4.0 BOARD & SYSTEMS TESTER

- FLYING PROBE & IN-CIRCUIT ADVANCED, SCALABLE SOLUTIONS. FLS980Dxi, "THE ULTIMATE PROBING MACHINE" IS A FULL FUNCTION DOUBLE SIDED SYSTEM WITH UP-TO 22 CLOSED LOOP FLYING PROBES FEATURING ±0.1 MICRON RESOLUTION, PROGRAMMABLE ANGLE +6º TO -6º DEGREES, ELECTRICAL TEST CAPABILITIES INCLUDING ANALOG UP TO GHZ, DIGITAL, MIXED SIGNAL, BOUNDARY SCAN, OPTICAL, THERMAL INSPECTION, REVERSE ENGINEERING.

- ATS FOR BATTERY, HIGH CAPACITANCE CAPACITORS, SOLAR CELLS, INVERTERS, BATTERY CHARGERS, LED & LED POWER SUPPLIES, TRANSFORMERS.

- BOARD DFT & TEST COVERAGE ANALYSER, TEST COVERAGE ESTIMATION AND COVERAGE MEASUREMENT. QUALITY & ELECTRONIC ASSEMBLY REPAIR MANAGEMENT SYSTEM.

- ATE FOR TESTING, TROUBLESHOOTING, REPAIR OF PCBs, FOR MIL-AERO, TRANSPORTATION, SUPPORT 6MAINTENANCE OF ELECTRONIC EQUIPMENT FOR MISSION CRITICAL APPLICATIONS. DUPLICATION OF OBSOLETE ELECTRONIC BOARDS, TO EXTEND THE LIFETIME OF THE EQUIPMENTS IN OPERATION.

- TOOLS FOR IN-SYSTEM PROGRAMMING OF FLASH & PROGRAMMABLE LOGICS; BOARD & SYSTEMS TESTS, INTEGRATION WITH MAJOR ATE MANUFACTURES; SYSTEM DEBUG, PCB PROTOTYPE VERIFICATION, PRODUCTION, MAINTENANCE. "AT SPEED TEST" VIA FPGA µP.

- AOI ATE FOR SMT, DIP, LED, TOUCH PANEL. FIRST ARTICLE INSPECTION (FAI) AOI PLUS AUTOMATIC PROBING RC MEASUREMENTS UP TO 01005 (IMPERIAL).

- FASTEST ICT FUNCTIONAL PLATFORMS TO ENSURE RELIABLE HIGH-QUALITY, HIGH-VOLUME TESTING FOR THE LATEST PCBA NEEDS IN AUTOMOTIVE, INDUSTRIAL, COMPUTING, CONSUMER, COMMUNICATIONS, MIL. STRUCTURAL & FUNCTIONAL TEST COVER MANUFACTURING, COMPONENT, PROCESS, PERFORMANCE DEFECTS FOR ANALOG, DIGITAL, MIXED-SIGNAL DEVICES. TESTSTATION DUO, MULTI-SITE, HIGH PIN COUNT, IN/OFFLINE.

- TEST SYSTEMS FOR QUALITY ASSURANCE IN ELECTRONICS PRODUCTION, TO IMPROVE CUSTOMER'S PRODUCT QUALITY. NEW METHODS TO MAKE TESTABLE THAT WHICH SEEMS TO BE UNTESTABLE. INNOVATIVE FLYING PROBERS, IN-CIRCUIT TESTER OF THE VERY LATEST GENERATION, ADVANCED SMART SOFTWARE.

4.0 PRODUCTION

- FAST AND RELIABLE DEVICE PROGRAMMING SOLUTIONS ADDRESSED TO REQUIREMENTS OF ENGINEERING AND MANUFACTURING. IN-LINE, OFF-LINE, IN-SYSTEM MANUAL AND AUTOMATED FROM LAB TO PRODUCTION.

- FULLY / SEMI-AUTOMATIC PCBA IN-LINE & STANDALONE ROUTERS, ODD FORM COMPONENT PICK&PLACE, FLEX-CIRCUIT DEPANELING SYSTEMS. FAST, COST-EFFECTIVE, PROVIDING ACCURATE BOARD EXTRACTION. LOW COST HIGH SPEED IN-LINE LABEL PLACER.

- ADVANCED SOLDERING TECHNOLOGY FOR AUTOMATION & HAND-OPERATED: SELECTIVE & DESKTOP SOLDERING ROBOT, AUTOMATED OR HAND-OPERATED LASER SYSTEMS, NITROGEN GENERATORS, SOLDER BATH, FUME EXTRACTOR.

