

WAW-F Series

SINGLE TENSION TESTING MACHINE

WAW-F Servo Hydraulic Tensile Testing Machine is mainly used for tensile test with high efficiency requirement. Equipped with relevant fixtures, this machine can also be used for compression, bending and shearing etc. tests. Constant strain, Constant stress and constant displacement test are available. Strain velocity, stress velocity and displacement velocity conform to the requirement of GB, ASTM, DIN, ISO, JIS, BS etc. metal tensile testing standards.

It is an ideal equipment for tensile test of metal rod, board, screw, steel strand (with special fixture) etc. material with high stiffness.



Technical Specification

Model	WAW-600F	WAW-1000F	WAW-2000F
Machine Class	Class 0.5		
Max. Test Load (kN)	600	1000	2000
Load Measuring Range (kN)	12~600	10~1000	20~2000
Test Load Indicating Accuracy	≤±0.5% of Indicating Value		
Displacement resolution (mm)	0.005		
Displacement Accuracy	≤±0.5% of Indicating Value		
Deformation Resolution (mm)	0.001		
Ram Stroke (mm)	500	600	700
Max. Jaws Distance (mm) (Including piston stroke)	600	700	750
Deformation Measuring Accuracy	≤±0.5% of Indicating Value		
Overload Protection	≥5% of Full Range		
Clamping Method	Hydraulic Wedge Clamping		
Round Specimen Clamping Range (mm)	φ13-φ40	φ15-φ60	φ15-φ70
Flat Specimen Clamping Range (mm)	0-30	0-40	0-50
Column Quantity	4		
Load Frame Dimension (mm)	800×600×2950	1000×810×3730	1300×900×4715
Power (kW)	6	6.5	7
Load Frame Weight (kg)	Approx. 3500	Approx. 6000	Approx. 9000

YAW-300B

COMPRESSION TESTING MACHINE



YAW-300B Computer Controlled Servo Hydraulic Cement Compression Testing Machine is mainly used to do anti-compression strength test of cements. It is the ideal testing machine for cement quality control and a necessary instrument for building projects concerning cement quality control.

Standard

It conforms to ISO679:1989 --- Methods of testing cements; determination of strength

Applications

It is widely used in different quality control departments, and also a ideal machine for colleges and institutes to make the material research.

Technical Specification

Specification	YAW-300B
Max. capacity (KN)	300
Measuring range	4%-100% of FS
Relative error of reading	$\leq \pm 1\%$
Max. distance between two platen (mm)	250
Compression platen size (mm)	$\Phi 150$
Max. piston stroke (mm)	35
Max. piston speed (mm/min)	Approx. 50
Column clearance (mm)	285
Oil pump motor power (KW)	1.5
Load frame dimensions (mm)	540*540*1409
Cabinet dimensions (mm)	620*520*740
Load frame weight (KG)	Approx. 1500
Oil source control cabinet weight (KG)	Approx. 400

YES-2000C

COMPRESSION TESTING MACHINE



The series testing machine is mainly used to the compression test of concrete, cement and cement products, various blocks, hollow bricks, tiles and other ordinary building materials.

Applications

It is widely used in different construction materials works, different project building sites, quality control departments, colleges and institutes as well as other areas and works concerning compression tests.

Technical Specification

Specification	YES-2000C
Max. capacity (KN)	2000
Measuring range	4%-100% of FS
Relative error of reading	$\leq \pm 1\%$
Max. distance between two platen (mm)	420
Compression platen size (mm)	$\Phi 300$
Max. piston stroke (mm)	0-100
Max. piston speed (mm/min)	Approx. 30
Column clearance (mm)	368*318
Oil pump motor power (KW)	1.5
Whole dimensions (mm)	590*580*2050
Whole weight (KG)	Approx. 2000

Features

YAW-2000D computer controlled servo hydraulic compression testing machine is consisted of load frame, servo oil source, control cabinet, computer etc. It adopts hydraulic load, oil pressure transducer to measure load, auto control the testing process by PC-hydraulic servo system. PC screen display the test data and curve, with data analysis, storage and print function.

