

# ENGMATEC Test Handler (ETH)

## Universal Handling System

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

The contacting unit works single, dual or step by step for panel testing.

## Features

- Variable contact distances with specific knee lever system, spindle-drive and AC-servo motor
- Changeable transport width from 50-400 mm
- Solid aluminium mechanic
- Precision 4 point mechanic, conveyor belt lowering
- Antistatic conveyor
- Maximum flexibility by subsequently upgrading and adapting to new requirements
- Short set-up time, automatic fixture feed and locking
- Compatible to established test systems
- Transport height 930mm (Smema) or 830mm (Siemens)
- Customized housing colours
- Anti static covers
- Monitor/console-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

## Change Kit

Upper and lower change kit interface with each

- max. 1700 test points
- any amount of interface blocks (pneumatic, electric, RF etc.)
- Interface from upper to lower change kit possible
- Test point spacing from 1mm possible (pad-diameter > 0,5 mm)

## Auxiliaries

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



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## General System Description

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	aprox. 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

