



MCom

**FULLY AUTOMATIC TEST SYSTEM FOR E-TEST,
FUNCTIONAL TEST, IC-TEST OR HIGH CURRENT-TEST**



The microtester **MCom** is a fully automatic test system for double-sided testing of assembled and bare substrates. The substrates are fed from the stack, magazine, blister or inline from the conveyor belt. The visual recognition system PRS identifies and measures the substrate on both sides before it is positioned and offset-corrected in the fine-pitch adapter. Together with the Sirius-adapter technology, the MCom microtester allows to contact more than 40µm test points. Multiple panels are automatically stepped through the X and Y directions. A quick and safe retooling is provided by a rapid clamping system with identifiable change sets. In addition, customer-specific options such as heating and cooling stations, cleaning processes or a visual devaluation of faulty substrates can be integrated.

The MCom adapter can be used for debugging of the test program or for small series in the MCit-8 manual tester.

Specifications

machine type	fully automated test system
substrate feed	inline, blister, magazine, stack
measurements	open/short/R, flash, in-circuit, function, high current, HF
adapter type	adapter with rigid needles, spring probes, high current probes or HF probes
contacting way	one or both sides
contacting area	125 x 125mm (5" x 5")
contacting force	≤ 1000N
test point size	≥ 40µm
test point pitch	≥ 80µm
PCB- / carrier size W x L	≤ 210 x 300mm
marker system, optional	inkjet, laser, marker
PCB cleaning, optional	cleaning roll or airknife for bare substrates
changing system	adapter and grid with quick clamping system
fixating of PCB	vacuum, clamps, pins
PRS / camera	Cognex with PatMax
control	brick.technology with Windows
user interface	brick.touch on 17" screen
communication	SMEMA
dimension (W x D x H)	min. 1200 x 1200 x 1600mm
weight	≥ 900kg
supply	3 x 230V, 50/60Hz, 3kW 6 bar compressed air

Contacting options

protrusion of the needle and resulting minimum requirements

	needle protrusion	Ø rigid needle	test point	pitch
PCB	0mm – 0.1mm	0.045mm	0.04mm	0.08mm
PCBA	0mm – 2mm	0.18mm	0.10mm	0.25mm
	2mm – 4mm	0.30mm	0.12mm	0.40mm
	4mm – 6mm	0.30mm	0.15mm	0.40mm