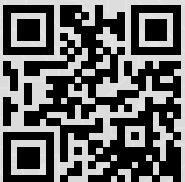




PROCESS PARTNER FOR THE ELECTRONICS INDUSTRY

EQUIPMENT CATALOG



DISCOVER ALL OUR EQUIPMENTS
AND SOLUTIONS ON OUR WEBSITE:

www.exelsius.com

EXELSIUS

PARTNER

ENABLER

INNOVATION

FUTURE

EXELSIUS

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.**

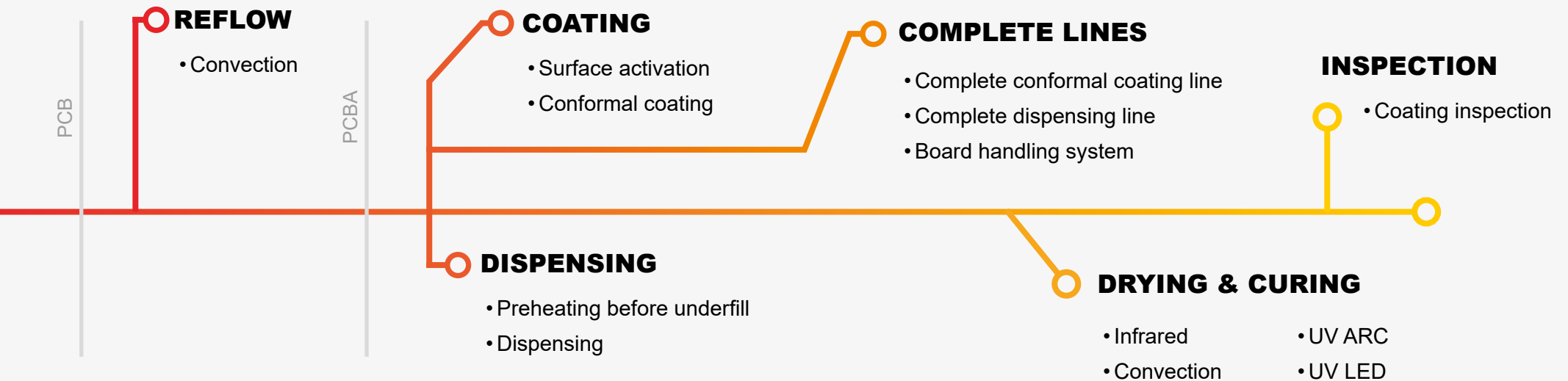
PROCESS

ROBUSTNESS

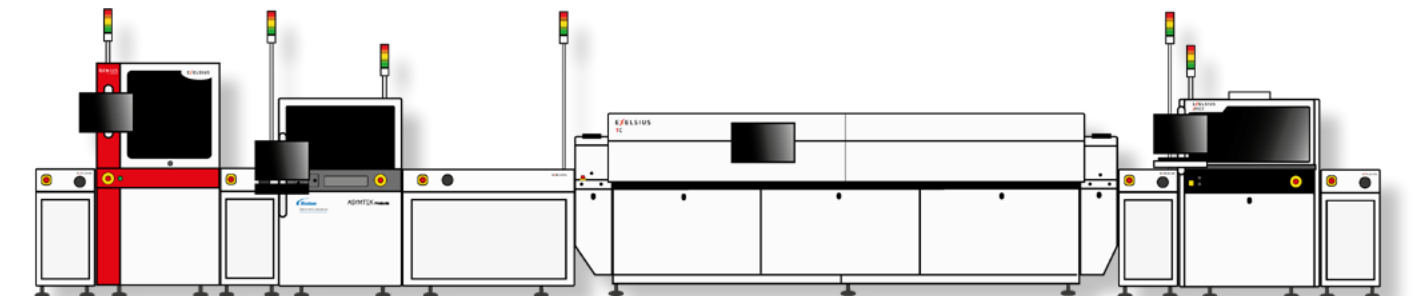
RELIABILITY

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

We support you throughout the entire PCBA production process



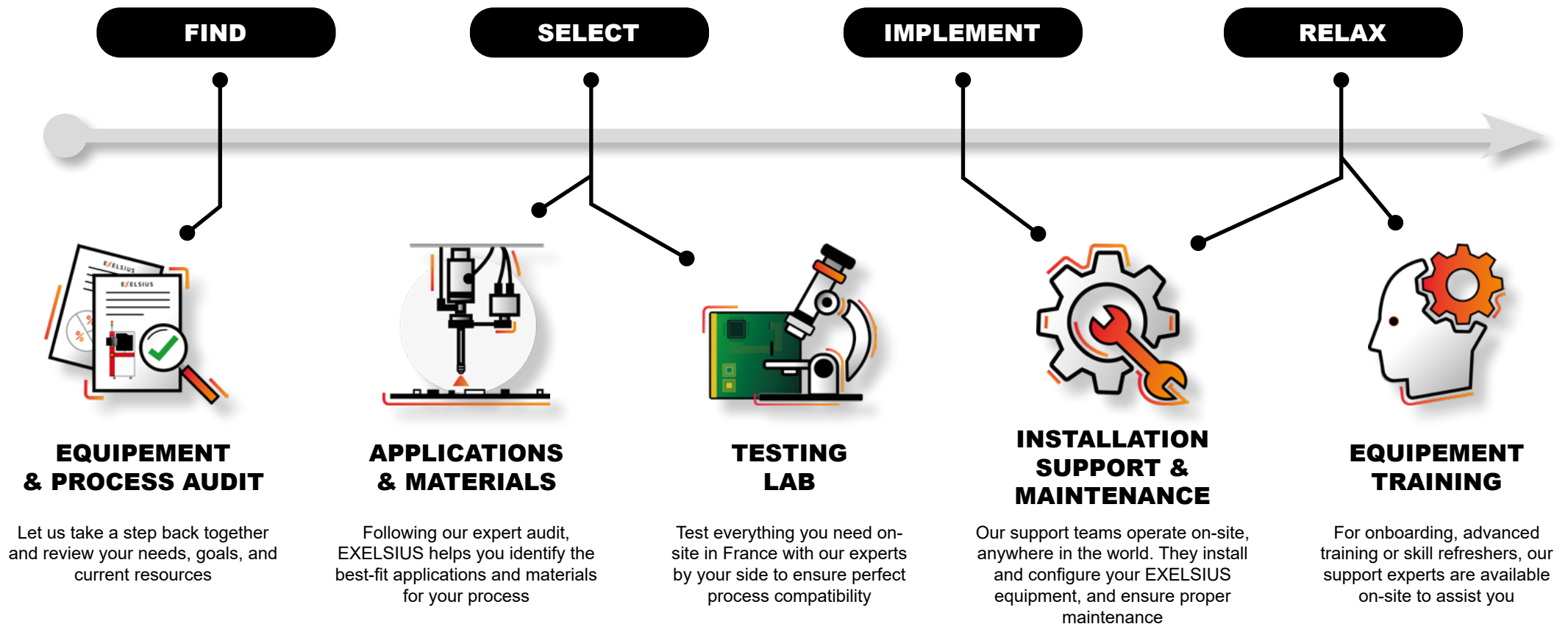
Our teams develop reliable and high-performance solutions designed to meet the demands of the electronics industry.



