



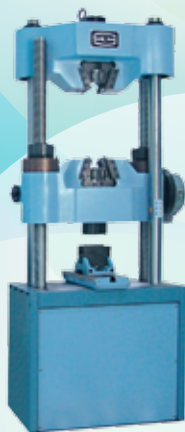
ALATUJI

Products, Solution, Services

MATERIALS TESTING MACHINE



WDW E Series



WAW E Series



WEW E Series

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Main Application

WDW Series is a new kind of electronic universal testing machine produced by TIME-Shijin Group, which adopts the most advanced and reliable load frame structure of ball screw electric mechanical universal testing machine of the world. The driving system adopts AC servo timing system and motor from Panasonic Co. Ltd. of Japan. The PC controlling system is able to realize the close-loop control of the parameters such as loading force, specimen deformation, and crosshead stroke etc. The system realizes the screen display, online diagram drawing, testing curve changing, fold curve collation and auto analysis of test results, creation of test report. Especially, the application of the control mode can be manual control or computer programming control which makes the cyclic tests become available.



Main Technical Specifications:

| Specifications | WDW-600/500 | WDW-300E | WDW-200E | WDW-100E- | WDW-50E | WDW-30/20/10 | WDW-5E/2E/E1 |
|--|--|-----------------------|---------------|---------------|--------------|---------------------|--------------|
| • Capacity (kN) | 600/500 | 300 | 200 | 100 | 50 | 30/20/10 | 5/2/1 |
| • Load frame Stiffness (kN/mm) | 1000 | 600 | 400 | 300 | 250 | 80 | 30 |
| • Load range | .4%-100% of the max load | | | | | | 2%-100% |
| • Accuracy of test load | ≤±0.5% | | | | | | |
| • Test Space | Single / Double test space | | | | | | Single |
| • Precision of Ball Screws | 16μm/300mm E level | | | | | | |
| • Accuracy of deformation | <±1% within the 2%-100% full range of the extensometer (accuracy level±0.5%) | | | | | | |
| • Crosshead stroke accuracy | 0.001mm | | | | | | |
| • Accuracy of indication value of test load | <±1% (accuracy level±0.5%) | | | | | | |
| • Resolution of load | 1/200000 of the max load force | | | | | | |
| • Scope of deformation measure | 2%-100% FN | | | | | | |
| • Accuracy Indication of deformation | within ±1% of indication value | | | | | | |
| • Scope of deformation measure | 10mm-800mm | | | | | | |
| • Resolution of crosshead stroke | 0.001mm | | | | | | |
| • Adjustment scope of test speed under Load control mode | 0.005-5%FN/S | | | | | | |
| • Accuracy of test speed under Load control mode | uracy of test speed under Load control mode | | | | | | |
| • Accuracy of test speed under Load control mode | Test Speed<0.05%FN/s,within the ±2% of the preset value; Test Speed≥0.05%FN/s, within the ±0.5% of the preset value | | | | | | |
| • Adjustment Scope of deformation rate | 0.005-5%FN/S | | | | | | |
| • Accuracy of deformation rate | Test Speed<0.05%FN/s,within the ±2% of the preset value, while Test Speed≥0.05%FN/s,within the ±0.5% of the preset value | | | | | | |
| • Adjustment scope of stroke speed | 0.005mm/min-300mm/min | 0.005mm/min-500mm/min | | | | | |
| • Accuracy of stroke speed | Test speed<0.01mm/min, within the ±1.0% of preset value, while test speed≥0.01mm/min, within the ±2% of the preset value | | | | | | |
| • Scope of the consistent load deformation and displacement control | 0.5%-100%FN/s | | | | | | |
| • Accuracy of the consistent load deformation and displacement control | value≥10%FN, within the ±0.1% of preset value; preset value<10%FN, within the ±1% of preset value | | | | | | |
| • Length of the test space without jaws(mm) | 600 | 600 | 600 | 600 | 600 | 800 | 700 |
| • Width of the test space(mm) | 500 | 600 | 600 | 600 | 575 | 370 | 400 |
| • Dimension(mm) | 1150x770x2817 | 1100x770x2817 | 1100x770x2685 | 1010x750x2225 | 945x654x2266 | 686x525x1880 | 610x4 |
| • Weight(kg) | 2800 | | 1100 | 1100 | 700 | 250 | 100 |
| • Power Supply | AC380v±10%, 50/60Hz, Three-phase Five-wire | | | | | AC220v±10%, 50/60Hz | |
| • Power | 5 | 5 | 3 | 1.5 | 1.5 | 0.75 | 0.4 |
| • Type of machine | Floor Type | | | | | | |