The load frame is twin leading screw tower structure; crosshead is connected with leading screw through screw nut. Downside of leading screw is fixed on base by snap ring and screw nut. Motor mounted on crosshead, chain wheel and chain rotate nut, reverse the direction of motor to drive crosshead up and down. Upper platen is joined on crosshead through bolts; press block fixed the oil cylinder at center of base. The piston and working table are connected by bolts; lower platen and sphere base are fixed on working bench by fitting pin. When oil enters into oil cylinder, piston will be pushed up, so as to raise working table and lower platen, then to load force on specimen.

Standards

In accordance with or exceed the requirements of the GB/T5224-2003.

Applications

It is mainly used to various materials compression test. Such as cement, concrete, brick of diverse materials, rubber tray, concrete component, metal component anti-compress strength.



Technical Specification

Max. capacity (KN)	2000
Measuring range	4%-100% of FS
Relative error of reading	≤±1%
Max. distance between two platen (mm)	500
Compression platen size (mm)	250*250
Max. piston stroke (mm)	200
Max. piston speed (mm/min)	35
Column clearance (mm)	540
Oil pump motor power (KW)	1.5
Moving motor power(KW)	0.75
Load frame dimensions (mm)	1050*650*1980
Cabinet dimensions (mm)	1100*700*930
Load frame weight (KG)	3500
Control cabinet weight (KG)	300

YAW-2000D

COMPRESSION TESTING MACHINE

YAW-3000A

COMPRESSION TESTING MACHINE



Features

YAW-3000A is consisted of load frame, servo oil source, control cabinet, computer and printer etc. It adopts hydraulic load, oil pressure transducer to measure load, auto control the testing process by PC-hydraulic servo system. PC screen display the test data and curve, with data analysis, storage and print function.

Standards

In accordance with or exceed the requirements of the GB/T5224-2003.

Applications

It is widely used in different construction materials works, different project building sites, quality control departments, colleges and institutes as well as other areas and works concerning compression tests.

Technical Specification

Max. capacity (KN)	3000
Measuring range	4%-100% of FS
Relative error of reading	$\leq \pm 1\%$
Max. distance between two platen (mm)	1000
Compression platen size (mm)	400*400
Max. piston stroke (mm)	200
Max. piston speed (mm/min)	35
Column clearance (mm)	560
Oil pump motor power (KW)	5.5
Moving motor power(KW)	1.5
Load frame dimensions (mm)	1000*1480*3400
Cabinet dimensions (mm)	600*480*960
Load frame weight (KG)	7000
Control cabinet weight (KG)	300

YAW-5000F

COMPRESSION TESTING MACHINE



Features

YAW-5000F Computer Controlled Servo Hydraulic Compression Testing Machine is consisted of load frame, oil source, control cabinet, computer etc. It adopts hydraulic load, oil pressure transducer to measure load. Computer control the test process. PC screen display the test data and curve, with data analysis, storage and print function.

Standards

In accordance with or exceed the requirements of the GB/16826-2008.

Applications

It is mainly used to various materials compression test such as cement, concrete, brick of diverse materials, rubber tray, concrete component, metal component anti-compress strength.

Technical Specification

Max. capacity (KN)	5000
Measuring range	2%-100% of FS
Relative error of reading	$\leq \pm 1\%$
Compression space (mm)	1500
Compression platen size (mm)	700*800
Max. piston stroke (mm)	150
Max. piston speed (mm/min)	50
Measuring range of displacement (mm)	0-150
Up and down speed of crosshead (mm/min)	170
Loading measurement device	Oil transducer
Column clearance (mm)	1000 x 800
Oil pump motor power (KW)	7.5
Moving motor power(KW)	3
Load frame dimensions (mm)	1255 x 1145 x 3900
Cabinet dimensions (mm)	1100 x 700 x 930
Oil source dimension(mm)	1200 x 850 x 1150
Load frame weight (KG)	12000
Control cabinet weight (KG)	300
Oil source weight(KG)	1200

YAW-J Series

COMPRESSION AND SHEARING TESTING MACHINE



Features

YAW-J series computer controlled electro-hydraulic servo compression and shearing testing machine adopts the structure of oil cylinder at the bottom and four columns. The frame has high rigidity, strength and small deformation, which can meet the detection requirements of plate, basin and ball bearings of highway and railway bridges. The test space is stepless adjustable, which is convenient for the test requirements of different heights. It adopts the proprietary multi-channel closed-loop coordinated loading electro-hydraulic loading, continuously load stably, and maintain multi-stage test force. It can automatically collect and store data, draw curves, and print test reports. The computer can control the test process appropriately, display test force and test curve, and the operation is simple and reliable, it is an ideal test equipment for transportation, building materials, metallurgy, aviation, aerospace, universities, scientific research institutions, etc.

