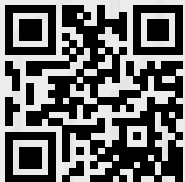




PROCESS PARTNER FOR THE ELECTRONICS INDUSTRY

EQUIPMENT CATALOG



Discover all our equipments and solutions
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EXELSIUS

PARTNER

ENABLER

INNOVATION

EXELSIUS

FUTURE

PROCESS PARTNER FOR THE ELECTRONICS INDUSTRY

**We support electronics industry players worldwide,
partnering on their most ambitious projects and processes
to meet today's challenges and those of tomorrow.**

Since 1990, we have believed in a world where technology transforms and improves everyday life.

The electronics industry as a whole has enabled and continues to enable these improvements for everyone. At EXELSIUS, we are more than just an equipment manufacturer for PCB assembly. We see ourselves as a true partner to the global industry. **Together with leading OEMs and distributors, we are committed to building a more reliable, robust, innovative, and future-focused industry.**

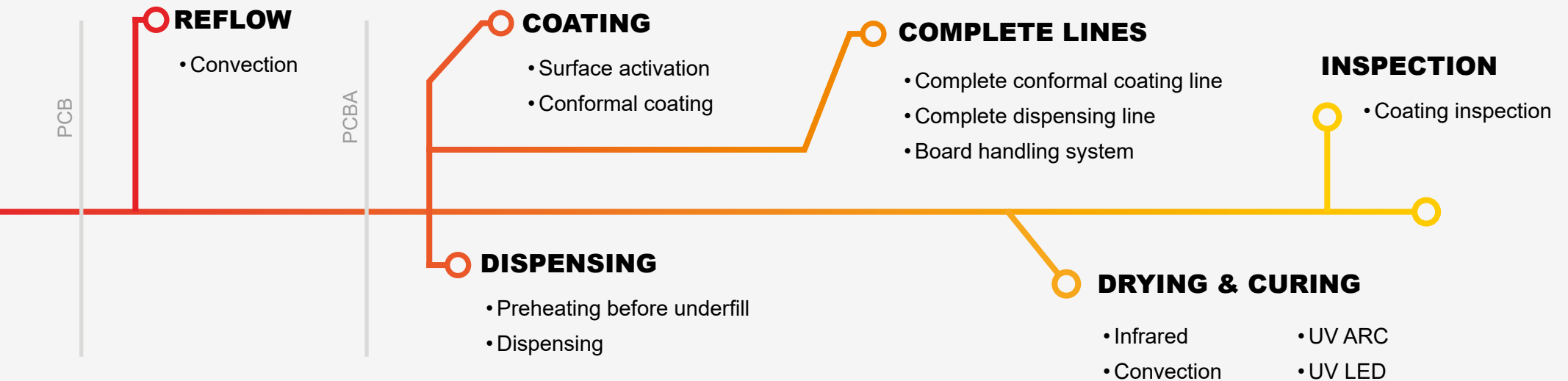
PROCESS

ROBUSTNESS

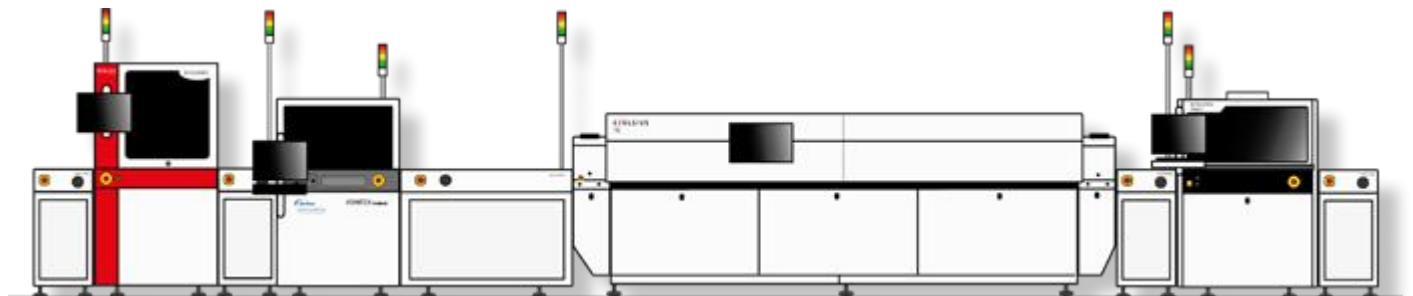
RELIABILITY

OUR MISSION: DESIGNING, MANUFACTURING AND DELIVERING PROVEN INDUSTRIAL EQUIPMENT...

We support you throughout the entire PCBA production process



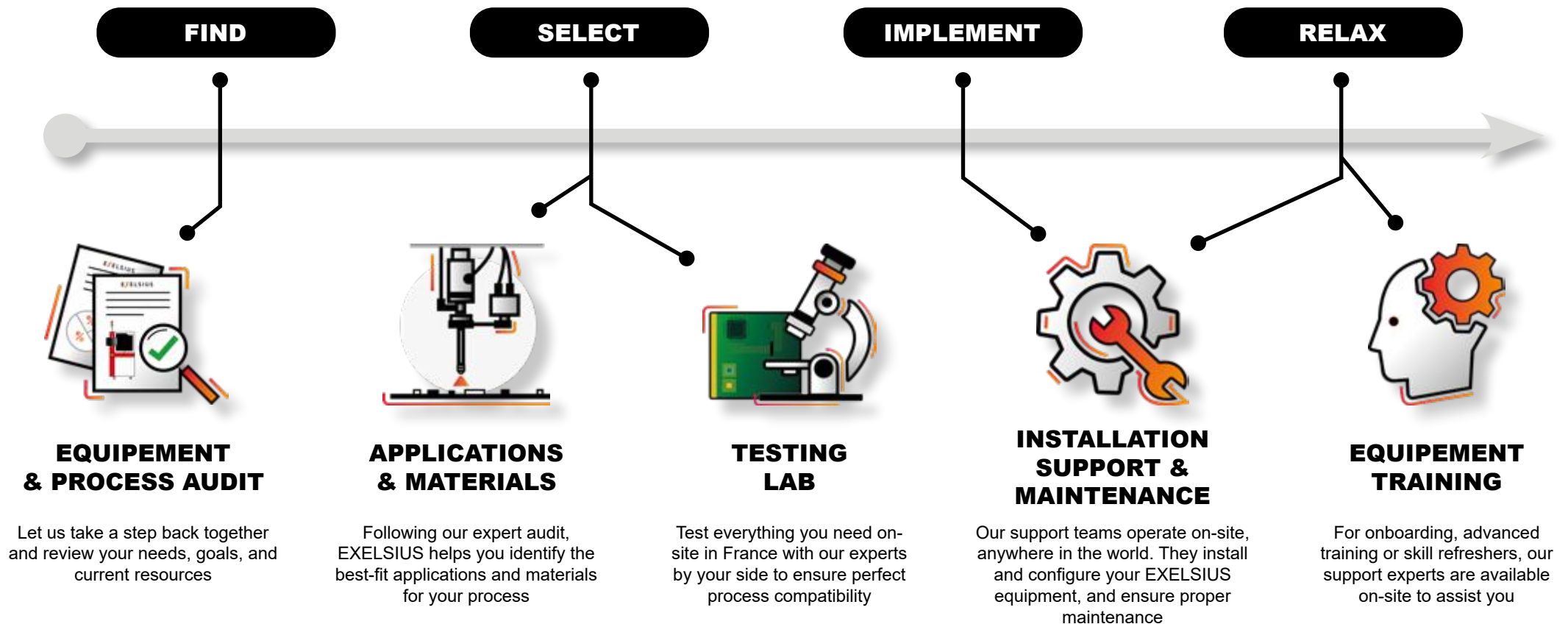
Our teams develop reliable and high-performance solutions designed to meet the demands of the electronics industry.



