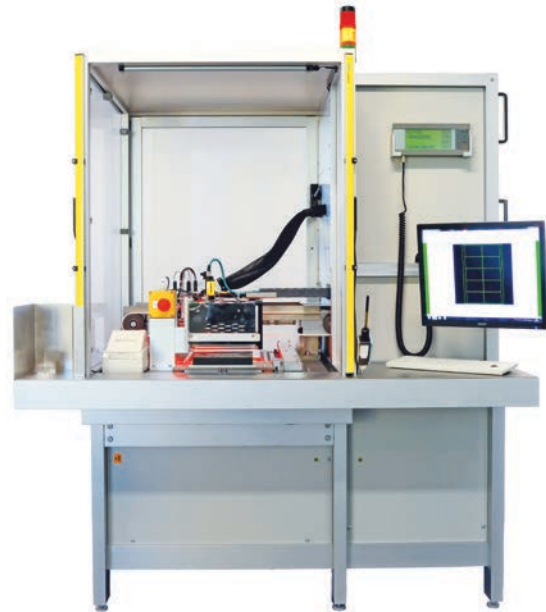


MCraft

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



The microtester **MCraft** is a semiautomatic test system for one-sided testing of assembled and bare substrates. After manual insertion, the substrates can optionally be cleaned from above. Subsequently, the visual recognition system PRS identifies the substrate and measures it precisely. By means of the determined offset values, the substrate is optimally positioned with respect to the fine-pitch adapter. Together with the new Sirius-adapter technology, the MCraft enables contacting of $\geq 40\mu\text{m}$ test points. Multiple printed panels are automatically stepped through in X and Y direction. For shorter test cycles, multiple adapters may also be used. Defective test samples can optionally be marked e.g. with colour.

MCraft adapters can be used in the manual tester MCit-8 for debugging test programmes or for small batches. If the quantities increase, the same adapters can also be integrated in the fully automatic MCom.

MCraft

Specifications

machine type	semi-automated test system
substrate feed	manually
measurements	open/short/R, flash, in-circuit, function, high current
adapter type	adapter with rigid needles, spring probes or high current probes
contacting way	one side from above
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	≤ 200 x 200mm
marker system, optional	inkjet, 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	-
dimension (W x D x H)	1500 x 1000 x 1900mm
weight	≥ 350kg
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