Technical Specification

Vertical direction loading part					
item	YAW-5000J	YAW-10000J	YAW-15000J	YAW-20000J	YAW-30000J
Max. Test Load (kN)	5000	10000	15000	20000	30000
Load Measuring Range(kN)	1%-100% of max capacity (kN)				
Test Load Indicating Accuracy	≤±1% of Indicating Value				
Compression testing space	900	1500	1500	1500	1500
Max speed for piston empty loading (mm/min)	50	40	40	40	40
Piston stroke (mm)	150	300	300	300	300
Displacement measuring scope (mm)	0-150	0-300	0-300	0-300	0-300
Crosshead moving speed (mm/min)	170	200	200	200	200
Compression plate(mm)	700x800	1050x1050	1200x1200	1350x1350	1500x1500
Deformation measurement	Measurement of vertical deformation of specimen with four grating ruler digital displacement sensors				
Load Frame Dimension (mm)	4100x1145x3200	7000x1900x4900	7600x2340x5000	8000x2340x5150	9000x2500x5300

YAW-J Series

COMPRESSION AND SHEARING TESTING MACHINE

Technical Specification

Horizontal shearing part					
item	YAW-5000J	YAW-10000J	YAW-15000J	YAW-20000J	YAW-30000J
Max. Test Load (kN)	1000	2000	3000	4000	6000
Load Measuring Range(kN)	2%-100% of max capacity (kN)				
Test Load Indicating Accuracy	≤±1% of Indicating Value				
Piston stroke (mm)	200	200	300	300	300
Displacement measurement accuracy	±1%				
Displacement measuring scope (mm)	0-200	0-200	0-300	0-300	0-300
Deformation measurement	Measurement of vertical deformation of specimen with four grating ruler digital displacement sensors				
Deformation measurement scope	0-150mm				

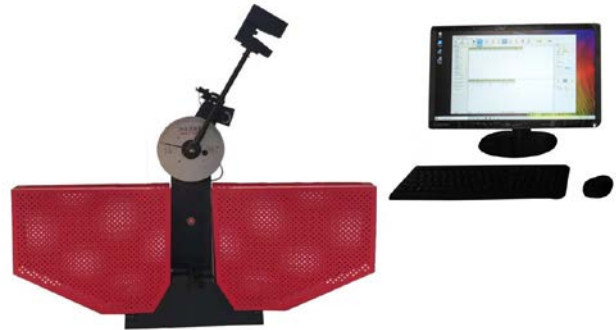
Corner part					
item	YAW-5000J	YAW-10000J	YAW-15000J	YAW-20000J	YAW-30000J
Max. load for corner (kN)	300	600	1000	1500	2000
Load Measuring Range(kN)	4%-100% of max capacity (kN)				
Test Load Indicating Accuracy	≤±1% of Indicating Value				
Piston stroke (mm)	150	150	200	200	200
Displacement measurement accuracy	±1%				
Displacement measuring scope (mm)	0-150	0-150	0-200	0-200	0-200
Deformation measurement	Measurement of vertical deformation of specimen with four grating ruler digital displacement sensors				
Deformation measurement scope	0-20mm				

JB-300B/JB-W300A

IMPACT TESTING MACHINE



JB-300B



JB-W300A

Features

- Mainly used to determine the anti-impact capability of ferrous metal materials with high toughness, especially for steel and iron and their alloy, under dynamic load.
- This machine can be operated semi-automatically. The pendulum of the machine can be raised or released automatically. Be applicable for continuing testing in different kinds of laboratories and other metallurgy industrial manufactories.
- It is designed and developed according to standard of ISO148-2-1998, ASTM-E23-98 and GB/T 3808-22-002.
- What's more, this machine can be equipped with an optional digital display box or equipped with a computer.

