

## WDW-10H/20H/30H/50H/100H/200H/300H/600H

STANDARD: GB, ISO, ASTM, DIN

### APPLICATION

It is mainly suitable for tensile, compression, bending, shearing, peeling, tearing and other tests of various metal and non-metallic materials.

### FEATURES

- ◎ Portal frame structure, double space.
- ◎ The transmission part adopts arc synchronous toothed belt and ball screw pair transmission, to make the transmission stable.
- ◎ Driven by Panasonic servo motor. The servo motor drives the beam to move up and down through the transmission mechanism to realize the test loading process.
- ◎ Adopts CELTRON high-precision load cell, to make the force measurement more accurate.



### TECHNICAL PARAMETERS

Model	WDW-10H	WDW-20H	WDW-30H	WDW-50H	WDW-100H	WDW-200H	WDW-300H	WDW-600H
Max. Testing Force	10kN	20kN	30kN	50kN	100kN	200kN	300kN	600kN
Feature	Adopt Panasonic servo system and servo motor, fully digital measurement control system							
Machine Stiffness(kN/mm)	80	80	80	250	300	400	600	1000
Measuring Range of Testing Force	0.4%-100% of the maximum test force							
Accuracy of Testing Machine	Better than $\pm 1\%$ of the indicated value ( $\pm 0.3\%/\pm 0.5\%$ for precision type)							
Accuracy of Deformation Measurement	$\pm 1\%/\pm 0.5\%$							
Beam Displacement Measurement (mm)	Resolution 0.001							
Test Force Indication Accuracy	Better than $\pm 1\%$ of the indicated value ( $\pm 0.3\%/\pm 0.5\%$ for precision type)							
Measuring Range of Deformation	2-100%							
Measuring Range of Large Deformation	10mm - 800mm (optional)							
Accuracy of Large Deformation	Within $\pm 1\%$ of the indicated value							
Displacement Resolution (mm)	0.001							
Adjustment Range of Force Control Speed	0.001~10%							
Accuracy of Force Control Speed	$\leq \pm 1\%$							
Adjustment Range of Deformation Rate	0.00025/s ~ 0.0025/s							
Control Accuracy of Deformation Rate	$\leq \pm 1\%$							
Adjustment Range of Displacement Rate	0.005mm/min~500mm/min; arbitrarily set							
Spatial Accuracy of Displacement Rate	$\leq \pm 1\%$							
Tensile Stroke(mm)	800	800	800	600	600	600	600	600
Width of the Testing Space(mm)	370	370	370	570	600	600	600	500
Overall Dimension (mm)	686×525×1880	686×525×1880	686×525×1880	945×654×2176	1010×750×2210	1100×770×2558	1100×770×2558	1100×800×2800
Clamping Type	Standard configuration wedge tensile attachment, compression attachment, bending attachment, wedge, flat and other clamp attachments proposed by the user.							
Weight(kg)	250	250	250	700	1100	1560	2000	2600
Motor Power(kW)	0.75	0.75	0.75	1.5	1.5	3	5	5
Machine Type	Floor type							

## WDW-10M/20M/30M/50M/100M/200M/300M/600M

STANDARD: GB, ISO, ASTM, DIN

### APPLICATION

It is mainly suitable for tensile, compression, bending, shearing, peeling, tearing and other tests of various metal and non-metallic materials.

### FEATURES

- ◎ Portal frame structure, double space.
- ◎ The transmission part adopts arc synchronous toothed belt and ball screw pair transmission, to make the transmission stable.
- ◎ Driven by TECO servo motor. The servo motor drives the beam to move up and down through the transmission mechanism to realize the test loading process.



