



TT 6000 X / 025N

## SERVOTEC UNIVERSAL TESTING MACHINE 500N (DESK TOP VERSION)

Standard: BSEN 10002-1, ISO 7500-1, ASTM A370

### Tensile & Compression

TT Servotec Fully Automatic Universal Tensile Machine out tester adopts DC speed regulating servomotor & reduction gears as the power source. It real time displays test data & test status with LCD module. Professional designed servo control system realizes the PWM pulse width modulation control mode. It really comes up to with test speed closed loop control mode. It is controlled by single chip automatically control.

### Main Use & Range

Used for measurement & test of mechanical property & analytical study of metal, non-metal & composite material, such as aviation, petrochemical, machinery manufacture, wire, cable, textile, fiber, plastic, rubber, ceramic, food, medicine packaging, aluminium plastic tube, plastic door & window, geo-textile, film, wood, paper, metal material & manufacture industry & etc.

It can record the max. test force, fracture value, yield value, max. compression value automatically. It can also calculate the fracture extension & all kind of strength value manually. The RA232 connector can do the function of communicating with computer to do the data work. It is a essential equipment for manufacture, construction unit, product quality supervision & inspection bureau & building material test department. It also could be used in the university for teaching purpose.

## Main Technical Parameter :

| Model Number        | TT 6000 X / 025N                                                                                                                                                                        |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Max Test Force      | 500 N                                                                                                                                                                                   |
| Structure Type      | Twin Rigid Column With Single High Precision Ball Screw ( Desk Top Version )                                                                                                            |
| Traveling Space     | 950 mm (exclude fixtures)                                                                                                                                                               |
| Width Space         | 350 mm                                                                                                                                                                                  |
| Test Force Accuracy | ±0.8%                                                                                                                                                                                   |
| Test Speed Range    | 0.01 - 500mm/min                                                                                                                                                                        |
| Load Resolution     | 1/250 000                                                                                                                                                                               |
| Measuring Range     | 1% - 100% Full Scale                                                                                                                                                                    |
| Load Unit           | MN, N, t & kN (selectable)                                                                                                                                                              |
| Curve Display       | <b>Selectable Axial Parameters:</b><br><b>Y-axis</b> - time, load, displacement, deformation, stress, strain.<br><b>X-axis</b> - time, load, displacement, deformation, stress, strain. |
| Data Display        | Max. Force, Tensile Strength, Upper & Lower Yield, Specimen Details, etc.                                                                                                               |
| Main Drive Unit     | Precision Servo Drive & Servo Motor                                                                                                                                                     |
| Software            | TestMaster                                                                                                                                                                              |
| Safety Feature      | Emergency Stop, Over Load Protection, Upper & Lower Limit Sensor with Auto Stop                                                                                                         |
| Power Source        | 220 ~240V, 600W, 4A, 1Ph, 50/60 Hz, 0.8Hp                                                                                                                                               |
| Dimension           | 660(L) x 440(W) x 1700(H) mm                                                                                                                                                            |
| Approx Weight       | 220 kg                                                                                                                                                                                  |

## Unit Consists Of :

| Model Number  | Parts Description                                     | Qty     |
|---------------|-------------------------------------------------------|---------|
| TT LC - 500N  | 500 N Load Cell                                       | 1 Unit. |
| TT LT - 001   | Compatible Desktop Unit                               | 1 Unit. |
| TT 6ST - DSV1 | Laptop Unit c/w Operation Software (TESTRONZ TUS-1.0) | 1 Unit  |

\*1 Copy of Manual Instruction

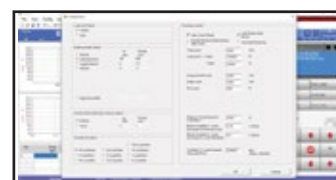
## Optional Accessories :

| Model Number                                                      | Parts Description                           |
|-------------------------------------------------------------------|---------------------------------------------|
| TT CD - 100                                                       | Computer Desk                               |
| TT CP - 200                                                       | Computer Printer                            |
| TT 6000 HD - B426                                                 | Electronic Extensometer (Large Deformation) |
| TT 6000 HD - B426 - 3                                             | Electronic Extensometer (Metal)             |
| Tensile Test Accessories (Refer to: Tensile Optional Accessories) |                                             |

\*1 Copy of Manual Instruction



Test Curve Page



User Setting Page



Test Result Page

## Tensile Test Optional Accessories



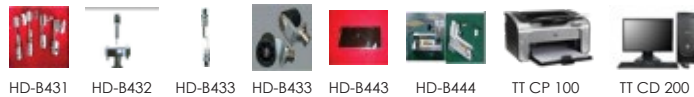
| Model Number    | Grips Type                            | Grips Technical Specification                             |
|-----------------|---------------------------------------|-----------------------------------------------------------|
| TT 6000 B401    | Pneumatic Grips (200kg)               | Capacity : 50kg<br>Specimen : Adhesive/Paper Products     |
| TT 6000 B402    | Mechanical Aluminum Flat Grips        | Capacity : 20kg/100kg<br>Specimen : Adhesive              |
| TT 6000 HD-B402 | Mechanical Iron Vice Flat Grips       | Capacity : 500kg<br>Specimen : Waterproof material, Cloth |
| TT 6000 HD-B403 | Mechanical Piller Grips (200 - 500kg) | Capacity : 500kg<br>Specimen : Universal                  |
| TT 6000 HD-B404 | Mechanical Wedge Grips (2T)           | Capacity : 500kg<br>Specimen : Rubber                     |
| TT 6000 HD-B405 | Mechanical Wedge Grips (5T)           | Capacity : 5 Ton<br>Specimen : Metal/Rubber               |
| TT 6000 HD-B407 | Mechanical Wedge Grip (10T)           | Capacity : 10 Ton<br>Specimen : Metal/Rubber              |
| TT 6000 HD-B408 | Mechanical Rubber Grip                | Capacity : 100kg<br>Specimen : Rubber/Dumbbell Shape      |
| TT 6000 HD-B409 | Mechanical Rubber Grips               | Capacity : 50kg<br>Specimen : Rubber/Dumbbell Shape       |

