EXELSIUS

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

PCB

PCBA

REFLOW
- Convection

COATING
- Surface activation
- Conformal coating

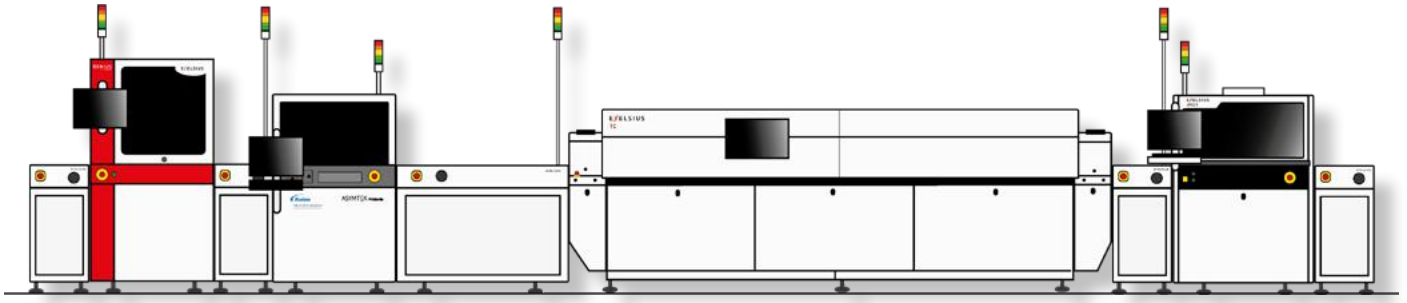
COMPLETE LINES
- Complete conformal coating line
- Complete dispensing line
- Board handling system

INSPECTION
- Coating inspection

DISPENSING
- Preheating before underfill
- Dispensing

DRYING & CURING
- Infrared
- Convection
- UV ARC
- UV LED

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

FIND | **SELECT** | **IMPLEMENT** | **RELAX**



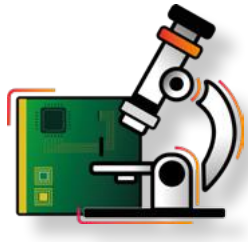
EQUIPEMENT & PROCESS AUDIT

Let us take a step back together and review your needs, goals, and current resources



APPLICATIONS & MATERIALS

Following our expert audit, EXELSIUS helps you identify the best-fit applications and materials for your process



TESTING LAB

Test everything you need on-site in France with our experts by your side to ensure perfect process compatibility



INSTALLATION SUPPORT & MAINTENANCE

Our support teams operate on-site, anywhere in the world. They install and configure your EXELSIUS equipment, and ensure proper maintenance



EQUIPEMENT TRAINING

For onboarding, advanced training or skill refreshers, our support experts are available on-site to assist you

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 YOUR ARE IN THE WORLD

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- INDIA
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maxtronix, inc.

