



Well established in the Americas and Asia, **MSTECH** is now present in Europe under the name **MSTECH EUROPE**. With an unmatched portfolio, **MSTECH EUROPE** offers unparalleled possibilities to customize backend solutions with the highest quality standards. We work hand to hand with each customer case to design customized solutions, resulting in the best possible solution that will match the project needs to perfection.

The most advanced automated solutions for outstanding performance

MSTECH KOREA HISTORY

DEPANELIST

MSTECH KOREA

1996

2003

2008

2014

2016

2017

2021

1999 - Registered for Samsung Electronics

2003 - Registered for LG Electronics

2005 - Developed Dual inline Router System

Acquired ISO 9001:2000 certificate

2006 - Established R&D Center

Developed Single inline Router System

2008 - Registered for Nokia's Global Supplier



2015 - Developed Auto Tray Function inline Router

2016 - Developed all Diagnostic Intellectual Dust Collector

Developed Automatic inline Router with Auto Tray and Shuttle Jig, Pallet Unloading System



2021 - Developed Depaneling offline Router Universal Checkmate

2010 - Registered for Continental's Global Supplier

Registered for Flextronics' Global Supplier

2013 - Developed Saw (Wheel) Type Depaneling System

Developed Auto PCB Placing System

Developed Edge Detection function

2014 - Developed Auto Programming function

Developed PCB Sawing System



2017 - Automatic inline Sawing System Developed

Moebius offline Router Developed

Moebius inline System Developed

SSD Module inline Router Developed

Developed UV Laser Depaneling System and IR, Green

Laser Depaneling system



Depanelist

MSTECH EUROPE HISTORY

CURING + PROTECTION

MSTECH EUROPE

MSTECH AMÉRICA

2017

2018

2019

2020

2021

2022

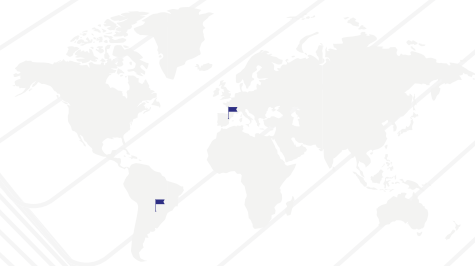
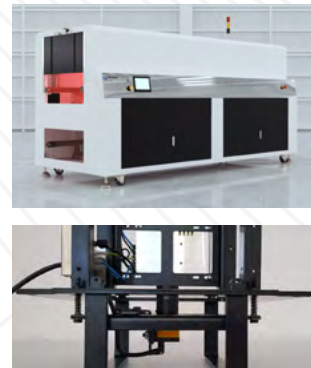
2018 - Developed
Curing UVLED 395

2019 - Developed
Curing UVLED
Benchtop XL

2020 - Developed
Handling
Curing Oven IR
Reflow Oven MSTR
Screen Printer MST

2021 - Developed
Curing MSTECH
Smart Infinity
Curing Vertical Oven
AOI (Automatic Optical
Inspection)
AOI i.Top CAM
AOI i.Bottom CAM
AOI i.Slim CAM
AOI i.Top SCAN
AOI i.Bottom SCAN

2022 - Developed
PCB Protector
Partners: Nordson
Asymtek - Musashi
Plasma Treatment



We PROVIDE

Our relationships are based on years of trust and support
with a direct relationships with headquarters.



**Inline Solutions
Application and Demo Center
Logistic Center
Local Support
Spare Parts Center
Leasing and Financing Services**

**We have turnkey solutions
for your business!**

STAFF

MSTECH EUROPE staff has over 20 years experience in the Industry. Our main target is to help our customers and support our principals' growth.

OUR JOB

- Developing robust process solution
- To understand our customers' needs
- Smart engineer solutions matching customer request
- Managing customer accounts professionally
- Supporting our customers
- Delivering a clear message
- Facilitate and enrich communication

OUR EIGHT PRINCIPLES

- Adaptability
- Untiring Effort for Improvement
- Gratitude
- Courtesy and Humility
- Fairness and Honesty
- Cooperation and Team Spirit
- Contribution to Society
- Creativity and Innovation

OUR ADDED VALUE

- Experience
- Support
- Expertise



SUPPORT

What we do for our customers in terms of support:

For every new strategic account we open, we have a resident engineer dedicated to the customer.