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

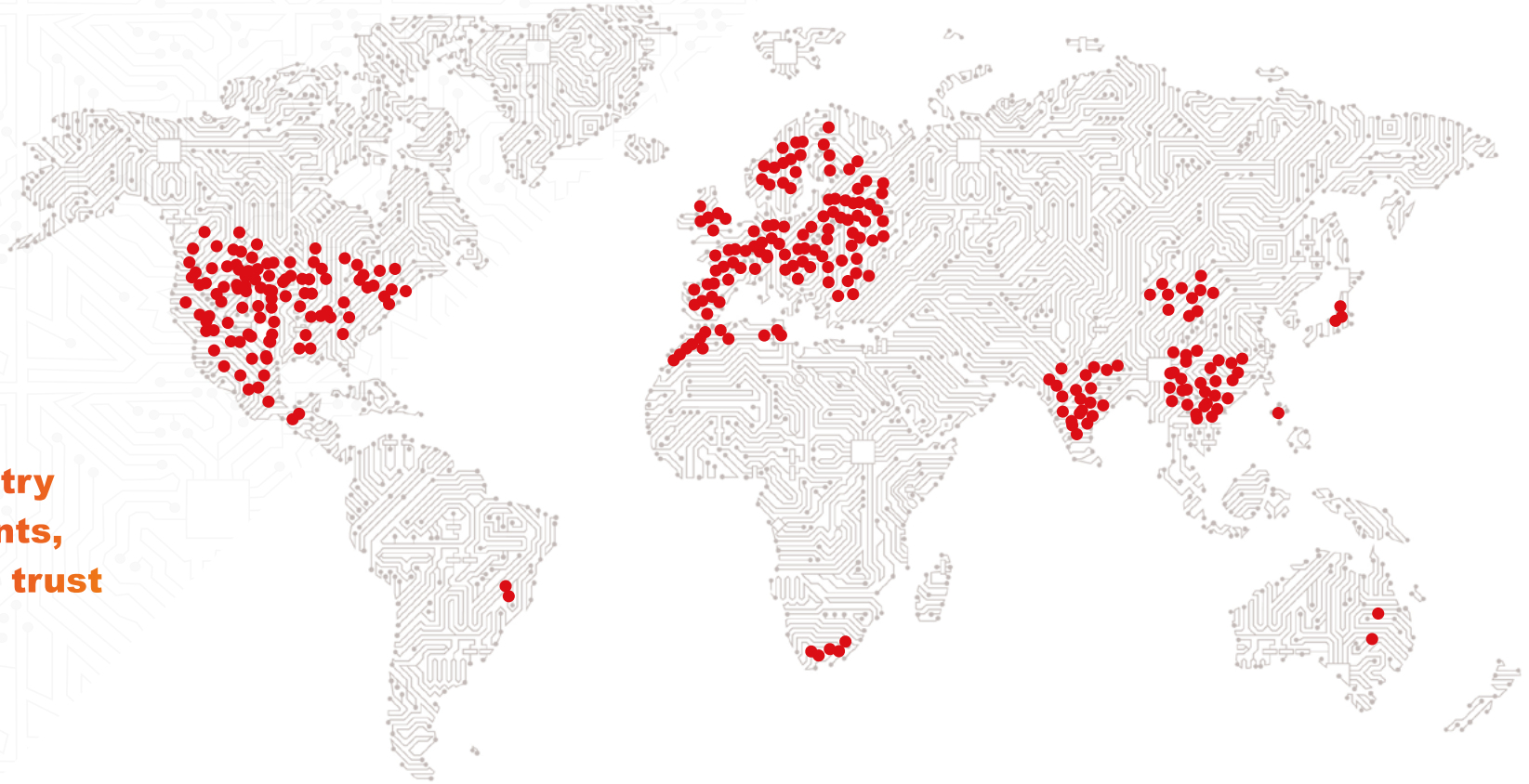
Because we know that choosing means trying, our teams are by your side from day one through to commissioning, wherever you are in the world.

We bring all our expertise to serve your success

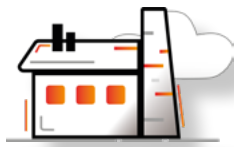


WE ARE GLOBAL !

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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maxtronix, inc.

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- PHILIPPINES

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REFLOW

XRC | Reflow oven

● Page 10

XRC

A COMPLETE RANGE OF REFLOW OVEN



Product sheet



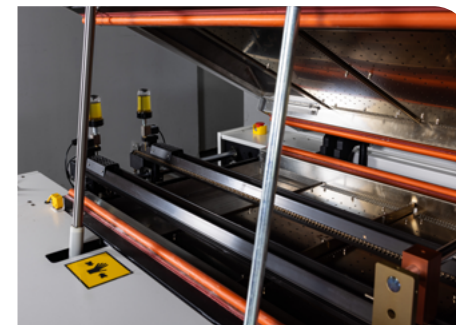
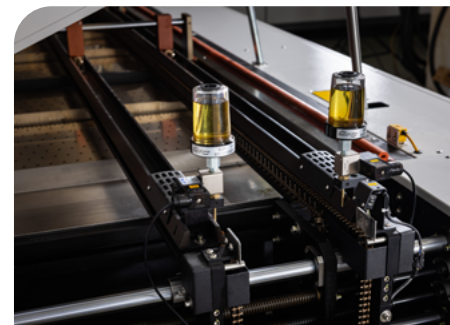
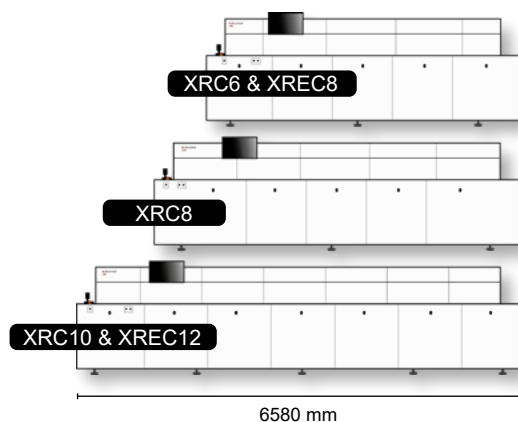
CONVECTION
Technology

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
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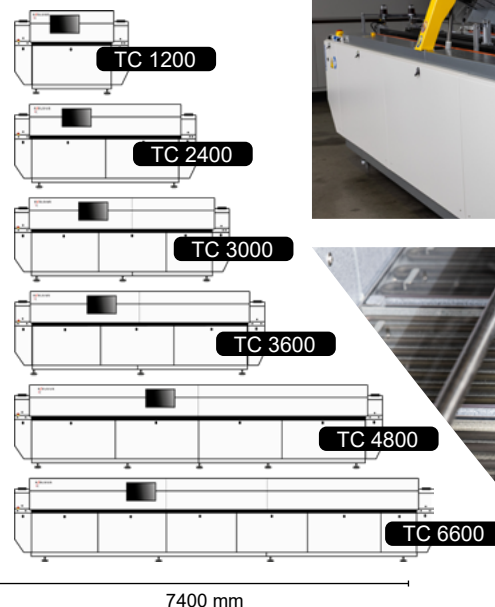
A COMPLETE RANGE OF INFRARED DRYING AND CURING OVEN