...AND SUPPORTING YOU EVERY STEP OF THE WAY, FROM PROCESS DEFINITION TO EQUIPMENT COMMISSIONING.

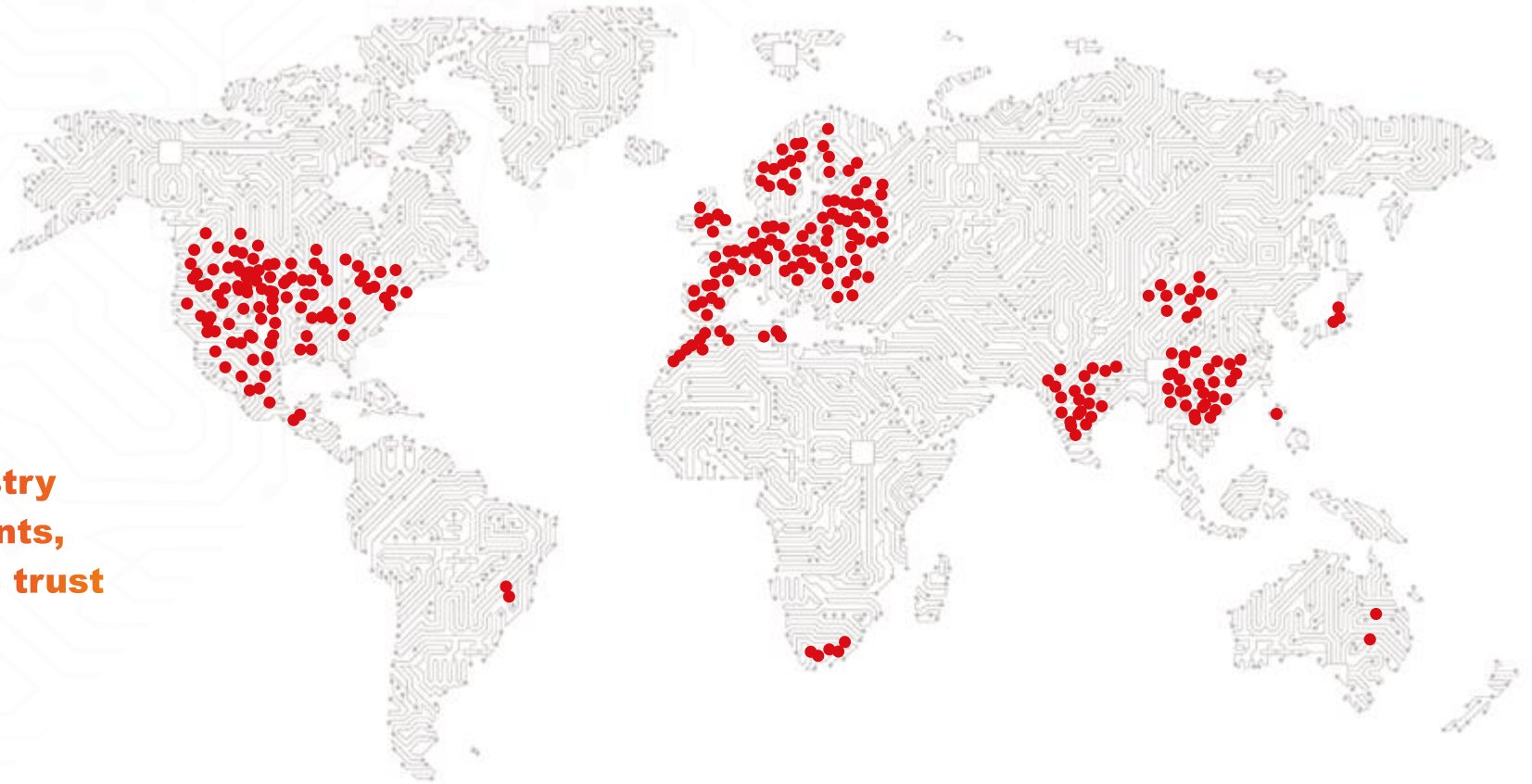
Because we know that choosing means trying, our teams are by your side from day one through to commissioning, wherever you are in the world.

We bring all our expertise to serve your success

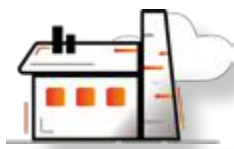


WE ARE GLOBAL !

**Whatever
their industry
requirements,
our clients trust
EXELSIUS**



AEROSPACE



INDUSTRIAL



AUTOMOTIVE



DEFENSE



SPACE



ENERGY



MEDICAL

EXPERIENCE THE RELIABILITY AND ROBUSTNESS OF EXELSIUS EQUIPMENT, WHEREVER YOU ARE IN THE WORLD

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EXELSIUS

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maxtronix, inc.

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• PHILIPPINES

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REFLOW

XRC | Reflow oven

Page 10



A COMPLETE RANGE OF REFLOW OVEN



Product sheet



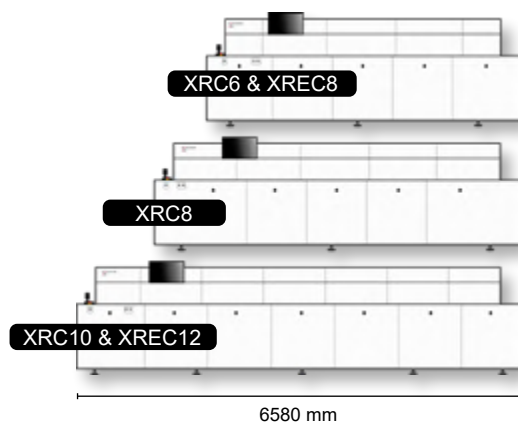
CONVECTION
Technology

COMPATIBLE
IPC
CFX

THERMAL CONTROL FOR
PROCESS FLEXIBILITY
AND ADAPTABILITY

FAST MAINTENANCE FOR
MAXIMUM AVAILABILITY

GRADUAL THERMAL
TRANSITION ENSURING
COMPONENT INTEGRITY



XRC reflow ovens use **convection technology** to deliver **controlled and even heat distribution**. This precision ensures **high-quality soldering** and reliable assembly of electronic components on the PCB. Designed to optimize your production, the system offers **easy maintenance access and quick cleaning to minimize downtime**. **Robust and efficient**, it meets the demanding standards of the electronics manufacturing industry.