We keep the engineer in our payroll and at the customer's service Engineers have specific expertise and support each other.

Our process expertise comes from years of experience implementing production solution in an highly demanding enviroment.

Our strategy helps us support our customers and have immediate response capabilities.



MSTECH EUROPE join forces to deliver thorough presence and support to our customers and principals.

EUROPE ORGANIZATION



Jean Baptiste Bénard
CEO FOUNDER



SMT Asia

SMT America

Stéphane Etienne
R&D Strategic
Innovation Manager

Jaume Díaz
CFO

Fernando Rafols
3D Animation

Irene Somenson
Graphic Design
& Marketing

Fernando Garriga
Legal Services

**Airon
Fernández**
IT

R&D TEAM

Jesús Martínez
PLC Developer

Alejandro Cruces
Electro Mechanic
Designer

Raul Garcia
Mechanic Designer

SALES TEAM

Israel Ayala
Sales Nordic

Karol Sowa
Sales Eastern Europe

Jean Baptiste
Sales Spain

Khaled Amri
Sales North Africa

Christophe Valat
Sales France & Italy

Gonçalo Leitao
Sales Portugal & Brasil

Marie Kaing
Sales United Kingdom

CUSTOMER SUPPORT TEAM

Jesús Martínez FSE Depaneling

Ismael Vilar FSE AOI Expert

Khaled Amri FSE MES - FSI Software Expert

Christophe Valat FSE Backend Expert

Lyazide Oudjoudi FSE Material Management
Expert - Device Programming
and Test Expert

BACK OFFICE TEAM

**Ana
Vázquez**

Administrative Assistant,
Quotation, Back Office
Equipments & Spare
Parts

Antia Vila

Back Office Comission,
Services & Travel Agence

Jaume Díaz

CFO - Finance
Controller, Laboral
and Preventive Risk

INTERNATIONAL MARKET MAP

Organizational representation by countries

Sales & Technical Support

Asia (Korea) - America (Brasil-EEUU) - Lyon (France) - Helsinki (Finland) - Portugal
Stuttgart (Germany) - Tunisia (Tunisia)

Demo-showroom & Logistic Center

Cubelles, Barcelona (Spain)

Test Center

Madrillet, Normandie (France)

Key Account & Strategy Manager



Stéphane Etienne
Germany Area Manager

Distributors



Jean Baptiste Bénard
Southern Europe Area Manager
Spain-Italy



Christophe Valat
France Area Manager



Marie Kaing
European Product Manager
for Consumables
United Kingdom



Karol Sowa
Eastern Europe Area Manager
Bulgaria-Slovakia-Hungary
Poland-Czech Republic-Ukraine



Israel Ayala
Nordic Area Manager
Estonia-Norway-Sweden
Denmark-Finland



Gonçalo Leitao
Portugal & Brasil
Area Manager



Khaled Amri
Northern and Southern
Africa Area Manager
Morocco-Algeria-Tunisia
South Africa



GLOBAL EVOLUTION

Income Growth and Human Resources

Evolution Human Resources

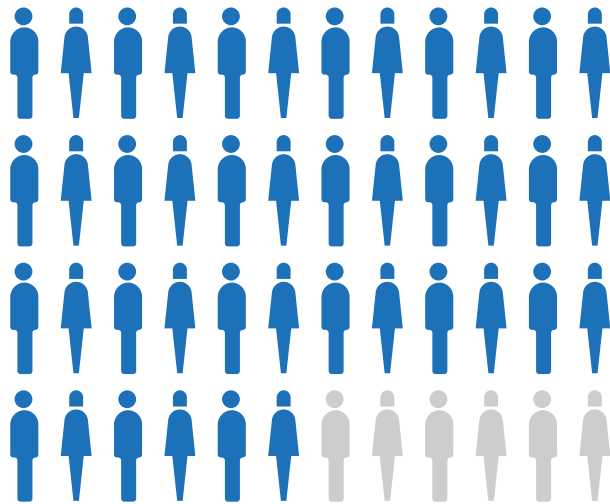
The group of territorial divisions of MSTECH has over 74 employees worldwide.

