

ENGMATEC Test Handler (ETH)

Universal Handling System

The ETH-S (test handler with servo drive) is used for In-Circuit-, Function- and EOL-Test.

The contacting unit works one-sided or double-sided, also step by step for panel testing if required.

Features

- Variable contact strokes with specific knee lever system, spindle-drive and AC-servo motor
- Adjustable transport width from 50-400 mm
- Solid aluminium mechanic
- Precision 4 point pillar guide, conveyor depressing
- Antistatic conveyor
- Maximum flexibility by subsequently upgrading and adapting to new requirements
- Short set-up time, automatic fixture feed and interlocking
- Compatible to established test systems
- Transport height 950mm (Smema) or 830mm (Siemens)
- Customized housing colours
- Anti static covers
- Keyboard/video/mouse-switch for customer-supplied test system
- Customized transport direction
- Conveyor with by-pass function
- Component height up to 65 mm upper side and 35 mm lower side

Fixture Kit

Each upper and lower change kit interface includes

- max. 1700 test points
- any amount of interface blocks (pneumatic, electric, RF etc.)
- Interface from upper to lower fixture kit possible
- Test point spacing from 1mm possible (pad-diameter > 0.5 mm)

Options

- Barcode Reader
- Automatic width change
- Remote maintenance
- Integrated pusher to reduce handling times
- Component height up to 120 mm upper side
- 19" Rack for measurement equipment
- Customized interface from the base unit to the fixture kit, e.g. VPC (standard), Pylon, Sub-D



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General System Description

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|---------------------|--|
| Dimensions L/W/H | 760 / 900 / 1800 mm |
| Belt height | 950 +35/-45 mm (Smema) 830 ± 20 mm (Siemens) |
| Belt speed | Adjustable, up to 30 m/min |
| Transport direction | left → right or right → left |
| Width change | 50-400 mm |
| Handling time | Approx. 5 sec with belt and low profile components |
| Control | Beckhoff (standard), optional Siemens |
| Power Line | 230V/AC, 50/60 Hz |
| Airpressure | 6.5-8 bar oil-free and filtered air |
| Weight | about 450 kg |
| Pneumatic supply | Z-lift on the upper fixture and continuous air |

Workpiece carriers / PCB boards

| | |
|---------------------|--|
| PCB dimensions | (LxW) 50 ...400 mm |
| Component height | Upper side max. 65 mm Lower side max. 35 mm |
| PCB thickness | min 1.0 mm |
| Weight | Max 3 kg |
| Deflection of Board | max 2 mm |
| Component free Edge | min 3 mm |
| Tolerance position | +/- 0.3 mm |
| Test points | 4000 test points (with 1.5 N contact pins) |

Max. 5° skewing of components, which are higher than 10 mm

