

## BOND FORCE TESTERS

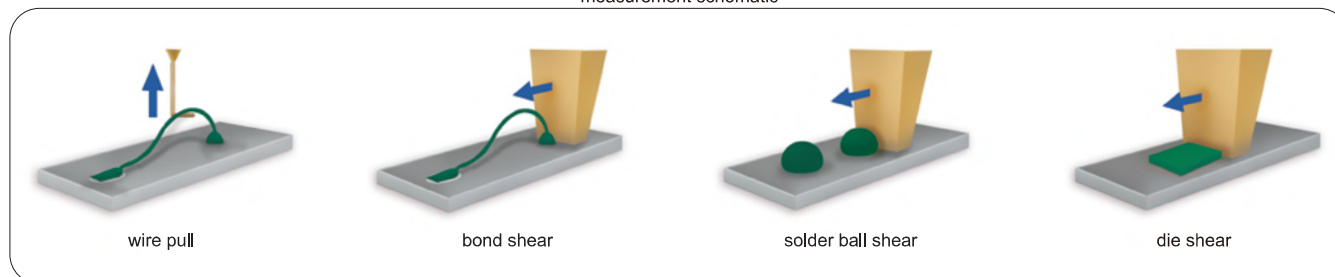
ATTENTION: THE TEST MODULES  
MUST BE CONFIGURED



DTM-A140-U

- Suitable for testing the strength of microelectronic after bonding, and adhesion testing between solder and substrate surfaces, and failure analysis
- Suitable for wire pull, bond shear, ball shear, die shear test
- The corresponding test module can be replaced according to the need, and the system automatically identifies the module parameter information
- With landing protection function to prevent damage to the test probe by misoperation
- The equipment adopts air suspension bearings, which provide extremely low touchdown force and won't damage the substrate
- Fast, accurate and widely applicable
- Powerful software, easy to operate, support for custom path editing
- Perfect data analysis function, support MES interface interconnection

measurement schematic



### SPECIFICATION

| Code                           | DTM-A140-U                      | DTM-A160-U         | DTM-A200-U         | DTM-A320-U         |
|--------------------------------|---------------------------------|--------------------|--------------------|--------------------|
| Max. load capacity             | 200kg                           | 200kg              | 200kg              | 50kg               |
| Axis travel ( X × Y × Z )      | 140×140×65mm                    | 160×160×75mm       | 200×200×100mm      | 320×320×75mm       |
| Speed                          | 0.1~200mm/min                   | 0.1~500mm/min      | 0.1~500mm/min      | 0.1~1000mm/min     |
| Min. travel distance of Z-axis | 0.25μm                          | 0.1μm              | 0.1μm              | 0.1μm              |
| Plate dimension                | 230×230mm                       | 290×290mm          | 330×330mm          | Φ320mm             |
| Accuracy of force              | ±0.1%FS                         |                    |                    |                    |
| Resolution of ADC              | 24bit                           |                    |                    |                    |
| Sampling frequency             | 5000Hz                          |                    |                    |                    |
| Vacuum supply                  | 0.4~0.6MPa, flow rate: ≤15L/min |                    |                    |                    |
| Power supply                   | AC110V 60Hz, 2KW                |                    |                    |                    |
| Dimension ( W × D × H )        | 26.77×24.29×26.97"              | 26.77×23.78×30.75" | 26.77×25.35×32.05" | 26.77×30.00×31.10" |
| Weight                         | 220.46lb                        | 220.46lb           | 220.46lb           | 264.55lb           |

## SPECIFICATION OF TEST MODULES (OPTIONAL)

| Code          | Application    | Selectable load sub-ranges |       |       |       |
|---------------|----------------|----------------------------|-------|-------|-------|
| DTM-AWP100G   | wire pull test | 100g                       | 50g   | 25g   | 10g   |
| DTM-AWP1KG    |                | 1kg                        | 500g  | 250g  | 100g  |
| DTM-AWP5KG    |                | 5kg                        | 2.5kg | 1kg   | 500g  |
| DTM-AWP10KG   |                | 10kg                       | 5kg   | 2.5kg | 1kg   |
| DTM-AWP20KG*  |                | 20kg                       | 10kg  | 5kg   | 2.5kg |
| DTM-ABS250G   | shear test     | 250g                       | 100g  | 50g   | 25g   |
| DTM-ABS5KG    |                | 5kg                        | 2.5kg | 1kg   | 500g  |
| DTM-ADS50KG   |                | 50kg                       | 20kg  | 10kg  | 4kg   |
| DTM-ADS100KG  |                | 100kg                      | 50kg  | 20kg  | 10kg  |
| DTM-ADS200KG* |                | 200kg                      | 100kg | 40kg  | 20kg  |

\*Can be customized according to test requirements

## STANDARD DELIVERY

|                             |       |
|-----------------------------|-------|
| Main unit                   | 1 pc  |
| Control box                 | 1 set |
| Computer                    | 1 set |
| Software                    | 1 set |
| Microscope                  | 1 set |
| Mechanical clamping fixture | 1 set |

## OPTIONAL ACCESSORY

|                                   |             |
|-----------------------------------|-------------|
| Shear calibration fixture (1: 1)  | DTM-A-J1    |
| Shear calibration fixture (1: 2)  | DTM-A-J2    |
| Shear calibration fixture (1: 40) | DTM-A-J40   |
| Pull calibration fixture          | DTM-A-JP    |
| Camera                            | DTM-A-P1    |
| Calibration weight                | customized* |
| Pull hook                         |             |
| Shear fixture                     |             |
| Vacuum adsorption test fixture    |             |
| Vacuum pump                       |             |

\*Can be customized according to test requirements