Easy and accessible maintenance

Gradual and uniform thermal transition

Optimal soft soldering quality

Compliance with the most sensitive components

Optimized thermal insulation

Operator risk management (EHS)

Energy efficient

DRYING | CURING

TC Infrared drying/curing oven	●	Page 12
XPC Convection curing oven	●	Page 13
UV-9 UV ARC curing oven	●	Page 14
UV-9 LED UV LED curing oven	●	Page 15



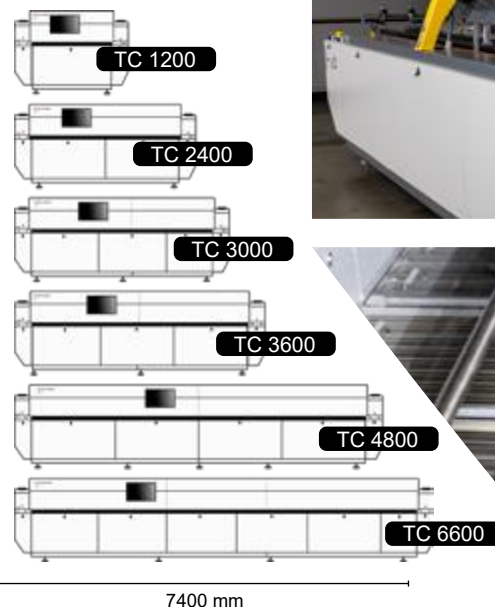
A COMPLETE RANGE OF INFRARED DRYING AND CURING OVEN



Product sheet



INFRARED
Technology

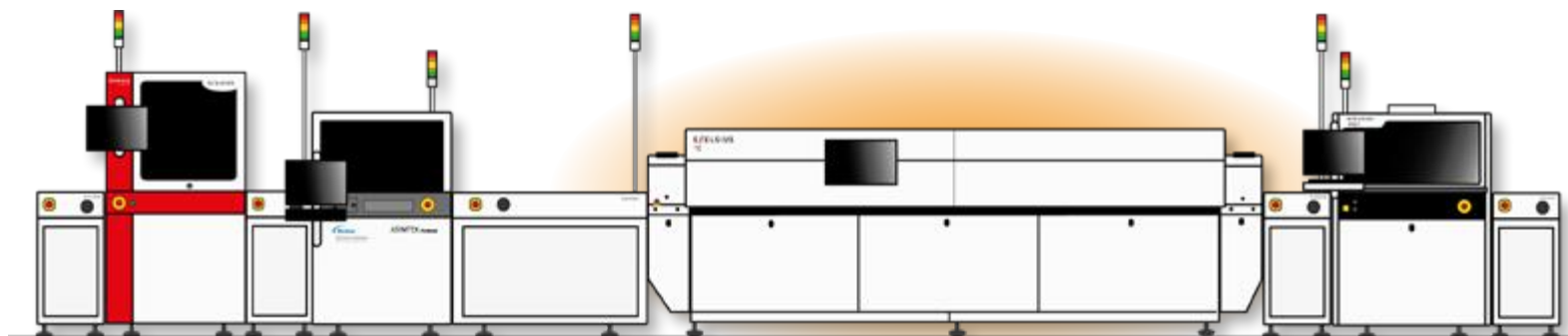


PREVENTION OF BUBBLE
DEFECTS DURING DRYING
OR CURING

SAFE SOLVENT
EVACUATION

MODULE POWER CONTROL
FOR ALL TYPES OF
THERMAL PROFIL

EXELSIUS applies its thermal transfer expertise to drying and curing by offering **high-performance industrial equipment suitable for all types of production**. Equipped with infrared technology, TC drying and curing ovens ensure **fast and controlled temperature ramp-up for uniform curing and reduced energy consumption**.



Selective surface
activation

Coating

Curing with the TC 3600
infrared oven

Automatic coating
inspection

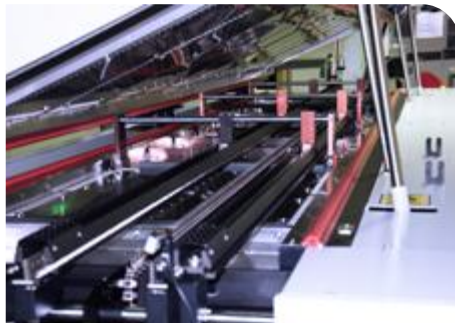
Easy and accessible maintenance

Fast MES integration

Energy efficient

Compliance with the most sensitive components

Operator risk management (EHS)



The XPC curing oven delivers uniform heat distribution through **forced convection**. It ensures **deep, reliable curing** even for the **most demanding applications**, such as underfill, glob top, SMA, dam and fill, potting, and TIM. **Custom designed**, it adapts to your specific needs to optimize throughput and ensure consistent production quality.

Designed for curing the most demanding applications:
underfill, glob top, SMA, dam and fill, potting, TIM

Custom design tailored to your process

Fast MES integration

Up to 4 conveyor lanes

Easy and accessible maintenance

CONVECTION CURING OVEN

XPC

Product sheet



CONVECTION
Technology

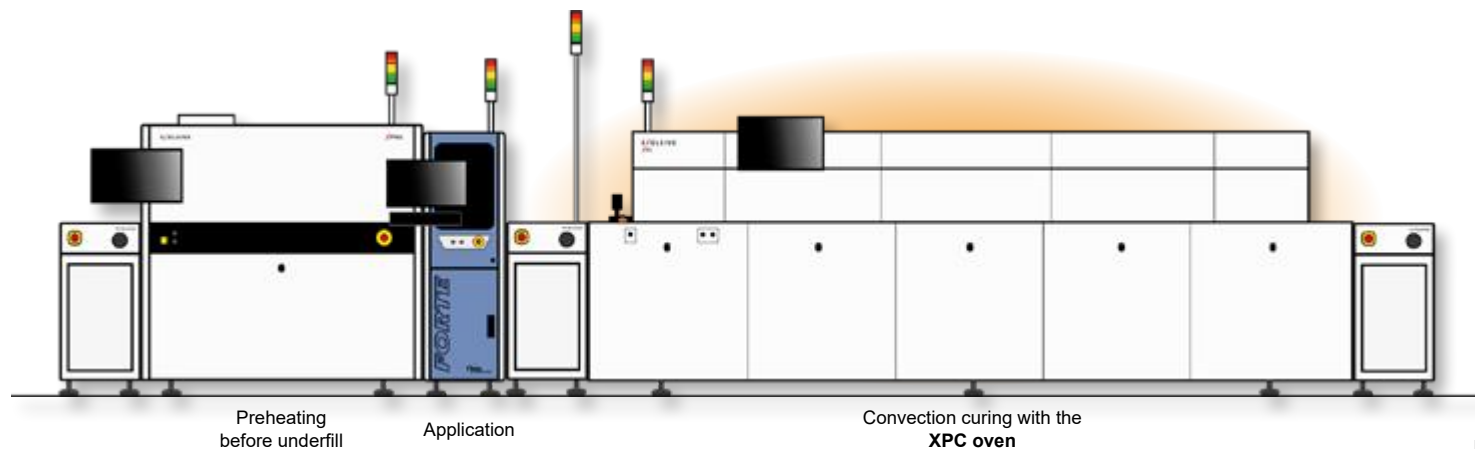
COMPATIBLE



**THERMAL CONTROL
FOR CONSISTENT AND
RELIABLE CURING**

**COMPLIANCE WITH
THE MOST SENSITIVE
COMPONENTS**

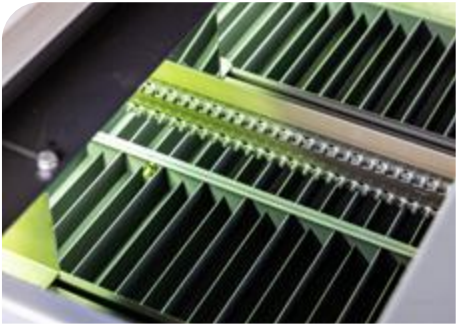
**MODULARITY FOR A
PROCESS TAILORED TO
YOUR APPLICATION NEEDS**





