



F I T E C H

fitech.pl

About us:

FITECH is a provider of engineering solutions for producers of electronic devices, large and global companies from the sector of **Automotive, Industrial, Telecom, Medical, Lighting, Consumer**. Over 120 employees develop and build more than 100 systems per year.

FITECH provides:

- Industrial automation
- Industrial marking systems (in-line, off-line)
 - Laser marking stations
 - Tampo printing stations
 - InkJET printing stations
- Units for special process manufacturing (potting, thermal gluing, silicone injection, conformal coating etc.)
- Functional test systems (Functional Circuit Test)
- LED light measurement systems
- Vision systems
- Safety test systems
- Programming stations
- ICT fixtures with test scripts
- X-ray inspection units (X-ray gates)
- Software tool for remote global test systems management
- Manufacturing tools (soldering frames/jigs, Poka-Yoke tools etc.)

and services:

- Maintenance of the systems;
- Product Lifecycle Management;
- Test Configuration & Result Management;
- Consultations in field of DFT (Design For Test).

Product lines:

Industrial automation:

Fi NUMERIC

- universal 5-axis machine
- developed for automatization of special processes such as:
 - potting;
 - conformal coating;
 - injection of liquid silicone.
- advanced safety circuit applied to meet the highest safety standards for an operator;
- exchangeable dispenser, manipulators and module-based construction of the device enables configuration tailored to the customer's individual needs.

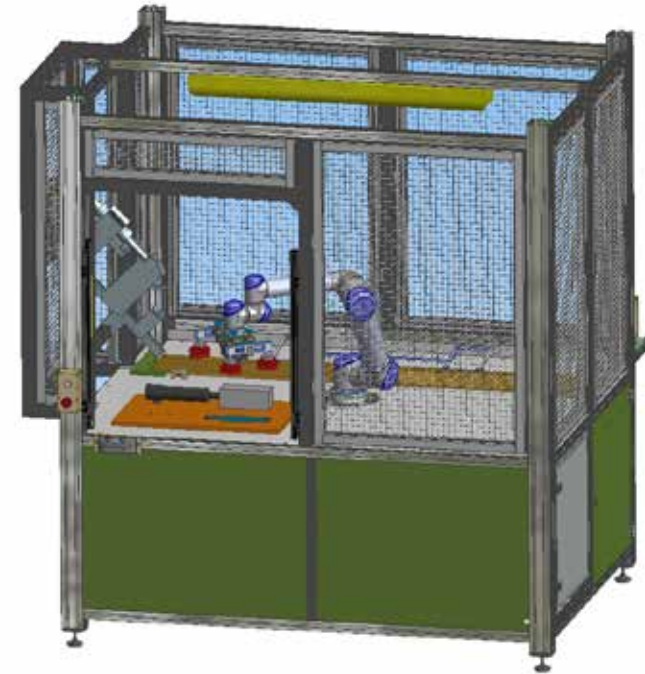


Industrial machines with robotic arm:

For process operations such as:

- packing
- sorting
- assembling
- gluing
- screwing
- tools handling
- soldering.

Possibility of customisation according to customer needs.



Laser Marking

- industrial solution dedicated to laser marking of PCB as well as housing of final products;
- developed to assure operation in automatic mode (in-line) or run by an operator (off-line);
- featured with advanced safety circuit to meet the highest safety standards for an operator.

Special processes machines:

- Hot-bar soldering;
- Conformal coating;
- X-ray gates;
- Hot-melt gluing.

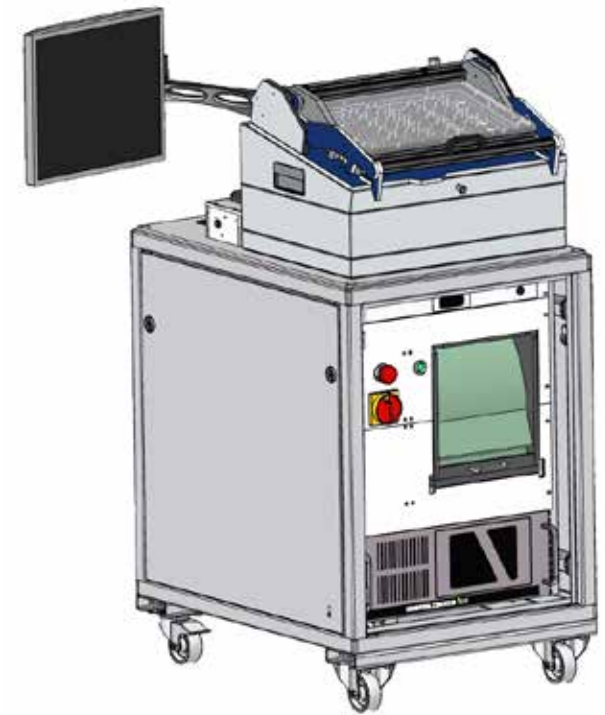
Functional testers:

FITEST BOXtest

- universal test system dedicated to a wide range of electronic products where the connection is done by dedicated wire harness;
- tests can be performed automatically or manually;
- this solution ensure basic electrical measurements at low cost.

FITEST Basic

- basic test system developed for tests of “low mix- high volume” production type;
- dedicated for products of low complexity of electronic circuit architecture;
- industrial interface allow to exchange the fixture easily;
- due to its construction and selection of suitable measuring components seems to be an optimal investment solution;
- designed based on Advance + testing solutions.

