



# M1 Test Handler

## Scalable test handler for M-TestBoxes

The M1 Test Handler was created to provide a simple and cost-effective way to automate PCB testing. For smaller companies, the M1 offers a quick, easy, and affordable path to automated testing. For larger companies, the M1 makes ramping up production pain-free by allowing you to test prototypes in a low-volume production capacity.

### Don't extend your production line, expand it.

The M1 Test Handler is extremely easy to deploy and operate. But best of all, the M1 is truly scalable, giving you the ability, and test capacity, to cope with changing volumes as your business grows and your testing needs change. M1 offers an easy and simple

automation; especially when 1-3 test places needed. By replacing M1 later with M10 Test Handler, the test capacity can be multiplied without extending the production line.

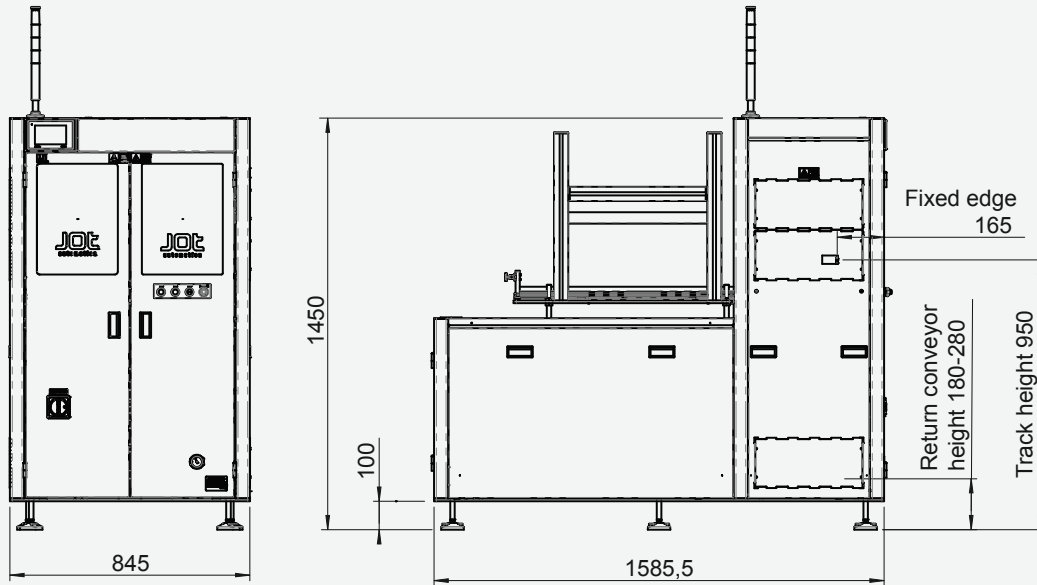
### M1 & M10 – Made for each other

As more test phases are required, multiple M1 Test Handlers may be deployed in-line, or, when utilized in the fully automated M-TestSystem, the same test boxes may be stacked in the M10 Handler. That means you can expand your production line without having to extend it. Because all application specific features are built inside M10 Test Box the nature of the test process can be updated dramatically by simply changing the box.

### Key features

- Simple and cost efficient automation of M10 boxes
- Same test boxes can be used in M1 and M10 handlers
- Easy to use, only START and STOP buttons needed in normal production usage
- Clear and informative touch UI for more comprehensive usage, e.g. service, performance, etc.
- Service friendly, easy access to instruments, fixture and control cabin
- Scale up the production volume by placing M1 handlers in row or stack boxes in M10 handler
- Space for test instruments
- No application specific features in handler
- Extremely good handler re-usability

# M1 Test Handler, M10-1128



## STANDARD FEATURES

- infeed conveyor with stopper
- Ventilated space for test instruments
- Conveyor frame can be turned down during fixture change
- Pass through mode
- Manual mode for service operations
- Dry run mode for system verification
- Touch screen user interface
- Performance statistics in GUI
- Service counter in GUI
- ESD-safe design
- CE-safety compliant

## TECHNICAL CHARACTERISTICS

Instrument rack:  
10 U space for 19" instruments  
Dimensions: See drawings  
Handler track height: 950 mm (SMEMA)  
Space for test boxes: 2–7 U (one box)

## OPTIONAL FEATURES

- Product serial code reading integrated inside the handler
- Pallet conveyor
- Return conveyor
- M1 rack customization, e.g. test instrument integration
- Tested product bypass option (in-feed buffer)

## DEVICE UNDER TEST (DUT)

### SPECIFICATION

Max DUT size (L x W): 300 x 200 mm  
Min DUT size (L x W): 80 x 50 mm  
Max top side component height: 200 mm  
Max bottom side component height: 10 mm  
Max weight, panel conveyor: 1 kg  
Max weight, pallet conveyor: 2,5kg

## INSTALLATION REQUIREMENTS

Power supply:

- 220-240 VAC / 50 Hz / 3 A
- 100-120 VAC / 60 Hz / 5 A

Compressed air connection:  
0.6 MPa

Air consumption:  
5 l/min