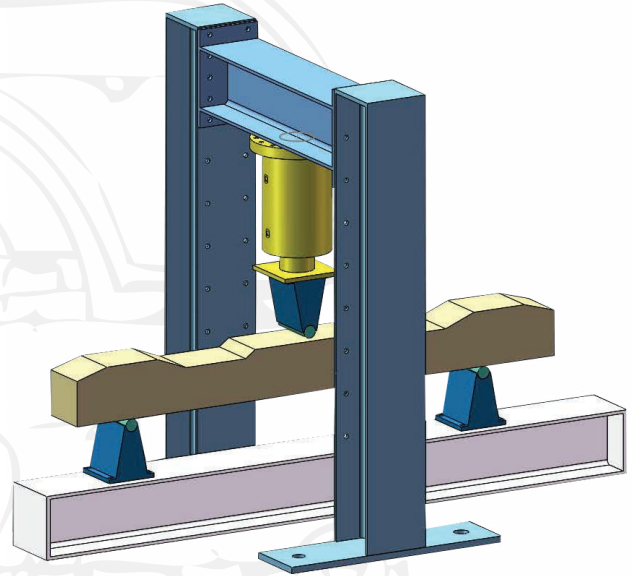


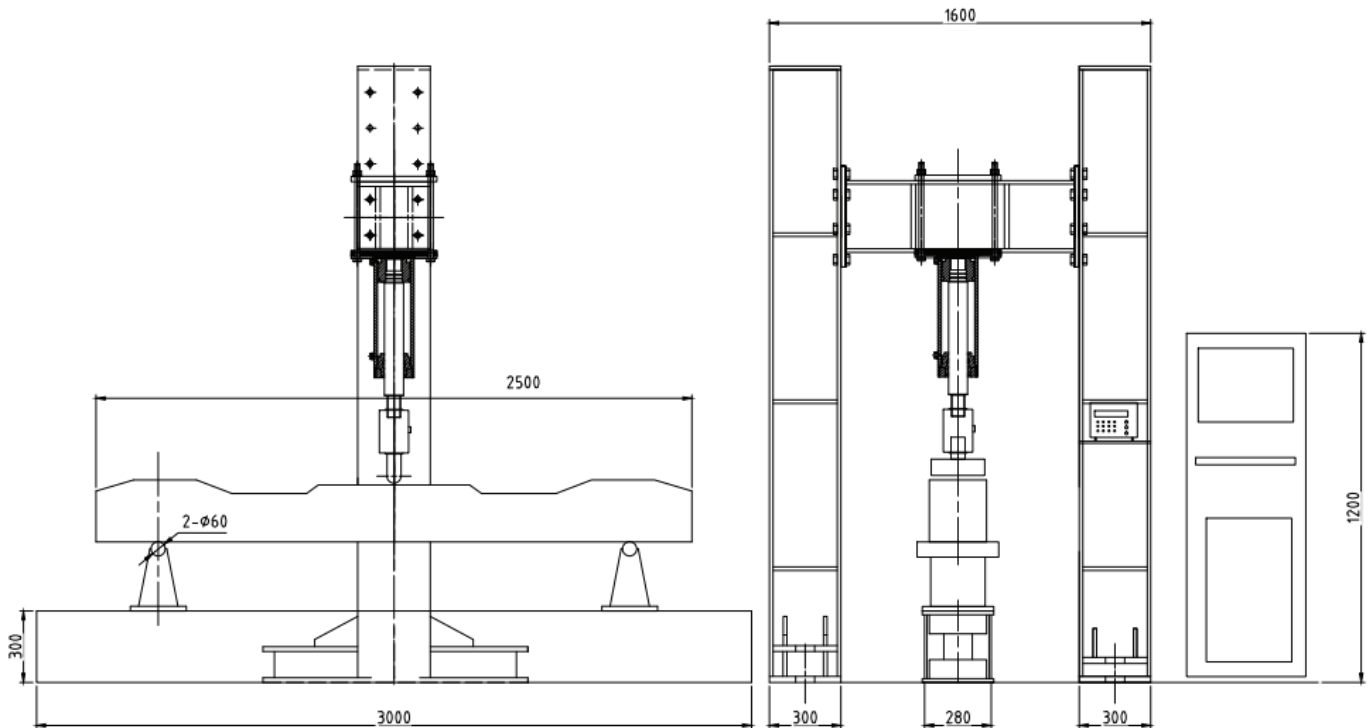
## Introduction

The equipment is loaded precisely using electro-hydraulic servo technology. The fatigue test used mainly for the assembly of bullet strips, elastic mats and fasteners More fatigue tests, life tests (three-point bending, four-point bending, etc.) can be achieved by changing the test fixtures.

Static strength tests can be performed, stretching, compression, bending, etc.

- 1), High-speed Railway Fast forward System Test Method Part 3 Assembly and Assembly Static Stiffness Determination. The determination of static stiffness  $K_{sta}$ , the error of machine display value is 1%.
- 2), High-speed Railway Fast forward System Test Method Part 2 Assembly Button Pressure Determination.
- 3), Bullet Bar I.II. Type Fastening Strip Fatigue Test Method. 4-16Hz, 5 million times.
- 4), High-speed rail fastlinks General technical conditions. The static stiffness, stiffness and fatigue test of the elastic pad. 3 to 5Hz, 3 million times.
- 5), High-speed Rail Fast forward System Test Method Part 4 Assembly Fatigue Performance Test.





## Constant pressure servo oil source:

Constant pressure servo oil source system is close type low sound quite design, cabinet structure, this unit will supply the pressure oil for the frame loading. Similar oil source unit picture like below:

3.1, Reliable and quality components

- Oil pump is internal gear pump, feature is low noise, hydraulic impulse small, long working life, suitable for dynamic testing machine hydraulic oil source unit.
- Motor use industry universal three phase asynchronization motor, with cast iron shell, high anti-vibration performance. Imported brand bearing, with high over loading ability.