Technical Specification

Impact energy	150J, 300J (15Kgfm, 30Kgfm) each
Impact velocity	5.2m/s
Pendulum Rising Angle	150°
Standard span	40mm
Accuracy	1J Dial indicate (0.1 Kgfm)
Round angle radius of Grips	R1-1.5mm
Round angle radius of striking edge	R2-2.5mm
Size of specimen	10x10x55mm
Power supply	3 Phase, 380V, 50Hz, 180W
Dimension	2124mm x 600mm x 1340mm
Net weight	450kg

JB-500B/JB-W500A

IMPACT TESTING MACHINE



JB-500B



JB-W500A

Features

It is mainly used to determine the anti-impact capability of ferrous metal materials with high toughness, especially for steel and iron and their alloy, under dynamic load.

This machine can be operated semi-automatically. The pendulum of the machine can be raised or released automatically. Be applicable for continuing testing in different kinds of laboratories and other metallurgy industrial manufactories.

It is designed and developed according to national standard GB/T3808-1995 "Pendulum Impact Testing Machine" and ISO148-2, ASTM, and do impact test for metal material according to the GB/229-1994 "Charpy Impact Test Method for metals".

Technical Specification

Max. striking energy	250J, 500J
Pendulum preparing angle	150°
Distance between pendulum center and impact point	800mm
Impact velocity	5.4m/s
Span of specimen seat	40mm
End face radius of specimen seat	1~1.5mm
Radius of impact knife	2~2.5mm
Angle of impact knife	30°±1°
Thickness of impact knife	16mm
Specifications of specimen	10×10×55mm
Net weight	About 550kg
Dimension	800×578×1450mm
Power supply	3 phases 4 lines, 50Hz, 380V
Power of motor	180W

JB-WE Series

AUTOMATIC CHARPY IMPACT TESTING MACHINE



Applications

Full Automatic Impact Testing Machine was widely used in mechanical metallurgy, aerospace engineering, vessel building, academy and institute, and nuclear power engineering fields which has high requirement on temperature testing with high efficiency.

Features

- Japan Panasonic PLC control. RS-232 Port data transmission
- Auto feeding & specimen placing system adopt Japan made pneumatic components for high accuracy locating.
- Omron (Japan) 3600 wires encoder resolution 0.1°, which is 10 times higher than common dial display impact tester.
- Double-column structure increased machine stiffness greatly. Finite Element Analysis (FEA) was conducted for the whole frame. Pedestal of mainframe and upright stand are integrally cast, which ensures good rigidity and improves the stability of test. Double-column structure with reasonable radial loading distribution of bearing decreased the energy loss caused by the friction of bearing largely.
- Worm & gear and decelerator motor system for pendulum rising. Special double-ring electric-magnet clutch torque can be up to 1000NM.
- Fully-closed alum protective cover ensures the safety of operator and avoids the splitting of fractured specimen.

Technical Specification

Model	JB-W300E	JB-W450E	JB-W750E
Impact energy (J)	300J	450J	750J
Pendulum moment (NM)	160.77NM	241.1576NM	401.93NM
Impact velocity (m/S)	5.4		
Pendulum Rising Angle °	150		
Distance between Axis of Pendulum Shaft and Striking Center (mm)	750		
Anvil span (mm)	40		
Anvil radius circular Arc radius (mm)	1-1.5		
Impact knife radius of curvature (mm)	2-2.5		
Impact knife angle °	30		
Impact knife width (mm)	16		
Min. resolution of indicator (J)	0.1		
Control system	PLC Control		
Display mode	Touch screen, Computer, Dial (Optional)		
Specimen size	55x10x10mm		
Pendulum weight	300J	450J	750J(with weight)
Machine weight (kg)	1000		
Outer dimension (mm)	2100x835x2100		
Main power	50HZ, 380V, 550W		

Accessories

IMPACT TESTING MACHINE



**L71-UV Broaching Machine
for Impact Specimen**

This machine is designed for providing the specimens used in the impact testing tasks. L71-UV may cut notch on the specimen for only one time. Beside, it has advantages of high precision, long life, low noise and concise appearance etc.