UV-9

UV ARC CURING OVEN

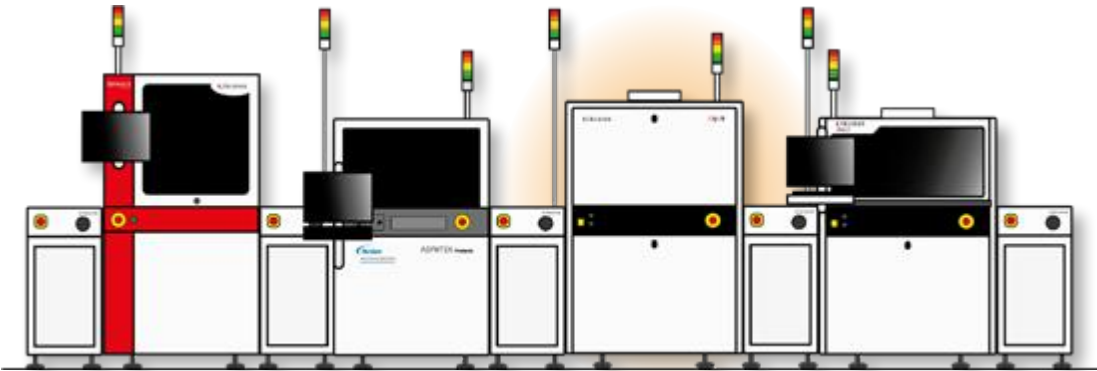


WIDE-SPECTRUM
UV PROCESS

CURING PROCESS
CONTROL AND
TRACEABILITY

DESIGN FOCUS ON
OPERATING COST
OPTIMIZATION

The EXELSIUS UV-9 oven combines **performance and safety** with **medium-pressure UV arc technology**, delivering a wide spectrum for fast and efficient curing. Designed to adapt to all types of UV processes, it features optimized cooling and extraction systems to protect your teams. With extended lamp lifetime and reduced energy consumption, it helps **lower your operating costs while ensuring stable and reliable processing.**



Selective surface
activation

Coating

Curing with the
UV-9 oven

Automatic coating
inspection

EXELSIUS patented control loop

Minimal footprint

Fast MES integration

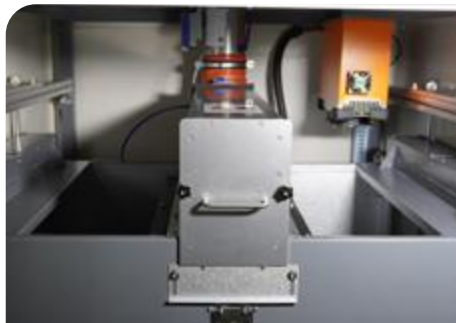
UV-A to UV-C spectrum

Easy and accessible maintenance

Optimized production cycle

Intuitive HMI by EXELSIUS

Operator risk management (EHS)



The UV-9 LED oven is the ideal solution for **fast, uniform and reliable UV LED curing** of conformal coatings on PCBAs. Its **compact design** integrates easily into your production lines, boosting performance while **minimizing footprint**. Engineered to support your growth, it **adapts to evolving applications and production volumes**. With simplified maintenance, maximum reliability and optimized operating costs, it helps you increase productivity.

EXELSIUS patented control loop

Fast MES integration

Easy and accessible maintenance

Intuitive HMI by EXELSIUS

Minimal footprint:
the most compact oven on the market

UV-A and UV-C spectrum

Operator risk management (EHS)

