

PLG Series Electromagnetic Resonance High Frequency Fatigue Testing Machine**Applications:**

This series electromagnetic resonance fatigue testing machines are used for fatigue tests of metal material and component under tension, compression or reversal load. If the relevant grips are provided, three-point bending test, four-point bending test, tension and compression of sheet sample test, tension and compression of circle test, gear wheel, bolt, connecting rod, roller chain, crackle expanding test are available.

The serial testing machines undergo optimization design and the structure is rational. The automatically controlled system adopts the advanced pulse wide control system and new-type power amplifier to improve the reliability of the electric system. It is with high efficiency, easy to shake, no-stop shake, low energy consumption, high controlling accuracy, small fluctuation. The machines comply with DIN50100.

Specifications:

Model	PLG-20C	PLG-100C	PLG-200C	PLG-300C	PLG-500C
Load capacity(kN)	±20	±100	±200	±300	±500
Max. step pulse load(kN)	±20	±100	±200	±300	±500
Load capacity for dynamic (peak value) (kN)	10 or 13	50 or 70	100 or 130	150 or 180	250 or 280
Relative error of static load	≤±1%				
Range of frequency(Hz)	60-300				
Power	160VA	300VA	600VA	800VA	1.2KVA

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Load fluctuation	Dynamic	0.5%F-S				
	Static	0.5%F-S				
Max. distance between grips(mm)		600	800	800	800	800
Max. distance between columns (mm)		420	500	540	620	720
Dimension (mm)	Load frame	700×500 ×2010	800×700 ×2235	900×800 ×2600	1100×1100 ×2850	1500×1200 ×3100
	Control cabinet	600×600×1200				
Weight (kg)	Load frame	1500	2750	4000	7200	10000
	Control cabinet	50	70	100	120	150
Optional: high temperature furnace and high temperature extensometer, fatigue crack rate test;						

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Grips available:



Tensile grips for round specimen & flat specimen / Compression platen / 3 points flexure fixture

Please note that Grips for application on flat specimen/round specimen/ chain specimen/ compression/ bending can be customized according to different testing requirements.

Software Introduction:

The operation system is under Window XP. The computer will show the load in real time, Peak load (Max. Min.) and the testing curves.

- Over load protection;
- Testing data real-time display: When fatigue testing, it can show testing curves for different time and different specimen. The testing curves can be displayed in planar and three-dimensional.
- Testing data storage and analysis: Testing curves is stored into data base and it is suitable for analysis and management.

Software features:

- Easy to operate, convenience and reliability;
- Display parameters, such as average load, alternating load peak, resonance frequency and cyclic fatigue times in real time.
- Strong and broad test function: Routine fatigue test, program control loading test, Block spectrum test, alternating load envelop line test (Wave shape is set as sine wave, triangle wave and square wave).

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- Multiple test parameters setting mode: can take average load value, alternating load peak value as preset mode, also can take Max. Load, stress ratio, Max & Min load as preset mode, and allow apply different load unit.
- Abundant data analysis and procession
- Automatic store various kinds of test data, print test reports and test curve, complete "S-N curve" data procession and curve drawing, and draw frequency-time curve, load-time curve.
- Safe projective function: overload, over-current, upper and lower limit of the set load protection. Machine stops when test finish or encounter emergency.

PLG-200C Measurement and Control System Of Fatigue Experiments (PV5.23-16)

BEAM CONTROL: Beam Move Speed: 0% Inching Speed: 0.0%

STATIC LOAD CONTROL: Start Stop

DYNAMIC LOAD CONTROL: Start Stop

TEST SAMPLE SAFEGUARD STORAGE WAVE OTHERS

MOED CHOICE: ☒ Conventional Fatigue ☐ Program-controlled Fatigue ☐ Modulation Fatigue

TEST GIVEN: Static Load (kN) 3.00 Dynamic Load (kN) 1.80 Cycle Number (kC) 0.0

Level	Static load (kN)	Dynamic load (kN)	Cycles (kC)
Level 2	Blocks 1	Level 1	Block 1

Levels 2 Blocks 1 Level 1 Block 1 Times (kC) 0

LOAD VALUE: Static Load 0.154 kN Dynamic Load 0.001 kN Total Cycle Number 687.9 X10³ Frequency 0.0 Hz

Hand hold box communication mistake!

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