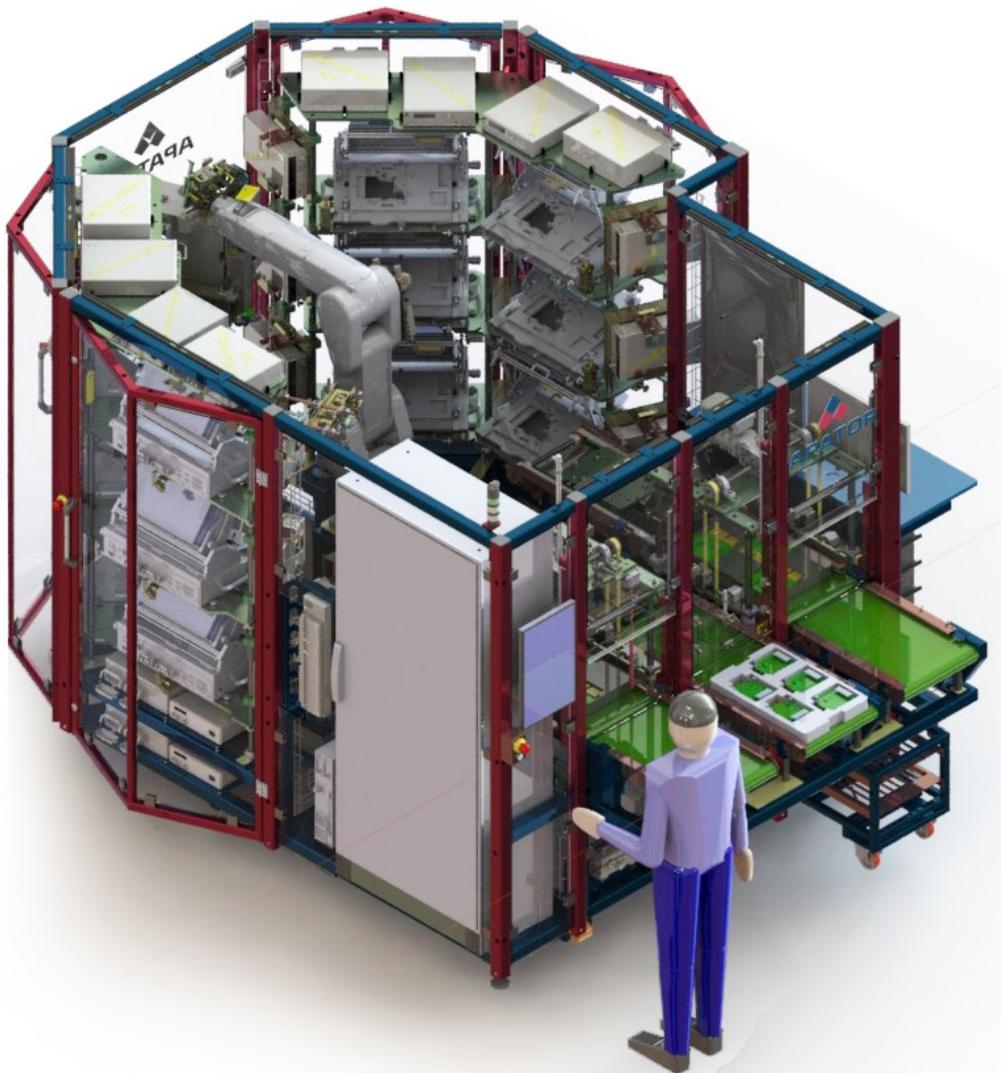
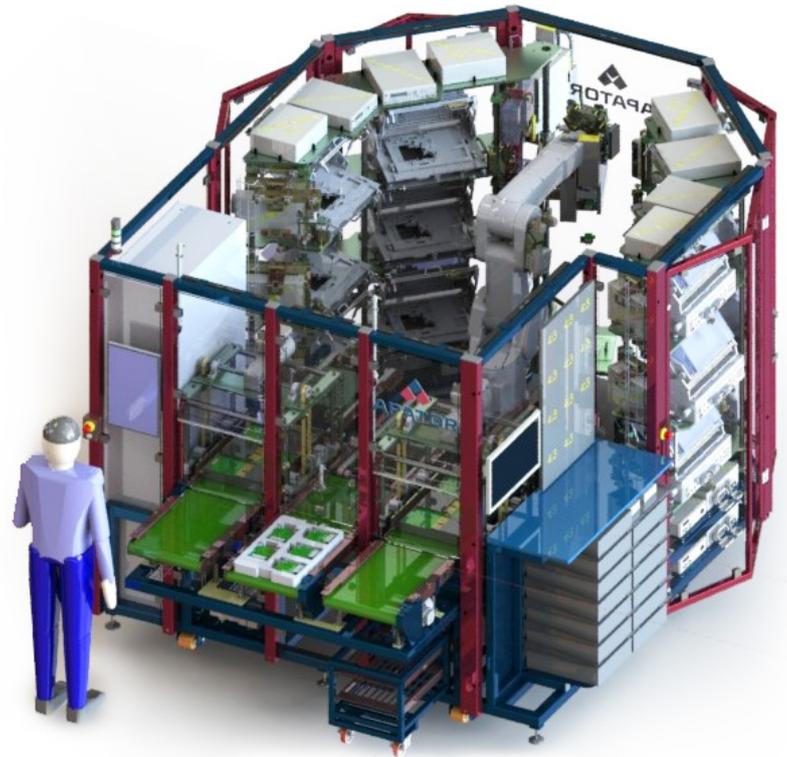


