

Auto Capacitor Element Test System

Model - ACTS-3050



KOTI SYSTEM'S

Auto Capacitor Element Test System, Model - ACTS-3050

Auto Capacitor Element Test System, Model ACTS-3050 is designed to test the metal sprayed AC capacitor elements from 30mm to 50 length of diameter 16 mm to 35mm with auto feeding. Testing elements is to be loaded to the hopper bowl, conveyer system brings elements near to the feeding point of the linear conveyor, and elements are fed to the test jig by pneumatically. The test jig takes the element to different testing points and segregates good and rejected capacitors to different bins.

Highlights

- Horizontal linear conveyor with elements holding fixture.
- Hopper & conveyer mechanism for elements feeding.
- Fast productive with production rate is 2400 components/hour.
- Easy and less setting time for change in element size.

Technical Specification

System Structure:

28 stations element holders with individual Electrical contacts on linear conveyor. Hopper feeder with belt conveyer for capacitor element feeding, AC power supply for major short clearing. DC power supply with Multy level Voltage for self-healing process. High voltage, AC power supply. Capacitance and Dissipation factor meter for value and Dissipation factor measuring.

System functions:

AC high current low voltage short clearing, DC short clearing, and AC High voltage test, Measurement of Capacitance and dissipation factor test.

AC Short clearing Source: 25&50V ac, 15Amps with Short-circuit protection.

DC Clearing Source: up to2000V in three stages.

AC HT source: up to 900V variable with resonant clearing, Suitable for maximum 20Mfd.

Capacitance Meter & Dissipation factor meter : Tonghui make

Test station description:

1. Element insertion.
2. AC low voltage, High current clearing Process 1
3. AC low voltage, High current clearing Process 2
4. DC Voltage clearing stage 1
5. DC Voltage clearing stage 2
6. DC Voltage clearing stage 3
7. DC Voltage clearing stage 4
8. DC Voltage clearing stage 5
9. DC Voltage clearing stage 6
10. DC Voltage clearing stage 7
11. Discharge through resistor
12. Direct Discharge
13. No function
14. No function
15. AC High voltage up to 900v test.
16. Discharge through resistor
17. Direct Discharge
18. Direct Discharge
19. Loss factor and Capacitance measurement
20. Good element ejection.
21. No function
22. High value component ejection
23. No function
24. Low value component ejection
25. Reject / Untested component ejection
26. Reject / Untested component ejection
27. No function
28. No function

Testing Capacitor Element specification

Length: 30 - 50mm
Diameter: Ø16 – Ø35 mm auto feeding
Value: 2.5Mfd- 20Mfd
** Diameter & length ratio: 2:3

Production: 2400 pieces/ hours.

Power requirements

For controls:	1ph, 230V±10V, 50Hz, 2 kw (stabilized power should be supplied)
For AC HT source:	2ph, 415V±5% 50 Hz, and 3kw
Compressed Air:	Consumption 6Cfm at 6 bar level.

Note: - Dry and filtered air must be supplied.

Machine dimension

Length:	2.5 mtrs
Width:	2 mtrs
Height:	1.8 mtrs

Working area requirements

Length:	6.0 mtrs
Width:	3.0 mtrs
Height:	2.5 mtrs

Must be dust free and well maintained cleanliness room is required.