



Universal Testing Machine have a wide range of applications. A number of materials, metals in different form and shapes can be tested for variety of tests like Tension, Compression, Transverse, Bend, Shear, Brine Hardness etc. Special attachments are also available for testing of Flat Belts, Chain Links, Wire Ropes etc. Aviation aluminum color screen, digital display test force, deformation and load curve, automatic record test data, print the test results. It also can connect with computer to display and process the test date.



Model	WE-100B	WE-300B	WE-600B	WE-1000B
Max load capacity(kN)	100	300	600	1000
Structure type	Underneath oil cylinder, Six stand column, double screw, Protect cover, Coil spring buffer device			
Accuracy class	Class one(Class 0.5)			
Sensor type	Load sensor		Pressure sensor	
Maximum speed of sentre sill (mm/min)	320	320	320	320
Compression space (mm)	500	600	600	600
Tensile space (mm)	600	700	700	700
Piston stroke (mm)	200	200	200	200
Diameter of round specimen (mm)	Dia. 6-22	Dia.10-32	Dia.13-40	Dia. 14-45
Thickness of flat specimen (mm)	0-15	0-20	0-20	0-40
Maximum distance of bending test (mm)	300	300	300	300
Size of compression plates (mm)	Dia.110	Dia. 150	Dia. 200	Dia. 225
Dimension (load frame mm)	800×620×1850	800×620×1870	800×620×1900	900×700×2250
Dimension (control console mm)	550×500×1200	550×500×1200	550×500×1200	550×500×1200
Power	380V(220V optional), 50Hz(60Hz optional), 1.1kW	380V(220V optional), 50Hz(60Hz optional), 1.8kW	380V(220V optional), 50Hz(60Hz optional), 2.2kW	380V(220V optional), 50Hz(60Hz optional), 2.2kW
Weight (load frame kg)	160	160	160	160
Weight (control console kg)	1400	1500	1800	2500



WEW SERIES UNIVERSAL TESTING MACHINE

Model	WEW-100B	WEW-300B	WEW-600B	WEW-1000B
Max load capacity(kN)	100	300	600	1000
Structure type	Underneath oil cylinder, Six stand column, double screw, Protect cover, Coil spring buffer device, Hydraulic automatic clamping			
Maximum speed of sentre sill(mm/min)	320	320	320	320
Compression space (mm)	500	600	600	600
Tensile space(mm)	600	700	700	700
Piston stroke (mm)	200	200	200	200
Diameter of round specimen (mm)	Dia. 6-22	Dia.10-32	Dia.13-40	Dia. 14-45
Thickness of flat specimen(mm)	0-15	0-20	0-20	0-40
Maximum distance of bending test(mm)	300	300	300	300
Size of compression plates (mm)	Dia.110	Dia. 150	Dia. 200	Dia. 225
Dimension (load frame mm)	800×620×1850	800×620×1870	800×620×1900	900×700×2250
Dimension (control console mm)	800×600×1600	800×600×1600	800×600×1600	800×600×1600
Power(kW)	380V(220V optional), 50Hz(60Hz optional), 2.2kW	380V(220V optional), 50Hz(60Hz optional), 2.2kW	380V(220V optional), 50Hz(60Hz optional), 2.2kW	380V(220V optional), 50Hz(60Hz optional), 2.2kW
Weight (load frame kg)	300	300	300	300
Weight (control console kg)	1450	1600	1900	2600

FEATURES

- Dual-test space design, under-cylinder, four-column-double-screw frame structure, compact structure;
- Hydraulic clamping, don't skip, and can be increased special fixture with the shoulder, thread, strand;
- Durable chrome-plated column for easy cleaning and a long-lasting-life;
- 12v Hand operation box makes the operation more convenient and flexible;
- High-precision load cell directly measures force, strong resistance to lateral and impact;
- By using high pressure internal gear pump, the noise is less than 60 db under full load;
- The hydraulic system uses pressure servo technology, the system pressure always follow up with the working pressure, and thus more energy saving;
- While computer-controlled, with manual operation so that customers have more choices to use;
- With hardware and software overload protection;
- Advanced and reliable PCI bus technology to improve the speed of data acquisition, control signal response and control accuracy.



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WAW SERIES UNIVERSAL TESTING MACHINE

