



### Up to 4 test modules individually managed per PLC

#### Description & Advantages

The BGi110 is a multifunction testing equipment for ID1 cards. It offers the possibility to use up to 4 lines, each line corresponding to a test and controlled individually.

- Tests for contact cards, magstripe cards, RFID cards, dual cards, combi cards
- Possibility to test up to 40 cards simultaneously
- Possibility to order 4 lines on the same equipment
- Possibility to test the cards further than the norm changing only parameters on the interface (number of cycles, frequency, angle...)
- All lines can be removed and replaced by other lines, making a universal interchangeable testing solution
- Easy to use thanks to a screen touch interface in order to create and modify program
- For bending, jaws open more at the end of the test to release totally the cards and help for the insertion
- Independant lines : we can run a test while another one is opened for card insertion

#### Environmental conditions

- Operating temperature: +10°C to +40°C

#### Facilities

- Power: 100-240V AC
- Frequency: 50-60Hz single phase
- Power consumption: 250W maximum 4lines)

#### Dimensions and weights

Base of the equipment	450x380x230mm (WxDxH), weight: 13kg
Each line (torsion, bending, 3 wheels)	440x310x210mm (WxDxH), weight (depending of the line)

#### Ordering examples

Torsion + bending + 3 wheels	BGI110A-BCE
Full bending	BGI110A-CCCC
Soft eraser + Sandpaper (printing companies)	BGI110A-F

#### Order reference number

## BGi110A-B: Dynamic torsional stress

### Torsion (twisting) - 10 cards on 1 test line

This equipment tests the mechanical or functional effects on a card submitted to repeated torsional stress. Test for contact cards, magstripe cards, RFID cards, dual cards, combi cards

Weight: 15 kg

#### **NORMS:**

CQM 2.22 : #3043#, #8150#

ISO 7810 (2019): 9.11

ISO 10373-1 (2020): 5.10



## BGi110A-C: Dynamic bending stress

### Bending - 10 cards on 1 test line

This equipment tests the mechanical or functional effects on a card submitted to bending stress. Test for contact cards, magstripe cards, RFID cards, dual cards, combi cards

Weight: 20kg

#### **NORMS:**

CQM 2.22 : #3042#, #8140#

ISO 7810 (2019): 8.14

ISO 10373-1 (2020): 5.9



## BGi110A-D: Shortened bending flexure

### Shortened bending flexure - 10 cards on 1 test line.

Test for contact cards, magstripe cards, RFID cards, dual cards, combi cards

Weight: 21kg



#### **NORMS:**

ISO 24789-2 (2011): annex A

### BGi110A-E: Three wheels

#### 3 wheels 1 axis - 2 cards on 1 test line

This equipment tests the physical or functional effects on a card submitted to repeated mechanical stress conditions with force applied of 3N, 8N, 10N, 12N or 15N. Test for contact cards, magstripe cards, RFID cards, dual cards, combi cards

Weight: 18kg

#### NORMS:

CQM 2.22 : #3054#, #8210#

ISO 10373-1 (2020): 6.10



### BGi110A-F: Soft eraser and sandpaper rub test

CARD ABRASION «soft eraser and sandpaper rub test» allows to test 2 cards on 1 test line, on the all surface of the card. Linear test for contact cards, magstripe cards, RFID cards, dual cards, combi cards.

Weight: 17kg

Weight of 10N and 15N supplied.

#### CONSUMABLES:

Consumable for 1 test included

Extra consumables optional

#### NORMS:

CQM 2.22 : #3020#, #4010#,

#4016#, #4018#, #4030#, #9040#,

#9041#, #9042#, #9043#



### BGi110A-G: ID1 Card Flexure (bending flexure)

#### Bending flexure - 10 cards on 1 test line

This test simulates a repeatedly full card flexure.

Test for contact cards, magstripe cards, RFID cards, dual cards, combi cards

Weight: 20,6kg

#### NORMS:

ANSI 322 2015 : 5.3, 5.13, 6.2, 6.5



## BGi110A-J: Wear test

### Wear test - 2 cards on 1 test line

This is an abrasion test for magstripe cards

Weight: 15,5kg

#### **NORMS:**

CQM 2.22: #3024#

ISO 10373-2 (2015): 5.4

ISO7811-6 (2018): 6.4



## BGi110A-K: Card insertion

### Card insertion - 2 cards on 1 test line

This test simulates the insertion of the card in a reader

Test for contact cards, dual cards, combi cards

Weight: 15,5kg

#### **NORMS:**

None, specific customer requirement