### TECHNICAL PARAMETERS

Model	WDW-10M	WDW-20M	WDW-30M	WDW-50M	WDW-100M	WDW-200M	WDW-300M	WDW-600M
Max. Testing Force	10kN	20kN	30kN	50kN	100kN	200kN	300kN	600kN
Feature	Adopt TECO servo system and servo motor, fully digital measurement control system							
Machine Stiffness(kN/mm)	80	80	80	250	300	400	600	1000
Measuring Range of Testing Force	2%-100% of the maximum test force							
Accuracy of Testing Machine	Better than $\pm 1\%$ / $\pm 0.5\%$ of the indicated value							
Accuracy of Deformation Measurement	$\pm 1\%$							
Beam Displacement Measurement (mm)	Resolution 0.001							
Test Force Indication Accuracy	Better than $\pm 1\%$ of the indicated value							
Measuring Range of Deformation	2-100%							
Measuring Range of Large Deformation	10mm - 800mm (optional)							
Accuracy of Large Deformation	Within $\pm 1\%$ of the indicated value							
Displacement Resolution (mm)	0.001							
Adjustment Range of Force Control Speed	0.001~10%							
Accuracy of Force Control Speed	$\leq \pm 1\%$							
Adjustment Range of Deformation Rate	0.00025/s ~ 0.0025/s							
Control Accuracy of Deformation Rate	$\leq \pm 1\%$							
Adjustment Range of Displacement Rate	0.01mm/min~500mm/min; arbitrarily set							
Spatial Accuracy of Displacement Rate	$\leq \pm 1\%$							
Tensile Stroke(mm)	800	800	600	600	600	600	600	600
Width of the Testing Space(mm)	370	370	420	420	470	500	500	500
Overall Dimension (mm)	686×525×1800	686×525×1800	740×525×1826	740×525×1826	845×660×2060	1010×760×2400	1010×760×2400	1100×800×2800
Clamping Type	Standard configuration wedge tensile attachment, compression attachment, bending attachment, wedge, flat and other clamp attachments proposed by the user.							
Weight(kg)	250	250	250	500	700	1560	2000	2600
Motor Power(kW)	0.75	0.75	0.75	1	1.5	3	5	5
Machine Type	Floor type							

## WDS SERIES

### APPLICATION

WDS series testing machine is suitable for tensile testing of metal and non-metallic materials, and it can be used for compression, bending, shearing, peeling, tearing and other tests by adding accessories. It has the functions of digital display of test force, continuously adjustable test speed, automatic shutdown of sample breaking, peak hold and other functions.

### FEATURES

- Automatic display: During the whole test process, the LCD screen displays the test force, maximum force, displacement, speed, deformation, breaking force, etc. in real time.
- Automatic control: After the test parameters are input, the test process can be completed automatically.
- Batch test: One setting can automatically complete the same batch of tests.
- Printing function: After the test is over, the test results can be printed.
- Sample judgment: After the sample is broken, the moving beam automatically stops moving.
- Limit protection: It has the function of mechanical and program-controlled two-level limit protection.
- Special attachments: In addition to standard tensile attachment, special attachments can also be provided according to user needs.



## TECHNICAL PARAMETERS

Model	WDS-10	WDS-20	WDS-50	WDS-100
Max. Testing Force	10kN	20kN	50kN	100kN
Measuring Range of Testing Force	2%~100%FS			
Testing Force Accuracy	Better than $\pm 1\%$			
Displacement Resolution(mm)	0.001			
Displacement Measurement accuracy	Better than $\pm 1\%$			
Tensile Stroke(mm)	800	800	600	600
Compression Stroke(mm)	800	800	600	600
Test Stroke(mm)	800	800	600	600
Speed Control Range(mm/min)	0.01~300			
Speed Control Accuracy	Better than $\pm 1\%$			
Deformation Indication Error	Better than $\pm 1\%$			
Weight(kg)	250	250	500	500

## WDW

### WDW-1/2/5

**STANDARD: GB, ISO, ASTM, DIN**

#### APPLICATION

It is mainly suitable for tensile, compression, bending, shearing, peeling, tearing and other tests of various metal and non-metallic materials.

#### FEATURES

- Single-arm structure, the beam can be lifted steplessly.
- The transmission part adopts circular arc synchronous toothed belt and screw pair transmission. Make the transmission smooth and low noise.
- Adopt AC servo driver and AC servo motor, with stable and reliable performance, with overcurrent, overvoltage, overspeed, overload and other protection devices.
- Special accessories can be provided according to user needs.



### TECHNICAL PARAMETERS

Model	WDW-1	WDW-2	WDW-5
Max. Testing Force	1kN	2kN	5kN
Measuring Range of Testing Force	2%~100%FS		
Testing Force Accuracy	Better than $\pm 1\% / \pm 0.5\%$		
Displacement Resolution(mm)	0.001		
Displacement Measurement accuracy	Better than $\pm 1\%$		
Tensile Stroke(mm)	800	800	600
Compression Stroke(mm)	800	800	600
Speed Control Range(mm/min)	0.01~500 Stepless speed regulation		
Speed Control Accuracy	Better than $\pm 1\%$		
Deformation Indication Error	Better than $\pm 1\%$ of the indicated value		
Weight(kg)	150	150	150

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**ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.**

Website: [www.testmould.com](http://www.testmould.com) Tel:+86-312-3852880