

ISMECA NY20

Configurable, High Speed Turret Handler



THROUGHPUT & FLEXIBILITY
WITHOUT COMPROMISE

Productivity

- Up to 50,000 uph
- Robustness with MTBA > 120 min
- ABR - Auto Breakdown Recovery
- APC - Auto Pickup Head Calibration
- AHC - Auto Height Correction
- FCF - Force Control Feedback
- NVcore - New generation vision inspection

Modularity

- Input: Bowl, Tube, Multitrack
- Output: Tape and Reel, Bulk, Tube
- Up to 8 test stations

Flexibility

- QFN, DFN 0.3 x 0.6 mm → 12 x 12 mm
- SOT, SC, SOD 1.0 x 0.6 mm → 6 x 6 mm
- SO, TSSOP, TO, D2PAK
- LED
- Fast Conversion

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Process Capabilities

Input

Bowl, Tube, Tape

Output

Tape and Reel, Tube, 64 / 128 Bins (for LED)

Processes

Device Orientation, Device Flip, Test Contacting up to 8 stations, Electrical Tester (Discrete), LED full flux optical test, Laser marking, 6 Side Vision inspection, Bulk Sorting, Tube Sorting, Auto Reel Changer

NativeNET Vision Inspection

2D, 5S, 3D, Mark, 2D Matrix code, Surface (6 sides), Color, In-Tape, Code reader, OCR, LED dedicated solution

Test Contacting

Flat Test, Clamping Test, Pogo pin socket, Small device dedicated solution, LED dedicated solution, Kelvin and non-Kelvin solutions available

Specifications

Device Range

Discrete Leaded: 1 x 0.6 mm to 6 x 6 mm / thickness \geq 0.30 mm

Discrete DFN: 0.3 x 0.6 mm to 9 x 9 mm / thickness \geq 0.25 mm

QFN: 1 x 1 mm to 12 x 12 mm / thickness \geq 0.30 mm

SOIC: 3 x 4.9 mm to 17 x 17 mm / thickness \geq 0.90 mm

LED: 1.5 x 1.5 mm to 12 x 12 mm / thickness \geq 0.30 mm

Contacting Force

Up to 7N independent Z axis

Up to 27N independent Z axis (optional)

Up to 50N with pneumatic solution (optional)

Index Time

Down to 40 ms, depending on device and process

Throughput

Discrete Leaded: up to 50,000 uph

Discrete DFN: up to 50,000 uph

QFN: up to 48,000 uph / up to 38,000 uph with FCF

SOIC: up to 30,000 uph

LED: up to 30,000 uph

Productivity

MTBA: > 120 min (typical)

MTBF: > 168 h (typical)

Conversion time: 20 min to 60 min (typical)

Automatic rejection and replacement in tape (optional)

2nd Tape and Reel with flip-flop (optional)

Auto Reel Changer (optional)

Dual Lot Mgmt. for LED sorting

User Interface

Windows 7-based color touchscreen

Language: English and Chinese (simplified), other upon request

NativeNET Vision: dedicated monitor, keyboard with trackball

Interface

Network: Ethernet capability

I/O parallel interface for Tester and Laser

SECS GEM (optional)

GPIB (optional)

ESD

According to ANSI / ESD SP10.1

ESD Class 0 (optional)

Power Requirements

230VAC 50Hz, One Phase, 0.5kVA / 1.5 kVA with pump

110VAC 60Hz, One Phase, 0.5kVA / 1.5 kVA with pump

Air Requirements

Pressure range: 5-10 bars

Air consumption: 5 m³/h (typical)

Vacuum Requirements

Vacuum Network: - 0.5 bars \pm 10%

Consumption: 420 l/min (typical)

Vacuum Pump (optional)

Dimensions (typical)

Overall dimension: 0.8 x 0.8 x 1.80 m

Floor space requirement: 1.3 x 1.0 x 1.80 m

Weight: net 650 kg / gross 1000 kg

Standards

CE

2006/42/EC Machinery

2004/108/EC Electromagnetic compatibility (EMC)

2006/95/EC Low Voltage



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