NOTA: las imágenes y características pueden cambiar sin previo aviso.

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# Computer Control Railway Track Parts Static & Dynamic Testing Machine CWFD-1200A

- System rubber hose assembly use imported Italy brand, with long working life, suitable for high pressure system.
- Main overflow valve, solenoid directional valve adopts brand products, filter accuracy 5um.
- Electrical part choose famous brand as well.

### 3.2, System integration design reasonable and reliable:

- To low the noise and protect the motor, adopt the elastic coupling to connect motor and pump, can effectively reduce instant impact to motor pump when start and loading.
- System set two level pressure, high pressure (rated) 21Mpa, low pressure (start) 3 Mpa. At system start and adjustment, choose low pressure; at test choose high pressure. Work more safe and energy conservation.
- With high efficiency water cooling unit, make hydraulic oil keep working at a stable temperature.
- With kinds of alarm device, monitor oil source working process. High pressure filter oil block alarm, oil temperature alarm, level low alarm, motor over load protection etc.,



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### 3.3 Beautiful appearance:

- Strong electricity cabinet steel plate is painted, good adhesive force, beautiful appearance.
- Button, indicator position conform to ergonomics.

Oil source bottom with specialized shock pad.

Picture for reference.



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# Computer Control Railway Track Parts Static & Dynamic Testing Machine CWFD-1200A