Technical Specification

Notch types	V type, U type 2mm notch
Size of Specimen	ASTM E23 type
Travel of cutting knife	330mm
Cutting speed	2.6m/Min
Dimension	460mm x 610mm x 1400mm
Power supply	415V / 50Hz
Weight	100kg



DWC-60A Low Temperature Chamber

DWC-60A is a semiconductor cryogenic equipment for the impact test specification as to ISO and ASTM. This equipment have no chemical pollution, no noise. It is easy to operate and high precision.

Technical Specification

Power supply	380V, 50Hz, 3 phase
Temperature range	room temperature to -60°C
Dimension of the cryogenic groove	120 x120 x120mm
Time of the temperature descent	to -60°C ≤90min
Accuracy of the system	±1.5 °C
Indication method	LED digital display
Need water source	Yes
Dimension	Cryogenic cabinet: 300 x 300 x 400mm Control box: 450 x 500 x750

TLS-S II Series

SPRING TENSION & COMPRESSION
TESTING MACHINE



Features

TLS-S II Series Automatic Dual Digital Display Tension & Compression Testing Machine is a new spring testing instrument, which uses several advanced technologies so as to further improve the test accuracy and ensure the testing efficiency. The test load is divided into 3 grades so that the measuring range is expanded. The machine can test 9 testing points at different speeds and return to the initial position automatically. 6 types of files can be stored for future usage. It can also auto-revise the displacement of the load cell. What is more, the machine also has functions of peak value holding, overload

protection, zero clearing at any test point, stiffness calculation, data retrieval, etc.

This series spring tester also can be controlled by computer according to add a computer system as an optional part.

Applications

It is suitable for the test of all kinds of coil spring.

Technical Specification

Model	TLS-S100II	TLS-S200II	TLS-S500II	TLS-S1000II	TLS-S2000II
Max. test load (N)	100	200	500	1000	2000
Measuring capacity	4%-100% of max capacity				
Min. test load of reading (N)	0.01				
Min. test load of Stroke (mm)	0.01				
Max. distance between tension hooks (mm)	350				
Max. distance between compression plate(mm)	350				
Diameter of upper and lower plates(mm)	Φ100				
Max. Stroke (mm)	350				
Testing speed (mm/min)	0.5-500				
Classification of machine	0.5 Class (+/-0.5%)				
Net weight (kg)	90				
Machine size	810x685x1050mm				
Power supply	220V 50Hz single phase				

TNS-S Series

SPRING TORSION TESTING MACHINE



Features

- The tester consists of torsion transducer, photoelectric encoder, measurement amplifying circuit and single chip processor. The torsion angle and torque are digitally displayed.
- It can pre-set the upper and lower limits of torques for 4 points and automatically check whether four test points are qualified.
- Automatically revise the angle displacement of torsion transducer.
- Functions of peak value holding, overload protection, torque stiffness calculation and data retrieval, etc.

Applications

TNS series testing machine is mainly used for testing the torsion angle and torque of various torsion springs, coil springs, elastic components and other friction structures.

Technical Specification

Model	TNS S50	TNS S100	TNS S200	TNS S500	TNS S1000	TNS S2000	TNS S5000	TNS S10000	TNS S20000	TNS S50000	TNS S100000	TNS S200000
Max. torque (N.mm)	50	100	200	500	1000	2000	5000	10000	20000	50000	100000	200000
Resolution (N.mm)	0.01	0.01	0.01	0.01	0.1	0.1	0.1	1	1	1	10	10
Max. torsion angle (°)	9999.9											
Min. reading of torsion angle (°)	0.1											
Accuracy	+/-1%											
Max. distance between 2 torsion plates	≤70mm			≤160mm				≤260mm				
Loading	Manual											
Machine size	600x500x400									900x500x600		
Net weight	50kgs									180kgs		
Measuring scope	10-100% of full scales											
Diameter of plate	100mm											
Power supply	AC, 220V 50Hz											

TNS-S-I Series

SPRING TORSION
TESTING MACHINE



Features

- Torque and torsion angle are both digitally displayed
- Torque is tested in 2 grades (100% and 20%), which expanded the measuring range
- Motorized and manually loading, easy to operate
- Preset the torsion angle and times, and it will automatically perform continuous twisting and eliminate the residual strain
- All the testing process is automatic: Preset the known parameters of 5 points, and the other process will be automatically .
- Conducted: auto speed adjustment, auto data collection, auto return, auto stiffness calculation and test report print.
- Able to test permanent torsion deformation.

