

FastLine™ Model P300

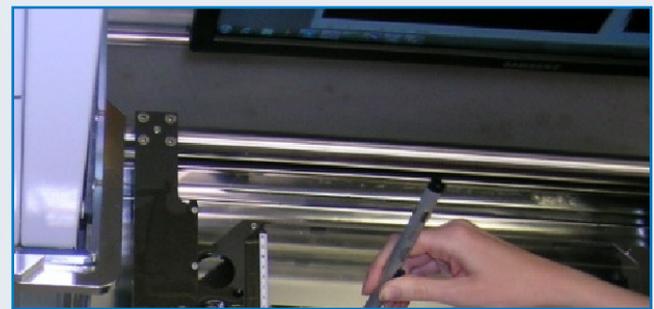
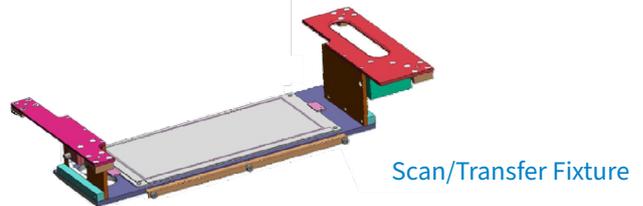
C-Mode Scanning Acoustic Microscope

Introducing the new FastLine™ series of C-SAM® systems for Production line use... Model P300™



What's different about P300?

Every detail was engineered specifically to match the way customers use AM systems as part of their production and process control on the factory floor!



Simultaneous Scanning and Safe Loading Zones

Features

- Operation has been optimized for throughput and productivity.
- Design has been integrated to minimize footprint.
- Ergonomic features provide operator comfort & efficiency.
- New electronics platform to meet current and next generation applications.
- Includes Sonolytics™, the new easy and intuitive user interface.

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Key Features for Production

- **Increased Throughput and Productivity** with simultaneous scanning and loading zones and precise positioning transfer mechanism
- **PolyGate™ Technology** with up to 100 gates of data acquisition per scan in either Multi-Gate or Probing-Gate imaging modes
- **Pixel Pitch™ Mode** allows the operator to select the desired data point spacing and scan area size, thereby determining the C-SAM image resolution
- **Movement Map™** links SW and HW to match X-Y location grid with the part locations
- **Time Domain Pulse-Echo Modes** include; A-Scan, B-Scan, C-Scan, Bulk Scan and Loss of Back Echo (LOBE)
- **Q-BAM™** (Quantitative B-Scan Analysis Mode) for virtual cross sectioning, while maintaining amplitude and polarity data
- **C-SAM Interactive™** provides internal interactive help function for user applications support
- **THRU-Scan™** (Through transmission imaging) is optional for up to 100 MHz
- **STAR™** (Simultaneous Thru-Scan™ and Reflection) is optional and allows both image types to be obtained with one scan

Operating System

- Sonolytics™ for Windows 7®
- Multi-Language OS Operation
- English, Japanese & Trad. Chinese

MCU Configuration

- CPU: Intel® Core™ 2 Quad at 2.66 GHz
- 8 GB RAM Memory
- 500 GB HDD
- DVD-R/RW / CD-R/RW SATA
- 10/100/1000 Ethernet ports
- 24" WS FP Monitor

Mechanical System

- Inertially Balanced Scanner with capability to scan 317 x 317 mm (12.5 x 12.5 in) area
- X-Y-Z axis precision of + 0.5 microns
- Scan tower based sample reference for repeatable positioning
- Scan Speed up to 1016 mm/s (40 in/s) for the fastest image acquisition time
- Up to 268 Megapixels (16K) data resolution and acquisition format with zoom enlargement (4 Megapixels (2K) standard)

Electronic System

- Digital Pulser/Receiver optimized for use with 10 to 120 MHz transducers
- Compatible with 10 to 230 MHz Transducers
- 95 dB Gain - selectable in 0.5 dB steps
- PolyGate™ Technology for Multi-Gate and Probing-Gate imaging
- 100 Gates for data acquisition
- Digital Gating selectable from 1 to 10,000 ns
- Acoustic Impedance Polarity Detector (AIPD) (Ref. U.S. Patent 4,866,986) simultaneously displays both polarity (i.e., phase) and amplitude information

Facility Requirements

- Universal Voltage - 90V to 250V AC, Single Phase, 50/60 Hz and 15 amp circuit (120V)
- Compressed Air – Pressure: 550kPa (80 psi) & Flow Rate: 15 lpm (0.5 cfm)
- Straight Configuration - L 166 x W 76 x H 160 cm (L 65.5 x W 30.0 x H 63 in.)
- **Select Height** - Desktop 79 cm (31in) or Workbench 89 cm (35 in)

Included Features

- “L” shaped tank with simultaneous scanning and loading zones
- Two (2) sliding fixtures for handling a JEDEC style tray or sample reference tray
- Two (2) sample reference trays for known positioning of a matrix of parts
- Clean Room ready system with stainless steel tabletop & ESD ground points
- Application Set-up Wizard to assist users with system set-up (e.g., transducer selection)
- SONOLINK™ Direct “on-line” support via internet for diagnostic/ application support
- AUTOSCAN™ function for auto-selection of part alignment, field of view, focus, gating and gain
- Multiple A-Scan display corresponds to selected points on the C-SAM image
- Quantitative measurements for distance and time on image or A-Scan
- Automatic storage and recall of instrument settings and parameter library when a saved image is recalled
- GIF, PNG, JPG, TIF, BMP and IMWX file outputs for digital data transfer and file storage
- Water management system with water fill, drain, recirculation, filter functions and overflow protection

Other Optional Features

- Tray-Scan™ for automated data collection & analysis per accept/reject criteria of the components in a JEDEC style tray or sample reference tray
- Digital Image Analysis (DIA) includes area fraction analysis, image enhancement, histogram, FFT, pixel amplitude analysis, plus image subtraction and addition
- Package Region™ Analysis for ICs
- ASF™ for surface flatness measurements
- Waterfall™ Transducer for non-immersion type scanning
- Heater for water temperature stability and consistency

For more information, speak with your Nordson representative or contact your Nordson regional office

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