- CLIMATIC CHAMBER, THERMOSTATIC CHAMBERS, CRYOGENIC CHAMBERS, OVENS, CONVEYOR OVENS, VACUUM OVENS, VACUUM DRYERS FOR GLOVE BOX.

- AUTOMATION, QUALITY ASSURANCE, HANDLING SOLUTIONS, DRY CABINETS, BAKING DRY CABINETS, TROLLEYS, VACUUM SEALERS, ESD TOOLS AND ACCESSORIES. ESD TEST SYSTEMS, DATA ACQUISITION TESTERS.

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- AT5 FOR BATTERY, HIGH CAPACITANCE CAPACITORS, SOLAR CELLS, INVERTERS, BATTERY CHARGERS, LED & LED POWER SUPPLIES, TRANSFORMERS.

- BOARD DFT & TEST COVERAGE ANALYSER, TEST COVERAGE ESTIMATION AND COVERAGE MEASUREMENT. QUALITY & ELECTRONIC ASSEMBLY REPAIR MANAGEMENT SYSTEM.

- ATE FOR TESTING, TROUBLESHOOTING, REPAIR OF PCBs, FOR MIL-AERO, TRANSPORTATION, SUPPORT 6MAINTENANCE OF ELECTRONIC EQUIPMENT FOR MISSION CRITICAL APPLICATIONS. DUPLICATION OF OBSOLETE ELECTRONIC BOARDS, TO EXTEND THE LIFETIME OF THE EQUIPMENTS IN OPERATION.

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- HIGH ACCURACY, TIME SYNCHRONIZED DAQ’S FOR STRAIN GAUGES, THERMOCOUPLES, THERMO RESISTANCES, VOLTAGES, CURRENTS.

- ISOLATION AMPLIFIERS, TRANSMITTERS, MODULES, INDICATORS, PROCESS ANALYTICS, LAB PRODUCTS, PORTABLES, SENSORS, ACCESSORIES.

- COMPLETE SOLUTIONS FOR NOISE & VIBRATION MEASUREMENT, ANALYSIS & REPORTING, CONTINUOUS DAQ, SIGNAL ANALYSIS, PROCESS MONITORING.

- MEASUREMENT MODULES FOR ELECTRIC AND HYBRID VEHICLES GALLVANICAL ISOLATION UP TO 1500V DC. HIGH VOLTAGE PROBES, PROBES FOR HIGH VOLTAGE MEASUREMENT MODULES, LOW VOLTAGE MODULES. MEASUREMENT MODULES FOR 12, 24 AND 48 VOLT VEHICLES.

- HIGH-PRECISION MEASUREMENT & CONTROL SYSTEMS, WITH FAIL-SAFE OPERATION, EXCELLENT RESISTANCE TO THERMAL AND EMC INFLUENCES. ROBUST DESIGN FOR OPERATION IN DEMANDING ENVIRONMENTS. MTBF OF MORE THAN 20 YEARS.
### HMI

HMI systems for rugged military/industrial applications, flat panel displays, keyboards, trackballs, keyboard/trackball combination, control display units, integrated switch panels, bezels.

### T&M INSTRUMENTATION

- **AARONIA AG**
  - RF spectrum analyzers up to 9.4 GHz, PDAs, USB, outdoor and military antennas and EMC pre-compliance, near field probes, EMF shielding.

- **Chroma**
  - Hipot testers, wound and transformer testers, Capacitance Meters, LCR Meters, DMM, High accuracy thermal/multifunction datalogger, SMM PXI modules.

- **GMC INSTRUMENTS**
  - Measuring systems, instruments for testing of electrical medical equipments, calibrators, energy analyzers, testing regulations DIN VDE 0701/0702, high voltage insulation measurements.

- **Honeywell Inertial Sensors**
  - Space, inertial, tactical, industrial grade accelerometers, thermal switches, gyro, IMU (Inertial Measuring Unit).

- **KEYSIGHT Technologies**
  - HH DMM, clamp meters, portable LCR Meters, scope meters, True IR Thermal Imagers.

- **North Atlantic Instruments**
  - Bench and VXI, Programmable Synchro/resolver standard and simulator, Synchro/Resolver angle position indicator, Precision phase meter, Arinc or RS232 to Synchro converter.

- **RIGOL Authorized Reseller**
  - T & M line includes digital scopes, mixed signal, with integrated generator, RF spectrum analyzers, function generators arbitrary, RF, multimeters, power supplies, loads, DAQ systems. [www.shopalldata.it](http://www.shopalldata.it), [www.rigolitalia.it](http://www.rigolitalia.it)

- **Twintex**
  - Oscilloscopes, function generators, DC power supply, basic test & measurement instruments and laboratory professional instruments.

