MCit

MANUAL TEST SYSTEM FOR E-TEST, FUNCTIONAL TEST, IC-TEST OR HIGH CURRENT-TEST

The microtester **MCit** is a manual test system for one-sided - optionally also double-sided - testing of assembled and bare substrates. The substrates are fed manually. The position can be precisely adjusted in the X and Y axis as well as in the rotation with the help of the camera system and the adjustment screws. The contact is made automatically by means of a pneumatic lifting axis.

The microtester is suitable for use in the laboratory, for debugging the test programs or as a repair station. The used adapters can also be utilised on MicroContact´s semi- and fully automatic microtesters.

This microtester is available for substrate sizes up to 4" x 4" (MCit-4) resp. 8" x 8" (MCit-8) and can also be manufactured larger according to customer specifications.

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Specifications

machine type	manual test system
substrate feed	manually
measurements	open/short/R, function
adapter type	adapter with rigid needles, spring probes or high current probes
contacting way	one side from above
contacting area	104 x 104mm (4" x 4") 208 x 208mm (8" x 8")
contacting force	≤ 1000N
test point size	≥ 200µm
test point pitch	≥ 250µm
PCB- / carrier size W x L	≤ 104 x 120mm ≤ 208 x 220mm
marker system, optional	-
PCB cleaning, optional	-
changing system	screwed adapter and grid
fixating of PCB	vacuum, clamps, pins
PRS / camera	- / CCD camera, adjustable focus and aperture, 5.6" screen
control	-
user interface	manually with setting screws
communication	-
dimension (W x D x H)	300 x 420 x 450mm 425 x 460 x 450mm
weight	≥ 17kg ≥ 35kg
supply	200 - 240V, single phase, 50/60Hz, 100W 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	0.18mm	0.20mm	0.25mm
PCBA	0mm – 2mm	0.18mm	0.25mm	0.30mm
	2mm – 4mm	0.30mm	0.25mm	0.40mm
	4mm – 6mm	0.30mm	0.25mm	0.40mm

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