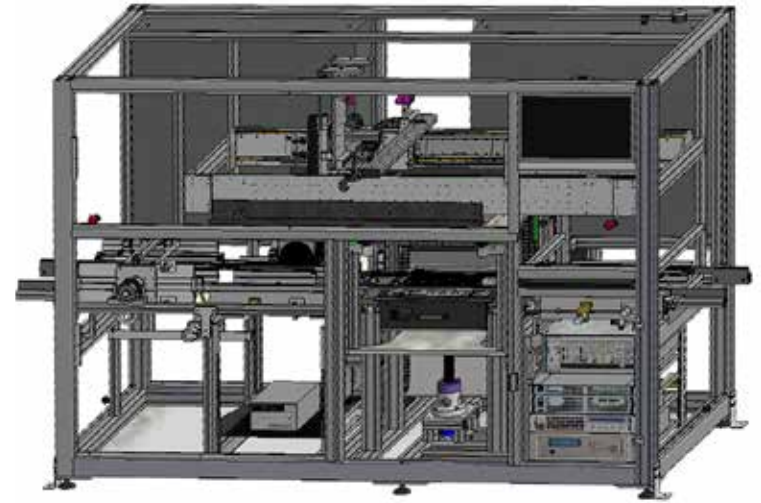


FITEST Compact

- test system designed for “high mix-low volume” production model; for group of products with similar functionalities;
- the measuring system integrated with fixture makes perfect “low cost” compact solution;
- if required the set can be expanded with additional functionalities; build-up possibilities following 1U or 2U standards;
- equipped with exchangeable inserts in the fixtures as well as tandem solution;
- economically reasonable solution for limited investment budgets;
- designed based on Advance + testing solutions.

FITEST Advance

- high end solution recommended for tests of large production batches with complex electronic architecture or for “high mix – low volume” production type;
- industrial interface allow to exchange the fixture in simple way;
- high quality measuring equipment enables wide range of electric measurements;
- recommended for those whose priority is highest performance and efficiency (short test time);
- designed based on Advance + testing solutions.



FITEST Advance + Similar to FITEST Advance yet extended by special functionalities:

- in-line solution (automation of the production process);
- tester featured with built-in AOI (Automated Optical Inspection) based on NI or other algorithms;
- integrated ICT tests (In-Circuit-Test); (tests of main parameters of electronic components);
- dual-stage fixture with two heights of needles – for application in case of using integrated ICT and FCT tests.



Test systems for lighting:

Light-Up Tester

- provides manual or automated vision inspection of light sources.

Burn-In Tester

- provides testing of light sources in time.

Light Measurement Tester

- enables testing of light parameters based on its spectrum:
 - luminous flux (intensity, illuminance)
 - temperature or colour
 - colour rendering index (CRI)
 - dominant wave length, max wave length
 - standard deviation of colour matching (SDCM)
 - colour coordinates (x, y);
- most common in the shape of integrating sphere of up to 3m-diameter or integrating tube of up to 3m long



Manufacturing tools:

Design and build services for the following tools:

- solder frames;
- box building jigs;
- final assembly stands;
- conveyors for soldering aggregates;
- production lines for manual assembly;
- devices for support of THT assembly THT.



Safety Testers:

FITEST HiPot

- designed for high voltage tests of PCBA or complete enclosed devices
- industrial interface allow to exchange the fixture easily
- one dedicated fixture is meant for one type of product – option recommended for high volume production
- exchangeable inserts (Bed of Nails) – option recommended for “high mix-low volume” production type;

FITEST HiPot +

Similar to FITEST HiPot yet extended by additional options on customer's requirements:

- Ground Bond Test;
- Ground Continuity Test;
- Insulation Resistance Test;
- Residual Voltage Test;
- Special requirements on Customer's request.

Programming stations:

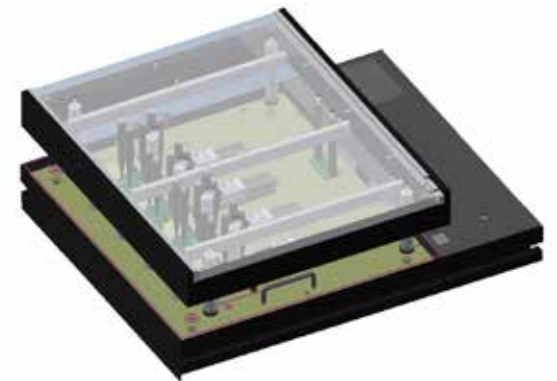
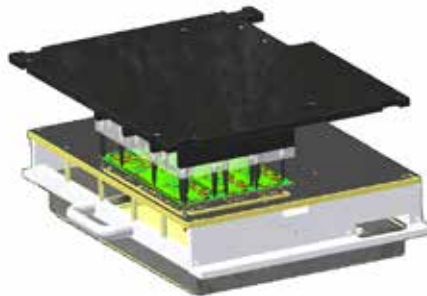
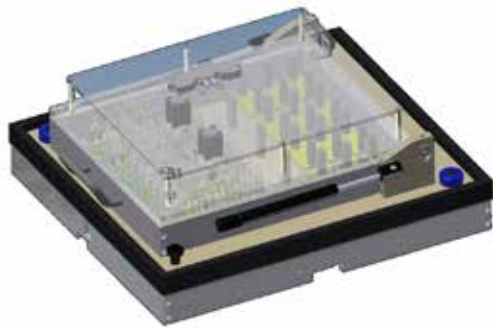


- developed to program microcontrollers in electronic products manufactured on an industrial scale;
- the station support programming of single product, is also suitable for programming of the whole panel of boards;
- industrial interface enables fast and easy exchange of fixtures or exchange of dedicated product plates;
- the station is equipped with multichannel industrial ISP programmer featuring high efficiency; compatible with a wide array of microcontrollers of various manufacturers.

ICT Tests:

Fixture designing, assembling and validation for various platforms:

- HP/Agilent;
- Checksum;
- Teradyne;
- Spea.
- preparation and debugging of ICT scripts;
- integration of ISP programming;
- integration of Boundary Scan and Test JET.



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