Product sheet



INFRARED Technology

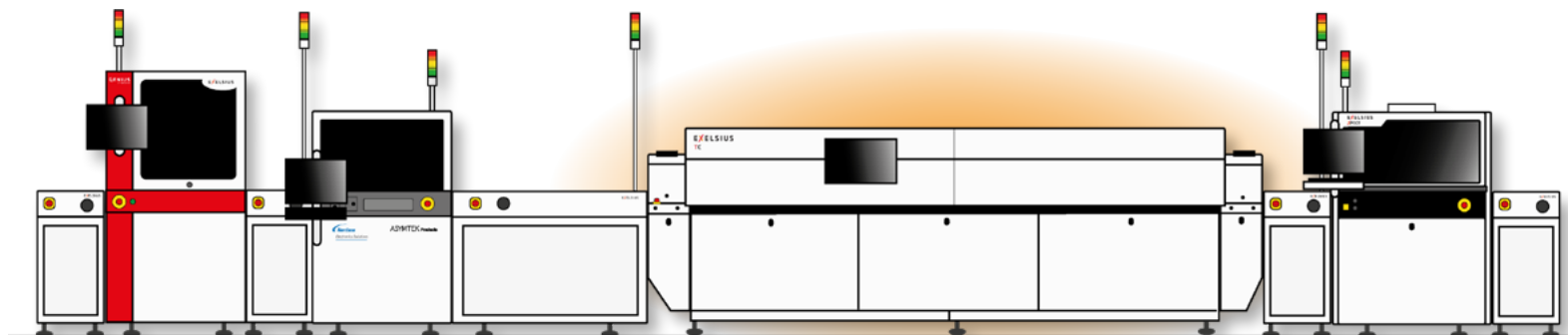


PREVENTION OF BUBBLE DEFECTS DURING DRYING OR CURING

SAFE SOLVENT EVACUATION

MODULE POWER CONTROL FOR ALL TYPES OF THERMAL PROFIL

EXELSUS 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

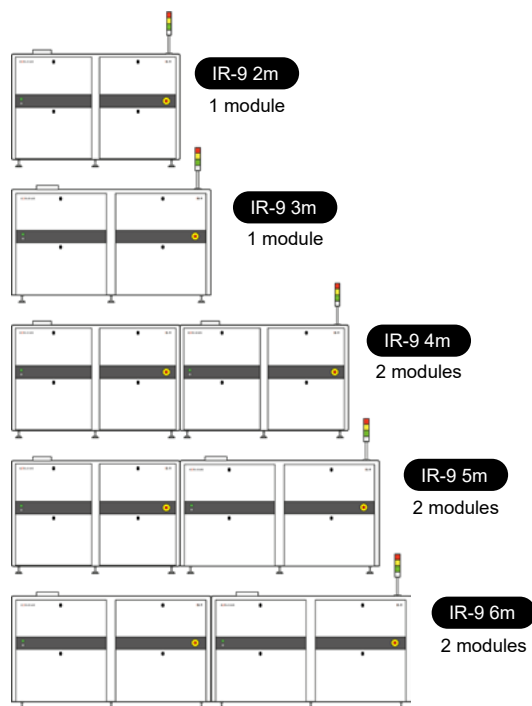
Easy and accessible maintenance

Fast MES integration

Energy efficient

Compliance with the most sensitive components

Operator risk management (EHS)



And many more possibilities
by adding additional modules.

SCALABLE INFRARED CURING OVEN

IR-9

Product sheet



INFRARED
Technology



SCALABLE
ARCHITECTURE AND
MODULAR DESIGN
FOR PROCESS
ADAPTABILITY

TOP/BOTTOM
INFRARED
HEATING ON
RETURN PATH

HIGH-EFFICIENCY
INFRARED CURING

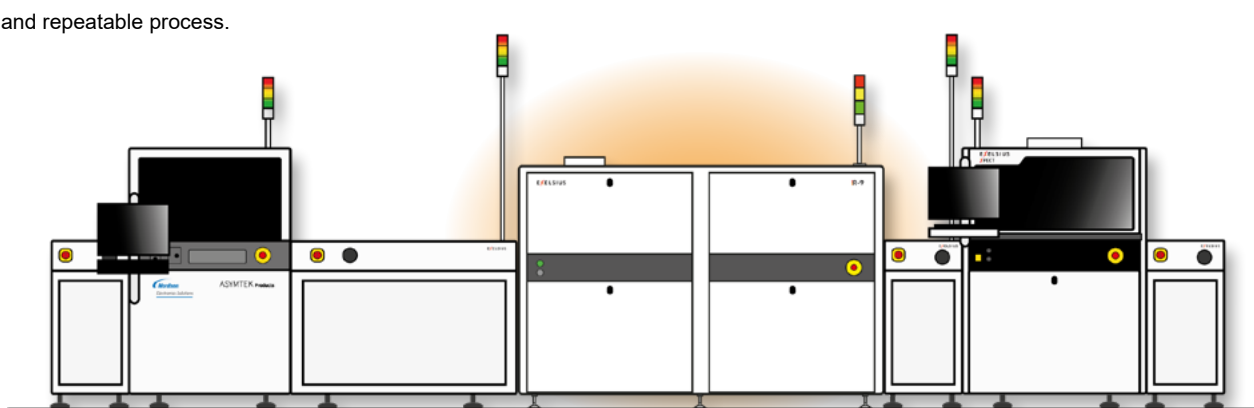
The IR-9 is a scalable and modular infrared curing oven designed to make drying and curing processes simple, flexible and reliable. Easy to set up and operate, its modular architecture adapts to specific production requirements, with additional heating modules available as needed. Combining flexible top/bottom infrared heating, a heated return path and programmable heating zones, the IR-9 provides controlled thermal conditions for a stable and repeatable process.

Easy and accessible maintenance

Fast MES integration

Compliance with the most sensitive components

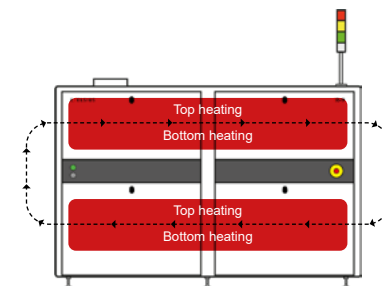
Operator risk management (EHS)



Coating

Infrared curing with the
IR-9 oven without return path

Automatic coating
inspection



IR-9 oven with
top/bottom heating
on return path
(option)