High UV power with low energy consumption

Product sheet



UV LED
Technology



UV-9^{LED}

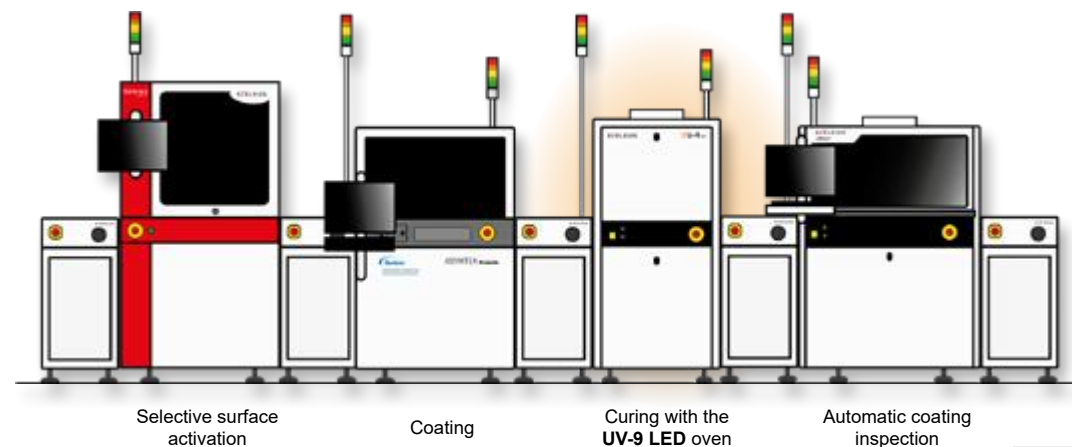
UV LED CURING OVEN



LED CURING PROCESS
WITH UV-A AND UV-C

CURING PROCESS
CONTROL AND
TRACEABILITY

DESIGN FOCUS ON
OPERATING COST
OPTIMIZATION



USER INTERFACE OF EXELSIUS OVEN

INTUITIVE AND EASY
TO USE

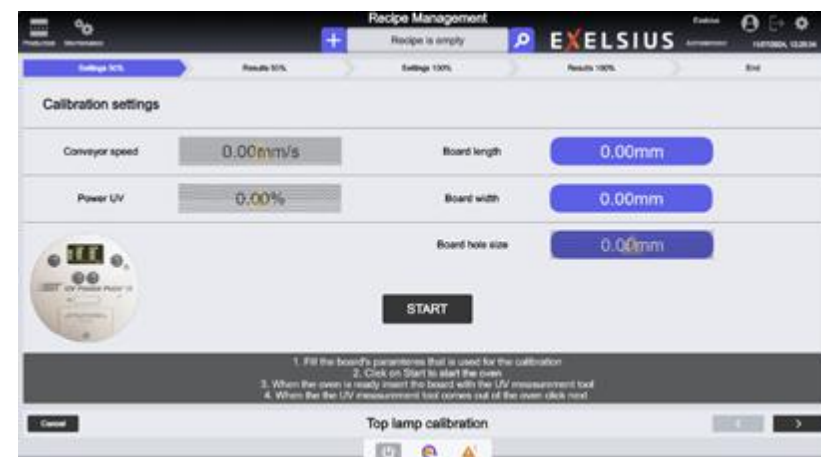
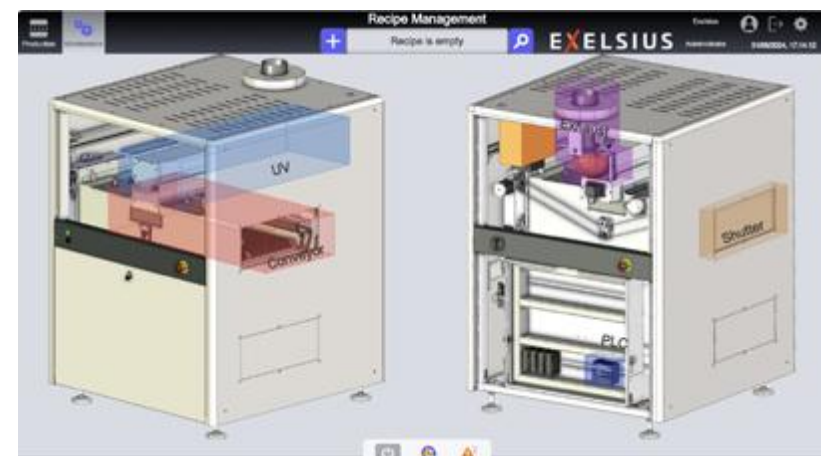
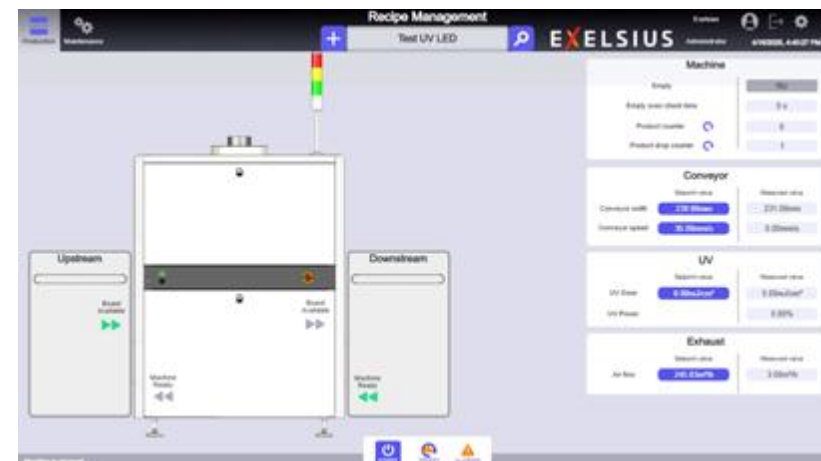
PROACTIVE
ERROR
DETECTION

BUILT-IN SAFETY
FEATURES

WHEN SIMPLICITY DRIVES PERFORMANCE

With its new human-machine interface, EXELSIUS turns oven operation into second nature.

The streamlined screen layout instantly guides your operators. No hidden submenus. Everything is designed so the right action is always within easy reach. You reduce downtime and ensure smooth production transitions. In the background, the HMI continuously monitors all critical parameters. At the slightest deviation, it alerts you and helps prevent failures. Integrated locking and alert systems protect both your teams and your products, in full compliance with industrial safety standards. Fewer errors. Greater uptime. Total peace of mind.



COMPLETE LINES

S-LINE | Compact conformal coating line —● Page 18-19

MODULAR CONFORMAL COATING | DISPENSING LINES —● Page 20

S-LINE

THE MOST COMPACT CONFORMAL COATING LINE ON THE MARKET



Product sheet


INFRARED
Technology

COATING
Nordson
Electronics Solutions

COMPATIBLE
IPC
CFX
RETURN-PATH PROCESS
FOR UP TO 50%
FOOTPRINT REDUCTION

SINGLE-OPERATOR
LINE CONTROL (OMO)

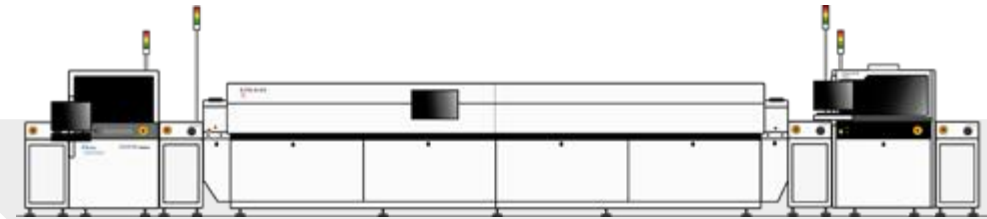
UNIFIED
SUPERVISION SCREEN
(NEXUS X by EXELSIUS)

