

# The CQM Series

Card Testing System

## CQM CTS-01

Card Testing System

- Bending / Module Adhesion
- RF Frequency & Q Factor
- Module Height Measurement
- ATR & ATS Testing

**Output:** 5000-6000 Cards/Hr

**Voltage:** 220VAC 50/60Hz

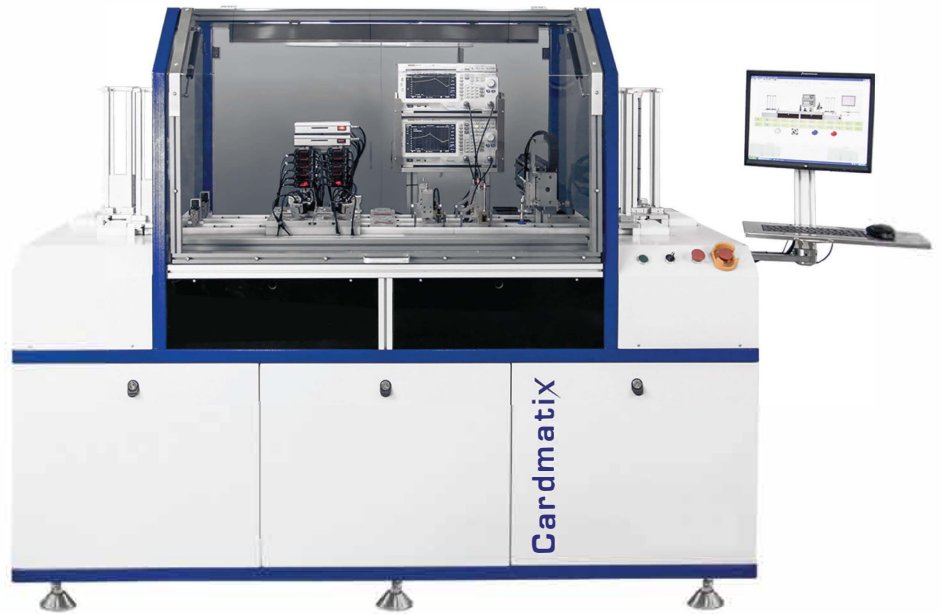
**Power:** 2.5kW

**Compressed Air:** 6kg/cm<sup>2</sup> 150 L/min

**Dims:** [L]2480mm [W]830mm

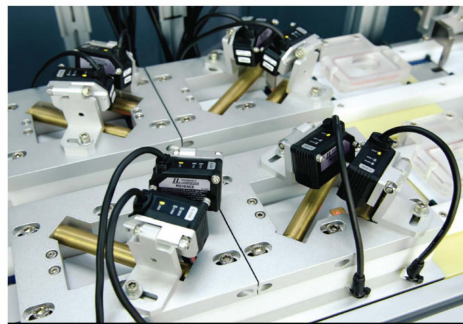
[H]1950mm

**Multimedia:** [Video link](#)



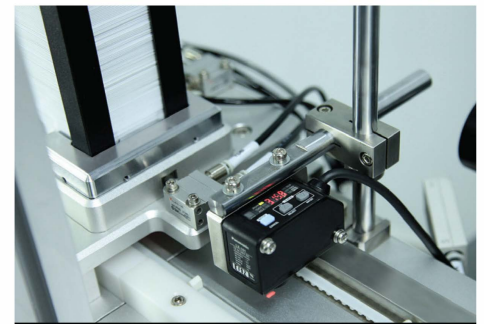
## CQM CTS-01

ATR & ATS Stations



## CQM CTS-01

Card Flexing Stations



## CQM CTS-01

Card Orientation Sensor

Protect your reputation for quality assurance with the CTS-01, the ideal solution for high-speed, automated testing of dual-interface, contact, and contactless smart cards.

It tests module bonding, antenna connections, RF stability, and functionality of contact and contactless interfaces.

**Card Flexing:** The card body is flexed 30° across the module embedding area. Laser sensors detect separation between module and cavity - rejecting cards with poor adhesion.

Flexing prior to RF testing also helps to ensure that the connection between antenna and module is secure.

**RF Testing:** Build customer confidence with guaranteed delivery of cards within a set RF range. Two Rigol spectrum analyzers provide accurate frequency and Q-Factor test results. Custom Smartware<sup>(TM)</sup> testers for additional analysis are available.

**Removable Magazines:** Input and output magazines are interchangeable and can be used with other Cardmatix machines for easier loading with less handling.

**Module Height Test:** Inline gauges from Keyence accurately measure embedded module height, ensuring that only good cards make it to the shipping department.

**ATR & ATS Testing :** Ensure that contact and/or contactless interfaces are functioning properly after flex testing by communicating with the IC chip. For contactless cards, this may be the only point during production when these tests can be performed economically and at high speed.

**Vision Inspection System:** An option that will detect and eliminate anomalies related to module alignment and placement within the cavity; it identifies and rejects modules with visible surface defects such as scratches, smudges, or fingerprints.

**Card Orientation:** An optional sensor that separates cards loaded in the wrong orientation or version prior to testing, shipping & personalization.