UV-9



UV ARC CURING OVEN

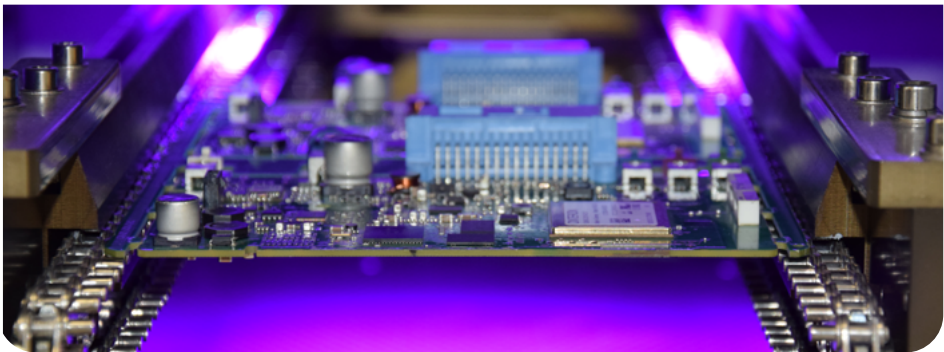


XUV METER

MEASURE,
CONTROL, REPEAT
AND TRUST YOUR
UV PROCESS



UV
MEASUREMENT
DEVICE

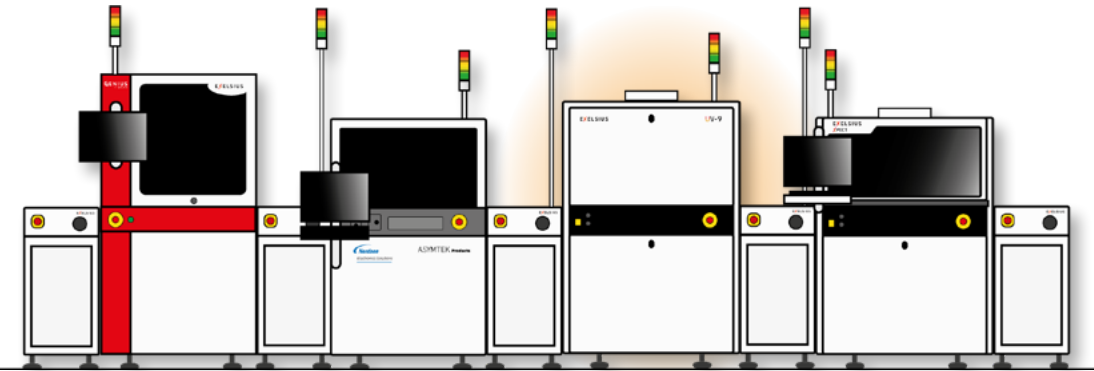


The EXELSIUS UV-9 oven combines **performance and safety** with **medium-pressure UV arc technology**, delivering a wide spectrum for fast and efficient curing. Designed to adapt to all types of UV processes, it features optimized cooling and extraction systems to protect your teams. With extended lamp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

WIDE-SPECTRUM
UV PROCESS

CURING PROCESS
CONTROL AND
TRACEABILITY

DESIGN FOCUS ON
OPERATING COST
OPTIMIZATION



Selective surface
activation

Coating

Curing with the
UV-9 oven

Automatic coating
inspection

EXELSIUS patented control loop

Minimal footprint

Fast MES integration

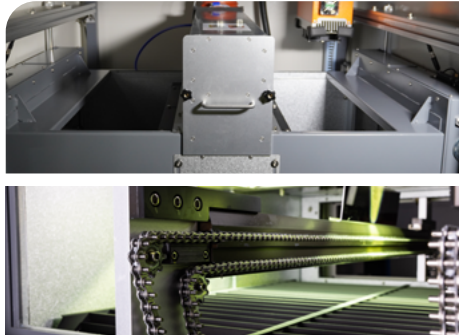
UV-A to UV-C spectrum

Easy and accessible maintenance

Optimized production cycle

Intuitive HMI by EXELSIUS

Operator risk management (EHS)



XUV METER

MEASURE,
CONTROL, REPEAT
AND TRUST YOUR
UV PROCESS



UV
MEASUREMENT
DEVICE



UV-9^{LED}

UV LED
CURING
OVEN

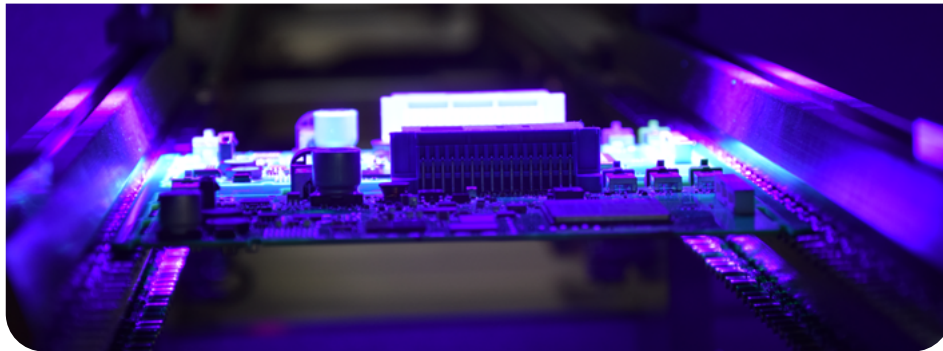


Product sheet



UV LED
Technology

COMPATIBLE
IPC
CFX



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

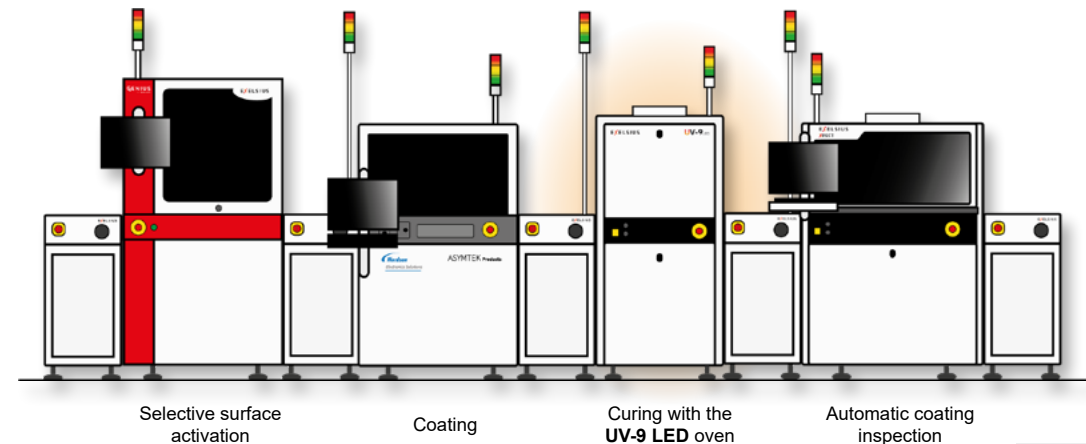
Operator risk management (EHS)

High UV power with low energy consumption

LED CURING PROCESS
WITH UV-A AND UV-C

CURING PROCESS
CONTROL AND
TRACEABILITY

DESIGN FOCUS ON
OPERATING COST
OPTIMIZATION



XPC CONVECTION CURING OVEN

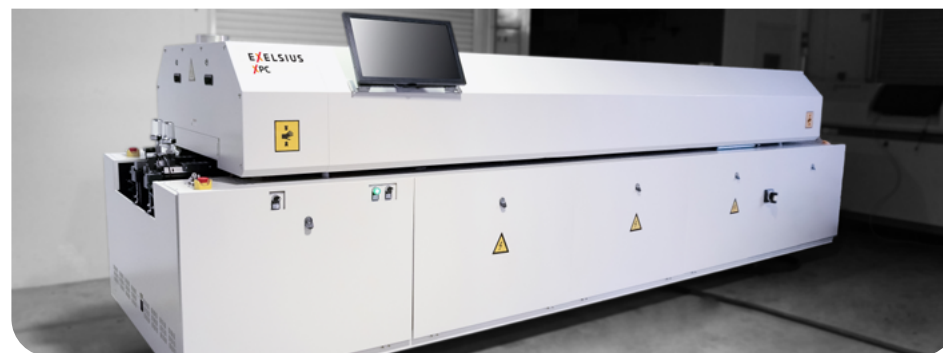
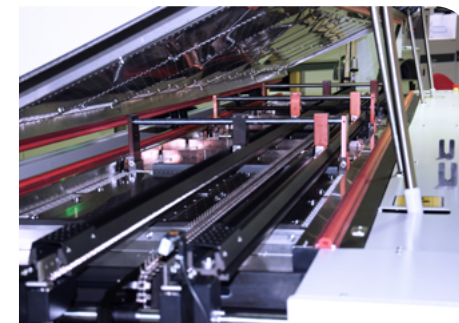


