

BOND FORCE TESTERS

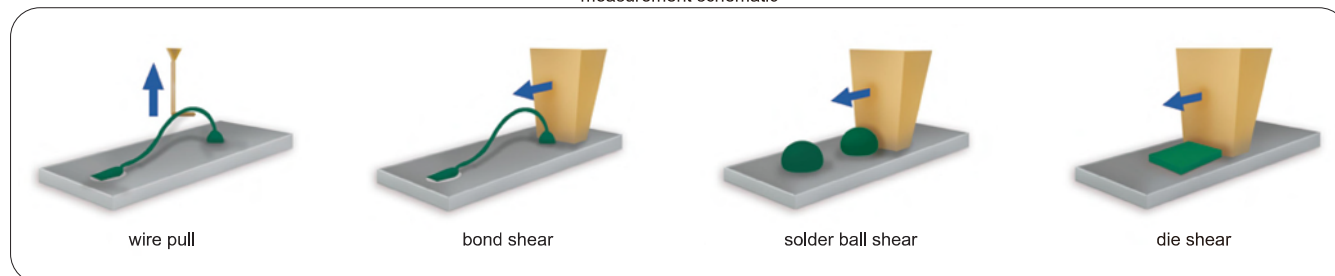
ATTENTION: THE TEST MODULES
MUST BE CONFIGURED



DTM-A140

- 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 | DTM-A160 | DTM-A200 | DTM-A320 |
|--------------------------------|---------------------------------|---------------|---------------|----------------|
| 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 | AC220V 50Hz, 2KW | | | |
| Dimension (W × D × H) | 680×617×685mm | 680×604×781mm | 680×644×814mm | 680×762×790mm |
| Weight | 100kg | 100kg | 100kg | 120kg |

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