

AH-280 Specifications

Operation	U.P.H.	3K(programming time < 8s)
	Repeatability	X Axis ±0.02mm R Axis ±0.067 ° Z Axis ±0.02mm
	Max. Stroke	X axis 590mm R axis 340° Z axes 28mm
	IC Pick & Place	Vacuum Nozzles
	Device Detection	Vacuum Sensor
	Dimension(Main Unit)	1280x600x1210(W/D/H)mm
	Dimension with LED Alarm & Packing Modules	2100x600x1720(W/D/H)mm
	Weight	200kg
	Positioning	Mechanical Offset Correction
	Device Size	30 x 30mm (Max)
Position System	Built-in Programmer	Leaper-56 Universal Programmer
	Adapter No.	1~36
	PIN Driver	48 Universal
	IC Type Packages	MCU, NAND Flash, NOR Flash, SPI, EEPROM, EPROM, FPGA...
	IC Packages	WLCSP, BGA, u-BGA, QFN, LQFP, MLP, SNT, WSON, TSSOP, SSOP, SOP...
Programming System	File Format	INTEL HEX, MOTOROLA HEX, TEK HEX, ASCII HEX, BINARY...
	Communication	USB 2.0
	Tube Input	150mil, 207mil, 300mil, 330mil
	Tube Output	150mil, 207mil, 300mil, 330mil
Input Media	Tape Input	Tape Width 8~32mm
	Tape Output	Tape Width 8~32mm (Pressure self-sealing)
Control System	OS	Windows XP embed
	Display	17" LCD
	Data Input	Keyboard/Mouse
Power	AC Input	AC 200V~245V, Single Phase 3-Wire
	Frequency	50/60Hz
	Power Consumption	450W
	Air Pressure	0.6MPa (~6.0kg/cm ²)
	Air Input	32 L/Min.

AH-280
Automated Programming Equipment
Complies with SEMI S22 Safety Standard



Leaptronix®

Patent

No. M306360 in Taiwan
No. ZL2006-2-0137588.6 in China
No. 3129604 in Japan
No. US7830776 B2 in US

AH-280 Series

Introduction

AH-280 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 and two horizontal arms with four vertical axes equipped with specially designed nozzles at both ends for device pick & place. In addition, the programming system is loaded on the linear axis, which offers an even faster programming process of perfect precision. 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.

Features

Highest Cost Efficiency

AH-280 utilizes advanced mechatronic design offering a fully automated system of high efficiency and precision while remaining at a rather low cost out of any other programming equipment on the global market.

Upgraded Robotic Arms

AH-280 offers an upgraded rotary robotic arm and two horizontal arms with four vertical axes equipped with specially designed nozzles at both ends for device pick & place. The repeatability is ensured by the precise motors of each axis.

Universal IC Programmers

The built-in 6~12 units of Leaptronix ultra speed universal IC programmers provide a wide range of supported devices including MCU, Flash, Nand, SPI, EEPROM...etc.

HDSP Programming Function(Optional)

AH-280 meets the requirements of various file formats and also offers an optional HDSP serial programming function.

CCD Position Module(Optional)

CCD position modules of high pixels for faster coordinates adjusting come as an option.

Supporting Various IC Packages

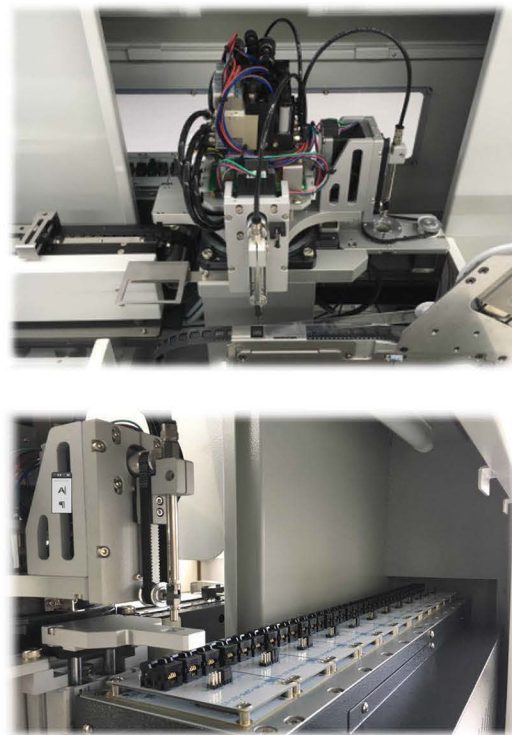
Various optional adapters are provided for IC packages such as WLCSP, LQFP, BGA, QFN, TSOP, SOP...etc.

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.



Standard Accessories

- AH-280 Main Unit.....X1
- ATF-2 Electrical Reel Feeder.....X1
- ATM-32 Reel Packing Machine.....X1
- ATR-1 Recycler.....X1
- Leaper-56 Universal Programmer.....X6
- USB Drive with manual & software.....X1

Optional Accessories

Please contact Leaptronix sale representatives for correct part numbers of optional accessories.

Tape Feeder

ATF-1-XX (XX: Tape Width) pneumatic tape feeder.
ATF-2-XX (XX: Tape Width) electric tape feeder.

Tube Feeder

STI-3-XXX (XXX mil: IC Width) semi-automatic tube feeder.

Marker

MK-2 Ink Marking Module for dot, digit, and letter.

Smart Vision System

SVS-10 Mark Recognition Module for recognizing normal and polarity marks.

IC Socket

AH-280-XXXXXX (XXXXXX: IC package, pins, body size.)

Press Bar

AH-280-XXXXXX-XX*XX (IC package, pins, body size.)

IC Preprocessor

AH-480-XXXXXX-XX*XX (IC package, pins, body size.)

Nozzle

Modules



ATM-32
Taping Machine

ATF-1
Reel Feeder

STO-3-xxxkit
Tube Unloader

STI-3-xxxkit
Tube Loader

SVS-10
Smart Vision System

MK-2
Automatic Marking Module

AH-280 Series

Automated IC Programming Equipment