MSTECH employees:

Manufacturing Asia: 35

Engineering & Manufacturing Europe: 11

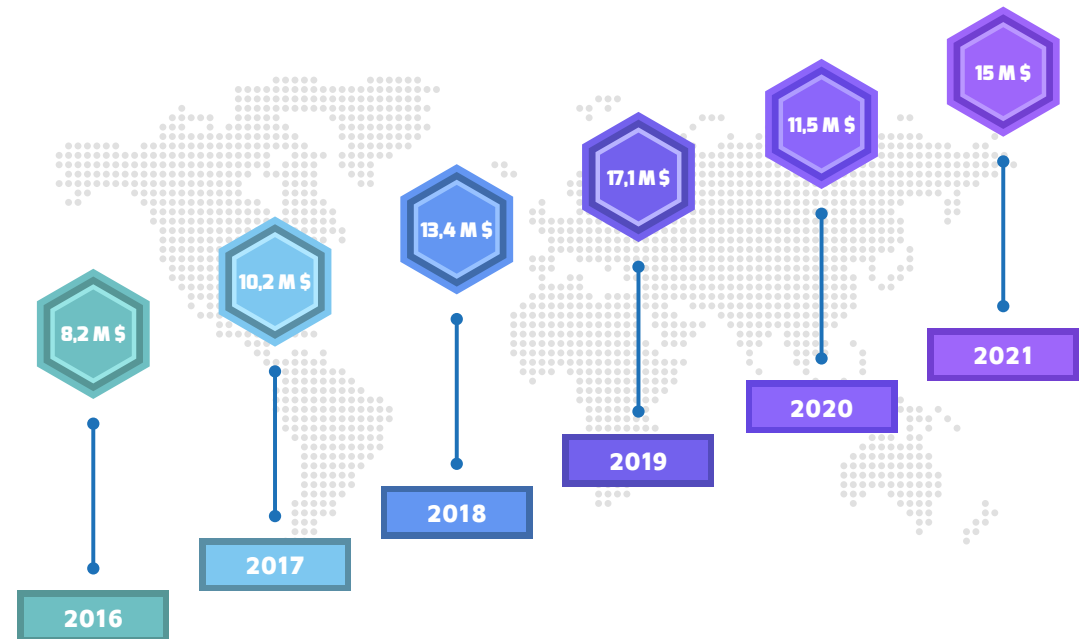
Support US: 8 - Asia: 11 - America: 9



Evolution Financial Resources

Billing progressive growth in recent years.