Product sheet



CONVECTION Technology

COMPATIBLE
IPC
CFX

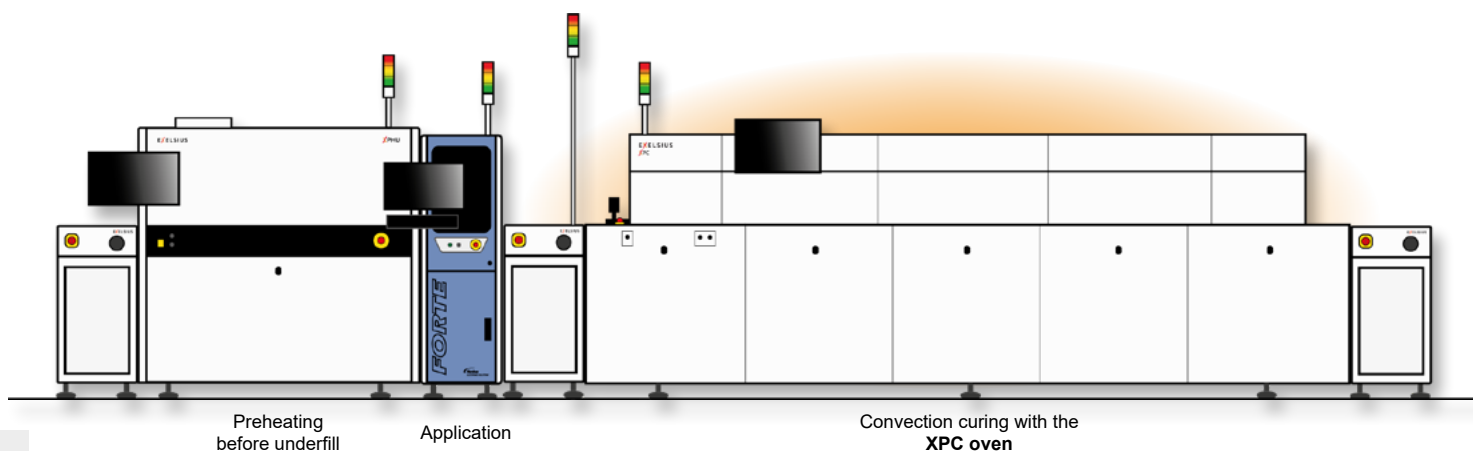


THERMAL CONTROL
FOR CONSISTENT AND
RELIABLE CURING

COMPLIANCE WITH
THE MOST SENSITIVE
COMPONENTS

MODULARITY FOR A
PROCESS TAILORED TO
YOUR APPLICATION NEEDS

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

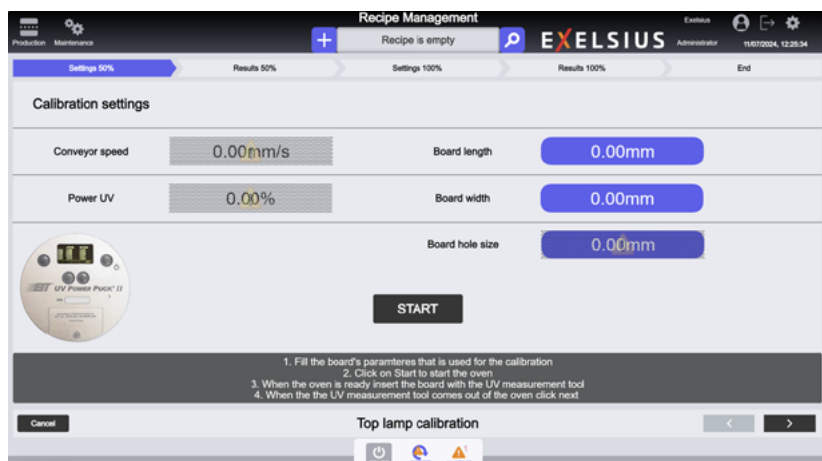
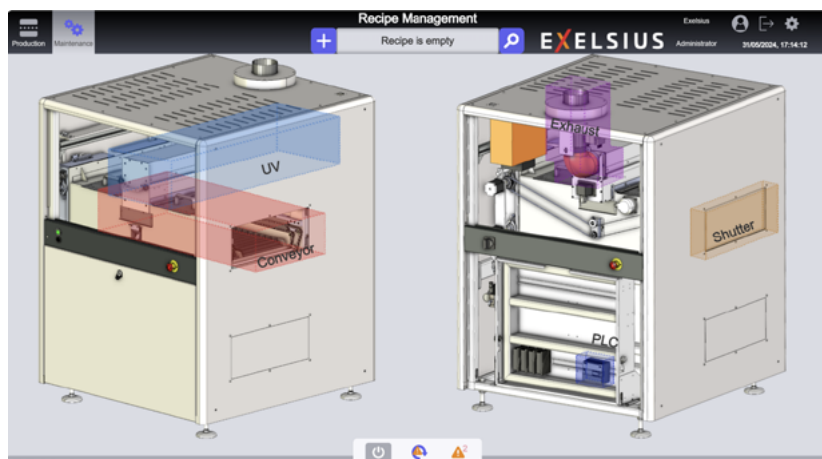
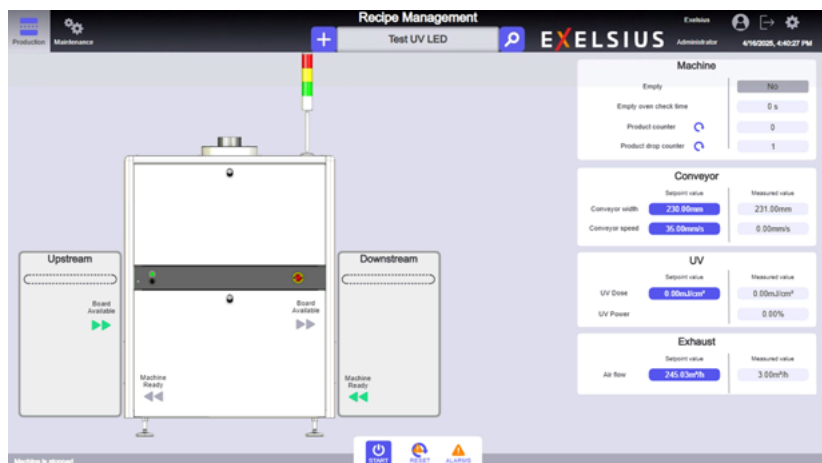
Custom design tailored to your process