Applications

This series is mainly used for torsion test of all kinds of torsion springs.

Technical Specification

Model	TNS 100I	TNS 200I	TNS S500I	TNS S1000I	TNS S2000I	TNS S5000I	TNS S10000I	TNS S20000I	TNS S50000I	TNS S100000I	TNS S200000I	
Max. torque (N. mm)	100	200	500	1000	2000	5000	10000	20000	50000	100000	200000	
Resolution	0.01	0.01	0.01	0.1	0.1	0.1	1	1	1	5	5	
Max. torsion angle (°)	9999.9											
Min. reading of torsion angle (°)	0.1											
Accuracy	±0.5%											
Max. distance between 2 torsion plates	≤70mm		≤160mm				≤260mm					
Loading	Auto loading (motor, high accuracy ball bear screw column, overloading protection, limited switch)											
Machine size	800x500x400								900x500x600			
Net weight	70kgs								180kgs			
Measuring scope	4%-100% of full scales											
Speed	0.01-10rpm/min											
Diameter of plate	100mm											
Power supply	AC, 220V 50Hz											

TNS-S-L Series

SPRING TORSION
TESTING MACHINE



Features

- Vertical clamping, avoid the non-negligible friction force for small-sized springs.
- The torsion angle and torque are both digitally displayed.
- Manual loading, rotation direction can be either left or right.
- Compact in mechanism, easy to operate, and quick to test.

Applications

This series of testing machines is mainly applicable for testing the torsion angle and torque of various kinds of small-sized torsion springs, coil springs, elastic components and other friction structures.

Technical Specification

Model	TNS--S50L	TNS--S100L	TNS--S200L	TNS--S500L	TNS-S1000L	TNS--S2000L
Max. torque (N.mm)	50	100	200	500	1000	2000
Min reading of torque (N.mm)	0.01	0.01	0.01	0.01	0.1	0.1
Max. torsion angle (°)	9999.9					
Min. reading of torsion angle (°)	0.1					
Classification of testing machine	Class 1(+/-1%)					
Max. length of spring (mm)	70					
Diameter of torsion plate (mm)	100					
Power supply	AC, 220V 50Hz					

PWS-E100

SERVO HYDRAULIC
FATIGUE TESTING MACHINE



Main Application

This machine is mainly used to make test on Metal / Non-metal materials and other component parts for the Traction / Compression / High-Low frequency fatigue testing experiments. By equipping with different software, this machine is able to achieve all kinds of mechanical function experiments. PWS series Fatigue Testing System is widely be adopted by Aerospace industry, Vessel Production and Military industries for the material fatigue testing.

Technical Specification

Model No.	PWS-E100
Machine Type	Floor type, Twin columns structure.
Max static load capacity	100kN
Max dynamic load capacity	±100kN
Max. amplitude of actuator	±250mm, ±0.5 % F.S
Accuracy of Load cell	0.5%
Accuracy of displacement	0.5% F.S
Accuracy of deformation	0.5%
Frequency range	0.1 ~250Hz
Main Test curve	Sine wave, Square wave, Triangle wave, Oblique wave and other input wave
Distance of two columns	620mm
Max testing space:	1100mm
Servo-Hydraulic Pumping oil source	46L/min, 21Mpa, Power 18KW
Counter capacity	0~99999999
Net weight of mainframe	1800kG
Load frame size	890x620x2600mm
Pump size	1500x1200x1200mm

