

Digital Automatic Spring ITK-Z200N

Tension & Compression Testing Machine



Product introduction:

This testing machine is mainly used to measure the tensile test and compression test of

various coil springs. It can test both the spring load under a certain deformation and the spring deformation under a certain load. Mainly used in spring manufacturers, low-voltage electrical appliances, machinery, universities and research laboratories.

The mechanical part, the sheet metal part, especially the electrical control part, were upgraded in an all-round way, so that the degree of cooperation, integrity and precision of each part of the whole machine increased by a step. The convenience and speed in the actual use process are greatly improved, and the after-sales service is further facilitated.



Protection measures:

- Over current and voltage protection functions;
- Load sensor two-way overload protection;
- Displacement over limit protection.

SOFTWARE



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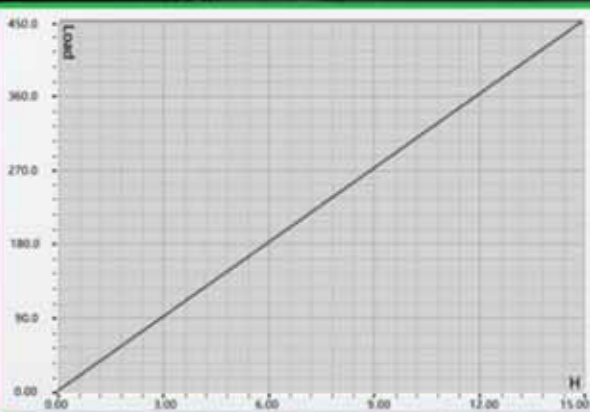
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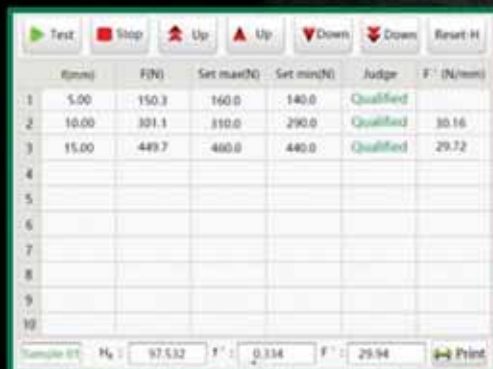
SOFTWARE



Human-machine intelligent interactive interface: simple, intuitive, full-interface touch operation, fast control speed. It can directly touch the corresponding function keys, the use efficiency is greatly improved, and a stylus can also be used.



High-speed and efficient test, real-time data, real-time curve (adaptive curve) synchronous display throughout the process;



The test data results are displayed on the same interface in real time, accurate, fast and comprehensive, and can be judged automatically.

Environment and working conditions

- The room temperature is within the range of 10-35; the relative humidity is not more than 80%.
- In a clean environment free of vibration, corrosive media and strong electromagnetic fields.
- The fluctuation range of the power supply voltage should be within 10% of the rated voltage.
- Correct installation on a solid basis

The sample library(Up to 20 types can be set) can be set for different test types, test

methods, and test conditions. Different spring samples can be set once and called directly.



It can obtain free height, average stiffness, average flexibility, etc. The query interface can store 100 sets of test results.

Sample Library

Sample 01	>
Sample 02	
Sample 03	
Sample 04	
Sample 05	
Sample 06	
Sample 07	
Sample 08	
Sample 09	
Sample 10	
Sample 11	
Sample 12	
Sample 13	
Sample 14	
Sample 15	
Sample 16	
Sample 17	
Sample 18	
Sample 19	
Sample 20	

Set test parameters

- Test method: Set f test F
- Test type: Compression
- Test speed: 100
- Return speed: 200
- Auto return: Test end, Return
- Test points: 3

Set Points

	Set f	Set max F	Set min F
1	5.00	160.0	140.0
2	10.00	310.0	290.0
3	15.00	460.0	440.0
4			
5			
6			
7			
8			
9			
10			

Test Sample Query System F setting



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Technical specifications

Capacity	200N
Display type	LCD display with touch screen
Measuring range	1%-100%
Load resolution	0.01N
Relative error of zero point	±0.1%
Relative error of test force indicating value	±1.0%
Relative error of indicating value repeatability of test force	1.00%
Resolution of displacement	0.001mm
Test space	300mm
Plate OD	100mm
Parallelism error of up and down pressure plate	≤0.10 mm
Test speed range	0.01mm/min-500mm/min
Error of deformation indication value	≤± (50+0.1SL)
Dimensions	About 435*275*850mm
Weight	About 90kg
Protection function	Over-load protection function
Power supply	AC 220V±10% 50Hz

- Automatic storage of test data, can store 100 sets of data, can be viewed, printed, exported, etc.;

- Motion control sampling full digital sine wave control, smooth operation, no impact, faster response;

- Based on fast sensor data conversion, high-speed parallel disk can be set, and the compression height zero point can be set with one button;

- Load units include Newton (N), kilonewton (kN), gram force (gf), kilogram force (kgf), pound force (lbf), kilogram force (kip) 6 international units;



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