Fast MES integration

Up to 4 conveyor lanes

Easy and accessible maintenance

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

MODULAR CONFORMAL COATING | DISPENSING LINES

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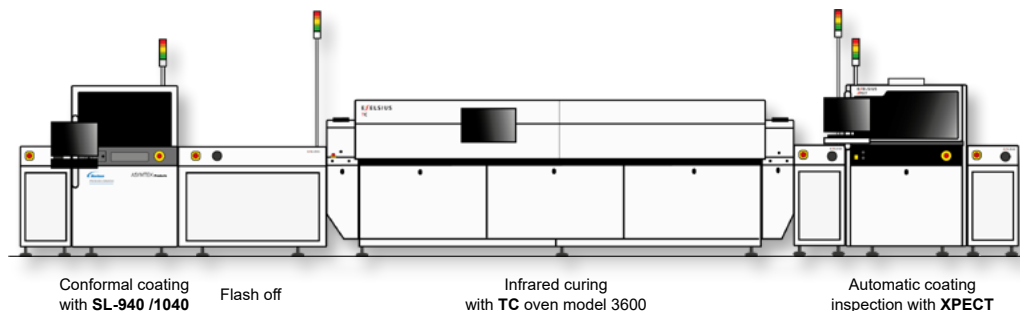
S-LINE | Compact conformal coating line

● Page 20-21

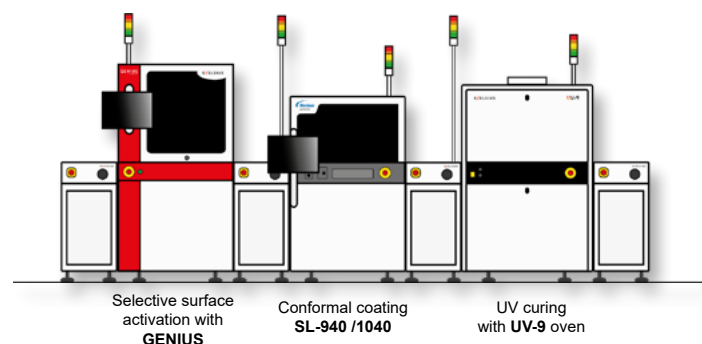
COATING/
DISPENSING

UV ARC OU LED
TechnologyCONVECTION
Technology

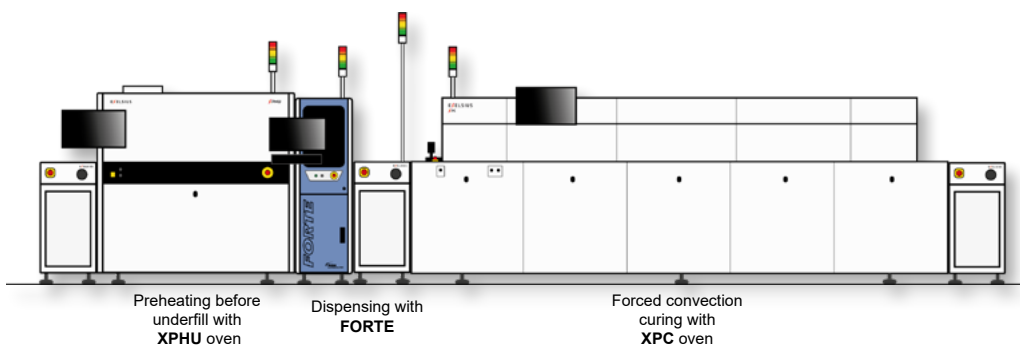
Product sheet

ATMOSPHERIC
PLASMA
TechnologyINFRARED
Technology

Example of a complete conformal coating line infrared technology



Example of a complete conformal coating line UV technology



Example of a complete dispensing line

MODULAR CONFORMAL COATING | DISPENSING LINES



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

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.

S-LINE

THE MOST COMPACT CONFORMAL COATING LINE ON THE MARKET

Product sheet



INFRARED
Technology

COATING
Nordson
Electronics Solutions

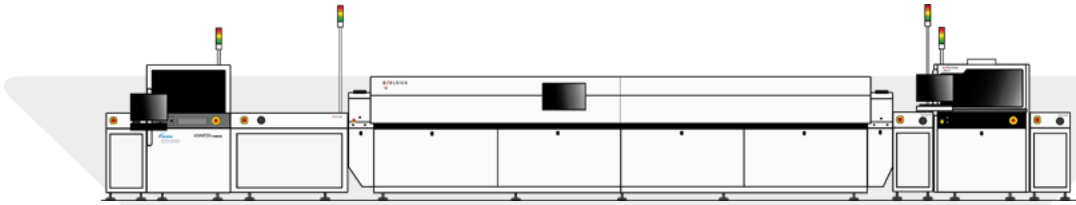
COMPATIBLE
IPC
CFX



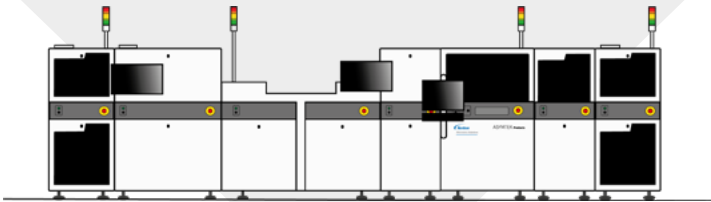
RETURN-PATH PROCESS
FOR UP TO 50%
FOOTPRINT REDUCTION

SINGLE-OPERATOR
LINE CONTROL (OMO)

UNIFIED
SUPERVISION SCREEN
(NEXUS X by EXELSIUS)



Standard infrared coating line



S-Line coating line

- Innovative and compact design
- Modular configuration tailored to your production needs
- Intuitive HMI developed by EXELSIUS
- Controlled energy consumption

YOU SAVE VALUABLE FLOOR SPACE

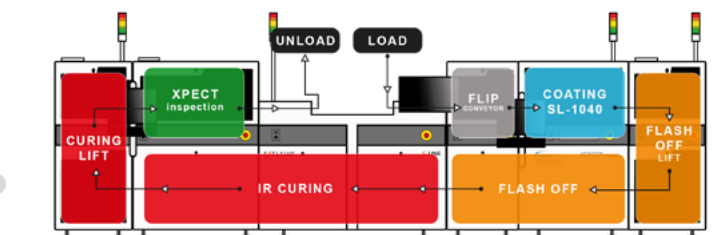
REDUCE YOUR FOOTPRINT BY UP TO 50%

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**.

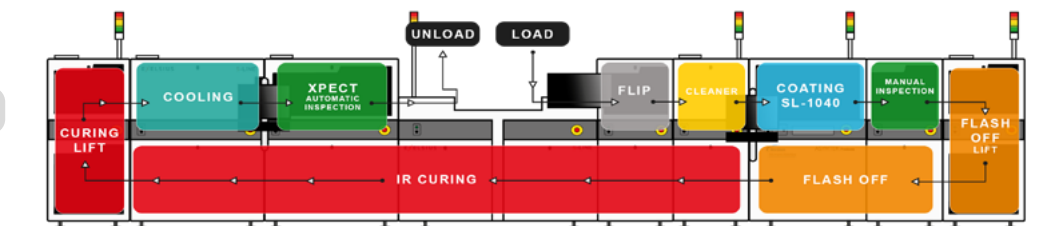
Single-operator control enhances throughput and **reduces labor costs**, while the line's optimized extraction system **ensures lower energy consumption**.

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.

