

## TPL-W Computer Control Spring Fatigue Testing Machine



Picture for reference only

### Application:

This machine is mainly suitable for axial fatigue life test of various spiral cylindrical springs, gas springs, elastomers, elastic components and other components.

### Features:

1. The fuselage is made of high-quality thick steel plate to ensure that the machine can withstand the effects of long-term load and will not cause deformation;
3. The test area is equipped with a transparent visual protective net to ensure the safety of the test operators;
4. Test loading Select domestic high-quality precision AC motor, the output torque performance is stable, reliable operation, and overcome the impact of unstable torque output on the machine.
5. Load sensor adopts precision spoke type sensor, which has the advantages of high measurement accuracy, good dynamic response, good lateral force resistance and stable performance.
6. Newly added lubrication and oil guiding system can realize automatic filling, automatic collection and reuse of lubricating oil in the test part, which changes the secondary pollution of the machine caused by the overflow of lubricating oil in the past and greatly reduces the manual operation.

### Functions:

1. The same applies to the determination of metal, non-metal, alloy materials and their components (such as operating joints, fasteners, spiral moving parts, etc.), fatigue properties, fatigue life, pre-cracking and crack propagation tests of tensile load, compression or tensile and compressing alternating load at room temperature. Widely used in spring production enterprises, spring use enterprises, colleges and universities research institutes, quality inspection departments and other industries.
2. Emergency shutdown protection function.

### Main parameters:

| Model                  | HTPL-10T                                         |
|------------------------|--------------------------------------------------|
| Max. Load              | 10KN                                             |
| Test station           | Single (Standard) or multiple springs (Optional) |
| Vertical maximum space | 300mm(Customizable)                              |

|                              |                     |
|------------------------------|---------------------|
| Transverse maximum space     | 200mm(Customizable) |
| Maximum diameter of specimen | 100mm(Customizable) |
| Test machine amplitude       | ±50mm               |
| Frequency range (adjustable) | 0-5HZ               |
| Power                        | AC 380V± 10% 50Hz   |
| Sizes                        | 1000*750*1600       |
| Weight                       | 1000kg              |

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