IPTE is a worldwide supplier of automated production equipment for the manufacturing industry.

IPTE Factory Automation develops standard machinery, test systems and turn-key automation systems for the production of electronics products and assembly lines for mechanical parts or products. The equipment is used in various industries: automotive, telecommunications, consumer electronics and other sectors of the industry.

Fully meeting customers’ requirements

IPTE Factory Automation is committed to meet its customers’ needs by providing:
- A high customer care approach
- Leading technology in factory automation
- A worldwide presence
- Excellent price/performance

IPTE’s basic philosophy has always been to support our worldwide industrial customers on site wherever they are producing.

The companies strategy is based on following pillars:
- Focus on quality of delivered equipment and service of the organisation
- Building an organisation where customer orientation is a key attitude
- Concentrating on its known areas of expertise and co-operate with partners in other areas
- Achieving a dynamic professional organization by stimulating co-operation between production facilities
- Focusing on the customers where IPTE can offer high added value.

Our mission

“To be the leading independent global factory automation partner to the electronics and mechanical manufacturing industry”.

Your global factory automation partner worldwide
VALUES

MOTIVATION AND CONTINUOUS IMPROVEMENT
COOPERATION AND KNOWLEDGE SHARING
TRANSPARENCY AND OPEN COMMUNICATION
KEEPING PROMISES AND CREDIBILITY
INTEGRITY
DEDICATION
PARTNERSHIP
CUSTOMER
OPENNESS
INNOVATION
PASSION FOR INNOVATION

2 CUSTOMER
Our markets

Automotive  Telecom  Computers & Peripherals  Professionals

Consumer  New Energy
Our integrated factory automation solutions

IPTE FACTORY AUTOMATION

TEST
IPTE provides the necessary manual to in-line test stations and applications for PCBs and final products.

SYSTEMS
IPTE offers a state-of-the-art range of laser marking, pick&place, pin-insertion, press-fit and depaneling systems. In addition, a total conveying product line can link the different process steps to each other.

ASSEMBLY
IPTE delivers assembly stations for lean manufacturing, or linked to build complete production lines for electronic and mechanical products.

PROJECTS
‘EARLY INVOLVEMENT WITH THE CLIENT’

Analysis and Specification Consulting
Realization and Verification
Installation and Startup
After-Sales Care
Our commitments

Added value
We are a reliable, quality supplier of engineering solutions for today’s manufacturing automation on a worldwide scale. Our focus is on creating ‘added value’ for our customers, in terms of both our product portfolio and the surrounding services.

People in partnership
We take our partnerships with our customers seriously, and also enthusiastically, to ensure that we provide optimum, cost-efficient and successful solutions.

Committed to quality
We continuously strive to improve the quality level of our machines and our services. This in turn reflects in increased success for our customers.

High technology
We are constantly innovating to make the most of the benefits of the latest technological innovations in factory automation.

A flexible approach
We offer a flexible network of engineering and production entities in the main industrial areas, organized around our major customers.

Full service approach
We offer end-to-end services on a project basis, including:
- Consultancy
- Concept engineering
- Engineering design
- Services worldwide
- Production support
- Training
- System maintenance
- Spare parts management
IPTE offers our customers comprehensive, high quality test facilities and capabilities for more than 20 years.
Our test strategy ensures your product quality

IPTE’s capabilities in testing, test automation and test services include manual, semi-automated and automated test solutions with optimal test coverage.

These include hardware, software, process and management aspects: from test handlers to test systems, fixtures, application programs, tooling, etc.

Test capacities range from 'design for testability' (optimizing testability during the development phase), test engineering, installation and startup support to training, process improvements and repair assistance.

With our flexible and multidisciplinary teams, we provide basic to dedicated turnkey solutions in various technology areas such as automotive, consumer goods, telecommunications and domestic applications.

This service is available at test-on-board level, sub-assembly (in-circuit, flash, functional), or on assembled products (end-of line testing, burn-in, stress screening).

**Structural test**
Short circuits, missing components, devices which have been poorly soldered or not soldered at all.
These can all be detected with an in-circuit tester. This innovative third party tester can be easily integrated into IPTE’s Test Handlers.

**Functional test**
Our functional test systems have an open and modular hardware platform based on IPTE’s proprietary ILAN or rack and stack equipment, PXI standards or PC based solutions.
Our in-depth application knowledge results in a fast and reliable solution for your PCB or final test. Our system software, FrameWorx+ or National Instruments’ LabWindows CVI or LabView give you an easy and fast tool to develop new applications in the shortest possible time.

**Program loading**
As electronics become increasingly more intelligent, software needs to be downloaded into the product during one of the last stages of manufacturing. IPTE offers a range of solutions to download software in a low & high volume production environment.