Electronics tester

Automated device for testing
and programming PCBs

Electronics tester

An universal, robotic **electronics tester** built on a durable, compact design that can be placed anywhere. This machine is designed for automatic PCB testing and has an additional labeling option. The robot enables fast, precise handling and positioning of details.



Device functionalities

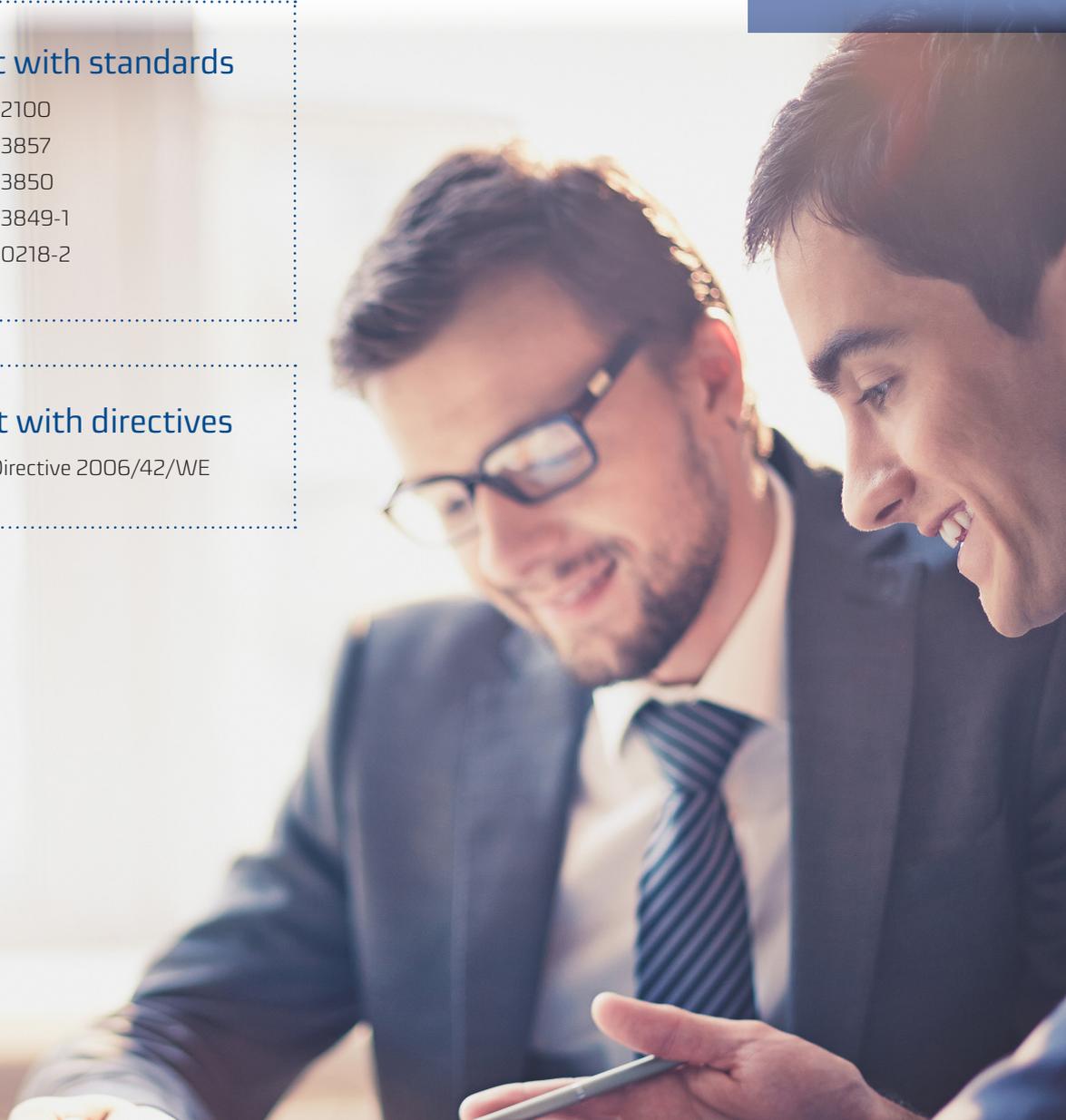
- Universal testing device for PCBs for a variety of products
- Simultaneous testing in a max. of 12 testers
- Guaranteed high performance of the device
- Minimization of downtime and high process repeatability
- Support for trays with max. dimensions of 600x400 mm
- Tray stack height supported by the device is as much as 8 pieces
- Several hours of work autonomy
- Capability to test various products thanks to applied solutions that enable quick tester exchanges
- Identification and recording of post-process data
- Reading the DataMatrix code
- Rapid tester implementation thanks to the use of a measuring probe
- RFID tester identification system