Features

- PQW-1500 is mainly consists of load frame, display unit, control unit, test attachment, etc..
- The load frame adopts vertical welding structure design, which is easily to install specimen. Rotating drive force adopts variable frequency speed-controlling motor to realize stepless speed adjusting. Drive motor is installed inside the frame to make the whole structure more compact. The specimen installed part equips protection cover to guarantee the safety. Bend loading method adopts servo electric cylinder loading, imported load cell measures loading force, load cell adopts anti-fatigue type load cell to meet the requested long time fatigue life. Centering device makes the specimen installed more convenient. Run out measuring mechanism of main shaft measures its centering situation via displacement sensor to guarantee the test result is accurate and reliable, and at the same time it can test the bend situation of main shaft during test to realize the function of emergency stop of wheel drum fatigue damage.
- By configured with heavy-current control box, it completes the drive control to motor.
- Computer control unit uses special controller to complete signal amplify as well as A/D conversion of load cell. The computer software is on Windows basis with the function of dynamic display test load, store and output test report. The report can be printed by printer.
- This machine equips many kinds of safety protection function, the software can set up test times stop, specimen broken stop, overload stop, offset to reach main shaft stop, etc.. The safety protection cover is installed on the top of machine.

Applications

It is mainly used to do rolling bend fatigue testing of Motorcycle or Light Motorcycle. It adopts electric measure, stepless adjusting test speed, fast and effectively installing grips. It is provided with output to computer to realize extended function.

PQW-1500

BEND FATIGUE TESTING MACHINE



Standards

It meets the standards of ISO8644:2006, QC/T211-1996, QC/T212-1996, JASO T 203-85, ISO8644-1988, ISO8645-1988, GB/T6147-92

Technical Specification

Max. bend torque	1500Nm
Max. test force	5000N
Wheel rim width	1.25" – 8"
Measuring accuracy of rotation speed	±1%
Basic length of arm	700mm (adjustable)
Range of rotation	0 – 800 r/min
Display of rotation speed and accumulated test times	106
Diameter of tested wheel	10 – 19 inch
Power of motor	≤4.2KW
Radial run out of rotating disc	≤0.2mm

Features

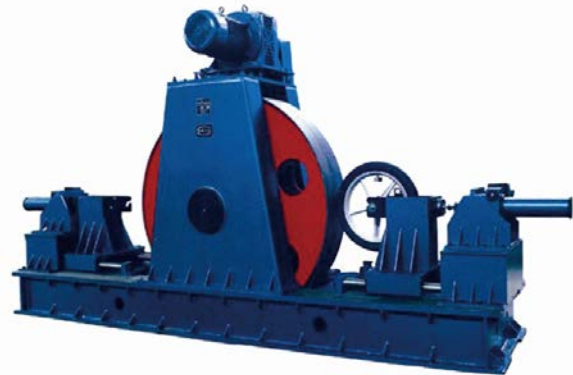
- P JW-10II mainly consists of load frame, computer control unit, heavy-current control unit, test attachment, etc..
- The load frame adopts welding structure design, horizontal loading, big drum adopts international standard to design, design diameter 1707mm, realistic simulation the status of road surface, variable frequency speed-adjusting motor drives drum to realize stepless speed-adjusting, further to realize test under different driving speed. Loading frame adopts low damping linear part drive, and servo motor drive closed-loop control, to make load cell completing the measurement to loading force, so as to realize closed-loop control of fatigue test load, as well as realize the function of emergency stop of wheel drum fatigue damage.
- The test process is automatically controlled via computer. After the test load, test miles are set up via computer, computer will control servo motor to load automatically, and auto stop when reach test miles.
- Computer control system equips safety protection, when over load, burst, wheel damage, etc. contingency happen, the machine will unload and stop automatically.
- Configured with heavy-current control box to complete drive control of excitation speed-adjusting motor, it has the function of power on, power off, motor start, motor stop, increase and decrease of rotation speed.
- The servo controller and computer complete test control and operation. The computer software is on WINDOWS basis, with the function of test parameters setting, dynamic test waves display, test data store, output test report, etc.
- The report can be printed by printer.

Applications

It is mainly used to do rolling bend fatigue testing of Motorcycle or Light Motorcycle.

PJW-10II

LOAD FATIGUE TESTING MACHINE



Standards

It meets the standards of QC/T211-1996, QC/T212-1996, JASO T 203-85, ISO8644-1988, ISO8645-1988, GB/T6147-92.