No.	Item	Specification	quantity	Remark
1.	Frame	<ul style="list-style-type: none"> <li>Max. load 2000kN;</li> <li>Steel structure door type reaction frame (effective height 0.5m);</li> <li>Base use steel plate structure, size: 3m*2.5m</li> <li>Weight: 12 ton</li> </ul>	1	
2.	Actuator	<ul style="list-style-type: none"> <li>Output load: 2000kN, accuracy: <math>\pm 1\%</math>;</li> <li>Actuator stroke <math>\pm 75</math>mm, accuracy : 0.5%FS;</li> <li>Configure 2 pieces of SERN 609 servo valves;</li> <li>Configure the German NOVO displacement sensor;</li> <li>Configure the Air China load sensor.</li> <li>The front ball is hinged after the french connection.</li> </ul>	1	
3.	Hydraulic source	<ul style="list-style-type: none"> <li>Rated flow rated 230L/min;</li> <li>Rated power 2 x 45kW;</li> <li>Two outputs, all way DN32, all the way DN20;</li> <li>Constant pressure constant flow;</li> <li>Japanese oil pump, Siemens motor;</li> <li>Temperature monitoring;</li> <li>Level monitoring;</li> <li>Pressure monitoring;</li> </ul>	1	

NOTA: las imágenes y características pueden cambiar sin previo aviso.

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		<ul style="list-style-type: none"> <li>● Motor overload protection</li> <li>● Touch screen</li> </ul>		
4.	Control system	<ul style="list-style-type: none"> <li>● Single-channel coordination controller;</li> <li>● Digital controller; (dynamic static common)</li> <li>● With force, displacement, deformation closed-loop control channel;</li> <li>● Control waveforms: sine waves, triangular waves, rectangular waves, combined waves;</li> <li>● Self-memory sensor connector, software switch-free;</li> <li>● Static loading and corresponding control modules</li> </ul>	1	
5.	Accessories	<ul style="list-style-type: none"> <li>● The hose system, the pipeline bus single root 10m;</li> <li>● A set of special fixtures;</li> </ul>	1	

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## Constant pressure servo oil source:

- 5.1, Equipment covers an area of about:  $\geq 10 \times 8m^2$ , ground leveling 0.5mm/1000, hardened ground.
- 5.2, The laboratory shall not have strong magnetic interference, the relative humidity shall not be greater than 85%, and the temperature range shall be 15 to 30 degrees C.
- 5.3, For handling and lifting, 20t cranes or forklifts are required at the scene.
- 5.4, Hydraulic oil 1200 liters, recommended L-HM46 anti-wear hydraulic oil;
- 5.5, Power, 380VAC, 50Hz, three-phase, four-wire system 2 x 45kw, 220VAC, 50Hz, mains 2kw.

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# Computer Control Railway Track Parts Static & Dynamic Testing Machine CWFD-1200A



Railway sleeper and component durability test (including rails, elastic pads, bullet bars and fastening screws)



Bullet strip and elastic pad locking force test

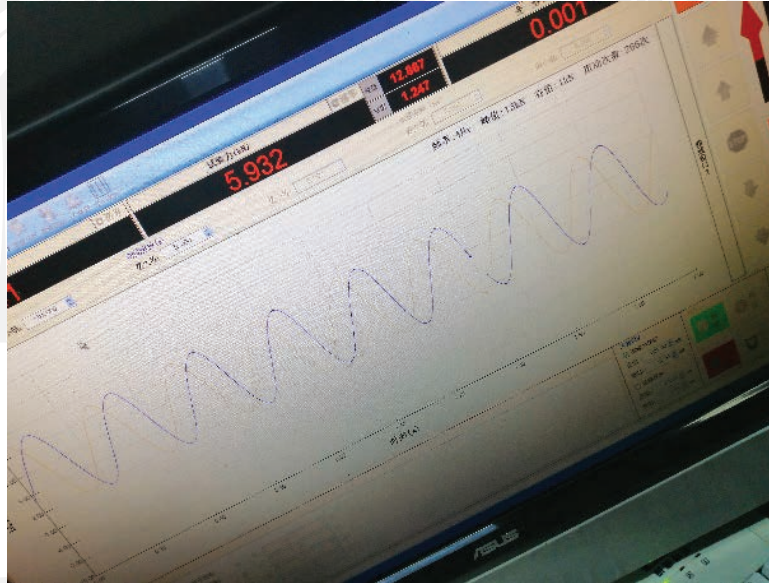
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The control curve under different test frequency, load.

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