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- PHILIPPINES

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REFLOW

XRC

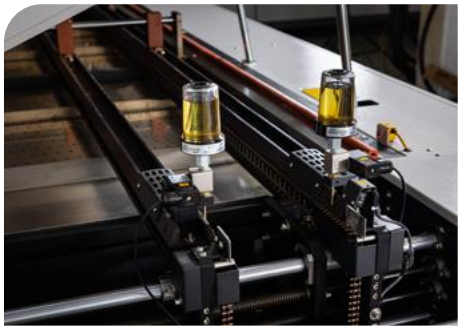
A COMPLETE RANGE OF REFLOW OVEN

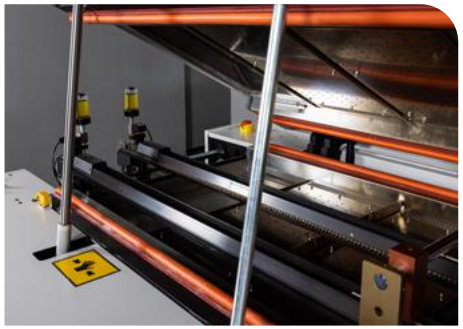


Product sheet

CONVECTION Technology

COMPATIBLE IPC CFX





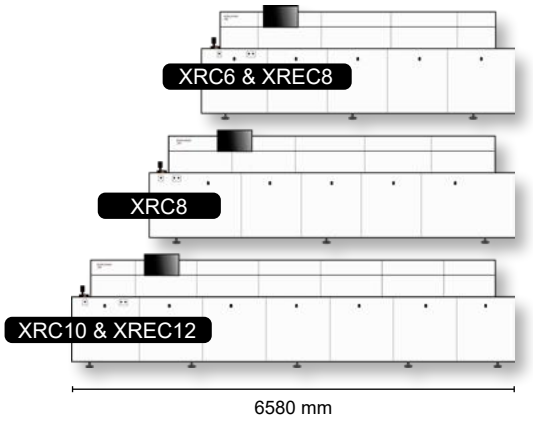


THERMAL CONTROL FOR **PROCESS FLEXIBILITY** AND **ADAPTABILITY**

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**

IR-9 | Scalable infrared curing oven — **Page 13**

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UV-9 LED MULTIWAVE | UV-A and UV-C LED curing oven — **Page 16**

XPC | Convection curing oven — **Page 17**

TC

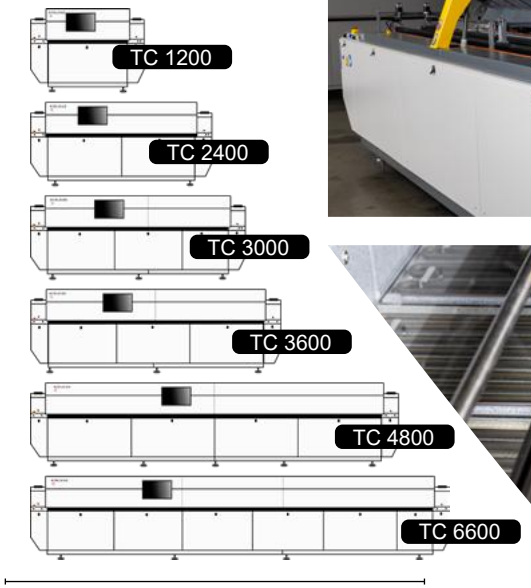
A COMPLETE RANGE OF INFRARED DYRING AND CURING OVEN