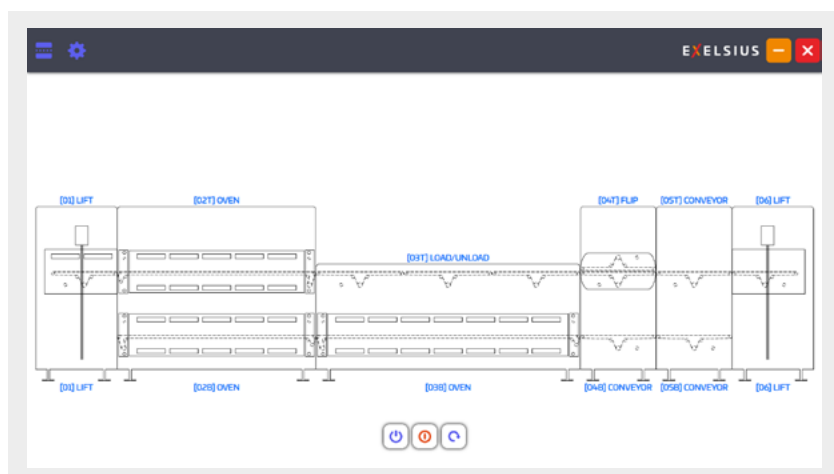
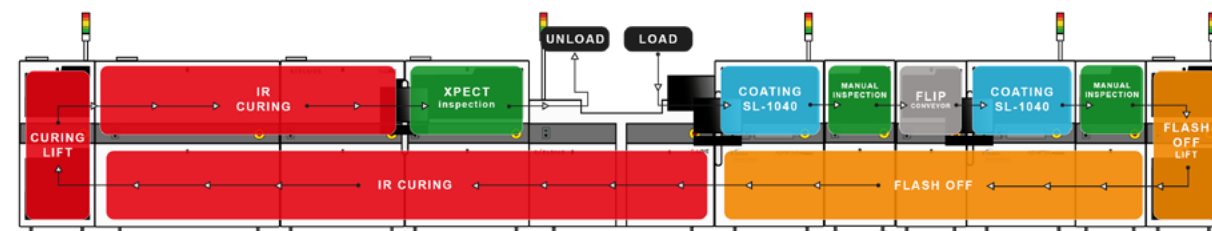
LOW CAPACITY



MEDIUM CAPACITY



HIGH CAPACITY



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.

COATING | DISPENSING | INSPECTION

GENIUS | Selective surface activation

● Page 23

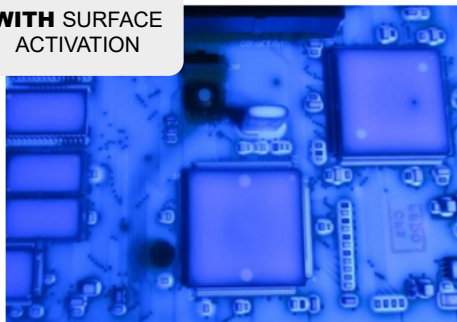
XPECT | Coating inspection system

● Page 24

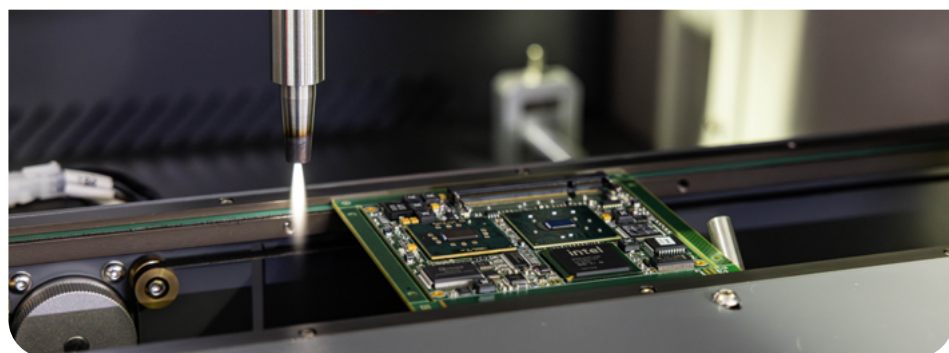
XPHU | Preheating oven before underfil

● Page 25

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

GENIUS

Product sheet



ATMOSPHERIQUE
PLASMA
Technology

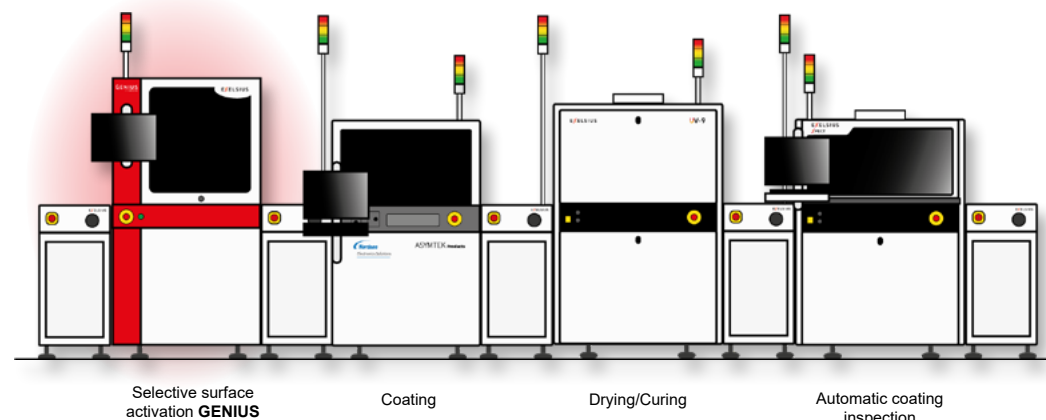
PLASMA ACTIVATION: A MUST HAVE FOR QUALITY



