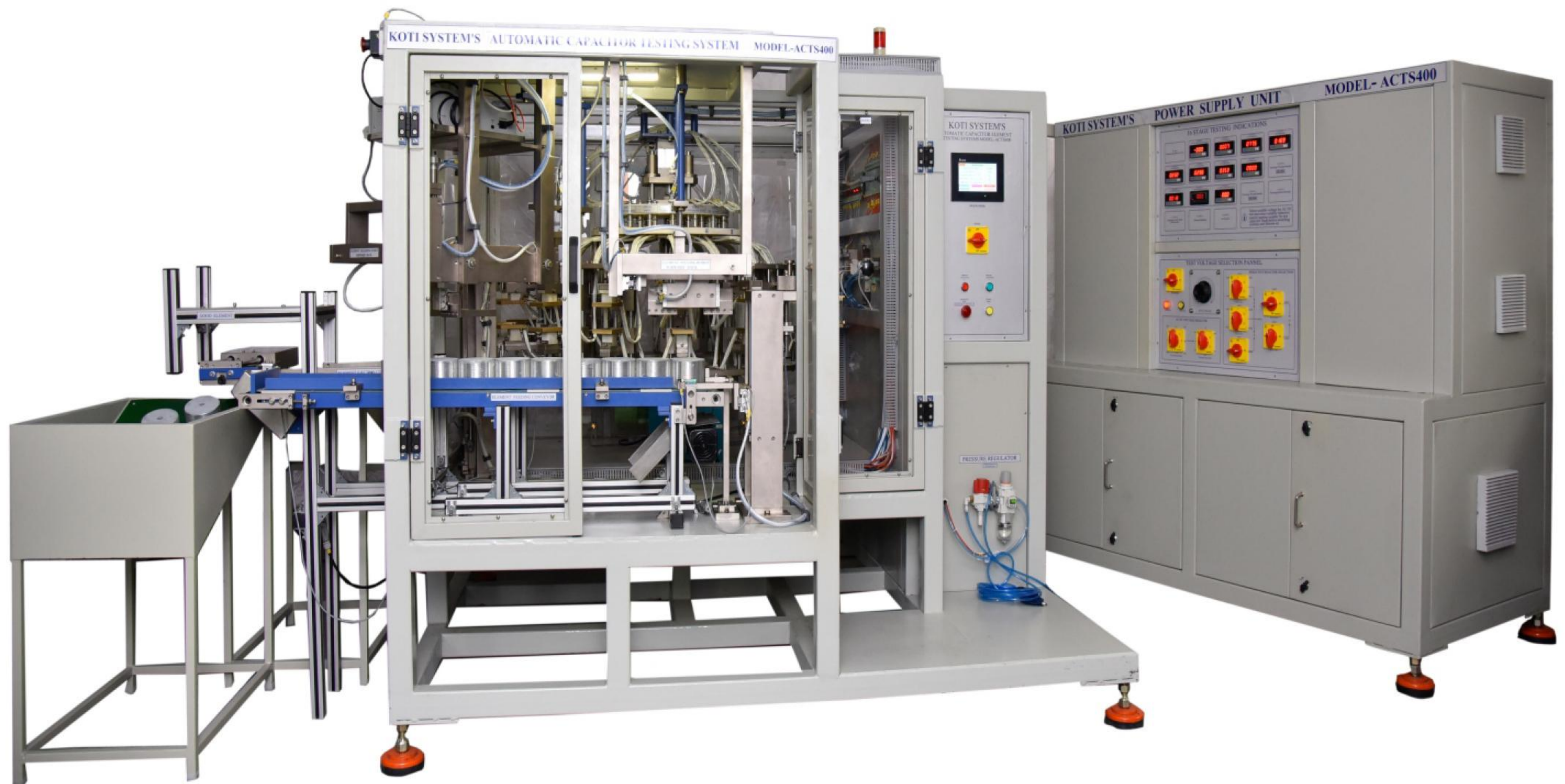


Automatic Capacitor Element Test System

Model - ACTS - 150D - 400MFD



Technical specification

System structure: 16 stations element holders with individual Electrical contacts. Manual arrangement of elements on conveyor, Robot picks the element from conveyor and placing on to the test jig. AC power supply for major shorts clearing. DC power supply with multi level Voltage for self-healing process. High voltage, AC power supply. Capacitance and Dissipation factor meter for value and Dissipation factor measuring. Element unloading robot.

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:: 100V ac, 20Amps with Short-circuit protection.

DC Clearing Source: up to 4500V in three stages. 100mA source current

- | | |
|--------------------|--------------------|
| 1. Stage 1-700VDC | 5. Stage 5-3500VDC |
| 2. Stage 2-1400VDC | 6. Stage 6-4200VDC |
| 3. Stage 3-2100VDC | 7. Stage 7-4200VDC |
| 4. Stage 4-2800VDC | |

AC HT source: up to 1050V switch selectable
 Rotary Switch 1-25v x 8 steps and
 Rotary Switch 2-200V x 5 steps
 With balancing reactor in parallel
 Inductive reactance selection for resonant clearing.
 Rotary switch 1-3Mfd X 6 steps
 Rotary switch 2-20Mfd X 4 steps
 Rotary switch 3-100Mfd
 Rotary switch 4-100Mfd
 Rotary switch 5-100Mfd
 Suitable for maximum 400 Mfd.max

Capacitance Meter &: Tonghui make
 Dissipation factor meter

Test station description:

- Station 1. Element loading with pick and place robot
- Station 2. AC low voltage, High current clearing Process.
- Station 3. DC Voltage clearing stage 1
- Station 4. DC Voltage clearing stage 2
- Station 5. DC Voltage clearing stage 3
- Station 6. DC Voltage clearing stage 4
- Station 7. DC Voltage clearing stage 5
- Station 8. DC Voltage clearing stage 6
- Station 9. DC Voltage clearing stage 7
- Station 10. Discharge through resistor
- Station 11. AC High voltage up to 1000v test. Switch
- Station 12. Discharge through resistor
- Station 13. Discharge direct
- Station 14. Value and tan-d measurement
- Station 15. Unloading by pick and place robot on to conveyor with segregation of good component and reject component.
- Station 16. No function.

Testing Capacitor Element specification

Length: 38 - 110mm
 Diameter: Ø60 – Ø150 mm
 Value: 60 Mfd-400 Mfd
 Production: 8-12sec cycle time.

Power Requirements:

For controls: 1ph, 230V±10V, 50Hz, 2kw(stabilized power should be supplied)
 For Power supply panel 2ph, 415V±5% 50 Hz, and 25Amps

Compressed Air:

Consumption 10Cfm at 6 bar level.
 Air input pipe connection , 10mm OD PU pipe

Note: - Dry and filtered air must be supplied.