

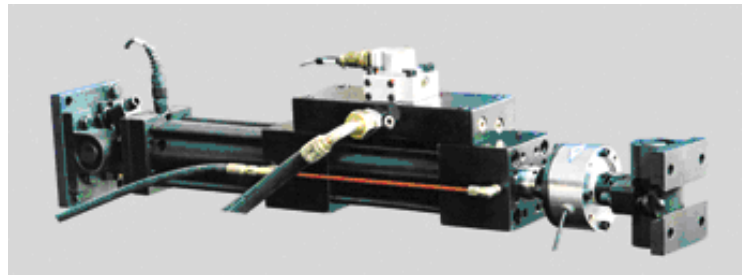
PLS Series Dynamic and Static Electro-Hydraulic Servo Testing Machine**Applications:**

PLS series dynamic and static Electro-hydraulic servo testing machine is produced according to the dynamic servo test technology, and utilizes the design methods of unitization, standardization and modularization, which enhance the stability and reliability of the system. The machine is mainly used for the dynamic and static mechanics performance tests to material and parts, equipped with corresponding accessories, it can do tensile, compression, low cycle and high cycle, crack growth tests and other mechanics tests for various kinds of materials, and it widely used in the fields of aviation and aerospace, ship-making and military industries.



Model		PLS-20/25	PLS-50/100	PLS-250	PLS-500	PLS-1000
Max. load (KN)		20/25	50/100	250	500	1000
Measuring accuracy	Load	≤±0.5/1 from 2%-100%of F. S.				
	Displacement	≤±0.5/1 of F. S.				
	Deformation	≤±0.5/1				
Frequency (Hz)		0.05-50/0.05-100			0.05-30/0.05-30	
Amplitude (mm)		±75/100				
Load frame		Dual columns with actuator on the top or the bottom.			Four columns with the actuator on the top	
Diameter of piston (mm)		φ63	φ105	φ180	φ250	φ300
Space between columns(mm)		500	600	715	840×500	930×590
Test space(mm)		650	750	1200	1500	1500
Dimensions(mm)		850×590 ×2580	900×620 ×2620	1030×747×3 127	1200×1230× 3127	1280×1235× 3940
Weight(kg)		1100	1400	2100	3600	3900
Specimen clamping		Hydraulic clamping				
Test space adjusted		crosshead moved by actuators through hydraulic mode				

- Module unit design. Its feature is low friction, high response, small exposure inside, and strong anti-lateral load capacity.
- It is equipped with universal joint and suitable for several kinds of installation methods (front & back flange, back hinge, foundation installation).
- Double direction piston. Sealing method: guide ring + servo sealing ring.
- LVDT displacement sensor is installed inside actuator and electro-hydraulic servo valve is installed outside actuator. Teflon guide sleeve is installed between LVDT displacement sensor and piston rod, small friction and good guidance can guarantee trouble-free long-time work of sensor.
- Actuator amplitude limit is designed within hydraulic damping area to avoid running out of control.
- Load sensor is set up on the piston rod end.