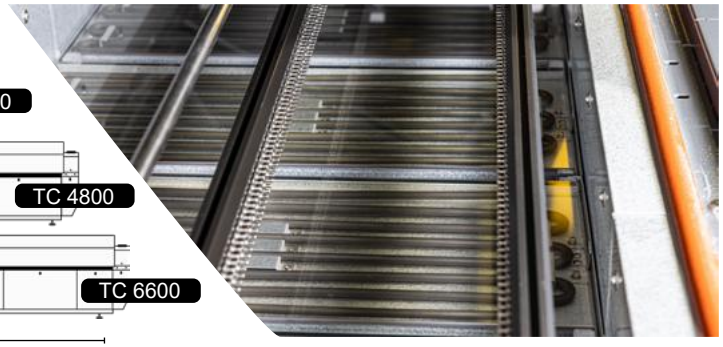
Product sheet

INFRARED Technology

COMPATIBLE IPC CFX





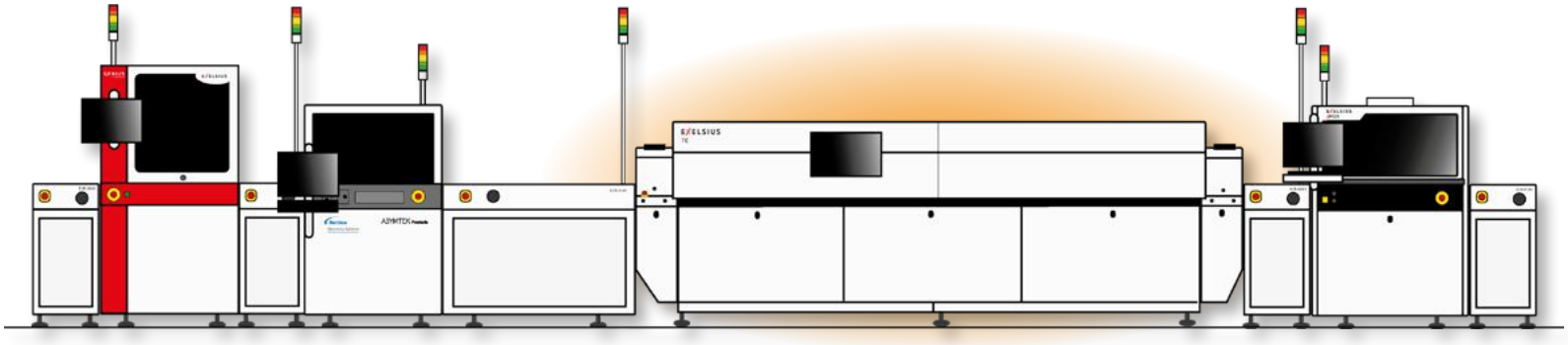


PREVENTION OF BUBBLE DEFECTS DURING DRYING OR CURING

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

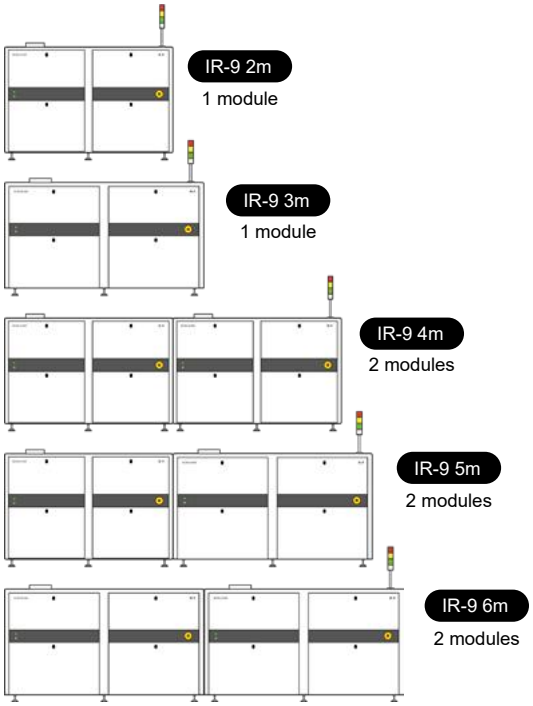
Energy efficient

Compliance with the most sensitive components

Operator risk management (EHS)







And many more possibilities by adding additional modules.

SCALABLE INFRARED CURING OVEN IR-9

Product sheet

INFRARED Technology

COMPATIBLE IPC CFX



SCALABLE ARCHITECTURE AND MODULAR DESIGN FOR PROCESS ADAPTABILITY

TOP/BOTTOM INFRARED HEATING ON RETURN PATH

HIGH-EFFICIENCY INFRARED CURING

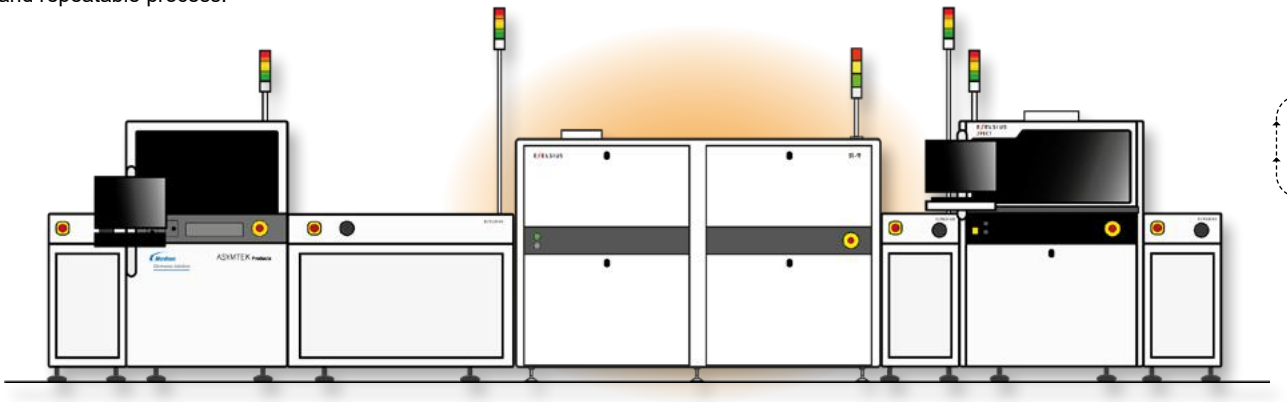
The IR-9 is a scalable and modular infrared curing oven designed to make drying and curing processes simple, flexible and reliable. Easy to set up and operate, its modular architecture adapts to specific production requirements, with additional heating modules available as needed. Combining flexible 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