Note: Include Training + Instalasi

Main Application

WAW Series machine, compared with a ball screw type electric mechanical BUTM, is adopting oil hydraulic power to push the piston in the oil cylinder to provide loading force. Therefore it is very suitable for making test to different metal or nonmetal materials under high toughness and hardness against extreme big loading force. By using oil pressure transducer and photoelectric encoder, the computer is timely collecting the testing parameters like loading force, stroke etc. The servo system will provide on line close loop control and constant parameters control. The test software is able to create customized testing methods and setup testing report in only a few steps. WAW series is widely used in different inspection department, engineering area, universities and institutes.



Features:

- Full computer controlled testing process
- Adopt oil-hydraulic automatic clamps which can be operated from separate control box
- Wedge tension jaw processed by advanced technology; Increase the stiffness of crosshead under high load and High intensity tests
- Powerful multifunctional control software will provide more testing methods to meet ASTM, ISO and other testing Standards
- Report Guide will create your testing report in only three steps
- Programmable testing software makes LCF testing or cyclic testing become available
- Overload protection will secure operators

Main Technical Specifications:

| Specifications | WAW-300C | WAW-500C | WAW-600C | WAW-1000A | WAW-1000C | WAW-1000D | WAW-2000A |
|--------------------------------------|------------------------|-------------------|-------------------|-------------------|-------------------|------------------|--------------------|
| • Max. capacity (kN) | 300 | 500 | 600 | 1000 | 1000 | 1000 | 2000 |
| • Relative error of reading | ≤±1% | ≤±1% | ≤±1% | ≤±1% | ≤±1% | ≤±1% | ≤±1% |
| • Measuring range | 2%-100% of FS | 2%-100% of FS | 2%-100% of FS | 2%-100% of FS | 2%-100% of FS | 2%-100% of FS | 2%-100% of FS |
| • Clamping method | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| • Round specimen clamping range (mm) | Φ10-Φ32 | Φ13-Φ40 | Φ13-Φ40 | Φ13-Φ60 | Φ12-Φ60 | Φ13-Φ60 | Φ15-Φ70 |
| • Flat specimen clamping range (mm) | 0-15 | 0-30 | 0-30 | 0-40 | 0-55 | 0-40 | 0-50 |
| • Flat specimen clamping width (mm) | 76 | 80 | 80 | 125 | 70 | 125 | 140 |
| • Max. tension test space (mm) | 600 | 600 | 600 | 780 | 600 | 600 | 850 |
| • Max. compression test space (mm) | 500 | 500 | 500 | 650 -PV | 500 | 470 | 720 |
| • Load frame dimension | 1000 x 600 x 2330 | 1180 x 750 x 2633 | 1180 x 750 x 2633 | 1255 x 660 x 3900 | 1200 x 780 x 2850 | 1100 x 960x 2510 | 1510 x 1040 x 4700 |
| • Motor power (kW) | 3.8 | 4.1 | 4.1 | 2.3 | 6 | 2.1 | 9.2 |
| • Load frame weight (kg) | 2300 | 3000 | 3000 | 5000 | 4270 | 5000 | 10400 |
| • Column clearance (mm) | 530 | 650 | 650 | 675 | 650 | 565 | 900 |
| • Compression platen size (mm) | Φ125 | Φ125 | Φ125 | 204 x 204 | Φ160 | 204 x 204 | 204 x 204 |
| • Span of bending rollers (mm) | 350 | 600 | 600 | 1000 | 800 | 800 | 1000 |
| • Width of bending rollers (mm) | 140 | 140 | 140 | 140 | 140 | 140 | 140 |
| • Allowable camber (mm) | 100 | 100 | 100 | 150 | 150 | 150 | 190 |
| • Max. piston stroke (mm) | 250 | 250 | 250 | 250 | 250 | 250 | 250 |
| • Max. piston speed (mm/min) | Approx. 70 | Approx. 80 | Approx. 80 | Approx. 50 | Approx. 50 | Approx. 50 | Approx. 50 |
| • Max. crosshead speed (mm/min) | Approx. 120 | Approx. 150 | Approx. 150 | Approx 150 | Approx 150 | Approx 150 | Approx. 200 |
| • Power supply | 380V, 50/60Hz, 3-Phase | | | | | | |