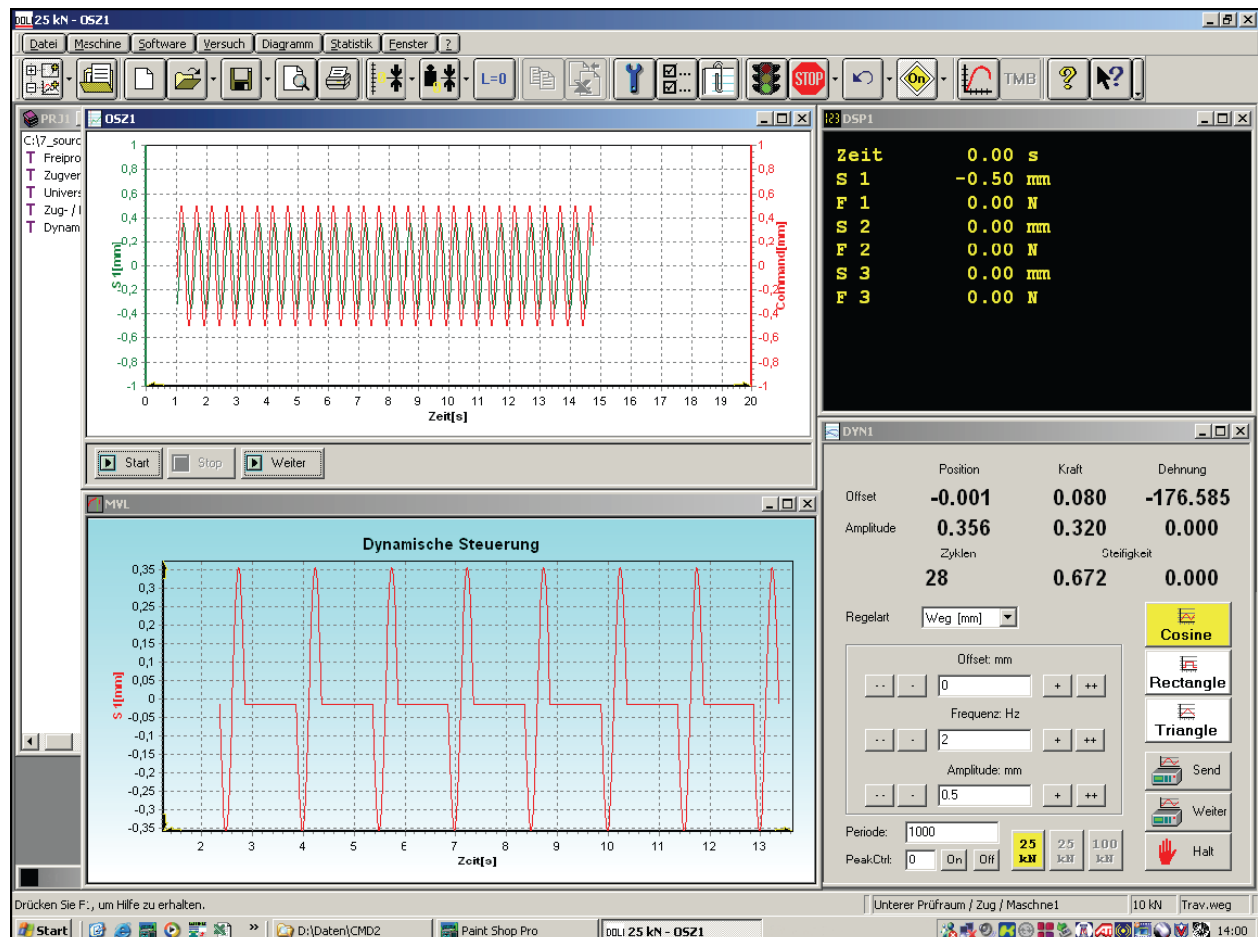


Constant pressure servo pump station is designed and manufactured with standard modularization cell. It is used for electro-hydraulic servo static and dynamic universal testing machine and various electro-hydraulic servo fatigue test machine. It features constant pressure test, high filtration precision, low noises, smooth operation and long service life. The system is protected by automatically shut down or alarming while the temperature or oil level exceeds the limits or oil filter blocking occurs.

[illegible]

Controller:


- Minimal control loop cycle time: 0.4ms
- Encoder SSI input channel (on board): max 32 MHz (app. 300 kHz)
- Digital inputs with 24 Volt level: 8
- Digital outputs with 24 Volt level: 8
- Interface to PC: USB and Ethernet
- General purpose I4 Option slots: 8
- Power supply: 100-250V AC
- internal 24 Volt/2A DC power supply for external devices
- Drive Interface: ± 10 V command output with ± 15 Bit resolution digital command output I/O's and relays for safety functions



JINAN TESTING EQUIPMENT IE CORPORATION

Headquarters: Floor 10th Tower A Century Fortune Plaza High Tech. Zone Jinan 250101, China.
Tel: +86-531-86510531 Ext. 9 Fax: +86-531-86510535

 Solutions for Materials Testing

www.testingequipmentie.com



20-50KN load frame



300KN load frame



500KN load frame



1000KN load frame



100KN load frame for high temp. test



500KN load frame for low temp. test



100KN load frame for absorber test



100KN for dynamic bending test with 'bed'