

FINISHED CAPACITOR TESTING SYSTEM MODEL FCTS – 4S 10



FEATURES

- Tests up to 4 capacitors simultaneously for capacitance values up to 10 μF , increasing testing productivity.
- Supports single capacitor testing for capacitance values ranging from 11 μF to 40 μF .
- High-speed testing with a cycle time of approximately 2 seconds per capacitor.
- Even though the cycle time is 2 sec/element, We can apply AC high voltage from 2.5 sec – 8 sec without effecting the cycle time.
- Capacitors with AC High voltage and LCR test failures can be rejected individually without affecting the other capacitors.
- 4-station rotary indexing system for efficient and continuous operation.
- AC high-voltage testing up to 1000 V with adjustable output.
- Integrated LCR measurement for accurate electrical parameter testing.
- Automatic Good/Reject sorting for enhanced quality control.
- Supports U-Type, L-Type, and Wire-Type capacitors.
- User-friendly HMI for easy operation and parameter setting.
- Reliable Kelvin contact system for stable and repeatable measurements.
- Rugged industrial design for long-term, dependable performance.s

TECHNICAL SPECIFICATION

Basic Unit	<u>The basic unit includes:</u> Rotary indexing table with 4 stations, capacitor clamping Brass contact jaws, Control panel with CR 2015 measuring instrument and touch panel, Good and reject bin.
Testing Components	Component with 'U' type, 'L' type & wire type terminal.
Capacitor Length	50mm (U & L Type), 150mm (Wire Type including wire)
Capacitor Diameter	Up to 80mm (U, L & Wire Type)
Capacitance Range	1 - 10mfd - 4 jig Loading. 11 - 40mfd - single jig Loading.
Testing Station Specification	
Station 1	Component Loading 1 – 4 / Cap Sense.
Station 2	AC High voltage up to 1000V (Continuously adjustable through variac) & Discharge through resistance.
Station 3	LCR Measurement & Good Component Ejection.
Station 4	Retest Components Ejection.
Indexing Type	Cam indexing Type Rotary indexing driven by AC Motor controlled by AC drive
Loading of component	Manual
Contact pins	Spring loaded pins/4 terminal Kelvin.
Component clamping	Brass jaws
AC Testing Equipment	AC Resonance power source
Measuring Equipment	CR 2015 measuring instrument.
Measuring Accuracy	0.1%

GENERAL SPECIFICATION

Floor space : 1360mm x 1250mm x 1750mm (L x W x H)
 Machine weight : 800 Kgs (Approx.).
 Power supply : 230V AC, 50Hz, 1 Phase, 4 Kw (Nominal).

NOTE: Designed for high-precision testing of finished capacitors with reliable performance, user-friendly operation, and consistent quality assurance