Compliant with standards

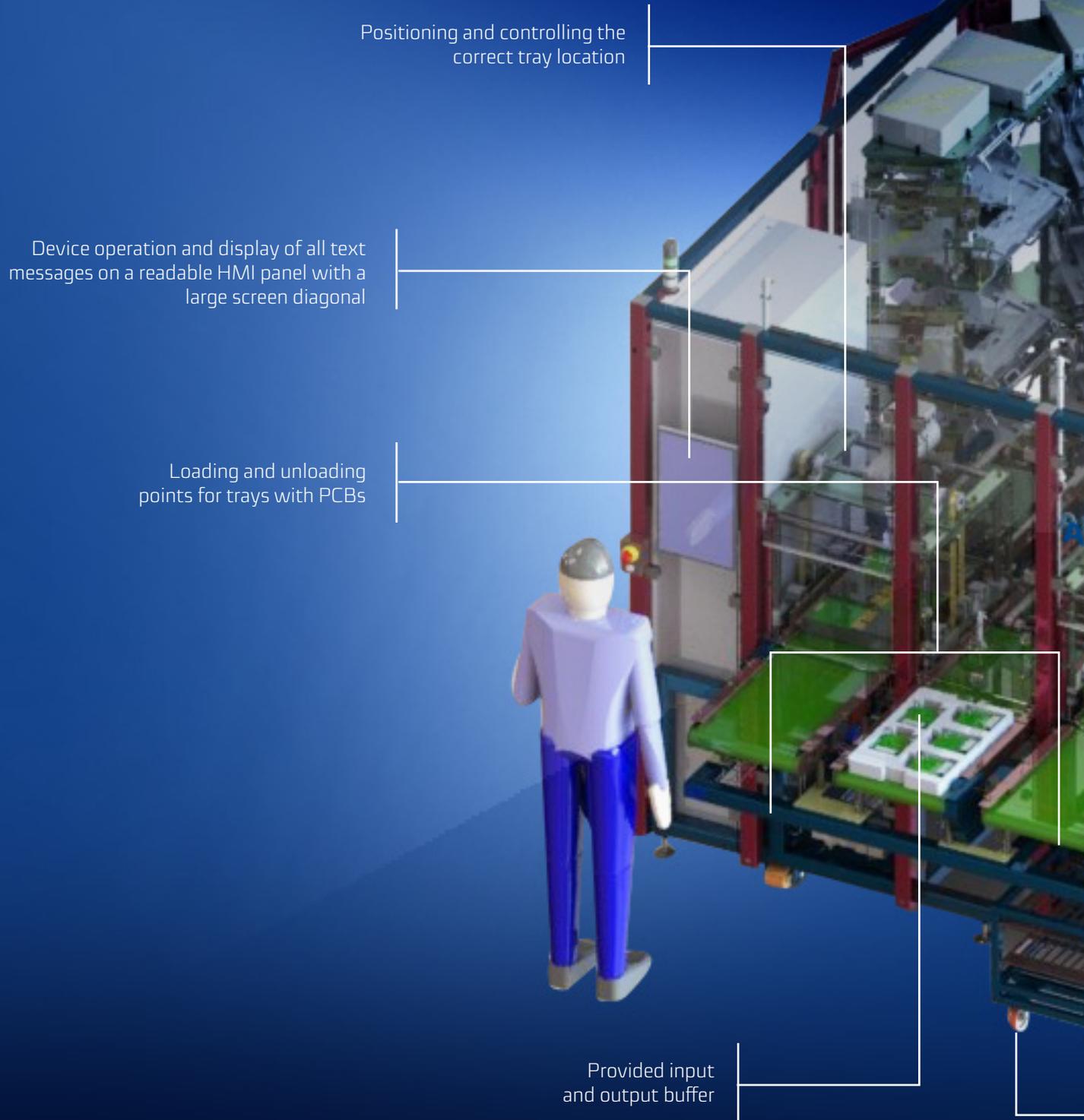
- PN-EN ISO 12100
- PN-EN ISO 13857
- PN-EN ISO 13850
- PN-EN ISO 13849-1
- PN-EN ISO 10218-2