Innovative and compact design

Modular configuration tailored to your production needs

Intuitive HMI developed by EXELSIUS

Controlled energy consumption



Standard infrared coating line



S-Line coating line

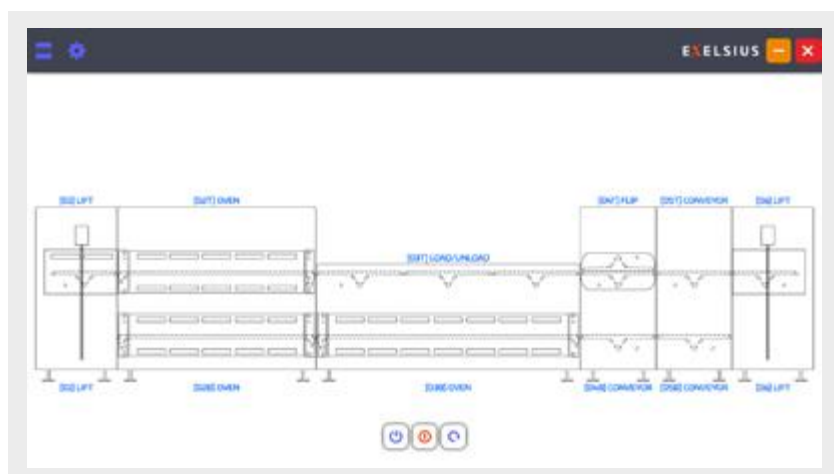
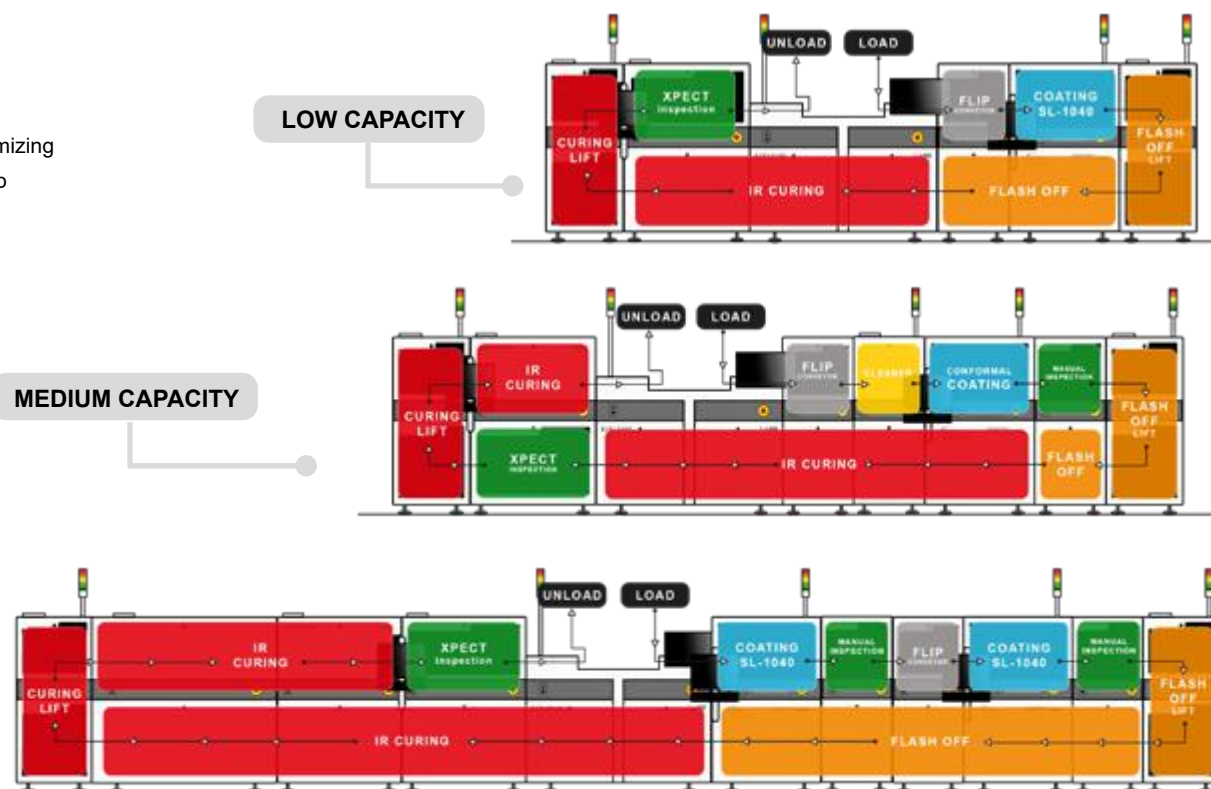
YOU SAVE VALUABLE FLOOR SPACE

REDUCE YOUR FOOTPRINT BY UP TO 50%

The S-Line conformal coating line is set to transform your production flow by optimizing both floor space and operational efficiency. Thanks to its unique design, each step of the coating process is arranged within the upper and lower sections of the line, **cutting footprint by up to 50 percent.**

Single-operator control enhances throughput and **reduces labor costs**, while the line's optimized extraction system **ensures lower energy consumption.**

Fully modular, the S-Line adapts to your production needs, whether for **small, medium or high volumes.** Choose a solution designed to boost your competitiveness and meet the demands of your market.

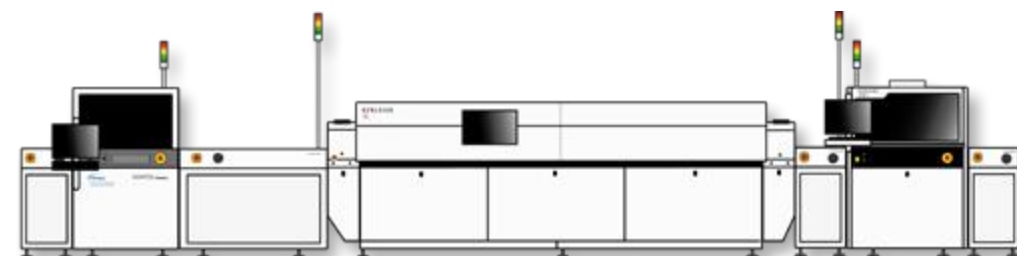
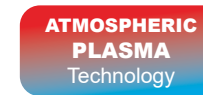
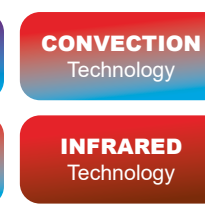
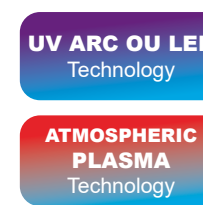


NEXUS^X INTERFACE

Developed by EXELSIUS

Nexus X provides continuous monitoring of your equipment for **real-time tracking**. It allows you to **view and prioritize alarms** based on their criticality, while monitoring performance and quickly detecting any threshold deviations. With its **secure interface**, you can **easily control your equipment** and benefit from **more efficient, proactive maintenance**, helping reduce production downtime.

MODULAR CONFORMAL COATING | DISPENSING LINES



Conformal coating
with SL-940 /1040

Flash off

Infrared curing
with TC oven model 3600

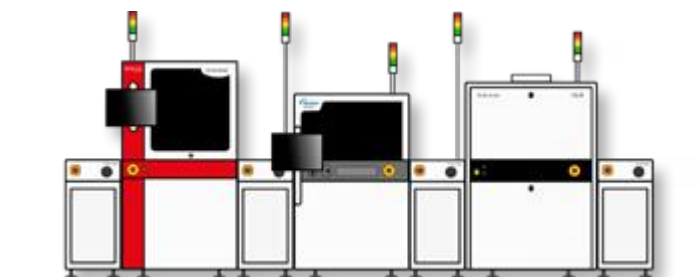
Automatic coating
inspection with XPECT

Example of a complete conformal coating line infrared technology

MODULAR AND SCALABLE
DESIGN TAILORED TO
YOUR PROCESS NEEDS

WIDE RANGE OF
TECHNOLOGIES AVAILABLE
(UV, CONVECTION,
IR, PLASMA)

EASILY INTEGRABLE AND
COMPATIBLE WITH ALL
YOUR EQUIPMENT



Selective surface
activation with
GENIUS

Conformal coating
SL-940 /1040

UV curing
with UV-9 oven

Example of a complete conformal coating line UV technology

BUILD THE COATING OR DISPENSING LINE THAT FITS YOUR PRODUCTION NEEDS

Gain **flexibility** and **efficiency** with a coating or dispensing line **fully designed around your priorities**. Choose from a **wide range of technologies** (UV arc, LED, convection, infrared) and integrate your existing equipment to optimize your processes. Thanks to the complementarity of EXELSIUS and Nordson solutions, your setup is perfectly aligned with your production requirements and growth objectives. You benefit from a tailor-made performance solution designed to boost your competitiveness and support your long-term development.