*Limited to genuine MSTCH product



BUILDING SPACE PRODUCTION AREA



Sets Manufactured

2017: 90 / 2018: 120 / 2019: 170
2020: 100 / 2021: 130 sets

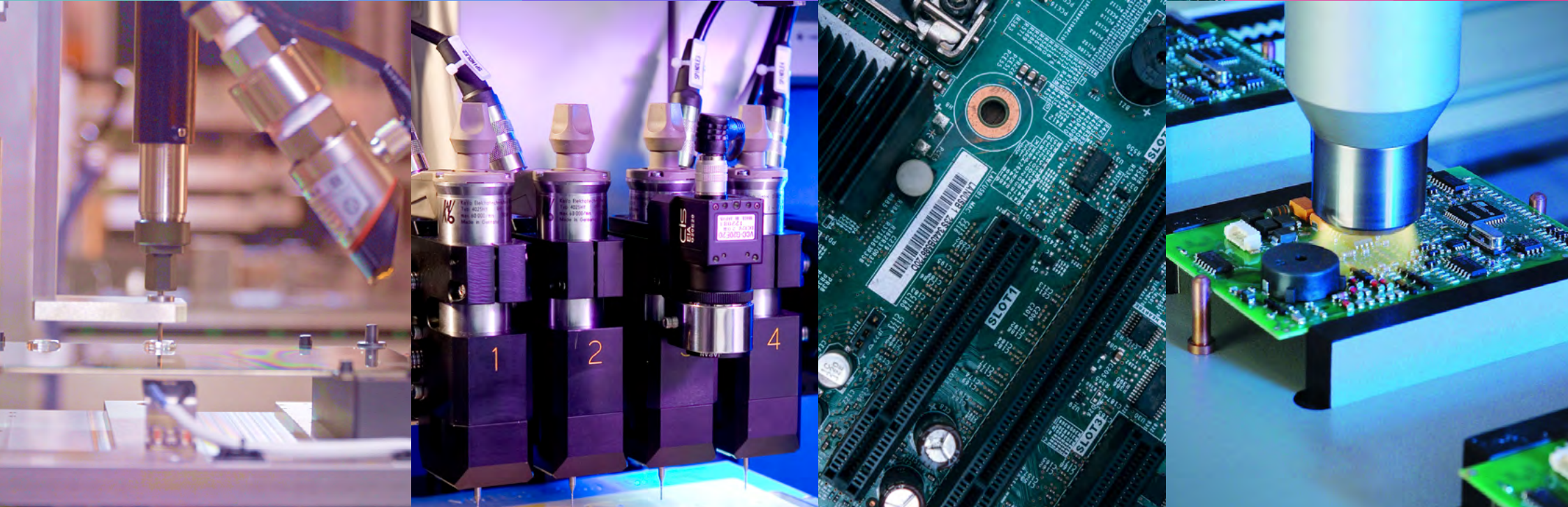


Total area: 13.200 m²
Production area: 4.000 m²
Assembly capability: 20 sets/month



Total area: 3.400 m²
Production area: 1.200 m²
Assembly capability: 8 sets/month





PARTNERS



- Routing and Depanelist Solution
- Electronic Assembly Solution
- Handling Solution
- PCB test Solution (SPI and AOI 3D)
- Soldering Solution (Oven and Wave)
- Lean Pick & Place Machines
- Optical Bonding
- Consumables
- Material Management
- MES and Industry 4.0 Solution
- Device Programming and Test Equipments