**Final test**
Contacting of final products using products’ connectors requires specific solutions which require low wear and high contact reliability.
Test solutions adapted to your needs

Automation is the key for an efficient and reliable production process. IPTE offers a whole range of Test Handlers for any possible applications: ICT, Functional Test, Flashing and Final Test. The solutions range from economical to high-speed handlers and are geared towards all possible investment levels.

**Test fixtures**
Our aim is to realize manufacturing quality by creating a secure test environment. To achieve this goal, we have developed a range of test fixtures to create a stable and, if needed, shielded environment for testing medium-size products with RF capabilities, such as mobile phones, Bluetooth modules and remote keys. These fixtures can be operated manually or automatically with a robot or pick & place machine.

**In-line test handling**
High volume manufacturing requires reliable and stable conditions for successful testing. IPTE’s range of automatic, in-line test handlers comply with these specifications for almost any kind of application, including vision and RF. Manually operated test systems are available for low volume production or low labor cost environments. These include workstations or turntable-based solutions.

**Temperature test and burn-in**
To ensure the quality of products under hot and cold conditions, IPTE delivers in-line and off-line solutions to handle and adapt printed circuit boards or final products. With the test handler integrated into an oven, products can be tested up to 125°C. In addition, a matching solution also checks the products at temperatures as low as -40°C. For lifetime measurements on aging simulations, our burn-in solutions can be adapted to fit all kinds of final products.
Applications and fixtures with excellent repeatability

IPTE offers several solutions for testing small to large volume production qualities.

Test Fixtures
A wide range of reliable test fixtures (manual, vacuum or pneumatically operated) are offered for in-circuit testing, functional testing or programming solutions. In-line testing requires an in-line fixture for optimal results. IPTE provides these in-line test fixtures for its whole range of test handlers, customized according to specification.

Application and debug
Test application software needs to be updated every time new products are introduced. IPTE offers application services to install and debug new releases.

Final Testing
Final Testing uses products’ user interface as a reliable way to connect and perform a customer oriented final check on the product prior to shipping it to the customer.
IPTE provides standardized solutions for several process steps in electronics production: marking of PCBs, product depaneling of PCBs, placement of odd shape components including feeding, and the whole conveying program to link the complete line together.
Marking solutions

Today, in electronics manufacturing, a major driving force is the requirement for traceability. This applies to end products as well as to components and boards. The marking process has to be seamlessly integrated into the production line without any interruptions in the workflow. For these tasks, IPTE provides a full portfolio of marking solutions to provide fast, high-quality and error-free marking, labeling and writing.

Typical marking solutions include 1D/2D, text and graphics (or a combination of these).

Product identification is becoming essential in nowadays production environment as a first step towards comprehensive traceability.

Conveying

Our range of conveying equipment is the latest development in PCB handling equipment, combining low price with high availability, based on years of experience. Available in different sizes (L, M and S), the range extends from conveyors only to loaders/unloaders and all kinds of handling equipment.

Solutions for hybrid boards requiring special conveying are available and can even be used to link multiple bonding stations for parallel operation.
Odd-form component placement
The automation of odd-form component placement is economically justified when a variety of components need to be placed at high production rates. Odd-form electronic components, such as connectors, transformers, or more standard devices, can be quickly and easily integrated onto the easymounter machine. Equipped with servo-gripper and lead-scan, our machines improve your quality and reduce labor costs.

Pin Insertion
The High Speed Pin Insertion machine allows to place variously shaped contacts into a PCB. The pins can be designed for soldering or press fit connections. The servo controlled placement head allows to insert these contacts with high speed at highest position accuracy combined with insertion force control.

Press Fit
High Force Placement machine inserts connectors and components with multiple connections and tight fit to the PCB by controlling the insertion force and stroke. While the machine is able to handle high forces it is the ideal solution for press fit connectors.

Feeding
Our world-class component feeding solutions cover the areas of stick feeding, axial and radial feeding, up to tray feeding. As feeding of odd-form components requires more than short cycle time, our feeders may include cutting and bending tools, vision for polarity check, and buffering for high-speed applications.
Depaneling

High technology, panelized PCBs require a precise, stress-free separation process to prevent damage to PCBs and components. IPTE’s depaneling systems offer a unique combination of cutting tools, material handling and tooling to cut high technology panelized PCB assemblies. They can be utilized in all kinds of production environments. They can be seamlessly integrated or used in stand-alone configurations for manually supplied loading and unloading of boards.
EXPERIENCE THAT COUNTS

Although assembly operations are complicated, IPTE offers a solution that is simple, economical and efficient. IPTE has the technology and experience in-house to solve assembly projects in different application areas. These can be in-line processes with pallets carrying the products, or off-line processes with rotary tables or individual work stations. Fully automated lines offering lean solutions are part of the portfolio.
Assembly: Experience that counts

Standard assembly concept: Modularity and flexibility
Our range of standard assembly cells (AFP, A3D) enables complex lines to be produced with the option of increasing capacity or complexity as required. System modularity guarantees maximum flexibility. An easy to configure menu structure, with pre-defined software functions, helps the operator with any kind of intervention.

