression spring testing machine technical conditions" of the technical requirements.

Iqualitrol iST-5 mainly for a variety of helical spring for tensile and compression test. Under the specified length measurement, the test force of spring, or at a specified force of spring deformation test. Widely used in spring manufacturing company and use the unit.

Main Applications:

The spring testing machine is mainly used to measure and analyze the mechanical performance (tensile force, compressive force, displacement, and stiffness etc) of the springs (cylinder spring, butterfly spring, tower-shaped spring, closing ring, flat spring, deformed spring and other precision spring).

Technical parameters:

1. Model	iST-5	iST-20	iST-50	iST-100
2. Load	5N	20N	50N	100N
3. Min load value	0.0001N	0.001N	0.001N	0.01N
4. Unit	N,g	N, Kg,g		
5. Load precision	±0.5%			
6. Length precision	0.02mm			
7. Max stroke	200mm			
8. Speed	1~300mm/min			
9. Table diameter	φ20mm	φ60mm		
10. Manual movement value	1mm,0.1mm,0.01mm			
11. Testing choice	compression or tension			
12. Spring testing option	1, testing load by setting length 2, testing load by setting deformation			
13. Size	220mm×330mm×500mm			
14. Weight	20kg			
15. Power ac	220V 0.5A			