Compliant with directives

- Machinery Directive 2006/42/WE



Device functionalities



Positioning and controlling the correct tray location

Device operation and display of all text messages on a readable HMI panel with a large screen diagonal

Loading and unloading points for trays with PCBs

Provided input and output buffer



Many available device options,
incl. printer, labeling and more

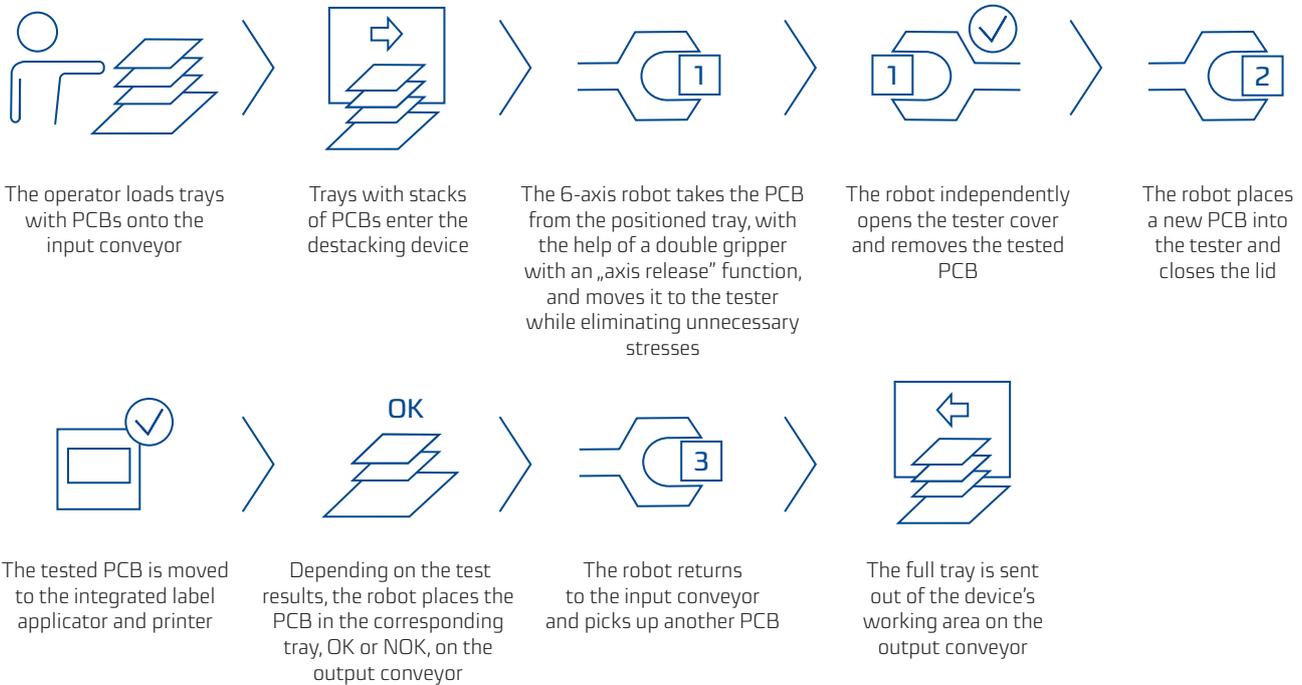
Support for viewing 12 testing
processes on a single LCD display

