



e-IsoTech™ Man

SemiAutomatic machine for Dielectric Strength test and Insulation Resistance test for EV car's components

e-IsoTech™ is a machine designed for the mass production safety test of automotive components installed on hybrid and electric cars.

e-IsoTech™ is a compact end easy solution, that allows an integration into a production line with manual loading and unloading of the products.

MAIN FEATURES:

- Built-in MQTT 5.0 client for Industry 4.0 conformance
- Quick and precise measurement of insulation resistance, dielectric strength and micro discharges
- Check spring probe connection to ensure the real measure of insulation resistance
- High Voltage Matrix to perform separate test between different points of the product under test
- Fast discharge of the product at the end of the test
- Real time graphs during the measures
- Interchangeable fixture to retool the station for different products
- Database for traceability

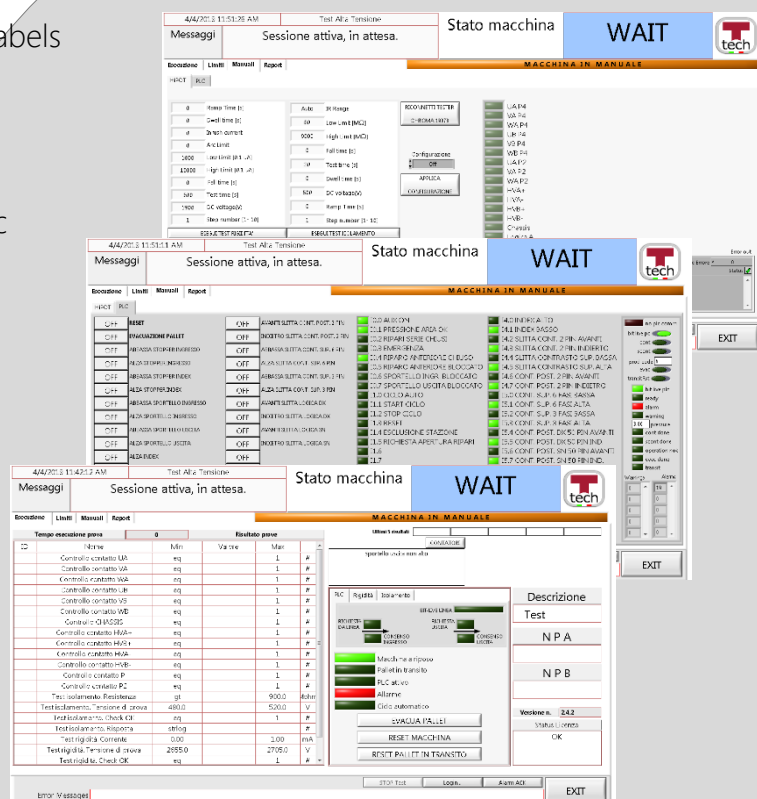


TECHNICAL SPECIFICATIONS

Specification	Details	Notes
Dielectric Strength	Output Voltage Voltage Accuracy and resolution Current Cut Off Current Accuracy and resolution Frequency	AC : 0.1 ~ 5kV and DC : 0.1 ~ 6kV 1% + 5 counts, 2V AC : 0.1~20 mA, DC : 0.01~5 mA 1.5% + 5 counts, AC : 1μA, DC : 0.1μA 50/60 Hz
Insulation Resistance	Output Voltage Voltage Accuracy and resolution Range of measurement Resistance Accuracy	DC : 50 ~ 1000V 5% + 5 counts, 2V 0.1MΩ -50GΩ ≥ 500V : 1MΩ -1000MΩ±(4% + 5 counts) 1GΩ -10GΩ ± (7% + 5 counts) 10GΩ-50GΩ ± (12% + 5 counts) < 500V : 0.1MΩ -1000MΩ ± (10% + 5 counts)
Micro Discharge (Arc Detection)	Detection Current Minimum Pulse Width	AC : 1mA ~ 15mA, DC : 1mA ~ 5mA 10 μs
Dimensions	WxHxD : 600 x 2000 x 1000 mm	Weight: 200 Kg

SOFTWARE FEATURES

- Applicative software with easy user interface displaying test sequence with limits and measured values, pass-fail indication for each step with different background color
- Manual operation panel and test sequence editor under password
- Multi-language interface, with user editable labels and messages
- Customizable test sequence to perform different tests configurations
- Test time programmable from 0.1 s to 999 sec
- Auto test of the instrument that performs the measurements of insulation and strength
- Test Report saved for each part
- Database for Traceability (MySQL Database; Tool for Statistic Analysis)



APPLICATIONS

- Mass production of Electric Vehicles components, Battery management system (BMS), Electric Motor, HV Battery Junction Box (eBOX), Coils of actuators for Automatic Gearbox

CONFIGURATIONS AND OPTIONS

Product Code	Description
e-IsoTech-M	Semiautomatic machine for Strength test and Insulation test for hybrid EV car's components
e-IsoTech-MM	Semiautomatic machine for Strength test and Insulation test for hybrid EV car's components with High Voltage matrix