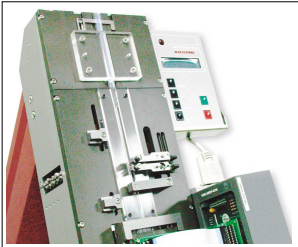


AUTOTUBE-100 Auto Programmer

A stand-alone, high performance auto programmer for ICs in tube

Introduction



■ Easy operate Control Box

AUTOTUBE-100 is a compact, stand-alone auto programmer equipped with a high speed PRO-201 programmer designed for tube IC programming.

AUTOTUBE-100 is easy to operate. IC tube is loaded on top of handler. Parts fall through singulator down to contact site for programming and then sorted to OK/NG tube per programming result.

Powerful software provides automatic quantity control and automatic setup data / programming result storage which make production lots easy to be controlled.

AUTOTUBE-100 is ideal for mass production of tube IC programming not only increasing throughput but also reducing human handling error/damage thus improve programming quality and yield.

Most of tube ICs in DIP, SDIP, SOP, SSOP, PLCC or MLF package can be programmed with appropriate model of AUTOTUBE-100 .

Key features

Stand-alone - Handler is designed to mount with a compact size programmer PRO-201. Only needs power and air to make it work.

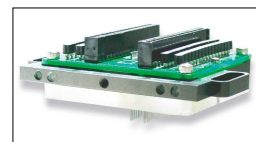
Ideal for small package operation - Capable to handle small package size / narrow lead pitch which is difficult to be handled by manual.

Wide IC packages coverage - Dedicate hardware to support various ICs packed in tube such as DIP, SDIP, SOP, SSOP, PLCC and MLF...etc.

High throughput - 4500 UPH @ zero programming time. 0.8sec/unit handler index time.

High performance - Automatic IC handling prevents human handling error such as parts mixing, ESD damage, bend lead thus improve both product quality and programming yield.

Excellent contact assembly - Enhanced contact assembly provides accurate positioning, good contact, low jam rate and easy alignment.



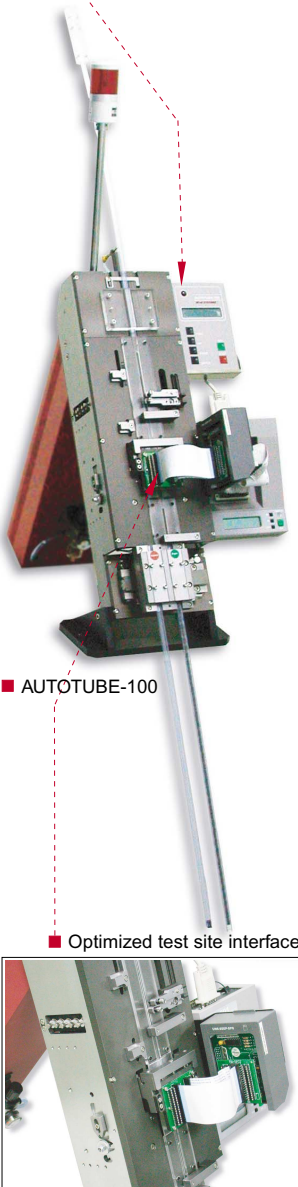
Precise Contact Assembly

Automatic quantity control - Total units to be programmed and units per tube are software controlled and user defined.

Automatic datalog - Both setup data and test result are automatically saved for next power-on operation as well as for quantity / yield traceability.

Easy Maintenance - Module design allows easy maintenance, repair and replacement.

Compact size - Only 320mm(W) x 450mm(D) x 525mm(H) in dimension. Provide optimized production space.



■ AUTOTUBE-100

■ Optimized test site interface

Specification

■ Motion

Cylinder : SMC-CJ1B4-5, SMC-CJ1B4-5U4, SMC-CDUK6-5D.
SMC-CQ2B-12-5, NOK-PPT-SD10-10, NOK-PPTS-SD16-30.

■ Programming

Resident Programmer : PRO-201.
Programming site : Single site using PACK of PRO series.
Applicable packages : DIP, SDIP, SOP, SSOP, PLCC, MLF.
Input/Output : Tube to tube. (1 input tube, 2 output tube).
Output categories : 2. OK(pass) & NG(fail).
Contact mechanism : Probe with pogo pins.

■ Productivity

Throughput : Selectable 4500/3300/2600 UPH @ zero programming time.
Index time : Selectable 0.8/1.1/1.4 sec/unit @ zero programming time.
Jam rate : < 1/2000.

■ Control

Built - In Controller : Single chip control.
Display : 2 x 16 LCD.

■ Power

AC voltage : 100 ~245V / 50~60Hz.
Power consumption : 0.8A max using 110V.
Internal DC voltage : 5V, 24V.

■ Air

Air pressure : 5 bar (0.5 MPa).
Air consumption : 0.8 Lt/min.
Hose input aperture : 6.0 mm diameter.

■ Dimension

W x D x H : 320mm x 450mm x 525mm. (H:800 with tower light installed)

■ Weight

~15 kg

Ordering Information

Note: Only one customer pre-selected PACK & TOP pair could be installed with appropriate models below.

AUTOTUBE-100-DP300 (for DIP 300 mil)	AUTOTUBE-100-SS150 (for SSOP 150 mil)
AUTOTUBE-100-DP600 (for DIP 600 mil)	AUTOTUBE-100-SS170 (for SSOP 170 mil)
AUTOTUBE-100-SD600 (for SDIP 600 mil)	AUTOTUBE-100-SS209 (for SSOP 209 mil)
AUTOTUBE-100-SO150 (for SOP 150 mil)	AUTOTUBE-100-SS300 (for SSOP 300 mil)
AUTOTUBE-100-SO170 (for SOP 170 mil)	AUTOTUBE-100-MLF28 (for MLF 28 pin)
AUTOTUBE-100-SO209 (for SOP 209 mil)	AUTOTUBE-100-PL32 (for PLCC 32 pin)
AUTOTUBE-100-SO300 (for SOP 300 mil)	AUTOTUBE-100-PL44 (for PLCC 44 pin)