SUPERIOR FUNCTION DESIGNS

Custom possibilities SMT Full Process Line

01

HANDLING

02

DEPANELING

03

DUST COLLECTING
SYSTEM

04

ELECTRIC TEST &
FLASH

05

PCB'S
PROTECTION

06

CURING

07

VISION INSPECTION
SYSTEM

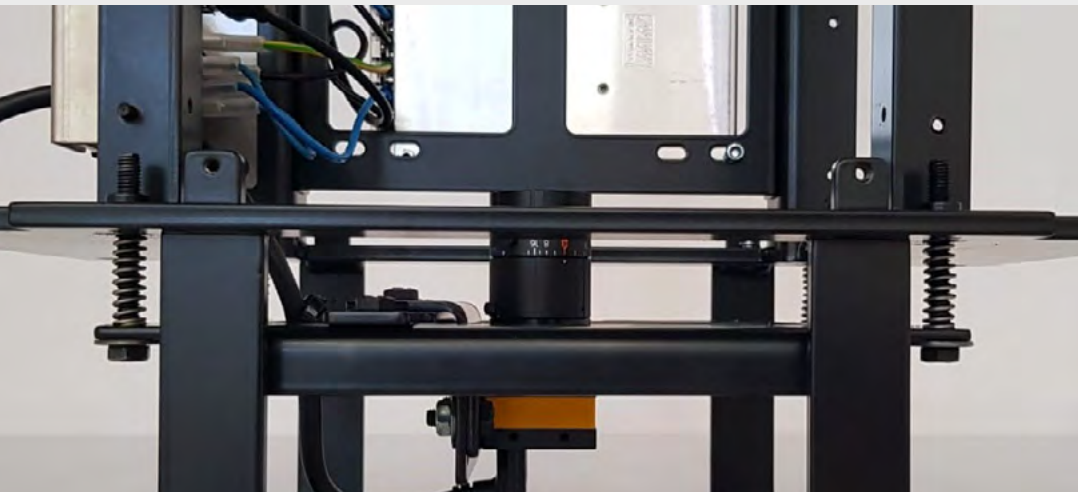
08

LEAK TEST
SYSTEM

09

AUTO TRAY
UNLOADING SYSTEM

AOI CAM



AOI CAM READY TO INTEGRATE

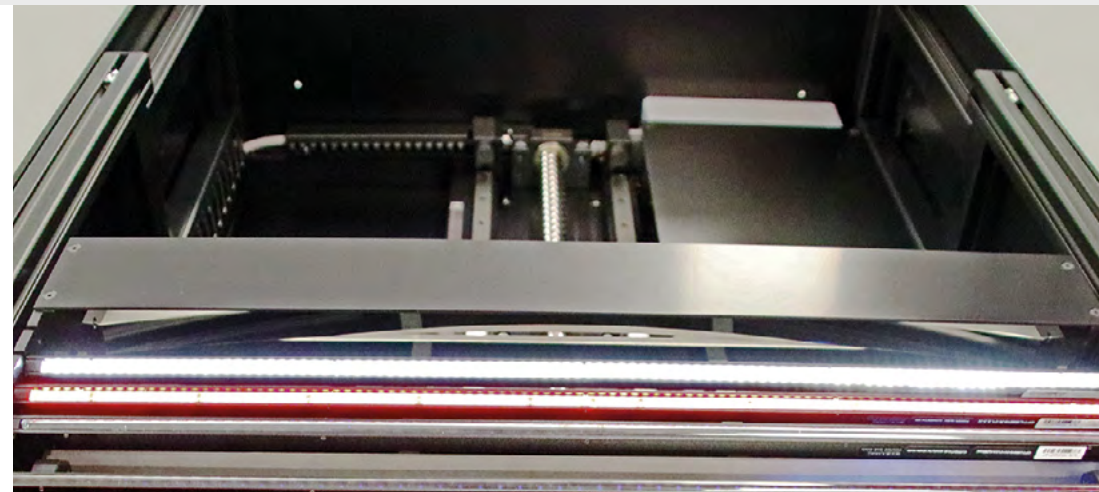
**MEASURE OF PRESENCE, POSITION AND SIZE (AREA)
FOR COATING & DISPENSING INSPECTION**

Ultrafast AOI Top Bottom ready to integrate in
any inline/offline equipment

Single system for inspection of objects

- Test in less than 2 seconds of a panel or product with measurement report
- Typical tests include confirmation of the mechanical assembly, presence, placement and orientation of plugs, stickers, fixings, reading of barcodes and data matrix codes
- Inspection of workers process flow
- Glue and coating inspection
- Cutting, potting process, encapsulation and underfill

AOI SCANNER



AOI SCANNER

**INSPECTION THT + CONFORMAL COATING
AND DISPENSING**

System for single-sided top inspection for THT or
Conformal Coating printed circuit boards

- Combination of different inspection tasks such as SMD placement, THT solder joints, conformal coating and full screening for solder beads (solder balls)
- Capture of any number of barcodes and data-matrix codes on the multi PCB
- Resolution: 600 - 1200 dpi, 42µm - 21µm
- Color depth 3 x 12 bit internal, 3 x 8 bit external
- Light source: multi-LED illumination
- UV LED Cluster focused

ADVANCED ULTRA VIOLET CURING SYSTEM

The high performance surface light source is integrated into our fully integrated Modular System with a simple flexible control system transport conveyors and a range of options and accessories to meet every need.

The **UV irradiation** source has world best efficiency using high power LED'S. Frequency is tuned to 395nm.

Integrated, programmable forced air cooling over the entire 500mm x 400mm area.

The small footprint is fully ready for simple integration into any automated line, full SPC compatibility & Industry 4.0 data export functions give extraordinary capability & traceability.