Ease of relocation - compact design
with a shared, solid base frame with
wheels

Dedicated space
for reworkable parts

Sequence of device operation

This solution is based on a centrally positioned, 6-axis robot which operates the testers. The tested products are delivered to the device using built-in conveyors in adapted trays with maximum dimensions of 600x400 mm.



Summary

This is a universal device that allows PCB testing for a variety of products, depending on individual needs. It is a high-class device with an extensive user interface providing a wide range of applications and possibilities, thereby increasing efficiency and quality of production processes.

We cooperate with tray manufacturers, thanks to which we have developed a standard of solutions that enable failure-free operation

Main device components

- 6-axis robot
- Mechanical gripper with the function of taking PCBs from trays and putting them into the testing fixtures
- Vacuum gripper with the function of picking up and putting away trays
- Automatic tester identification system with a quick exchange and positioning system
- Keyence measuring probe for the intuitive and efficient integration of support for new testing devices (one-time operation)
- Solid base frame that can be easily relocated
- High-quality tempered glass housing
- Input and output conveyors
- Tray destacking system on the input conveyor
- Tray stacking system on the output conveyor
- Stationary camera that reads PCB codes and recognizes their correct position in the tray
- Entry and exit gates
- Label applicator with an integrated printer (optional)

- In compliance with ESD standards
- Systems for lifting and positioning trays where the PCBs are picked up and deposited
- A control system along with a safety system, intuitive operator panel (HMI) and a series of sensors

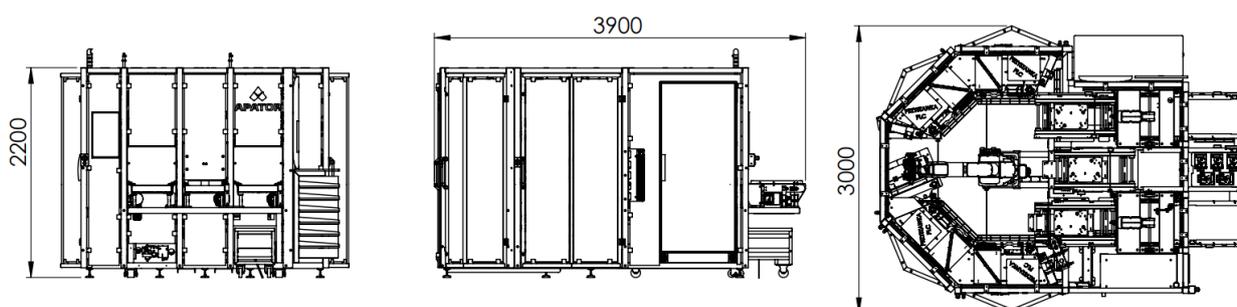
Device technical data

Parameter	Value
Rated voltage	400 VAC, 3P, 50 Hz
Control voltage	24 VDC
Network layout	TN-S
Pneumatic supply	6-8 bar
Device weight	3200 kg
Device dimensions	3000 x 3900 x 2200 mm

Example of device performance

Functional parameter	PCB 1	PCB 3
No. of PCBs in the tray	6	3
Test time [s]	480	540
No. of testers [pcs.]	12	12
Shift time [h]	7,5	7,5
System performance [pcs./shift]	620	540

Device dimensions



The data presented in this catalog is current as of the date of its issue.
The manufacturer reserves the right to make changes and improvements to the products without prior notice.
This publication is informative and does not constitute an offer within the meaning of civil law.



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