



Technical Proposal

1. Host machine

- 1.1. Rack use integrated steel plate welded frame structure; main structure is comprised of front and back Clamp, oil tank and front beam.
- 1.2. Manually push back clamp stand to regulate testing space
- 1.3. Outline is designed as requirement of horizontal testing equipment; make the machine be steady, safe and artistic.

2. Loading structure : 500/1000/2000/3000KN Hydraulic Pump loading

- 2.1. Single action piston and double-direction structure is made as precise processing technique.
- 2.2. Adopt imported SPGO-HBTS seal component to ensure low damp between piston and cylinder.
- 2.3. Use load cell measure axial test force, have high precise displacement measurement with encoder.
- 2.4. The top of piston rod installed ball and socket bearing and flange plate connect it with load cell.

3. Back clamp stand displacement measure device

- 3.1. Back clamp stand is pushed manually to regulate testing space easily.
- 3.2. Displacement of back grip stand is driven by movement of sustain dolly at lead rail.
- 3.3. Testing space range:500~6000mm.

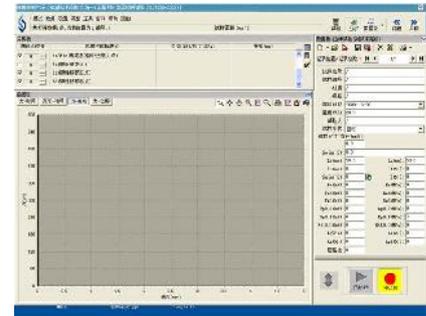
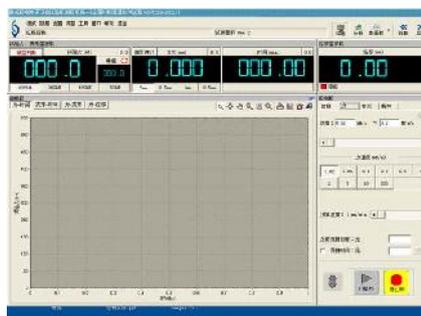
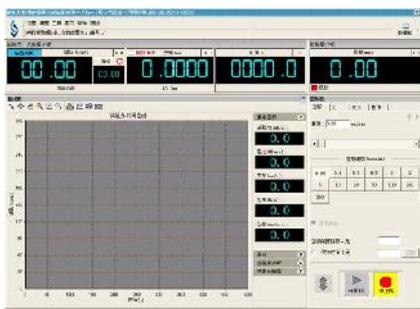
4. Hydraulic pump package

- 4.1. one set 10L/min,30Mpa constant pressure pump.
 - 1) used in 2000kN loading system
 - 2) use well-known brand motor, imported low noise, high pressure gear pump.
- 4.2. Motor is equipped with vibration damper (vibration reduction pad) to reduce vibration and noise.
- 4.3. Oil tank: whole sealing standard oil tank, 80L with oil temperature gauge, oil level indicator, precise press filter and gas filter, additionally have oil temperature, oil level and oil resistance protection and indication device. Oil filter also can be equipped as requirement of real condition.
- 4.4. Strong current controlling system: operation and control console use desk structure, placed in testing and operating area, have special operation panel make operation easily. It will stop automatically or alarm for over-limit oil temperature, filter blocked and over-low oil level.
- 4.5. Pipeline system: master cylinder loading, hydraulic pipeline of grip actuator is connected with high-pressure hose



5. Control system:

- 5.1. Double-channel DSP control card use full digitalized circuit, with the same structure, improved interchangeability of each channel.
- 5.2. Computer Screen control and display show data and test curve.
- 5.3. Have complete data saving, historical data and picture representation function.



Specifications

Parameters	T0015-50	T0015-100	T0015-200	T0015-300
Max test force	500KN	1000KN	2000KN	3000KN
Measuring range of testing force	10~500KN	20~1000KN	40~2000KN	60~3000KN
Accuracy of testing force	±1%			
Resolution of testing force	1/300000 of maximum force and no subsection of all scale			
Testing space	500-6000mm(not including piston stroke)			
Max piston stroke	1000mm			
Displacement measuring range	1000mm			
Resolution of displacement measurement	0.01mm			
Pull head load fast-forward speed	≤200mm/min			
Testing speed	0-80mm/min			
The height of test center	350mm			
Specimen clamping means	According to customer's specimen			
Diameter of wire rope	According to customer's specimen			
Power supply	380V ± 10%, 50/60Hz			
Overall dimension of host machine	9000x1200x500mm			