

## Two Axes 3-Wheel Test Tool



**MILANN**  
INGENIERIE

Authorized Reseller

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The Three-Wheel Tester is primarily designed for testing the resistance of smartcard IC chips to pressure. The T3R-E version is able to test any ID-1 cards including contactless cards and offers as an option a unique feature for querying the transponder of the card under test at each cycle, helping the analysis of test failures.

Complies with ISO/IEC 24789-2 standard and CQM v2.15 specifications (TM-421 test method) for:

- Chip and antenna inlay method
- Quality control / production control of smart card
- Durability tests

### Key Benefits

- Easy-to-use with a 3.53 touch-screen pad
- Extended test zone with a micro-metric bearing
- Pre-adjusted zero position (center of the chip card module) and initial position to start cycle
- M1 calibrated weights
- Intuitive software for operating mode and configuration mode

### On-the-fly contactless failure detection (optional)

The contactless card failure detector checks on-the-fly the transponder of the card under test and will stop the ongoing test after a user defined number of successive failures. The supported proximity card protocols are:

- ISO14443 A & B

# Specifications

## User Interface

- 3.5" touch-screen interface with remote Ethernet access

## Card Axis

- Longitudinal and transversal

## Wheels Course

- X position: up to 38mm with flipped card
- Y lengthwise stroke: 40mm

## Applicable Force

- 8 or 15N (optional : 10, 12, 20 & 25N)

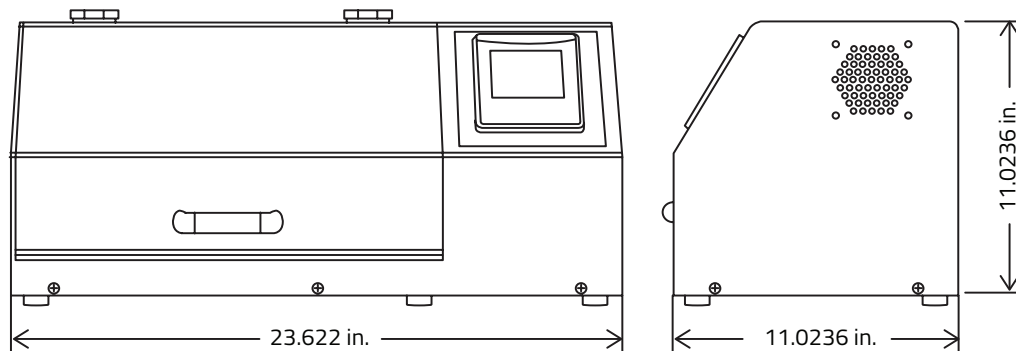
**Weight** 13 Kg

**Power Supply** 100-230V AC 50/60Hz

# Options

- 2nd set of weights for additional ranges of pressure (*see note 1*)
- Electronic weight detector (*see note 2*)
- Contactless ISO14443A & B failure detector (*see note 3*)
- Extra storage memory (*not removable*)
- External Wi-Fi module (*see note 4*) (\*requires the Ethernet card)
- Rod for 43 mm stroke to cover the complete card length (*Option installed at manufacturing*)
- Full maintenance contract (*see note 6*)

# Dimensions



**Note 1:** The second set of weights includes one 4N, one 5N and one 10N weights for enabling additional accurate tests at 10N, 12N, 20N and 25N through combinations with standard weights. The tared (T-5N) weight shall always be present and place at the bottom for ensuring an accurate pressure value. **Note 2:** The weight detector displays weight configuration on HMI for misconfiguration and pressure selection logging in the ATR. **Note 3:** The contactless failure detector, query the transponder card under test (Request All command only) at each cycle and stop the test when the card fails responding. **Note 4:** Wi-Fi IEEE802.11b/g 54Mbps module, 20Mbps effective data rate over Ethernet port powered by an external 5V DC pack. **Note 5:** The position helper is a label where markers have been positioned on a sticker label for helping the X positioning. For example, it locates the center of the smart card contact area when the card is return face down and the contact area no longer visible **Note 6:** Full maintenance contract is subscribed after the warranty period and can be renewed annually up to 10 years maximum. Uninterrupted full maintenance contracts include annual checking and adjustments, software releases and defective pieces replacement.



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