FEATURES

**FLEXIBILITY
ON DIMENSIONS**

**BOARD
DETAILS**

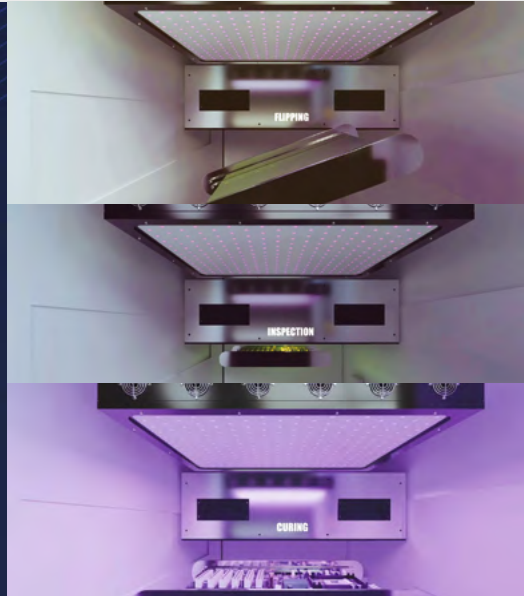
**NO INFRARED
RADIATION**

TECHNICAL DETAILS

- **Wavelength:** 395nm.
Options: 365nm, 385nm, 405nm
- **Electric Power:** 1800w
- **Curing Area:** 500x400mm (option curing area 800x500mm)
- **Curing Side:** Top side (option top and bottom) in top conveyor or return conveyor
- **Best Curing Distance:** 50-150mm
- **Power Intensity:** 1000mW/cm² (at 15cm of working distance)
- **Cooling method:** Fans cooling
- **Humidity Control:** Air conditioner (humidity & T°C control closed loop) (option)
- **No need to warm up after power on:** Instant turn on/off. It reaches the maximum light intensity instantaneously, increasing lamp lifetime

COMBINE UVLED/ FLIPPER/INSPECTION

3 FUNCTIONS IN 1 EQUIPMENT
IN LESS THAN 30 SECONDS



MST Smart Infinity allows three functions which are usually managed separately.

- Flipper
- UV Led
- Automatic Optical Inspection of Coating (scanner control)

The **MST Smart Infinity** saves space in the manufacturing production floor and increases production speed with only one operator.

The equipment can be integrated into a production line of electronic PCBA's production equipment at the customer's request.

Other versions will be developed: UV Oven / Laser Marking / Cleaning and Surface Activation.

- **High precision camera:** Recognizes PCB fiducial mark, PVB hole & fixture hole, etc.
- **Max. PCB size:** $\leq 330 \times 440\text{mm}$. Field of view.
- **Max. PCB Thickness:** $= 5\mu\text{m} - 8\text{mm}$
- **Max. component height:** Up to 70mm
- **Color:** Recognition of color, black and white of fixtures
- **Checking conformal coating coverage area:** tolerances:
 $\geq \pm 0,1 \text{ mm}$ with $21\mu\text{m}$ (20 sec. max / $430 \times 330\text{mm}$) or $\geq \pm 0,2 \text{ mm}$ $42\mu\text{m}$ resolution (10 sec. max / $430 \times 330\text{mm}$)
- **Conformal coating thickness:** Able to check automatically by calibrated topologic view
- **Cosmetic defects:** Able to check per IPC. Our Conformal Coating AOI recognize bubbles bigger than $50\mu\text{m}$. Smaller ones are usually dust or other pollution.
- **Thickness:** Able to check for IC seagull leg, by calibrated topologic view
- **Record:** all inspection results
- **Link to statistic system:** Our engineer can program the interface. Customer specifications needed

SOFTWARE SOLUTION PROCESS TRACKER

MES Manufacturing Execution System



- Process Integrity Data Management
- Temperature
- Humidity
- Solvent Concentration
- Solvent Density
- Power

INDUSTRY 4.0 SOLUTIONS

PROCESS
CONFORMITY

TRACEABILITY

PAPERLESS
INSTRUCTIONS

INVENTORY
MANAGEMENT

WIP VISIBILITY

KPI REPORTING



PPE PRODUCT PROCESS EXPERTISE

Our wish to stay atop our sector, set trends and offer only state-of-the-art solutions will take **MSTECH EUROPE** to develop a new brand **Product Process Expertise (PPE)** which will be based in Lyon, where we will have a comprehensive **Showroom** where the manufacturing processes will be designed based on the customer requirements. This way the user **will be able to witness how each Backend process is validated, from depaneling to the final assembly.**

Moreover, we will offer a **specialized lab focused on the cleaning and protective processes which the circuit boards** undergo to guarantee their quality and performance, and finally, there will be a **center designed to perform all the required acceptance and performance tests.** The combination of all of these processes will allow the customer to achieve a well-rounded integral solution only available and possible through our **Product Process Expertise.**

SERVICES

Trust and professional care for your project and needs



Technical Support

MSTECH EUROPE is committed to each and every customer. Our team of qualified professionals will carefully listen to your needs and will build a tailored proposal responding to your needs and designed to exceed your expectations.

Installation and Commissioning

We are fully committed to your success. Our team of qualified professionals will see through a thorough and successful installation, whereby we will meet your process and performance expectations, delivering what is expected and more.

User Training

Our technologies and interfaces are designed to be clean, lean and practical, so that learning them is simple and efficient. Our team of qualified professionals will look after delivering thorough training in the use, programming, functionality and processes.

