

Spring Fatigue Testing Machine

Model: SFTD series

1, General introduction

SFTD series Spring Fatigue Testing Machine is suitable to determine the fatigue performance of various coil spring. Digital speed timing system to control motor rotate, then drive connection rod to make compression platen move up/down reverse, to execute the compression fatigue test for spring. With width frequency range and large test space, easy operation, reach the setting cycles, or after the spring break, will automatically stop machine.



2, Main Features

- 1), Frame: mechanical loading, use traditional crank-link structure, servo motor driving, ensure the loading process stable and reliable, and make the alternating stress to form sine curve. With spring pre-compress device, frequency adjusting device.
- 2), Transmission system: consist of speed reduction device, leading screw, and guide part.
- 3), Driving system: Servo motor driving.
- 4), Control system: Consist of computer display & control system, counter, speed regulator, spring break stop/protection device etc.,
- 5), Record and control the test cycles, test frequency, load-time curve, record test time, spring specification, frequency etc.,
- 6), Overload,over current, break automatically stop, position limitation protection etc.,

3, Main technical specification

Max. Load	5Kn/10Kn/20KN
Frequency	Max. +-50mm
Stroke	100mm
Test frequency	1~5Hz
Working station	4 (can do 4 pcs spring at same time)
Counter	9×10^9 times
Function	Set test cycles automatic stop; Spring break automatic stop
Spring free length	300mm
Spring max. outer diameter	$\Phi 150$ mm
Main motor power	11Kw

4, Main accessories

Frame	1 set
Load cell	4 pcs
Computer	1 set
Electronic control cabinet	1 set
Spring fatigue test software	1 set
Test fixture	1 set
Documents (Manual, packing list, certificate)	