| Model Number    | Grips Type                          | Grips Technical Specification                        |
|-----------------|-------------------------------------|------------------------------------------------------|
| TT 6000 HD-B410 | Mechanical Single Eccentric Grips   | Capacity : 50kg<br>Specimen : Rubber/Dumbbell Shape  |
| TT 6000 HD-B411 | Mechanical Rubber Clamp             | Capacity : 200kg<br>Specimen : Rubber/Dumbbell Shape |
| TT 6000 HD-B412 | Mechanical 90° Peel Strength Grips  | Capacity : 50kg<br>Specimen : Adhesive               |
| TT 6000 HD-B413 | Mechanical Double Wheel Grips       | Capacity : 200kg<br>Specimen : Rubber/Silicone       |
| TT 6000 HD-B414 | Thread Vice Clamp                   | Capacity : 100kg<br>Specimen : Thread                |
| TT 6000 HD-B415 | Ribbon Clamp                        | Capacity : 500kg<br>Specimen : Ribbon                |
| TT 6000 HD-B416 | Ribbon Clamp                        | Capacity : 2T<br>Specimen : Ribbon                   |
| TT 6000 HD-B417 | Mechanical Nipper Pliers Vice Gript | Capacity : 20kg<br>Specimen : Electronic Component   |



| Model Number      | Grips Type                             | Grips Technical Specification                                 |
|-------------------|----------------------------------------|---------------------------------------------------------------|
| TT 6000 HD-B418   | H-Shaped Holder                        | Capacity : 2T Specimen : Glass Element/Composite Panels Class |
| TT 6000 HD-B419   | Compression Platen (100mm/150mm 200mm) | Specimen : Rubber Stress Test, Bottles Lunch Boxes            |
| TT 6000 HD-B420   | Three Point Bending Jig                | Specimen : Rubber                                             |
| TT 6000 HD-B420-1 | Three Point Bending Jig                | Specimen : Metal                                              |
| TT 6000 HD-B420-2 | Three Point Bending Jig                | Specimen : Composite Panels                                   |
| TT 6000 HD-B421   | Four Point Bending Jig                 | Capacity : 500kg<br>Specimen : Rubber/Metal                   |
| TT 6000 HD-B423   | Mechanical Paper Tensile Grips         | Capacity : 200kg<br>Specimen : Paper, Plastic                 |
| TT 6000 HD-B424   | Mechanical Zipper Grips                | Capacity : 50kg<br>Specimen : Fabric & Zipper Teeth Peeled    |

| Model Number      | Grips Type                         | Grips Technical Specification         |
|-------------------|------------------------------------|---------------------------------------|
| TT 6000 HD-B425   | Mechanical Zipper Grip             | Capacity : 50kg<br>Specimen : Zipper  |
| TT 6000 HD-B426   | Extensometer                       |                                       |
| TT 6000 HD-B426-1 | Extensometer                       |                                       |
| TT 6000 HD-B426-3 | Metal Extensometer                 |                                       |
| TT 6000 HD-B427   | Monitor Needle Grips               | Capacity : 10kg<br>Specimen : Display |
| TT 6000 HD-B428   | Belt Tensile Grip                  | Capacity : 1T<br>Usage : Tensile      |
| TT 6000 HD-B429   | Mechanical Ring Initial Tack Grips | Specimen : Glass Material             |
| TT 6000 HD-B430   | Pneumatic Wire Clamp               | Capacity : 50kg<br>Specimen : Wire    |



| Model Number    | Grips Type                      | Grips Technical Specification          |
|-----------------|---------------------------------|----------------------------------------|
| TT 6000 HD-B431 | Mechanical Paper Grip           | Capacity : 50kg<br>Specimen : Papper   |
| TT 6000 HD-B432 | Puncture Grip                   | Capacity : 50kg<br>Specimen : Film     |
| TT 6000 HD-B433 | Mechanical Leather Tear Holder  | Capacity : 100kg<br>Specimen : Leather |
| TT 6000 HD-B439 | Mechanical Peeling Clamp Holder | Specimen : Tape                        |

| Model Number    | Grips Type                        | Grips Technical Specification         |
|-----------------|-----------------------------------|---------------------------------------|
| TT 6000 HD-B443 | Mechanical Peel Test Steel Holder | Thickness : 1.5mm<br>Size : 50* 150mm |
| TT 6000 HD-B444 | Mechanical Film Grip              | Capacity : 0.3kg<br>Specimen : Film   |
| TT CP 100       | Computer Printer                  |                                       |
| TT CD 200       | Computer Desk                     |                                       |