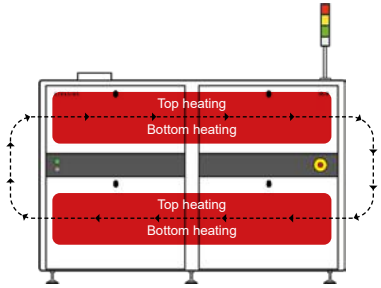
Operator risk management (EHS)



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

Product sheet

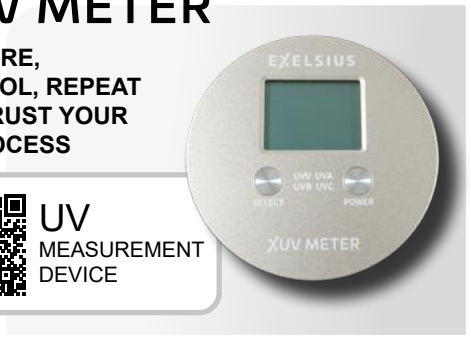
UV ARC Technology

COMPATIBLE IPC CFX

XUV METER

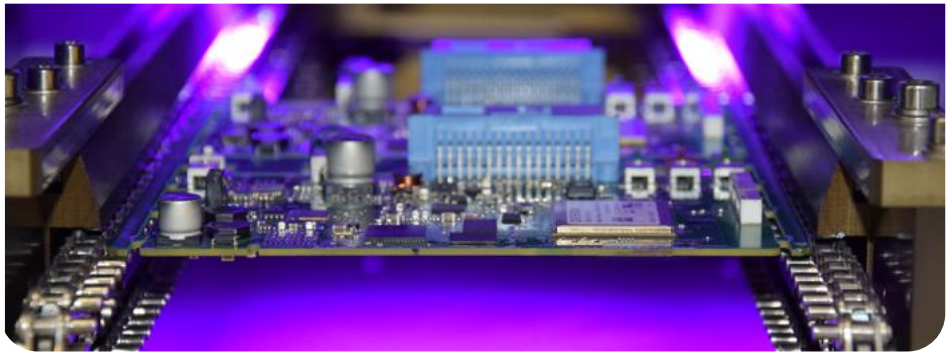
MEASURE, CONTROL, REPEAT AND TRUST YOUR UV PROCESS

