

AH-450 Specifications

Model		AH-450	AH-450B
UPH		1.8K (Programming Time < 8s)	
Repeatability	X Axis: ± 0.02mm		X Axis: ± 0.02mm
	R Axis: ± 0.067°		R Axis: ± 0.067°
	Z0~Z2 Axis: ± 0.02mm		Z0~Z2 Axis: ± 0.02mm
	Y Axis: ± 0.05mm		Y Axis: ± 0.05mm
	TZ Axis: ± 0.03mm		TZ Axis: ± 0.03mm
Operation System	X Axis: 300mm		X Axis: 300mm
	R Axis: 330°		R Axis: 330°
Max Stroke	Z0~Z2 Axis: 50mm		Z0~Z2 Axis: 50mm
	Y Axis: 550mm		Y Axis: 550mm
	TZ Axis: 65mm		TZ Axis: 65mm
IC Pick & Place		Vacuum Nozzles	
Device Detection		Vacuum Sensors	
Dimension		1160mm (W) x 700mm (D) x 1300mm (H)	1160mm (W) x 950mm (D) x 1300mm (H)
With Modules		1160mm (W) x 1550mm (D) x 1800mm (H)	1160mm (W) x 1550mm (D) x 1800mm (H)
Weight		270KG	300KG
Position	Positioning		Mechanical Offset Correction Preprocessor
	Device Size		30 x 30mm (Max)
	Built-In Programmer		Leaper-56 Universal Programmer
Program System	Programming Sites		1~24
	Pin Drive		48 Universal
	IC Type		MCU, NAND Flash, NOR Flash, SPI,EEPROM, EPROM, FPGA...
	IC Package		WLCSP, BGA, u-BGA, QFN, LQFP, MLP, SNT, WSON, TSSOP, SSOP, SOP...
	File Format		INTEL HEX, MOTOROLA HEX, TEK HEX, ASCII HEX, BINARY....
	Communication		USB 2.0
Input & Output	Tube Input		150mil, 207mil, 300mil, 330mil
	Tube Output		150mil, 207mil, 300mil, 330mil
	Tape Input		Tape Width 8, 12, 16, 24 mm
	Tape Output		Tape Width 8~32mm (Pressure self-sealing)
	Tray In/Out		No JEDEC
Control	OS		Windows XP Embedded
	Display		17" LCD
	Data Input		Keyboard/Mouse
Power	AC Input		AC 200V~245V, Single Phase 3-Cord
	Freq.		50/60Hz
	Consumption		600W
	Air Pressure		0.6MPa (~6.0kg/cm2)
	Air Flow		32L/Min.

AH-450 Series

Automated IC Programmer

Complies with SEMI S22 Safety Standard



Patent

Patent No.: M306360 in Taiwan
Patent No.: ZL2006-2-0137588.6 in China
Patent No.: 3129604 in Japan
Patent No.: US7830776B2 in the US

Automated Programming Equipment

Introduction

AH-450 Automated IC Programming Equipment follows the success of the mechatronic design of Leaptronix AH-480 Series and is greatly improved with an upgraded rotary robotic arm on which two vertical axes are equipped with specially designed nozzles at both ends for high speed & precise device pick & place. The 8 units of Leaptronix ultra speed universal programmers offer fast and stable programming process. The aim of this model is simply to provide the most cost-effective solution to device programming and lower the production costs while offering the highest efficiency.

Standard Accessories

AH-450	AH-450B
ATF-1 Pneumatic Tape Feeder.....x1	
ATM-32 Reel Packing Machine.....x1	Tray Transporter Module.....x1
ATR-1 Tape Recycler.....x1	ATR-1 Tape Recycler.....x1
USB Drive with AH-450	USB Drive with AH-450
Manual & Software.....x1	Manual & Software.....x1
LEAPER-56 Programmer.....x8	LEAPER-56 Programmer.....x8

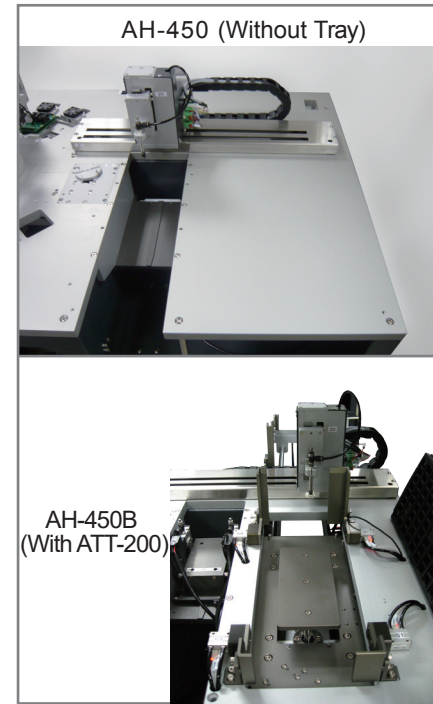
Features

- Powerful Modules**
AH-450 is specially designed for automated production programming of ICs in tube/tape/tray packing, also capable of marking, AOI and recycling. The modular design makes it flexible for operators to quickly meet the constantly variable requirements. In addition to programming, it also offers packing-changing & marking recognition as options.
- Ultra High Programming Speed**
The built-in 8 units of universal programmers come with adapters of up to 3 sockets on each, 24 sites available for simultaneously programming. This provides AH-450 with a fast and stable programming output.
- HDCP Programming Function(Optional)**
AH-450 series meets the requirements of various file formats and also offers an optional HDCP serial programming function.
- Supporting Various IC Types & Packages**
Various optional adapters are provided for IC packages such as WLCSP, LQFP, BGA, QFN, TSOP, SOP, MEMS...etc. and whatever packing they are will be supported by the tray/reel/tube modules for input/output.
- Absolute Coordinates**
Every operation site from the tiniest to the largest is based on absolute coordinates throughout the whole designing, production, and assembly process. This provides the easiest operation with little configuration requirement.
- Marking**
Marking modules capable of marking in dot, digits, and letters can be equipped for reel/tape out-put media.

Options

- Tape Feeder:**
ATF-1-XX (XX : tape width) pneumatic
ATF-2-XX (XX : tape width) electrical
- Taping Machine:**
ATM-32 (8~32mm) Automated Packer
- Tube Feeder:**
STI-3-XXX (XXX mil : IC Width)
Semi Automated Tube Feeder
- Marker:**
MK-1 Ink Marker. Available for Dot, Digit, Letter.
- Smart Vision System:**
SVS-10 Marking Recognition System
- IC Socket :**
AH-480-XXXXXX (XXXXXX : IC Package & Pins)
- Socket, Press Bar & Nozzle**
- Press Bar :**
AH-480-XXXXXX-XX*XX (IC Packages & Pins and dimension)
- IC Preprocessor :**
AH-480-XXXXXX-XX*XX (IC Packages & Pins and dimension)
- Nozzle**

※ Please contact Leaptronix representatives for correct part numbers.



Modular Design

AH-450 Series offers flexible modules for Tray, Tape, Tube input/output and also marking & AOI modules can be easily installed to meet various requirements.



Automated IC Programmer
 "AH-450 Series"