SAP2100-AUTO

Semi-automated Flash Station
Prepared for Robot operation

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SAP2100-AUTO

Overview

This second generation of production equipment for parallel in-application Flash programming provides state-of-the-art technology and considers current and future needs of modern electronic module manufacturing. The overriding importance for the design has been to enable easy integration into the manufacturing line and to achieve lowest production cost. Hence, resulting key criteria for the SAP2100-AUTO system have been:

- Prepared for comprehensive automation
- Modular concept for easy system adaptation or upgrade
- Quick fixture exchange with smooth, precise positioning
- Easy system setup supported by smart man-machine dialog & interface for administrator and operator
- Save & simple use during operator handling
- Safety requirements according industry standards
- Extended maintenance cycles; easy access to control units
- Full system customization

Considering these development targets, the SAP2100-Auto system is qualified for any kind of on-board programming in high volume production. Applying intelligent handling methodologies, this system offers additional cost savings in the production cycle.

Key Features

- Integrated semi-automated programming system for on-board parallel programming
- Automatic closing and opening by robust electric cylinder drive
- Prepared for fully automated Robot handling
- Safety requirements according industry standards
- Ergonomic workbench with adjustable equipment rack
- Up to 3 19'' racks with up to 30 programming modules
- Full parallel programming of up to 200 targets
- Based on MSP2100NET technology with integrated high-performance target power supply
- Supports programming of single PCB's, multi-use panels, semi- assembled or fully housed modules and also mix-mode usage
- Bus programming via CAN, CAN-FD, LIN, BroadR-Reach and FlexRay
- Industrial PC for comprehensive system control, Windows© OS, 17'' TFT Monitor, USV, keyboard with integrated mouse, RAID system
- FlashTask GUI, graphical operator- and administrator user interface
- Robust mechanics and electronics for long-term service cycles
- Compact dimensions: 850 x 850 x 1750 L x W x H (mm)

Features

- RF –identifier "Poka Yoke" and optical identification of match between cover plate, fixture and target board
- Integrated 2D data matrix or bar-code scanner
- Electric cylinder drive for opening and closing
- Topside and/or bottom side contacting of needles
- Automatic start of programming process after cover closure
- Automatic opening of cover closure after successful programming process
- Various installation and training options
- Service and maintenance contracts
- Adaptation to client's Manufacturing Execution Systems (MES) on request

Fixture / Bed of Needle

- ProMik inhouse production fixture
- Highest Signal Integrity
- Reliability and quality tested, plug & play
- Strain Gauge Analysis & FEA
- Adapter/Fixture dimensions:

Type	L x W x H (mm)	usable area
SAP2100-Auto-3	585 x 620 x 270	430 x 310 mm

MSP2100NET-Rack Technical Data

- Holds up to 10 MSP2100/2150NET programming modules in one standard 19" rack
- Integrated Ethernet switch and power supply for programmers
- Rear panel connections: 100-240 VAC and Ethernet RJ45 host interface
- Target power supply up to 13,5V / 3,5A per channel
- Rack enclosure standard dimensions 482 x 132 x 348 mm

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