

# NY32

## Highest Demanding Finishing Processes



Automotive



Mobility



IoT/IoV & Optoelectronics



Computing & Network



Industrial & Medical



Consumer

### Productivity

- Up to 30,000 UPH
- Complete Finishing Solution
  - Full Vision inspection
  - Test Contacting
  - Electrical Tester (Discrete)
  - Auto Reel Changer

### Flexibility

- Tube / Metal Magazine / Bowl Feeder
- Up to 16 Test Sites
- 6 Sides inspection
- Tape and Reel/Tube / Tray Output
- In-Tape inspection with Auto-Reject and Replacement
- Tube /Tray / Bulk Reject
- Wide applicable device range 0.3 x 0.6 mm to 17 x 17 mm
  - Discrete, Power Discrete, DFN/QFN, SOIC, LED, BGA, MEMS, Bare Die, Bumped Die

- 32-position Turret Test and Scan
- Autonomous operation and productivity
- Automotive KGD
- Comprehensive Cohu NV-Core Inspection System
  - 3D Flex® for True Ball/Bump co-planarity
  - Full 6 Sides inspection

# NY32

## Highest Demanding Finishing Processes

### Specifications

#### Platform

##### Device Range

- Discrete Leaded: 1 x 0.6 to 6 x 6 mm/thickness  $\geq 0.38$  mm
- Power Discrete: 5 x 5 to 10 x 30 mm/thickness  $\geq 0.38$  mm
- Discrete DFN: 0.3 x 0.6 to 12 x 12 mm/thickness  $\geq 0.30$  mm
- QFN: 1 x 1 to 12 x 12 mm/thickness  $\geq 0.30$  mm
- SOIC: 3 x 4.9 to 17 x 17 mm/thickness  $\geq 0.90$  mm
- LED: 1.5 x 1.5 to 12 x 12 mm/thickness  $\geq 0.30$  mm

##### Contacting Force

- Up to 7N independent Z axis
- Up to 27N high force independent Z axis (optional)
- Up to 50N pneumatic plunger (optional)

##### Index Time

- Down to 80 ms, depending on device and process

##### Performance Characteristics

- Discrete Leaded: up to 30,000 UPH
- Power Discrete: up to 20,000 UPH
- Discrete DFN: up to 30,000 UPH
- QFN: up to 30,000 UPH/up to 17,000 UPH with extra pneumatic plunger
- SOIC: up to 25,000 UPH
- LED: up to 35,000 UPH
- MTBA: typ. >2 h
- MTBF: typ. >168 h
- Conversion time: typ. <60 min
- Automatic rejection and replacement in tape (optional)
- 2nd Tape and Reel with flip-flop mode (optional)
- Auto Reel Changer (optional)

##### User Interface

- Movable Windows-based color touchscreen
- Language: English and Chinese (simplified), other upon request
- Keyboard, mouse (optional)
- Handler status indicator light (green, yellow, red)
- NV-Core Inspection System: dedicated monitor, keyboard, mouse

##### Interface

- Network: Ethernet capability
- I/O parallel interface for Tester and Laser
- SECS GEM (optional)
- GPIB (optional)

##### ESD

- According to ANSI / ESD S20.20 / ESD SP10.1
- ESD Class 0 (optional)

Specifications subject to change without notice.

For detailed performance specifications, please contact Cohu.

#### Facility Requirements

- 110 VAC - 240 VAC 50/60 Hz, One Phase
- 2 kVA / 3.5 kVA with vacuum pump (optional)
- Air Pressure range: 5-10 bar  $\pm 0.5$  bar
- Air consumption: 5 m<sup>3</sup>/hour (typical)
- Vacuum Network: -0.5 Bars  $\pm 10\%$
- Consumption: typ. 420 l/min (typical)

#### Dimensions

- Overall dimension: 0.8 x 0.8 x 1.8 m
- Floor space requirement: 1.3 x 1.0 x 1.8 m
- Weight: net typ. 650 kg/gross typ. 1000 kg

#### Standards

- CE
- S2/S8 assessment
- 2006/42/EC Machinery
- 2004/108/EC Electromagnetic compatibility (EMC)
- 2006/95/EC Low Voltage

#### Process Capabilities

##### Input

- Bowl, Tube, Metal Magazine, JEDEC Tray, De-taping

##### Output

- Tape & Reel, Auto Reel Changer, Wafer output, Tube, JEDEC Tray, LED 64 Bulk Sorting

##### Processes

- Device Orientation
- Device Flip
- Test Contacting
- Electrical Tester (Discrete)
- LED optical test (ambient and temperature 90°C)
- Laser marking
- 6 Sides Vision inspection
- Bulk, Tube, Dual Tray sorting
- Waffle Pak sorting
- Wafer reject sorting
- Wafer map traceability

##### NV-Core Vision System

- 1D/2DMC code reader
- 2D/3D Flex<sup>®</sup> ball/bump co-planarity
- Mark, Surface, 5S, Color Vision
- In-Tape, Post Sealing inspection
- LED dedicated solutions

#### Contactors

- Cohu offers contact sockets for all package versions and applications, i.e. One Touch Socket "High Amps", Flat Test Kelvin, Small Device Kelvin, Pogo pin pocket, LED dedicated solutions