XELTEK
SuperBOT Automated Equipment Company

SuperBOT 5 Series Automated IC Programmer

Unlock the power of high-speed, fully automated IC programming with SuperBOT 5 series, the industry-leading solution designed for high-volume production lines. Engineered for efficiency, precision, and versatility, SuperBOT 5 series streamlines your programming process with cutting-edge technology and an intuitive user experience.

DEVICE PACKAGE

- Small device handling: 1.5mm x 1.5mm
- Supports all package types

HIGHEST SOCKET DENSITY

- Up to 8 SuperPro 7500N universal IC programmers for 32 sockets

FLEXIBLE OPTIONS

- Fiber Laser Marking
- Ink dot marker
- Tape out
- Tape in / Dual Tape In
- Tray
- Tube I/O

WARRANTY & SUPPORT

- 2 year hardware warranty
- 5 year free support

HIGH THROUGHPUT

- 2,500+ units per hour
- Dual or Quad Pick & Place nozzles

BENEFITS

- FREE Factory Training
- Free Device Support
- Rapid Technical Assistance
- Direct Access to Engineering Team via Instant Messaging

Silicon Valley, CA
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Device Handling

- **Throughput:** 2,500 per hour
- **Component Size Compatibility:** 1.5mm to 30mm
- **Accuracy of X, Y, & Z Axis movement:** ±0.02mm
- **Nozzles:** Quad(SBOT5A) or Daul(SBOT5e)
- **PC:** Windows OS
- **Compliance:** CE, Rohs, Reach

I/O

- **Tape in:** 8mm - 44mm
- **Tape out:** 8mm-44mm
- **Auto Tray:** Supports up to 25 JEDEC trays
- **Manual Tray:** Single jedec tray
- **Tube Input - Tube Output**
- **Reject Bin**

Electrical and Mechanical Specification

- **SBOT5A Dimensions:** 1280(L) × 840(W) × 1500mm (H)
  Weight: 450kg
- **SBOT5E Dimensions:** 1260(L) × 900 (W) × 1550mm (H)
  Weight: 248kg

- **Power Supply:** AC 200–240V, 50–60Hz, Single Phase
- **Power Consumption:** 1.5 KVA
- **Air Requirements:**
- Clean, dry air supply
- Pressure: 0.6 MPa
- Air Consumption: 50 liters/min

Marking & Label Option

- **Laser Marker:** Fiber Laser
- **Ink:** Supports dot marking

- **Barcode**
- **QR**
- **Label**

Vision System

- **Dual CCD Camera System:** Equipped with two high-precision CCD cameras for accurate component alignment.
- **Upward CCD:** Used for IC positioning to ensure precise placement.
- **Downward CCD:** Dedicated to socket and pick-and-place spot positioning for enhanced accuracy.
- **Field of View:** 30mm × 30mm, providing a comprehensive scanning area.
- **Vision Accuracy: Positional accuracy** (Δx, Δy): 0.07mm **Rotational accuracy** ($\Delta\theta$): 0.1°

Programmer & Socket Specifications

- **Programmer Model:** SuperPro 7500N
- **Socket Lifespan:** Typically 10,000 – 60,000 insertions

Supported Device Packages
- PLCC, JLCC, SOIC, QFP, TQFP, PQFP, VQFP, TSOP, SOP, TSOPII, PSOP, TSSOP, SON, EBGA, FBGA, VFBGA, uBGA, WLCSP, SCSP, and more.

Supported Devices
- EPROM, Paged EPROM, Parallel & Serial EEPROM, FPGA Configuration PROM, Flash Memory (NOR & NAND), BPROM, NVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontrollers (MCU)

Software Operations
- Erase, Blank Check, Program, and Verify

Testing Options
- Mis-insertion detection
- Backward device insertion detection
- Device ID verification

API & System Integration

Easily integrate with third-party systems using a robust API protocol.

- **MES System Compatibility**
- Works with Manufacturing Execution Systems (MES) for optimized and streamlined production workflows.

- **HSM Support**
- Fully compatible with Hardware Security Modules (HSM) to ensure secure programming and data protection.

Support & Warranty Benefits

- **Free Factory Training** – Up to 4 days of comprehensive training for 2 operators to ensure seamless operation.
- **5-Year Support** – Enjoy five years of free technical support with no support contracts required.
- **2-Year Hardware Warranty** – Coverage for hardware-related issues to ensure long-term reliability.
- **Direct Access to Xeltek Engineering Team** – Get priority support from our engineering experts for quick troubleshooting and issue resolution.

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SUPPORT THAT WORKS FOR YOU

WHY WAIT DAYS FOR A TECHNICIAN?
XELTEK OFFERS SAME-DAY REMOTE ASSISTANCE— OFTEN RESOLVING ISSUES FASTER THAN AN ON-SITE VISIT.

Don't let issues slow you down. Our dedicated support team is here to help you.

✅ **DIRECT ACCESS TO ENGINEERS, NOT JUST TIERED SUPPORT**
✅ **REMOTE TROUBLESHOOTING WITHIN HOURS**
✅ **EFFICIENT ISSUE RESOLUTION KEEPS YOUR PRODUCTION RUNNING**
"ON-SITE SERVICE MAY SOUND APPEALING — BUT WE SOLVE PROBLEMS FASTER THAN THOSE WHO OFFER IT."

WE DON'T JUST DELIVER MACHINES—WE TRAIN YOUR TEAM TO RUN THEM CONFIDENTLY.
✅ **COMPREHENSIVE HANDS-ON TRAINING AT OUR FACTORY**
✅ **ACCESS TO TRAINING VIDEOS, GUIDES, AND LIVE WALKTHROUGHS**
✅ **LONG-TERM BENEFIT: LESS DEPENDENCY, MORE CONTROL**
YOUR OPERATORS LEAVE CONFIDENT, CAPABLE, AND EQUIPPED.

NEED ON-SITE HELP? NO PROBLEM.
✅ **FLEXIBLE OPTION, AVAILABLE IF AND WHEN NEEDED**
✅ **TRANSPARENT FLAT-RATE SERVICE FEES**
PEACE OF MIND—WITHOUT HIDDEN COSTS OR SERVICE CONTRACTS.

Others send technicians. We send solutions — fast, efficient, and on your schedule.

Fast, Reliable Remote Support	Free Factory Training – Built for Your Team	Optional Paid On-Site Support Available

"Xeltek team provided excellent support during the installation and training of our new SBOT IC programming machine. They were professional, responsive, and answered all of our questions and concerns promptly. The programmer is now running smoothly and has significantly improved our production quality and manufacturing efficiency. Many thanks to the entire Xeltek team!"

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