



SCM3000

M2M Chip Personalization Machine

More than 50% of the global market share of Smart Elements testing and personalization solutions



High Stability



High Compatibility



High Productivity



High Cost Performance



Product Video

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The M2M Chip Personalization Machine SCM3000 can conduct chip electrical performance test, chip encoding and surface laser marking for M2M chips in QFN, DFN, VSOP8 and other packaging forms, automotive electronic SE (Security Element), eSIM and other smart devices. SCM3000 can provide high-speed, stable and safe personalization production services for global mobile operators, smart device OEMs, and automotive electronic security chip manufacturers. During the past six years since 2017, nearly 500 million chips have been produced for more than dozens of factories.

Key Features & Advantages

High Stability:

- ▶ Rejecting rate is less than 1/1000.
- ▶ Downtime for 100-hour failure is not exceed 30 minutes.
- ▶ High-precision of mechanical carrying mechanism can handle chips down to 2*2mm.

High Productivity:

- ▶ The instant production capacity can reach 2500 chips/hour.
- ▶ The throughput can reach 1,300,000 chips/month.

High Compatibility:

- ▶ Dozens of chips in different forms and specifications can be supported, and switching time is less than 20 minutes.
- ▶ Compatible for both tray and tape for input and output.
- ▶ Secondary development is fully supported to meet various customized requirements.

High Cost-performance Ratio:

- ▶ The customer procurement costs can be reduced by 15% due to variety of self-developed core technologies integrated.
- ▶ The maintenance costs can be reduced by 20% with less wearing and longer service life.

Configurations



Input Module:

- Tray Input: up to 20pcs of trays can be loaded.
- Tape Input: tape in 12mm is supported, 8mm, 16mm and 24mm is extensible;
- *Compatible with tape rolls in 1000pcs and 3000pcs.
- *Compatible with tray and tape input.



Chip Rotating Module:

- Equipped with 2 chip storage stations.
- *The chip direction can be automatically adjusted by forward & reverse 90° and forward 180° rotations by identifying the mark point on the chip.



IC perso Module:

- Standard configuration: 16 perso stations with 4pcs of PIOTEC 4IN1 contact readers PT204PT-AMA.
- Extensible configuration: 32 perso stations with 8pcs of PIOTEC 4IN1 contact readers PT204PT-AMA.
- *Chip encoding and remaking online is supported. ISO7816, Serial port, Bluetooth, SPI and I2C protocols are supported.



Laser Marking Module:

- Equipped with 1 set of 20W fiber laser.
- Equipped with 1 set of extractor.
- *Piotec-owned laser marking technology is adopted, and surface information in 2 chips can be marked at the same time, which improves marking efficiency.



IC Verification Module:

- Equipped with 2 verification stations with 1pcs of PIOTEC contact reader PT204PT-AMA.
- *The internal information in 2 chips can be read and verified at the same time, ensuring 100% accuracy.



OCR Verification Module:

- Equipped with a set of 5 million pixel industrial camera (including light source).
- Equipped with a set of OCR software.
- *Surface information of chips can be recognized and verified.



Reject Module:

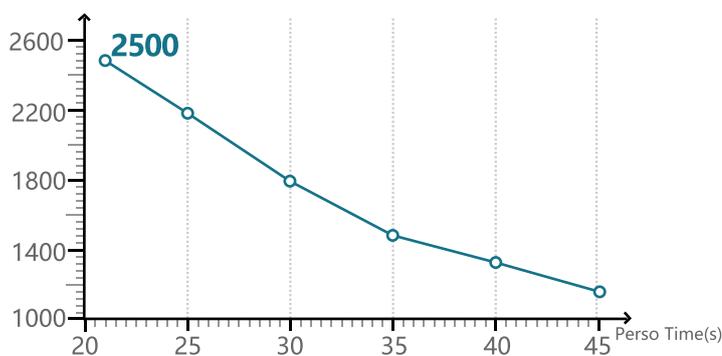
- Equipped with 8 reject boxes.
- *Chips which fail to be encoded or marked can be rejected automatically and stored in different categories to reduce material loss and labor costs.



Output Module:

- Tray Output: up to 20pcs of trays can be loaded.
- Tape Output: Compatible with tape rolls in 1000pcs and 3000pcs.
- *Compatible with tray and tape output for chips packaging.

Throughput



Technical Specification

Dimension :	1850mm X 1600mm X 1750mm
Weight :	600kg
Power Supply :	220V (-5%~+10%) , 50Hz, 6KW
Noise :	<65dB
Operation Temperature :	23°C±3°C
Operation Humidity :	50±10%
Compressed Air :	Pressure: 0.5Mpa Flow: 300LPM

Partners



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