IMPROVED WETTABILITY
AND ADHESION

AUTOMATIC PATH
PROGRAMMING

SELECTIVE ACTIVATION
ENSURING THE PHYSICAL
AND ELECTRICAL
INTEGRITY OF
COMPONENTS



XPECT



COATING INSPECTION SYSTEM

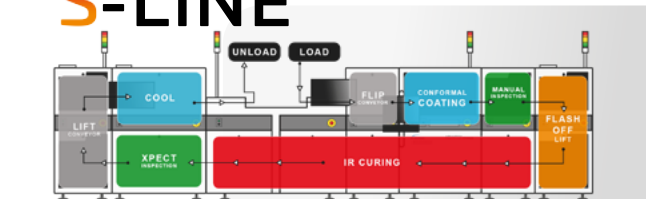
DEVELOPED BY COATING SPECIALISTS FOR CONFORMAL COATING USERS

Product sheet

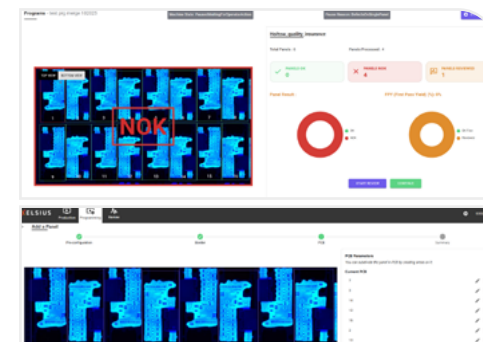


COMPATIBLE
IPC
CFX

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.**

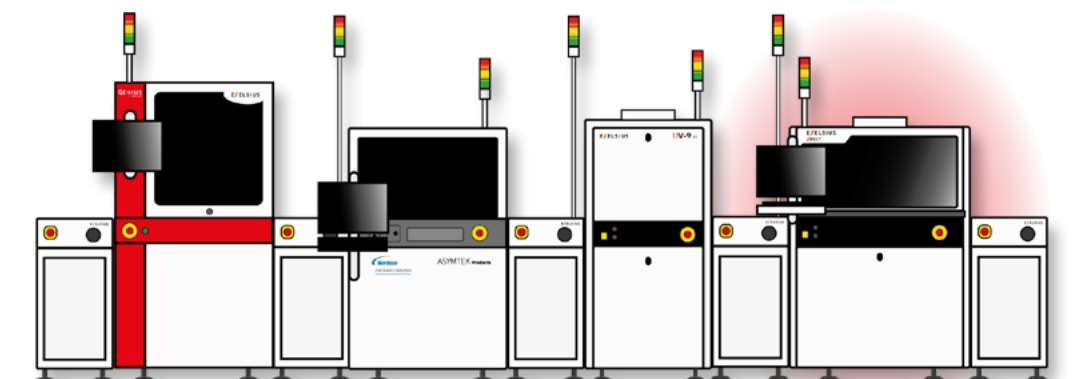
Top and top bottom coating inspection

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



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

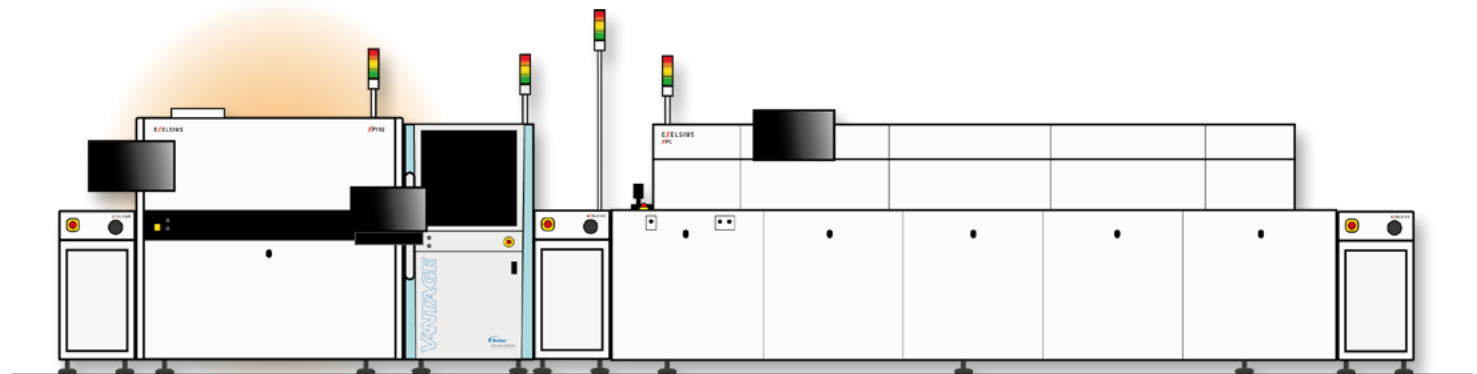
Easy and accessible maintenance

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

BOARD HANDLING SYSTEMS

CONVEYORS transfer, inspection, buffer, shuttle

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PCB FLIPPERS and **ORIENTERS**

● Page 29

Line **LOADERS** and **UNLOADERS**

● Page 30

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

BOARD HANDLING SYSTEMS

ASW-100C | Inspection conveyor

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

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



EIV-180C

PCB FLIPPER RANGE



For more information
about our PCB
flipper range
CONTACT EXELSIUS

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

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



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



LINE CONTROL & TRACEABILITY

IPC CFX CURING AND REFLOW

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IPC[®] CFX

CURING AND REFLOW

Developed by EXELSIUS



For more information
about IPC CFX
CONTACT EXELSIUS

MONITORING AND CONTROL
OF YOUR PRODUCTION

ACCURATE REAL-TIME
TRACEABILITY OF PROCESS
PARAMETERS

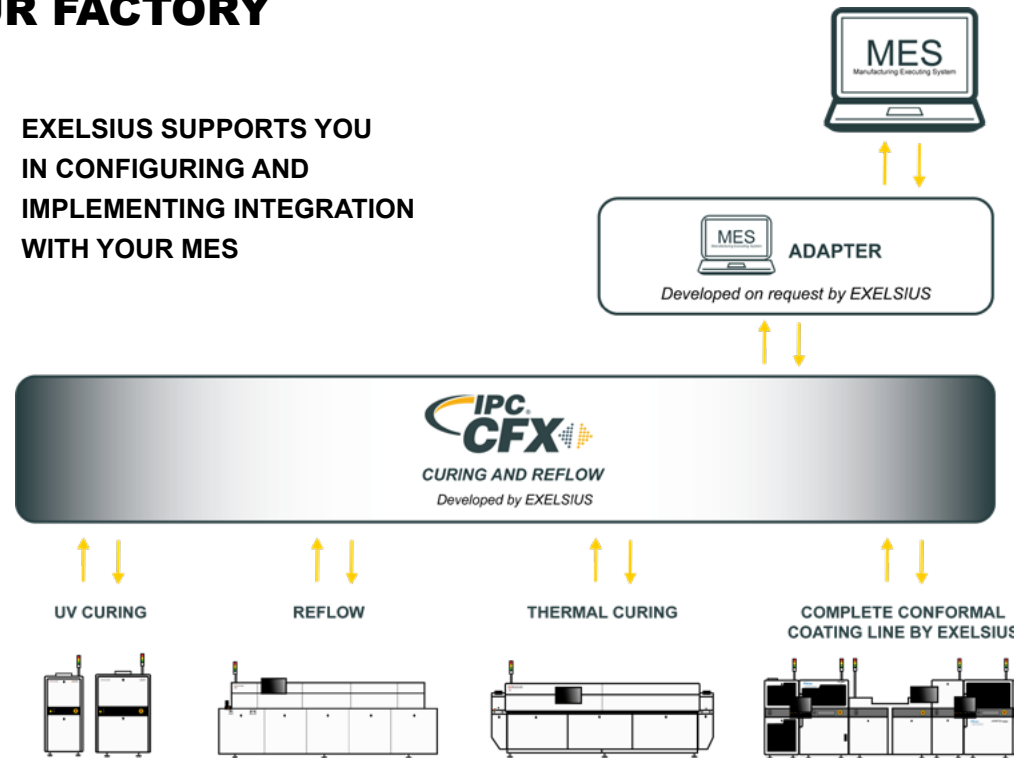
SIMPLE AND SCALABLE
INTEGRATION

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.

THE STANDARD THAT CONNECTS YOUR EQUIPMENT TO YOUR FACTORY

EXELSIUS SUPPORTS YOU
IN CONFIGURING AND
IMPLEMENTING INTEGRATION
WITH YOUR MES



Line control

Interoperability

Traceability

Quality

Simplified compliance and audits

EXELSUS



PROCESS PARTNER FOR THE ELECTRONICS INDUSTRY

INSPECTION

COATING

REFLOW

DISPENSING

CURING

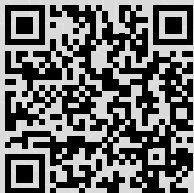
DRYING

PREHEATING BEFORE
UNDERFILL

SURFACE
ACTIVATION

COMPLETE LINES

BOARD HANDLING SYSTEMS



CONTACT US

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