

**KASON TPL Series 200-2000N Gas springs fatigue test machine**

**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:**

2. 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:**

3. 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.
4. Emergency shutdown protection function.

**Main parameters:**

Model	HTPL-100T-400	HHTPL-200T-400	HTPL-500T-400	HTPL-1000T-400	HTPL-2000T-400
Max. Load(N)	100	200	500	1000	2000
Test station	Single (Standard) or multiple springs (Optional)				
Vertical maximum space(mm)	400(Customizable)				
Transverse maximum space(mm)	160(Customizable)				
Maximum diameter of specimen(mm)	100(Customizable)				
Test machine amplitude(mm)	±45				
Frequency range (adjustable) (Hz)	0.1-5				
Counting stop accuracy (Hz)	1000				
Power	AC 22V±10% 50Hz				

**3. Electrical System Functions And Features:**

3.1 The control program adopts self-developed software, which is stable, reliable and easy to customize according to requirements.

3.2 According to the amplitude and frequency of various springs, elastomers and elastic components can be adjusted.

3.2 The relevant results can be achieved according to different test conditions: preset test times, deviation from peak value, sample breakage;

3.3 With perfect protection function: with load, test times protection; electrical system over current, over voltage protection.

**Environment and working conditions:**

- a) Room temperature in the range of 10 ° C -35 ° C; relative humidity is not more than 80%;
- b) No vibrating, non-corrosive medium and clean environment without strong electromagnetic interference
- c) The fluctuation range of the power supply voltage should be within 10% of the rated voltage soil;
- d) Install correctly on a solid foundation

# FOCUS IN MATERIAL TEST

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