Technical Specification

Max. test force	10KN
Resolution	±1% of 20%FS
Linear velocity of drum surface	over 180km/h
Wheel rim width	1.25" – 8"
Diameter of drum	1707mm
Width of drum surface	300mm
Display accumulated test times and test miles	106
Range of speed adjusting of wheel frame	50 – 400 r/min
Diameter of tested wheel	200 – 770mm (After tyred)
Power of motor	15KW

Features

PNW-2000 is mainly composed of three parts: the load frame, the electric control cabinet and the microcomputer measurement and control system. The servo electric cylinder reciprocates up and down by connecting the load cell, and then drives the booster arm to reciprocate up and down to turn the torsion of the force arm, thereby applying a torque to the wheel.

Standards

It meets the standards of GB/T 22435-2008 , QC/T211-1996, QC/T212-1996, JASO T 203-85, ISO8644-1988, ISO8645-1988, GB/T6147-92.

Applications

It is mainly used to complete torsion fatigue test and inspection to light alloy wheel of Motorcycle or Light Motorcycle.



PNW-2000

TORSION FATIGUE TESTING MACHINE

Technical Specification

Max.torque	2000 Nm
Max.load	5000N
Wheel rim width	1.25" – 8"
Resolution	±1% of 20%FS
The arm of force	600mm
Frequency	1-5HZ
Accuracy	≤±5%
Diameter of tested wheel	10-19 inch
Displayed test times	106



Features

JLS-1600 mainly consists of main frame and electric control cabinet. Motor reducer drives crosshead and pendulum, which connected by safety pin, up and down via steel wire. Lock pin and returning pin of pendulum will be carried out by cylinder manually. The main frame is fixed on the base by two columns, the crosshead on the upper end of which is connected with pendulum through safety pin. The lock pin and returning pin are carried out by cylinder manually. The crosshead and pendulum will be up and down via steel wire driven by motor retarder. Pendulum can carry out the second impact on the specimen thanks to its twice impact mechanism.

Standards

It meets the standards of ISO8644, QC/T211-1996, QC/T212-1996, GB/T6147-92.

Applications

It is mainly used to complete impact fatigue test to light alloy wheel of Motorcycle or Light Motorcycle.

JLS-1600

IMPACT TESTING MACHINE

Technical Specification

Weight of Main impact pendulum	800kg
Weight of basic impact pendulum	150kg
Weight of impact pendulum I	40kg (12pc)
Weight of impact pendulum II	30kg (3pcs)
Weight of impact pendulum III	20kg (2pcs)
Weight of impact pendulum IV	10kg (3pcs)
Weight of impact pendulum V	5kg (2pcs)
Weight of impact pendulum VI	1kg (4pcs)
Weight of assistant pendulum	40kg
Stiffness of Spring	300±10kgf/cm
Width of impact pendulum head	Not less than 200mm
Max. Displacement of impact pendulum	50 - 500mm
Wheel rim width	1.25" – 8"
Rear outer diameter of wheel (After installing tire)	φ260~φ770mm
Max. span width of supporting	155mm
Digital display	Impact height of pendulum
Digital display	Impact energy of pendulum
Air source pressure	0-0.7Mpa.(Air source provided by user)
Motor power	≤1kW
Operation noise	≤75dB

TIME Robots



R6-1400



R20-1700



R80-2100



R220-2650

Technical Specification

Item	R6-1400	R20-1700	R80-2100	R220-2650
Controlled Axes	6			
Max. Load Capacity At Wrist (kg)	6kg	20kg	80kg	220kg
Repeatability (mm)	±0.08mm		±0.1mm	±0.2mm
Reach (mm)	1420mm	1710mm	2100mm	2650mm
Driving mode	AC Servo motor			
Mounting Method	Floor, Side, Hoisting	Floor, Side, Hoisting	Floor	Floor
IP grade	IP54	IP54	IP67	IP54
Environment temperature	0-45°C			
Relative humidity	20-80RH Non-condensing			
Vibration	≤0.49g			
Others	Far away from flammable or corrosive liquid			
Power supply capacity	1.5kVA	2kVA	5kVA	220/380V, 50-60HZ
Mechanical Weight (About)	160kg	280kg	750kg	1350kg