Model	WAW-100B	WAW-300B	WAW-600B	WAW-1000B
Max load capacity(kN)	100	300	600	1000
Structure type	Underneath oil cylinder, Four stand column, double screw, Protect cover, Coil spring buffer device			
Accuracy class	Accuracy class: Class 1(0.5)			
Test force range	1%-100% F.S	1%-100% F.S	1%-100% F.S	1%-100% F.S
Test force accuracy	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)
Measuring range of deformation	1%-100% F.S	1%-100% F.S	1%-100% F.S	1%-100% F.S
Deformation accuracy	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)
Displacement accuracy	±1%	±1%	±1%	±1%
Displacement resolution	0.001mm	0.001mm	0.001mm	0.001mm
Relative error of stress-controlled velocity	±2%(±1%)	±2%(±1%)	±2%(±1%)	±2%(±1%)
Speed setting accuracy	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)
Adjusting range of strain-controlled velocity	0.00025/s-0.0025/s	0.00025/s-0.0025/s	0.00025/s-0.0025/s	0.00025/s-0.0025/s
Relative of force/extension/displacement-control	±2%(±1%)	±2%(±1%)	±2%(±1%)	±2%(±1%)
Range of force/extension/displacement-control	0.3%-100% F.S	0.3%-100% F.S	0.3%-100% F.S	0.3%-100% F.S
Relative error of force/extension/displacement-control	≤ 1%	≤ 1%	≤ 1%	≤ 1%
Lifting speed of middle beam (mm/min)	320	320	320	320
Compression space(mm)	500	600	600	600
Tensile space (mm)	600	700	700	700
Piston stroke (mm)	200	200	200	200
Diameter of round specimen (mm)	Dia. 6-22	Dia.10-32	Dia.13-40	Dia. 14-45
Thickness of flat specimen (mm)	0-15	0-20	0-20	0-40
Maximum distance of bending test (mm)	300	300	300	300
Size of compression plates(mm)	Dia.110	Dia. 150	Dia. 200	Dia. 225
Dimension (load frame mm)	800×620×1850	800×620×1900	800×620×2000	9900×700×2300
Dimension (control console mm)	800×600×1600	800×600×1600	800×600×1600	800×600×1600
Weight (load frame kg)	300	300	300	300
Weight (control console kg)	1450	1600	1900	2600

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FEATURES

- Dual-test space design, under-cylinder, four-column-double-screw frame structure, compact structure;
- Brand NACHI Gear pump, Hydraulic clamping, don't skip, and can be increased special fixture with the shoulder, thread, strand;
- Durable chrome-plated column for easy cleaning and a long-lasting-life;
- 12v Hand operation box makes the operation more convenient and flexible;
- High-precision load cell directly measures force, strong resistance to lateral and impact;
- By using high pressure internal gear pump, the noise is less than 60 db under full load;
- The hydraulic system uses pressure servo technology, the system pressure always follow up with the working pressure, and thus more energy saving;
- While computer-controlled, with manual operation so that customers have more choices use;
- With hardware and software overload protection;
- Advanced and reliable PCI bus technology to improve the speed of data acquisition, control signal response and control accuracy.





TINENG

UNIVERSAL TESTING MACHINE



WAW SERIES UNIVERSAL TESTING MACHINE

Model	WAWD-300B	WAWD-600B	WAWD-1000B	WAW-2000B
Max load capacity(kN)	300	600	1000	2000
Structure type	Underneath oil cylinder, Four stand column, double screw, Protect cover, double space			
Accuracy class	Class 1(0.5)	Class 1(0.5)	Class 1(0.5)	Class 1(0.5)
Test force range	1%-100% F.S	1%-100% F.S	1%-100% F.S	1%-100% F.S
Test force accuracy	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)
Measuring range of extension:	1%-100% F.S	1%-100% F.S	1%-100% F.S	1%-100% F.S
Extension accuracy	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)
Displacement accuracy	±1%	±1%	±1%	±1%
Displacement resolution	0.001mm	0.001mm	0.001mm	0.001mm
Relative error of stress-controlled velocity	±2%(±1%)	±2%(±1%)	±2%(±1%)	±2%(±1%)
Speed setting accuracy	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)	±1%(±0.5%)
Adjusting range of strain-controlled velocity	0.00025/s-0.0025/s	0.00025/s-0.0025/s	0.00025/s-0.0025/s	0.00025/s-0.0025/s
Relative of force/extension/displacement-control	±2%(±1%)	±2%(±1%)	±2%(±1%)	±2%(±1%)
Range of force/extension/displacement-control	0.3%-100% F.S	0.3%-100% F.S	0.3%-100% F.S	0.3%-100% F.S
Relative error of force/extension/displacement control	≤ 1%	≤ 1%	≤ 1%	≤ 1%
Lifting speed of middle beam (mm/min)	320	320	320	350
Compression space(mm)	600	600	600	650
Tensile space (mm)	700	700	700	800
Piston stroke (mm)	200	200	200	250
Diameter of round specimen (mm)	Dia. 10-32	Dia.13-40	Dia. 14-45	Dia. 20-70
Thickness of flat specimen (mm)	0-20	0-20	0-40	0-50
Maximum distance of bending test (mm)	300	300	300	-
Size of compression plates(mm)	Dia.150	Dia. 200	Dia. 225	240×240
Dimension (load frame mm)	800×620×2000	900×700×2300	1050×800×2500	1200×900×2850
Dimension (control console mm)	800×600×1600	800×600×1600	800×600×1600	800×600×1600
Power	380V(220V optional), 50Hz(60Hz optional), 3.2kW	380V(220V optional), 50Hz(60Hz optional), 3.2kW	380V(220V optional), 50Hz(60Hz optional), 3.2kW	380V(220V optional), 50Hz(60Hz optional), 4.0kW
Weight (load frame kg)	300	300	300	300
Weight (control console kg)	1850	2550	3200	6000

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