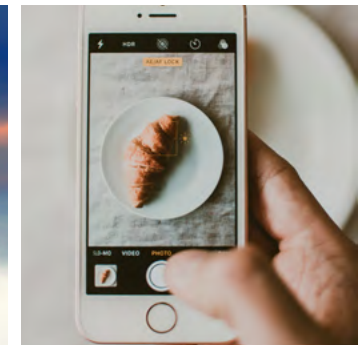
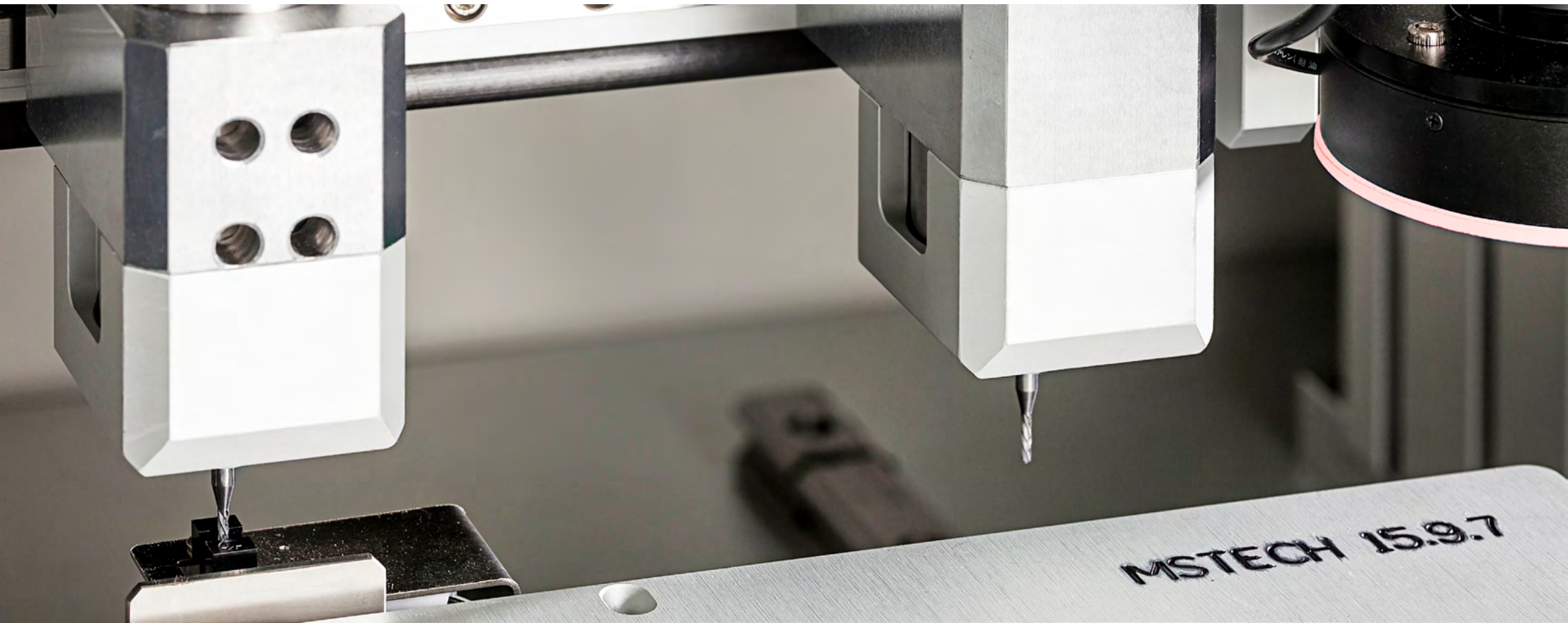
After Sales Service

Our goal is to be your added value partner. Our commitment goes well beyond projects. We make an extra effort to stay in close contact with our customers and provide technical support of the highest quality both remote and onsite.

Maintenance

We offer the highest quality maintenance services to balance the stress the equipment is put under, on a daily basis. From scheduled inspections, specialized maintenance routines to parts replacement, our main goal is to achieve optimum performance of our technologies.

Provider of equipment solutions for all sectors



MAJORS CUSTOMERS

Mobile Phone



Automotive Electronics



Home Elec. & Computer



EMS



Elec. Controller & Component



OEM



Global Network



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