Integration of the application
Each customer has individual needs, so our machines can easily be adapted to fit specific requirements. In addition, the total line or automation island can be completed with product specific applications.

Typical assembly processes include:
- Loading and unloading
- Clinching
- Marking
- Mounting
- Pressing
- Testing
- Screw fastening
- Sorting
- Dispensing
- Packaging

Other processes are available on request. Please contact us and we will discuss what processes are best for your particular application.
Pallet based systems

For continuous material flow in a high volume assembly line, pallet based systems offer the optimum solution. A high degree of utilization combined with short cycle times are the base for any efficient production environment. IPTE’s pallet based systems offer a variety of modular possibilities for a whole range of applications.

Plug and play modularity is the essence. Our solution consists of cells with a main conveyor and/or working conveyor that can be positioned serially or in parallel in an assembly line. The basic cell operates with specific robots or is handled with pre-defined software which makes integration easy and fast. This modularity allows the IPTE line to be adapted or extended at any time. Other products or changes in production quantities can be handled easily.
Lean Solutions

To meet the fluctuations in a production environment, IPTE offers a range of lean solutions in which the integration of processes is key and the automation level dependent on the customer environment. These facilitate the production process performance towards reaching the goals as set by implementing the lean manufacturing process.

Important goals of Lean manufacturing include a higher level of throughput with a minimum of inventory (in other words placing small inventory in the strategic locations around the assembly line). It provides optimum quality by securing quality immediately after a manufacturing process (problems can be detected and remedied at earliest possible time).

And last but not least empowers workers on the manufacturing line (in the belief that those closest to production have the greatest knowledge of how the production system should work).
From idea ...

Standard systems from IPTE are ideal building blocks to be combined into individual solutions. However, the range of solutions does not stop with modular standard systems. We offer custom-designed assembly systems in a wide area of applications, from lean solutions to highly complex turnkey systems. Hence the combination of the unique competences of IPTE in the test, systems and assembly processes delivers you the optimal solution to your manufacturing.
... to Turnkey Automation

As a result, IPTE delivers you a custom made production line that enables you to make your products within the given budget, output rate and quality. Including options for product change-over and/or product traceability.
Services and competences

Consultancy
Our highly qualified engineers act as partners with our customers to work out the optimum solution for every problem. Early involvement in the concept phase results in a versatile and innovative solution, created by partnership.

Project management
Our project management systems ensure end-to-end implementation of the concept. We provide you with one contact for the entire duration of the project. This project leader brings your needs and requirements into the project team and is responsible for implementation.

Design and realization
With the latest CAD systems, our designers turn ideas into practical applications. The system is manufactured and assembled in one of our facilities, by skilled mechanics, electronics engineers and software specialists. The quality standards required are assured by continuous refinement of our processes and supported by certification such as ISO 9000.

After-sales services
Our after-sales services team offers total packages for service after delivery and installation, from customized service and warranty, solution-oriented training, to 24-hour support. As a global supplier, we are continually optimizing our services to meet our customers’ requirements at their production sites. Services include HotLine support as well as preventive maintenance service contracts.
IPTE Factory Automation NV’s registered office and corporate headquarters are located in Genk, Belgium. It serves its clients through sales and service offices on three continents.

Sales contacts

Europe
- Belgium
- Germany
- France
- United Kingdom
- Portugal
- Spain
- Hungary
- Romania
- Poland
- Finland
- Czech Republic

America
- United States
- Mexico

Asia
- Singapore
- China

Production & Service

- Genk, Belgium 9,500 m²
- Beernem, Belgium 400 m²
- Heroldsberg, Germany 5,050 m²
- Oradea, Romania 560 m²
- Carlepont, France 6,000 m²
- Ovar, Portugal 2,000 m²
- Shanghai, China 1,200 m²
- Malville, France 1,500 m²
- Dachau, Germany 2,480 m²
- Reus, Spain 1,850 m²
- Tallinn, Estonia 1,400 m²
- Guadalajara, Mexico 1,700 m²
- Atlanta, USA, Service
- Singapore, Asia, Service
- Sao Paulo, Brasil, Service