- **redpitaya**
  - STEMlab board, unique replacement for T&M and DAQ instruments, powerful open development platform; network for simple connectivity and quick accessibility. GUIs of scope, signal generator and other applications. Open source code to easily access a wide range of technologies & knowledge (from JavaScript to FPGA) and customize the boards. [www.shopalldata.it](http://www.shopalldata.it)

- **TEKBOX Instruments**
  - EMC pre-compliance test LIsn instruments, EMC probe kit set, near field CISPR25, LiSn, TEM Cells; LiSn 240V, RF power amplifiers, ESD tools. Environmental sensors & DAQ. [www.shopalldata.it](http://www.shopalldata.it)

- **GW Instek**
  - Modular matrix, multiplexers, scanners, digital multimeters, A/D and D/A converters, high speed digitizers, arbitrary sources, digital I/O, time interval, communication, mainframes, instruments in LXI, PXI e, PXI, VXI, VME.

- **Anritsu**
  - Anritsu’s test and measurement equipment offers for the optical communications industry such as OTDR, loss test set and optical return loss. Also provides a wide range of industry-leading signal/spectrum analyzers that provide coverage from 50 kHz to 170 GHz, with optional coverage to 325 GHz with an external mixing solution.

- **GUIDLINE**
  - Resistance standards, current shunts, precise decade standards programmable fluid and air bath, digital terahmeters, resistance/thermometry bridges.

- **BASELINE**
  - Multifunction, multiproduct, electrical test equipment calibrators, high accuracy digital multimeters, AC/DC shunts, Decade resistances, DC voltage standards, frequency source/measurement GPS standard.

- **BATEMIKA measurement solutions**
  - Solutions for temperature measurements/calibrations, precise thermometer readouts with accuracy in mK range, reference resistors, specialised equipment for metrology institutes, custom-made calibration. [www.shopalldata.it](http://www.shopalldata.it)

- **Kingnutrons Corporation**
  - Air data test sets, pressure/vacuum, temperature calibrators, torque and force calibrators. Tachometer testers. Test chambers, instrument cleaning & contamination prevention, test hoses, fittings and adapters.

- **MAC-PANEL**
  - Innovative, rugged and high performance modular interface solutions typically used to provide a reliable interconnection for Automatic Test Systems (ATE) with options to maximise the performance potential of all popular instrument platforms.
AC/DC POWER

- Programmable power supplies AC/DC from 240 W to 1 MW, AC/AC+DC from 250 VA to 800 kVA, programmable loads DC and AC. Solar panel simulator systems and regenerative AC/DC converters.
- Linear and power amps AC audio and ultrasound ranges (5 Hz to 800 kHz), for general use and special industry, military agencies, universities and research institutions.
- Programmable and fixed DC&AC power supplies, grid simulators, 400 HZ power supply/ground power, regenerative AC power sources, shore power supplies, and UPS & voltage regulators, regenerative AC loads, Power Supplies for specific markets: White Goods, Defense, Renewable Energy.
- 600 W DC programmable compact benchtop LXI, 1500 W DC HIGH density programmable rack LXI – up to 400 V. Custom power power supplies and power delivery systems for medical, industrial, military, telecommunications, semiconductor and laboratory applications.

BATTERY & EV TESTERS & SIMULATORS

- Programmable and fixed DC&AC power supplies, grid simulators, 400 HZ power supply/ground power, regenerative AC power sources, shore power supplies, and UPS & voltage regulators, regenerative AC loads, Power Supplies for specific markets: White Goods, Defense, Renewable Energy.
- Modular, upgradable, programmable battery testers. Multi channels, reliable, high accuracy, complementary software. Models for battery manufacturing factories and R&D institutes.
- Wide range of battery test product covering all requirements from material research to big batteries within one common software environment. Standard and custom model performing high current, high current, specific current&voltage, cell test systems, cell test systems for very high current, battery pack testers.

ACOUSTIC

- Membrane-free optical microphones are designed for measurements in air as well as in liquids. Smart data acquisition systems process the acoustic signal into a meaningful format.
- Sphere with 5 digital cameras, 64 microphones, SW for capture and reproduction of an omni directional sound image, detection&measurement of causes of noise, echo in cars, airplanes, helicopters, theatres, churches, conference rooms.

TEST & MEASUREMENT

- Test & measurement equipments, PSU DC, soldering stations, rework stations.
- Cutters 63-65 HRC mini, subminiature, taper, tip, tip stand off, hard wire cutters class W tungsten alloy steel (66-68 HRC), class T solid tungsten carbide brazed (79-81 HRC). Custom models. Precision pliers and tweezers.
- Digital LCR meter in a set of tweezers for identifying, measuring, testing, troubleshooting surface mounted devices (SMD) and through hole.

TOOLS

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