MT9928 xm
High Speed Gravity Handler

Productivity
- 28,000 uph
- Up to x8 test site parallelism
- Various contact side modes available
- Highest productivity

Flexibility
- MSOP 100 mil to SO 430 mil
- QFN 2 mm to QFN 11 mm
- Supports contact site pitch down to 0.4 mm
- Input and output: Tube, Metal Magazine and Bowl/Bulk
- Fast kit conversion
- Free contact site mapping

Full tri-temp range -55°C to +175°C
Contacting: standard, high frequency and Kelvin
Multiple MEMS stimuli available
Installed base >1,300
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Specifications

Performance Characteristics
PLATFORM
Throughput up to 28,000 uph
Index Time
Single STD cassette: down to 550 ms
Dual STD cassette: down to 1,000 ms
Single VAC cassette: down to 800 ms
Dual VAC cassette: down to 1,200 ms

Jam Rates
Down to 1:10,000 (under controlled conditions)

Temperature Characteristics
Temperature range: ambient to +155 ºC; -55 ºC to +155 ºC;
extended range +175ºC (optional)
Test Site Accuracy: +/- 2 º for STD application; +/- 5 º for
PTB application
Test Site Stability: +/-0.5 º
Soak capacity: 4 x 460 mm

Input / Output Characteristics
Versions of input-/output modules
Input tube: stack height 380 mm
Input metal magazine: stack height 180 mm
Input bowl: capacity 0.4 liter
Output tube: stack height 180 mm
Output metal magazine: stack height 180 mm
Output bulk: capacity up to 4 x 0.66 liter
Tubes spec: 170 mm to 560 mm, max. 20 mm width, 8 mm
height
Metal magazine: width up to 67 mm, length: 520 to 540 mm

Productivity
Available options (selection):
Ground fault monitoring Tube color detection
Secs/Gem interface Free contact site mapping

Facility Requirements
Power supply (voltage/ phase)
230 V to 250 V, 50Hz/60Hz, 32 Amps, single phase
230 V/ 400 V, +/-10 %, 50/60 Hz, 2x16 Amps, dual phase
Power consumption: Max. 4 kW
Compressed air supply: 6.0 bar to 9.0 bar
Compressed air consumption: 300 to 660 l/min (depending on configuration)
LN2 supply: 0.9 bar to 6.0 bar
LN2 consumption: 17 l/ h max

Physical Dimensions
Height incl. signal light: up to 2,320 mm
For transport (without signal light: 1,940 mm)
Width: 1,480 mm
Depth: 1,105 mm
Weight: typ. 635 kg

Electrical Interface
TTL, RS 232
IEEE 488 optional network standard

KITS

Device Types
MSOP118, SO150, TSSOP173, SO209, SO300, SO330, SO430, QFN 2x2 to QFN 12x11, TSOT5, SOT223, TO252, DIL300, TO252
Other packages upon request

Device Specifications
Leaded packages: SOT, SO, TO from 100 mil to 430 mil
Leadless packages: DFN, QFN from 2 to 11 mm
Device length: 2 mm to 21.3 mm
Device height: down to 0.5 mm, up to 4.6 mm
Lead pitch: down to 0.4 mm

Kit Changeover
Mechanical package style conversion: takes typ. 1-2 hours
(depending on skills and use of “fast conversion option”)

Contactors
Cohu offers contact socket for all package versions and application, i.e. high frequency, high power, high voltage, Kelvin and MEMS test.

Specifications subject to change without notice.
For detailed performance specifications, please contact Cohu.