Note: Include Training + Instalasi

Main Application

WEW Series machine is adopting oil hydraulic power to push the piston in the oil cylinder to provide loading force. It is very suitable for making test to different metal or nonmetal materials under high toughness and hardness against extreme big loading force. By using load transducer and photoelectric encoder, the computer is timely collecting the testing parameters like loading force, stroke etc. This machine is adopting manual control mode and computer collecting and displaying methods to process the testing parameters. The software based on Windows system is able to make automatic calculating of test results, i.e. tensile strength, up / low yield strength, Non proportional stress point etc. Report creation function makes it is very simple to make testing report in needed format. This machine is widely used in different areas and facilities.

Features:

- Full computer displayed of testing process.
- Manual loading speed will meet your appropriate testing speed.
- Adopt manual / oil-hydraulic automatic clamps which can be operated from separate control box.
- Timely control software will provide accurate record of testing process.
- Report guide will create your testing report very simply.
- Overload protection will secure operators.



Main Technical Specifications:

| Specifications | WEW-300C | WEW-300D | WEW-600C | WEW-600D | WEW-1000A | WEW-1000C | WEW-1000D | WEW-2000A |
|--------------------------------------|--------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| • Max. capacity (kN) | 300 | 300 | 600 | 600 | 1000 | 1000 | 1000 | 2000 |
| • Relative error of reading | $\leq \pm 1\%$ | | | | | | | |
| • Measuring range | 2%-100% of FS | | | | | | | |
| • Clamping method | Hydraulic clamping | | | | | | | |
| • Round specimen clamping range (mm) | Φ10-Φ32 | Φ10-Φ32 | Φ13-Φ40 | Φ13-Φ40 | Φ13-Φ60 | Φ12-Φ60 | Φ13-Φ60 | Φ15-Φ70 |
| • Flat specimen clamping range (mm) | 0-15 | 0-15 | 0-30 | 0-30 | 0-40 | 0-55 | 0-40 | 0-50 |
| • Flat specimen clamping width (mm) | 76 | 80 | 80 | 80 | 125 | 70 | 125 | 140 |
| • Max. tension test space (mm) | 600 | 650 | 600 | 600 | 780 | 600 | 600 | 850 |
| • Max. compression test space (mm) | 500 | 550 | 500 | 500 | 650 | 500 | 470 | 720 |
| • Load frame dimension | 1000 x 600 x 2330 | 840 x 620 x 2210 | 1180 x 750 x 2633 | 1180 x 750 x 2633 | 1255 x 660 x 3900 | 1200 x 780 x 2850 | 1100 x 960 x 2510 | 1510 x 1040 x 4700 |
| • Motor power (kW) | 2.3 | 2.1 | 2.6 | 2.6 | 2.3 | 4.5 | 2.1 | 5.2 |
| • Load frame weight (kg) | 2300 | 1600 | 3000 | 3000 | 5000 | 4270 | 5000 | 10400 |
| • Column clearance (mm) | 530 | 520 | 650 | 650 | 675 | 650 | 565 | 900 |
| • Compression platen size (mm) | Φ125 | Φ160 | Φ125 | Φ125 | 204 x 204 | Φ160 | 204 x 204 | 204 x 204 |
| • Span of bending rollers (mm) | 350 | 240 | 600 | 600 | 1000 | 800 | 800 | 1000 |
| • Width of bending rollers (mm) | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 |
| • Allowable camber (mm) | 100 | 100 | 100 | 100 | 150 | 150 | 150 | 190 |
| • Max. piston stroke (mm) | 250 | 200 | 250 | 250 | 250 | 250 | 250 | 250 |
| • Max. piston speed (mm/min) | Approx. 70 | Approx. 70 | Approx. 70 | Approx. 70 | Approx. 50 | Approx. 50 | Approx. 50 | Approx. 50 |
| • Max. crosshead speed (mm/min) | Approx. 120 | Approx. 160 | Approx. 150 | Approx. 150 | Approx. 150 | Approx. 150 | Approx. 150 | Approx. 150 |