Preheating before
underfill with
XPHU oven

Dispensing with
FORTE

Forced convection
curing with
XPC oven

Example of a complete dispensing line



COATING | DISPENSING | INSPECTION

GENIUS | Selective surface activation —● Page 22

XPHU | Preheating oven before underfil —● Page 23

XPECT | Coating inspection system —● Page 24

GENIUS



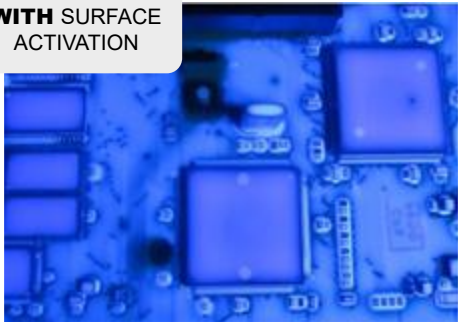
PLASMA
ACTIVATION:
A MUST HAVE
FOR QUALITY

Product sheet

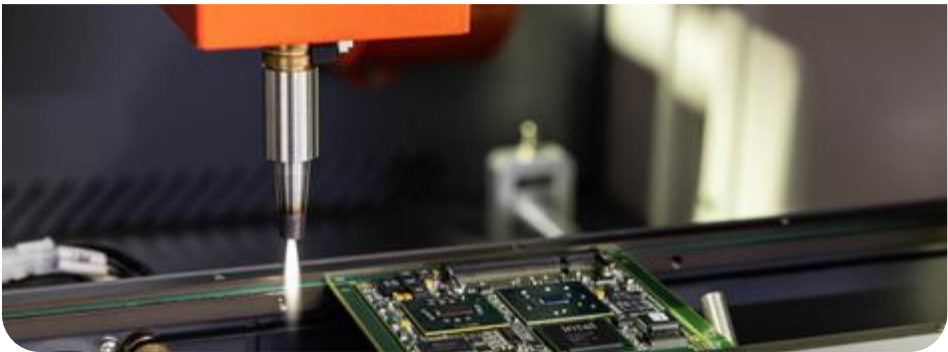


ATMOSPHÉRIQUE
PLASMA
Technology

WITH SURFACE
ACTIVATION



WITHOUT
SURFACE
ACTIVATION



GENIUS uses atmospheric-pressure air plasma technology to **increase surface tension** and **improve the adhesion of coatings, adhesives, and encapsulation resins**, eliminating the **risk of poor wetting**. Its embedded intelligence optimizes the plasma torch path for **fast and precise treatment** while ensuring ESD and MSL protection for components.

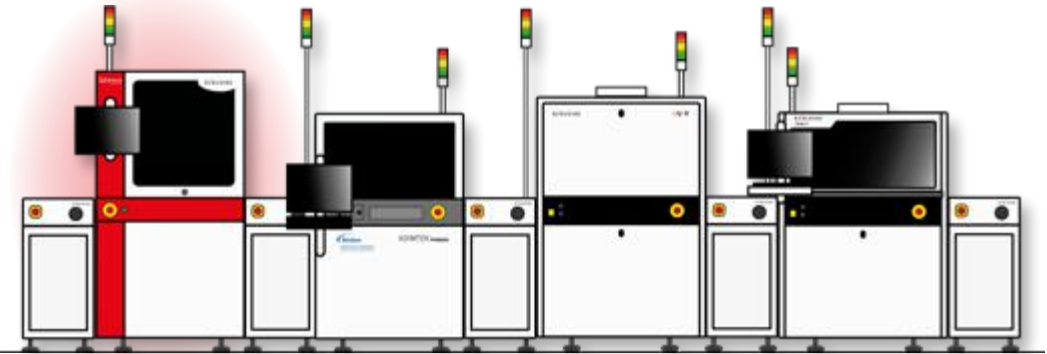
Patented industrial solution by EXELSIUS

Minimal footprint

Easy and accessible maintenance

Operator risk management (EHS)

Intuitive HMI developed by EXELSIUS



Selective surface
activation **GENIUS**

Coating

Drying/Curing

Automatic coating
inspection



PREHEATING OVEN BEFORE UNDERFILL

XPHU

Product sheet



CONVECTION
Technology



The XPHU preheating oven is designed to **meet the growing demands of the underfill process in the automotive industry**, where production speeds are increasing. With its **optimized convection technology, top or top/bottom configuration, and multisegment conveyor**, it delivers precise preheating before underfill application. This allows dispensing equipment to focus on its core function, optimizing the entire process.

Top or top/bottom configuration

Multisegment conveyor

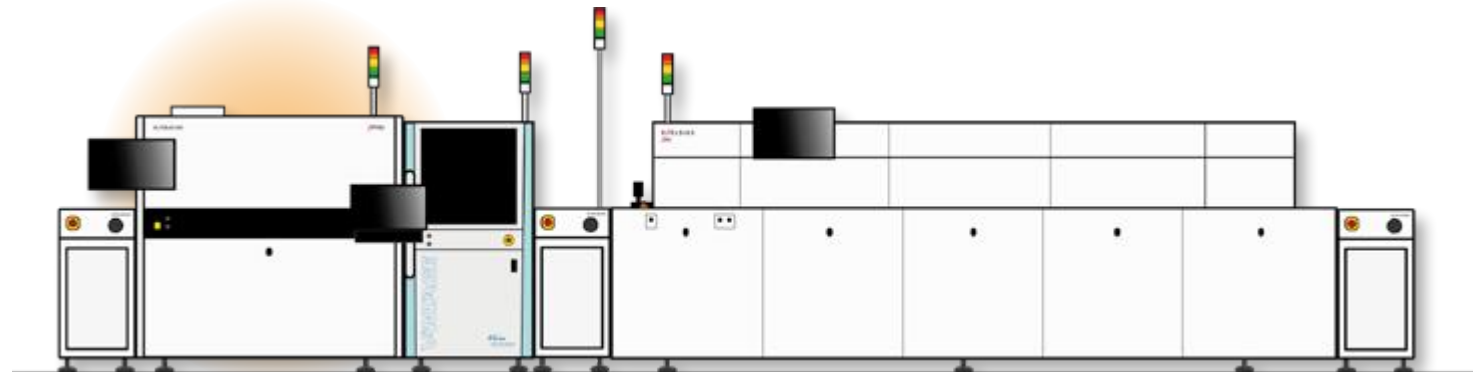
Easy and accessible maintenance

Intuitive HMI developed by EXELSIUS

CONVECTIVE
TECHNOLOGY TO
ENHANCE UNDERFILL
QUALITY

PRECISE TEMPERATURE
CONTROL FOR THE
UNDERFILL PROCESS

FAST TRANSFER TO
DISPENSING EQUIPMENT
WITH NO HEAT LOSS



Preheating before
underfill with the
XPHU oven

Underfill

Curing by forced convection

XPECT

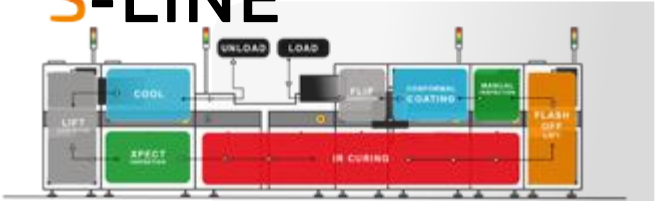
COATING INSPECTION SYSTEM

DEVELOPED BY COATING SPECIALISTS FOR CONFORMAL COATING USERS

Product sheet



S-LINE



The XPECT coating inspection solution can be integrated as an automatic inspection module within the compact S-Line coating line.



