

## Overview

SuperBot 4 is designed for small to medium automated programming projects. The device includes a tray with automatic chip pickup and placement for programming sockets. The entire programming procedure is automated, thus replacing traditional manual operations.

## SuperBot-4 comes with

- 4 x SuperPro 7500



## Specifications

- Devices Supported:  
EPROM, Pages EPROM, Parallel and Serial EEPROM, FPGA Configuration PROM, FLASH memory (NOR & NAND), BPROM, NVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, etc.
- Package:  
DIP, SDIP, PLCC, JLCC, SOIC, QFP, TQFP, PQFP, VQFP, TSOP, SOP, TSOPI, PSOP, TSSOP, SON, EBGA, FBGA, VFBGA, uBGA, CSP, SCSP, etc.
- Power Supply:  
AC Input 90V to 250V, 50/60Hz, DC output AC 220V
- Power Consumption: 500W
- Size:  
Main Machine: 750(L)x600(W)x622(H)mm
- Weight: 50 Kg (main machine)

## Tech Specs

<b>Motion System</b>	XYZ System, Belt drive + rail. Single nozzle.
<b>Resolution</b>	X axis: $\pm 0.05$ mm; Y axis: $\pm 0.05$ mm; Z axis: $\pm 0.02$ mm
<b>Stroke</b>	X axis: 400mm; Y axis: 350mm; Z axis: 30mm
<b>Operable Chip Size</b>	Minimum: 3x3mm; Maximum: 30x30mm
<b>Maximum Throughput</b>	600 Unites Per Hour
<b>Camera</b>	Downward CCD camera for sockets/ pick & place spots positioning. 512x512
<b>Field of View</b>	30x30mm
<b>Manual Tray</b>	One tray each time. Change tray manually (standard equipped)

## Advantages of SuperBot-4



**High Throughput** SuperBot 2 is based on a high performance servo system that can program up to 1200 UPH (for devices with programming times less than 36 sec) and is suitable for both small and large capacity devices.



**High Performance Programmability** SuperBot 4 is equipped with four SuperPro 7500 high speed universal programmers, with a total of 16 sockets in the system. Utilization of ARM11 32bit MCU combined with an internal Linux operating system makes them the most advanced and versatile programmers in the industry



**LAN Operation** LAN port enables remote project loading, quality monitoring, volume control, file security. Technical departments can remote control programming operations and processes, including downloading project file, command execution, project settings, and obtain real time information to achieve production goals



**The Most Durable and Reliable Systems in the Industry** China is the hub of the world Electronics manufacturing and Xeltek automated programmers are widely installed at most major Electronic manufacturing plants with multiple installations at many locations. Xeltek automated programmers have been refined to run non-stop, withstand harsh and battle-ground like environment.



**Largest Device Support** Xeltek currently supports more than 100,200 devices, which is the largest device library in the programming industry. [Requested device algorithms](#) can be added within a week.



**Better Yield** Our semiconductor manufacturer approved algorithms, precision and clean signals guarantee high programming yield. Algorithms are performed with state machine architecture constructed with FPGA to achieve an ultrahigh programming speed. Along with the low voltage components selection, they program devices down to 1.2 volts.



**Lowest Cost Automated Programming System in Market** SuperBot automated programmers are the most affordable and high value systems in the industry. High volume and extensive production experience enables the programmers to be the most competitive in terms of quality, price, and value in the programming industry



**Powerful and Intelligent Software** User-friendly software with graphical interface cuts learning curve. Setup data saved for next operation. Software also includes resourceful log table, convenient production and quality tracking, authorization, flexible stopping strategy for bad socket or module



**Chip Size** Devices between 2x2mm to 25x25mm can be programmed. SuperBot 4 supports the SOT23 package which measures only 2x3mm



**Short change-over time** I/O devices and socket adapters are easily interchangeable and socket positioning can be performed automatically. Tape-in feeder changeover time is below 10 minutes and laser marker changeover time between tray to tape is under 15 minutes.



**Socket Cost and Investment** Cost recovery in short period with low investment in the beginning as socket adapters are universal for up to 144 pin chips



**Supports Tray-In and Tray-Out** Standard I/O device of the machine. Operator will replace the programmed tray from the SuperBot machine manually after the full tray is programmed. Customer does not need to buy any other accessory while using this option



**Compact Desktop** Design with Small Footprint SuperBot-4 has desktop design, small footprint and built-in mute vacuum pump, no external source of air is needed. Suitable for almost any customer's work environment, including office buildings



**Technical Support** Xeltek provides 17 hours of continuous support worldwide daily with excellent direct support through emails, telephone, live chat and online ticketing system