UV MEASUREMENT DEVICE







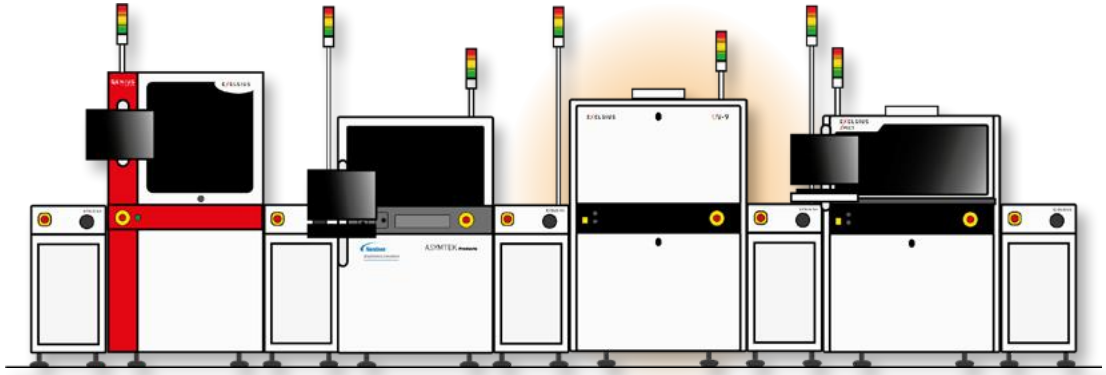


WIDE-SPECTRUM UV PROCESS

CURING PROCESS CONTROL AND TRACEABILITY

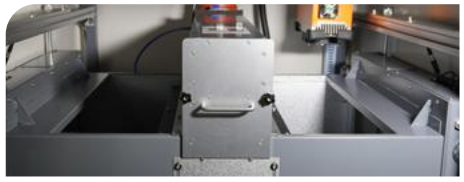
DESIGN FOCUS ON OPERATING COST OPTIMIZATION

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)**





XUV METER

MEASURE, CONTROL, REPEAT AND TRUST YOUR UV PROCESS



UV MEASUREMENT DEVICE

UV-9 LED

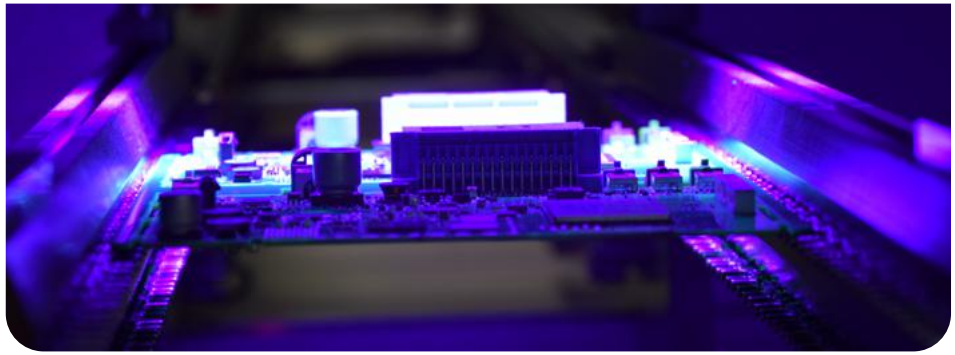
Product sheet

UV LED Technology

COMPATIBLE IPC CFX

UV LED CURING OVEN





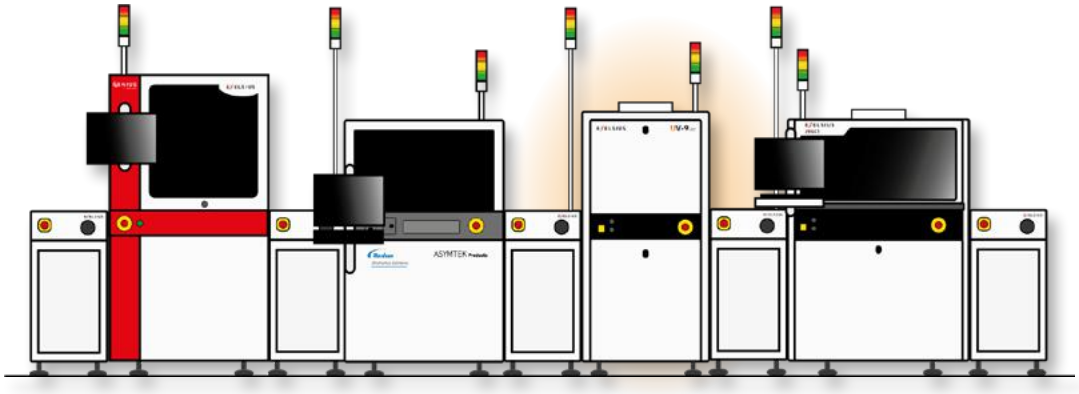
The UV-9 LED oven is the ideal solution for **fast, uniform and reliable UV LED curing** of conformal coatings on PCBAs. Its **compact design** integrates easily into your production lines, boosting performance while **minimizing footprint**. Engineered to support your growth, **it adapts to evolving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

