PTM-120T

Chip Module Initialization & Testing Machine

High-efficiency Solutions for Chip Module Initialization and Testing

High Stability | High Compatibility | High Cost-performance Ratio | High Flexibility

PTM-120T

Chip Module Initialization & Testing Machine

PTM-120T is an upgraded product designed for the increasing production throughput and function requirements of chip encapsulation & testing factories and smart card manufacturers.

It integrates short-circuit punching, electrical performance test, chip initialization & pre-personalization as well as reject chip punching or marking. PTM-120T can be customized according to the demands for various chip production. Modular design can meet your different production requirements and lower your investment cost to the maximum extent.

Advantages

Unique Patented Technology

▶ It only takes 60s to switch production tasks between 6 PIN and 8 PIN contact chip.

120 Heads Ensure High Throughput

▶ Max. throughput 100,000UPH for 6PIN chip.

▶ Max. throughput 77,000UPH for 8 PIN chip.

Electrical Performance Parameters Testing Items

▶ Open-short test for pins (positive & negative current is adjustable).

▶ Leakage current test supported.

▶ Static current test supported.

▶ FVMI and FIMV (V=f(I), I=f(V)) supported.

▶ Pin voltage value of Vih and Vil is adjustable.

High-performance Reader

▶ The industrial-class reader, with the functions of electrical performance test, initialization and pre-initialization, developed by Piotec is widely proven stable and high cost-effective.

Unrestricted Workplace

▶ Free of production site due to electric driving design without external air supply.
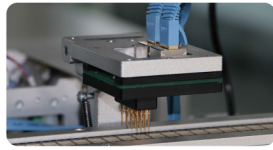
Modular Design

▶ Each module can work independently or be combined on demand.
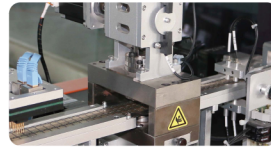
Configurations

Initialization/Testing Module:
• The chip production can be switched fast between 6pin and 8pin. 120 contact heads and 12 contactless heads can be configured simultaneously at most. The electrical performance test, initialization of contact/contactless and dual interface chip module can be realized. The module can be set up with a standalone style.
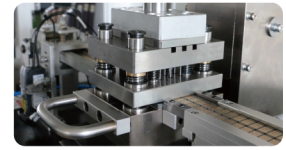
Re-Initialization/Re-testing Module:
• 2 sets of contact heads or 3 sets of contactless heads are equipped for automatic re-initialization and re-testing of failed chips, which can reduce the rejection rate.
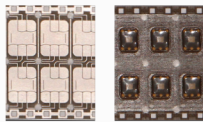
Reject Chip Punching Module:
• Realizing reject chip punching and the punching position is set up flexibly via software instead of manual adjustment, which greatly improve punching precision and production efficiency.
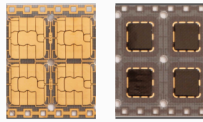• The module can be set up with a standalone style.

Short-circuit Punching Module (Optional):
• Realizing chips short-circuit disconnection.
• Module tapes with different specifications can be punched by quick replace of punching mould.
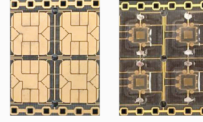• The module can be set up with a standalone style.
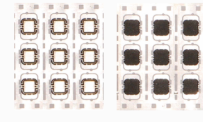
Application Scope

6PIN Contact Chip Module

8PIN Contact Chip Module

Dual Interface Chip Module

Contactless Chip Module

Optional Accessories

Contactless chip testing tool

Contact chip testing tool

Tape connector

Throughput

Throughput of Contact Chip (120 Heads)

Testing/ Perso Time (S) Throughput（UPH）	0	5	10	15	20	25	30	40
8PIN	77000	40000	27000	20000	16000	14000	12000	9000
6PIN	100000	46000	30000	22000	17000	14500	12500	9500

Technical Specification

Dimension: 4750mm × 840mm × 1960mm	**Operation Temperature:** 23℃ ± 3℃
Weight: 650Kg	**Operation Humidity:** 50±10%rh
Power Supply: 220V (-5% ~ +10%), 50Hz, 2KW	**Chip Module Specification:** 6Pin Tape, 8Pin Tape
Noise: ≤50dB	**Communication Interface:** Ethernet

Short-circuit Punching Throughput: Max. throughput 53,000UPH (14chips/punch)

Partners

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