The Latest Technology in Flying Probe Test

condor

MTS 500

- **Accurate** - Pinpoint precision - Repeatable results
- **Quick** - Fast program development - Increased test speed - 30% faster
- **Easy** - Scalable - ICT/FCT and integrated Boundary Scan
- **Economical** - New pricing makes Condor even more attractive

In-Line

FrontLoader

digitaltest

Mechanical

Dimensions (height x width x depth)	Standard 165 x 150 x 120 cm (65 x 59 x 47") with Traffic Control Unit add 30cm (12") in height
Weight	Standard 1800kg (3,968lb)
Max. no. of movements	40 per second

Probes

Number of test heads	4 on linear motors
Maximum number of fixed pins	1016
Slope of all test probes	0 and 8 degrees

Positioning Accuracy X-Y

Minimum distance between two pins	100µm (4mil)
Resolution	0.625µm (0.0246mil)
Repetitive accuracy	25µm (1mil)
Minimum pad size	100µm (4mil)

Positioning Accuracy Z

Resolution	4µm (0.157mil)
Default nail pressure	0,8N

Softlanding option for minimum impact on pads

Board Transport

Conveyor with automatic adjustable board width

Board Specifications

Height of components on top side	max. 50mm (1.97")
Height of components on bottom side	max.115mm (4.53")
Board size (Standard)	max.500 x 400 mm (19.69 x 15.75")
Maximum board thickness	4mm (157mil)
Edge clearance	3mm (118mil)

Operating Environment

Temperature	20-30 °C/59-95 F
Maximum humidity	80% not condensed

Hardware

Controller	Industrial PC (Pentium)
Analog Matrix	Up to 1016 channels
Signal Switching Unit (SSU)	- Array for each 128 pins - Pins can be connected to one of 6 bus lines
Hybrid Driver/Sensor module	Up to 504 channels - Array for each 64 pins
- Inputs/Outputs	±10V programmable
Max. Voltage	±500mA backdriving or ±50mA in static operation

- Pin RAM (enables dynamic high speed bursts)
- One logic family per pin

Programmable Power Supply

- One power supply channel with floating output
- Output voltage and current limit is programmable
- Short circuit monitoring via hardware and software
- Output via software disconnecting/connecting
- Separate force and sense lines
- Thermal shutdown
- Programmable power supplies (UPS) 9V/10A, 24V/5A, 45V/3.5A

Functional Test Modules

MPF (Memory Programming & Flash)
- Flash on board programming
- Memory test (RAM/ROM/µController)
- Parallel and serial test protocols

MTC (ModPack - Timer Counter)
- Measurement of Frequencies, Periods, Pulse Width, Rise & Falling Time as well as events for each circuit
- 4 circuits per module on 8:1 Multiplexer = 32 inputs
- Up to 100MHz

MSM (ModPack - Source and Measurement)
- Measurement and stimulus of voltage and current (AC & DC)
- Signal connectable to internal bus
- Accurate source of voltage and current

MRM (ModPack - Relay Module)
- All-purpose for switching of different signals
- Connection between test item and other hardware

MOC (ModPack - Open Collector)
- Switching of high current relays
- All-purpose for switching of different signals

ICT Analog

Guard Ratio	1:1000
Voltage Source	(AC/DC) 0-100V
Frequency	DC up to100kHz
Voltage measurement	(AC/DC) up to 100V
Current measurement	(AC/DC) up to 100kHz
Capacitance	1pF to 100mF
Resistance	0.1 to 100MOhm
Inductance	10µH to10H

- 4 Quadrature measurement
- Diodes, Zener and Transistors in both directions up to max. 100V
- 6-wire reed relays matrix (MUX), max. 1016 analog, non multiplexed pins

Software

Program development
- Automatically through APG
- Via CAD data and C-LINK
- More than 65 different CAD Interfaces
- Output for fixture data

Program debugging
Comfortable debugging within interpreter mode

Fault localization
Layout & Schematics - for paperless service and repair
Layout - graphical localization of faulty elements
Schematics - display of current version of schematics diagram
Fault Catalogue - intelligent catalogue for localization of errors

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