

Automatic Capacitor Element Test System

Model - ACTS - 100



Auto Capacitor Element Test System, Model ACTS-100 is designed to test the metal sprayed AC capacitor elements from 30mm to 100 length of diameter 16 mm to 50mm with auto feeding and above $\text{Ø}50\text{mm}$ and up to $\text{Ø}70\text{mm}$ with manual feeding on to conveyer. Testing elements is to be loaded to the Vibrator bowl, conveyer system brings elements near to Pneumatic robot, which picks and place the elements to the test jig. The test jig takes the element to different testing points and segregates good and rejected capacitors to different bins.

Highlights

- ✓ Horizontal rotary indexing Jig for elements holding.
- ✓ Vibrator & conveyer mechanism for elements feeding.
- ✓ Fast productive.
- ✓ Easy and less setting time for change in element size.

Technical specification

System structure:	12 stations element holders with individual Electrical contacts. Vibrator feeder with belt conveyer for capacitor element feeding, AC power supply for major shorts 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. Data acquisition and reporting optional.
AC Short clearing Source:	100V ac, 10Amps with Short-circuit protection.
DC Clearing Source:	up to 2000V in three stages.
AC HT source:	up to 900V variable with resonant clearing Suitable for maximum 100 Mfd.
Capacitance Meter & Dissipation factor meter	Tongui chaina make.

Test station description:

- | | |
|---|--|
| 1. Element insertion. | 7. AC High voltage up to 900v test. |
| 2. AC low voltage, High current clearing Process. | 8. Discharge through resistor |
| 3. DC Voltage clearing stage 1 | 9. Discharge direct |
| 4. DC Voltage clearing stage 2 | 10. Loss factor and Capacitance measurement
And good elements ejection. |
| 5. DC Voltage clearing stage 3 | 11. High - Low value element ejection |
| 6. Discharge through resistor | 12. All rejected / any rejected element ejection |

Testing Capacitor Element specification

Length:	30 - 100mm
Diameter:	Ø16 – Ø50 mm auto feeding Ø50+ -Ø70 mm manual feeding on to conveyer
Value:	2.5Mfd-100 Mfd
**Diameter & length ratio:	2:3

Power requirements:

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

Note: - Dry and filtered air must be supplied.

Machine dimension

Working area requirements

Length	3.5 mtrs	Length	6.0 mtrs
Width	1.75 mtrs	Width	3.0 mtrs
Height	1.8 mtrs	Height	2.5 mtrs

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