



## CWT-A

### Overall Card Warpage Test Tool



Access



Evolution



Productivity

#### Application

This tool is designed to test the warpage of the card after personalization. It complies with ISO/IEC 7810 & 7811-1 norms.

- Quality control / Production control.
- Support to CQM certification and audit.

#### Key benefits

- Easy go/no-go quick control of the overall card warpage with a unique ramp and two pre-defined gaps: 1.5mm and 1.3mm for un-embossed cards, 2.5mm and 2.3mm for embossed cards (select the model with the type of card).

#### Technical characteristics

##### Model versions

CWT-A1 for non embossed card  
CWT-A2 for embossed card

##### Material

Aircraft grade 6061 aluminum /steel alloy bar stock and electro-statically coated for a durable long-lasting finish

##### Dimensions

W x D x H: 140 x 70 x 215 mm

##### Weight

2.4 kg

#### Associated products

Other MULANN products are nicely complementary:

- BWT-A or WTT-A control tools for bending stiffness and wrapping test
- TPT-A for tape pull test
- CDT-A and CDT-E for card dimensional tests