ROBUSTNESS, PROCESS AND RESULT RELIABILITY

SMART AND CONNECTED INTERFACE

EFFICIENT AND FUNCTIONAL DESIGN

BUILD FOR WHAT REALLY MATTERS

Robust by design, smart in operation and efficient in every detail, XPECT ensures reliable coating inspection from start to finish. Its coating-focused architecture guarantees accurate and repeatable detection, while smart programming allows setup and review without interrupting production. **Every element has been engineered with purpose, offering intuitive operation, easy maintenance and functional precision.**

Top and top bottom coating inspection

Accurate thickness measurement

Easy and accessible maintenance

Operator risk management (EHS)

Intuitive HMI developed by EXELSIUS



Selective surface activation

Coating

Drying/Curing

Coating inspection system XPECT

BOARD HANDLING SYSTEMS

CONVEYORS transfer, inspection, buffer, shuttle ● Page 26-27

Line **LOADERS** and **UNLOADERS** ● Page 28

PCB **FLIPPERS** and **ORIENTERS** ● Page 29

EGC-300C

SHUTTLE CONVEYOR RANGE



For more information
about our shuttle
conveyor range
CONTACT EXELSIUS

Width adjustment:
manual, semi-automatic or automatic

Control system: Panasonic PLC
(Programmable Logic Controller)

Touchscreen display

Conveying direction:
left to right or right to left

Safety sensor and detection barrier

Variable speed (optional)

Single-segment configuration

Desolventing system (extraction port, safety
vacuostat) with adjustable delay timer

Buffer conveyor | **ESB BUFFER**

BOARD HANDLING SYSTEMS

ESB-BUFFER

BUFFER CONVEYOR RANGE

Integrated transfer segment

Adjustable loading pitch (from 1 to 5)

Integrated rack with independent
motorized belt at each position

Rack-based PCB cooling (optional)

No pusher cylinder system

Width adjustment:
manual, semi-automatic or automatic

Conveying direction:
left to right or right to left

Up to 20 positions with 30 mm pitch



For more information
about our buffer
conveyor range
CONTACT EXELSIUS



ASC-100C

TRANSFER CONVEYOR RANGE



Width adjustment:
manual, semi-automatic or automatic

Conveyor length:
from 500 mm to 3000 mm

Control system: Panasonic PLC
(Programmable Logic Controller)

Single or multi-segment configuration

Conveying direction:
left to right or right to left

Variable speed (optional)



For more information
about our transfer
conveyor range
CONTACT EXELSIUS

ASW-100C

INSPECTION CONVEYOR RANGE



For more information
about our inspection
conveyor range
CONTACT EXELSIUS

Conveyor length:
from 600 mm to 1200 mm

Width adjustment:
manual, semi-automatic or automatic

Operator OK/NOK validation
via push button

Control system: Panasonic PLC
(Programmable Logic Controller)

Adjustable sampling frequency

Conveying direction:
left to right or right to left

Variable speed (optional)

Available in closed version with solvent
extraction for UV inspection



ESL

LINE LOADER RANGE



For more information
about our line
loader range
CONTACT EXELSIUS

Control system: Panasonic PLC
(Programmable Logic Controller)

Up to 3 input racks and 2 output racks

Loading by pusher cylinder

Adjustable loading pitch

Optional T-loader

Touchscreen display

Line unloader | **ESU**

BOARD HANDLING SYSTEMS

Integrated segment for line unloading
and racking

Control system: Panasonic PLC
(Programmable Logic Controller)

Touchscreen display

Conveying direction:
left to right or right to left

Width adjustment:
manual, semi-automatic or automatic

Optional T-loader

Variable speed (optional)

Adjustable loading pitch

ESU

LINE UNLOADER RANGE



For more information
about our line
unloader range
CONTACT EXELSIUS



EIV-180C

PCB FLIPPER RANGE



4 operating modes:
By Pass, Flip Pass, Pass Flip, Flip Flip

Control system: Panasonic PLC
(Programmable Logic Controller)

Width adjustment:
manual, semi-automatic or automatic

Conveying direction:
left to right or right to left

Product thickness up to 6 mm

Variable speed (optional)

Touchscreen display

Desolventing system (extraction port, safety
vacuostat) with adjustable delay timer



For more information
about our PCB
flipper range
CONTACT EXELSIUS

BOARD HANDLING SYSTEMS

ETC | PCB orienter



ETC

PCB ORIENTER RANGE



For more information
about our PCB
orienter range
CONTACT EXELSIUS

Control system: Panasonic PLC
(Programmable Logic Controller)

Width adjustment:
manual, semi-automatic or automatic

Conveying direction:
left to right or right to left

Variable speed (optional)

1-in / 1-out, 1-in / 2-out
configuration options

Good/bad board separation (optional)

Orientation -90°/0°/90°

Desolventing system (extraction port, safety
vacuostat) with adjustable delay timer

LINE CONTROL & TRACEABILITY

IPC CFX CURING AND REFLOW

Page 31

THE STANDARD THAT CONNECTS YOUR EQUIPMENT TO YOUR FACTORY



EXELSIUS SUPPORTS YOU IN
CONFIGURING AND IMPLEMENTING
INTEGRATION WITH YOUR MES



For more information
about IPC CFX
CONTACT EXELSIUS



CURING AND REFLOW

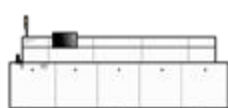
Developed by EXELSIUS



UV CURING



REFLOW



THERMAL CURING



COMPLETE CONFORMAL
COATING LINE BY EXELSIUS



MONITORING AND CONTROL
OF YOUR PRODUCTION

ACCURATE REAL-TIME
TRACEABILITY OF PROCESS
PARAMETERS

SIMPLE AND SCALABLE
INTEGRATION

ENSURE FULL CONTROL OF YOUR EQUIPMENT AND ACCURATE, RELIABLE PRODUCTION TRACEABILITY

With our CFX MES solution, directly integrated into your curing and reflow ovens, every critical data point is automatically transmitted to your MES, making your production more reliable and efficient. Benefit from a global protocol for the electronics industry, designed to describe every machine, action and process involved in PCB manufacturing. Thanks to this standardized protocol, your equipment communicates seamlessly, and your production gains in consistency and reliability.

Line control

Interoperability

Traceability

Quality

Simplified compliance and audits



Process partner for the electronics industry

INSPECTION

COATING

REFLOW DISPENSING

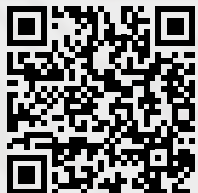
CURING

DRYING PREHEATING BEFORE UNDERFILL

SURFACE ACTIVATION

COMPLETE LINES

BOARD HANDLING SYSTEMS



CONTACT US

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