LED CURING PROCESS WITH UV-A AND UV-C

CURING PROCESS CONTROL AND TRACEABILITY

DESIGN FOCUS ON OPERATING COST OPTIMIZATION

- **EXELSIUS patented control loop**
- **Minimal footprint:** the most compact oven on the market
- **Fast MES integration**
- **UV-A and UV-C spectrum**
- **Easy and accessible maintenance**
- **Operator risk management (EHS)**
- **Intuitive HMI by EXELSIUS**
- **High UV power with low energy consumption**



Selective surface activation | Coating | Curing with the **UV-9 LED** oven | Automatic coating inspection

UV-9 LED MULTIWAVE



UV-A AND UV-C LED CURING OVEN

Product sheet

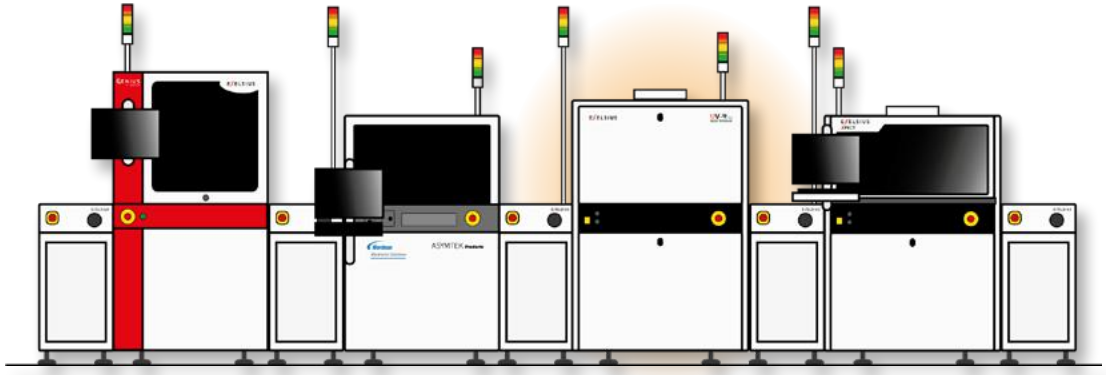
UV LED Technology

COMPATIBLE IPC CFX

INDEPENDENT MULTI WAVELENGHT CONTROL FOR MAXIMUM PROCESS FLEXIBILITY

CLOSED LOOP CONTROL FOR STABLE AND TRACEABLE UV PERFORMANCE

LED TECHNOLOGY FOR DURABLE AND HIGH PERFORMANCE CURING

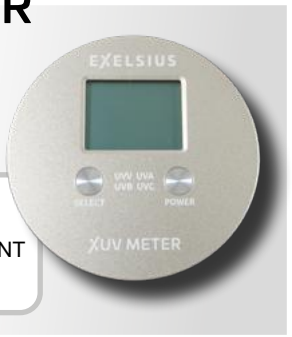


Selective surface activation | Coating | Curing with the **UV-9 LED MULTIWAVE** oven | Automatic coating inspection

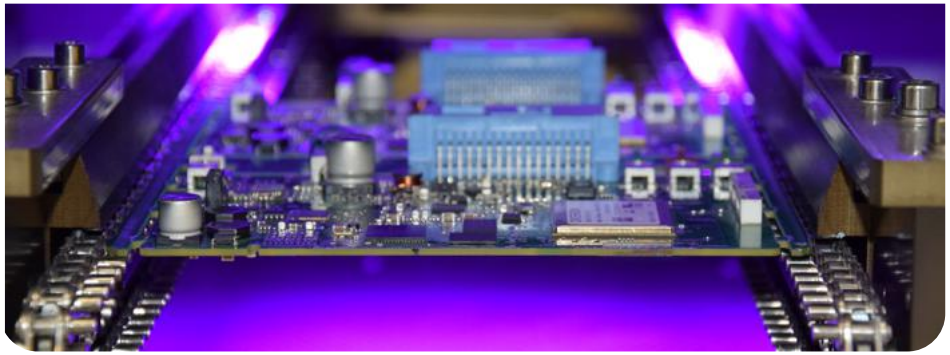
XUV METER

MEASURE, CONTROL, REPEAT AND TRUST YOUR UV PROCESS

UV MEASUREMENT DEVICE







Design for high demand electronics manufacturing environments, the UV-9 LED Multiwave combines power, spectral flexibility and secure process control. Master three independently controlled UV wavelenghts within a single mercury free architecture. By **combining high intensity LED UV-A with LED UV-C in one module,** it enables precise activation of photo initiators, optimized surface and depth crosslinking, extending compatibility with the most demanding industrial formulations.

