

Railway Sleepers & Fastening Testing Machine



Product instruction

The three-station sleeper pulsation fatigue tester is based on China's orbit practical needs of fatigue testing in research institutes of transportation engineering testing, specially designed and developed a multifunctional pulsating fatigue test system.

Standard:

EN 13146-4 Railway applications – Track – Test methods for fastening systems-Part4:Effect of repeated loading

EN 13146-9 Railway applications – Track – Test methods for fastening systems – Part 9: Determination of stiffness

EN 13230-2 Railway applications – Track – Concrete sleepers and bearers – Part 2: Prestressed monoblock sleepers.

Technical data:

Parameter	Specification
Max. Static Test Force	3×500 kN
Max. Dynamic Test Force	3×500 kN
Test Force Accuracy	±1% FS
Dynamic Force Fluctuation	≤2% FS

Dynamic Load Asymmetry Coefficient	0.2~1.0
Operating Frequency Range	2~8Hz continuously adjustable
Max. Pulsation Displacement of Hydraulic Pulsator	800ml per stroke, stepless adjustable; main bearing adopts high-load, wear-resistant & impact-resistant sliding friction pair
Spindle Speed Control	Full digital electromagnetic stepless speed regulation; speed stability accuracy $\pm 0.1\%$, speed variation ratio 0.1%, speed resolution 1rpm
Pulsation Displacement Display	Anti-interference electromagnetic measuring & digital display tech, max counting: 10^3
Cycle Count Control	Anti-interference electromagnetic pickup: 1 pulse/rev; max preset shutdown count: 10^8 , data auto-save after power off
Pulsator Main Motor Power	22 kW
Lubrication Gear Pump Motor	1.5 kW high-speed gear motor
Working Hydraulic Pump Motor	RK-38 radial piston pump, 1.5 kW
Fatigue Test Channels	5 channels with pipeline switching valve; supports single-point or multi-point simultaneous fatigue testing

FOCUS IN MATERIAL TEST

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