ALMAX

AutoLoading In-Circuit Test System

High precision & high rigidity

ALMAX-2000 in-line type in-circuit tester is developed to achieve a highly precision probing with test fixture. The press unit is set at a minimum extent and two cylinders are used so as to achieve an equal pressurized condition. Moreover high rigidity are given to various parts which includes the base, conveyor section and the measurement section, in order to schieve the highly precision probing condition.




Focus-280 built-in high reliability

Limit Free

Unlimited steps can be created in the test program. Furthermore, ALMAX-2000 can increase the number of measuring nodes up to 8000 with optional expansion unit.

Speed up

With the advent of the PC testing digitally, the signal exchange speed are extremely improved. In addition, the ability to multitask with advance PC's allows

Expansion

The ALMAX-2000 adapted with Windows and IBM compatible PC's allows it to be expanded with other accessories and software. With many statistical control software packages in the market, expansion possibilities are endless.

Easy operation

The tester uses menu driven screens throught the whole process. The operator can analyze the data easily. ALMAX-2000 can be set-up with passwords to prvent unauthorised editing of important testing data.

C-MOS switch

Using advance semi-conductor switches for its switching boards, the ALMAX-2000 does not add stress to the unit under test. By not using a reed relays in testing allows for a greater life span and maintenance free operation.

Self Diagnostic

The ALMAX-2000 performs self diagnostic check preventing misjudgement and inaccurate measurement.

Guarding

The ALMAX-2000 can select up to a maximum of 5 guarding points. Guarding allows measured parts to be separated from the circuit., therefore measurement can be measured accurately.

Overseas support

Subsidiaries and agents are supported in China, Malaysia, Vietnam, Philippines, IIndonesia, America etc.

Kyoritsu

ALMAX-2000 Specifications

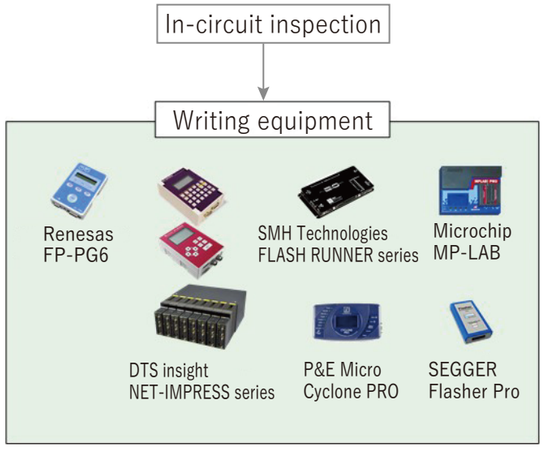
Direction of PCB transfer	left→right/right←left
Height of PCB transfer	880mm to 960mm from the floor
Rail for PCB transfer	Front fixed (Option: Rear fixed)
Power supply voltage	AC100V (Option: AC 100 to 240V)
Required air pressure	0.5MPa (clean dry air)
Power supply connection plug	Supply connection with a 3P ground (cable length:3m)
Air pressure connection coupler	One touch coupler connection
Fixing method	Adjuster foot
PCB size	250mm×330mm MAX 50mm×50mm MIN
PCB shape	Parallel edge
Mounted component height	Component side 70mm, Solder side 20mm
PCB warpage	Max 1mm
PCB transfer area	3mm from edge of PCB
PCB alignment method	Guide pin method (2 or 3 fixed guide pins)
PCB alignment hole	Guide hole to be 5mm from edge of PCB with hole size Φ2 to Φ4 mm
PCB transfer speed	420mm/Sec - 30% max
Operating ambient temperature	15°C to 35°C
Operating ambient humidity	20% to 70% (No condensation)
Safey cover and interlock	Anti-static material, 2 interlock/door
Rail width adjustment	Manual (Option: Auto)
Operation indicator lamps	3 color tower light
System external dimensions	854(W) × 730(L) × 1870(H)
System weight	300Kg
Tester model	Focus-280
Test point	Std 2 Pcs 256 Pin (128Pin/board)
Fixture style	Top side pressing method
Probing direction	Shared (Double side or single side bottom)
Control method	PC control
Personal computer	OS: Windows 11
Monitor	17 Color TFT Monitor
Monitor display	Japanese/English/Chinese
PCB transfer method	Timing belt method
Emergency shutdown switch	Red, mushroom-style lock type

Test Point	256Pins Std. to 2048Pins Max. 128Pins each board Expanded MPX Board (8,000 Pins axailable for custom Option)
Test Step	No ,imit by Operation System Software
Test Specification	
Short/Open Test	All Pins between the start to end tested
Component Test	
Resisters:	1.0Ω to 40MΩ (Option: Kelvin Test 0.01Ω to 40MΩ resolution 0.001Ω)
Capacitor:	10.0pF to 25mF
Inductor:	10μH to 20H
Transistor:	Measure Vce (VF=0.01V to 2.00V)
Diode:	Measure Vce (Vce=0.001V to 4.094V)
Photo-coupler:	Measure Output ON/OFF
Limit Current:	10mA(MAX 20mA)
Biased Voltage:	0.01V to 9.99V
Jumper Wires:	Threhold = 5Ω, 20Ω, 80Ω
Guarding Pins:	5 Points per step. Maximum Current. 20mA
Test time:	S/O Test = 2ms/Pin, Component Test = 1.5ms ～

Option

1. Barcode Reader
   (1) Interface: USB, TCP/IP
   (2) CODE: CODE39, QR
2. Database Server (SQL)
3. Other Function test boards
4. Four point Kelvin measurement
5. Loarder / Unloader
6. NG Stocker & other In-line Equipment
7. QR Buffer Convair
8. Flash/ROM Writing (Programming)
9. Ionizer
10. One-Touch Receiver
11. Valuable PCB Transfer Speed
12. Auto Carriage Width Adjusta

ALMAX+ROM Writing System



Software control of the below equipment is available.

1. Renesas FP-PG5/6
2. DTS insight NET-IMPRESS series
3. SMH Technologies FLASH RUNNER series
4. P&E Micro CyclonePRO series
5. Microchip MP-LAB
6. SEGGER Flashee Pro series