EXELSIUS patented control loop

UV-A and UV-C spectrum

Fast MES integration

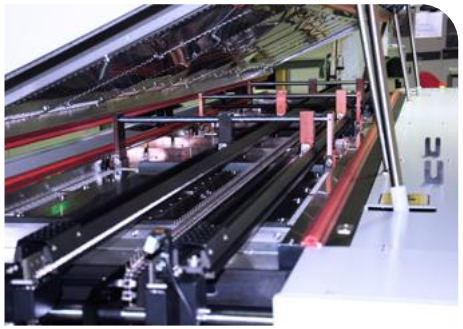
Optimized production cycle

Easy and accessible maintenance

Operator risk management (EHS)

Intuitive HMI by EXELSIUS







CONVECTION CURING OVEN

XPC

Product sheet

CONVECTION Technology

COMPATIBLE IPC CFX



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.

THERMAL CONTROL FOR **CONSISTENT AND RELIABLE CURING**

COMPLIANCE WITH THE MOST SENSITIVE COMPONENTS

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

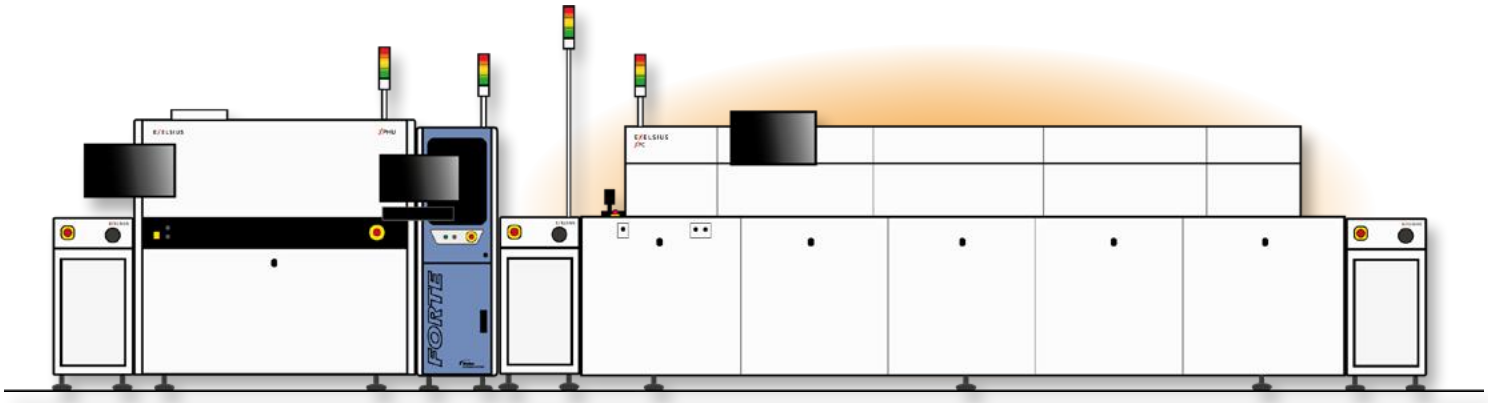
Designed for curing the most demanding applications:
underfill, glob top, SMA, dam and fill, potting, TIM

Custom design tailored to your process

Fast MES integration

Up to 4 conveyor lanes

Easy and accessible maintenance



Preheating before underfill

Application

Convection curing with the **XPC oven**

USER INTERFACE
OF EXELSIUS OVEN

INTUITIVE AND EASY TO USE

PROACTIVE ERROR DETECTION

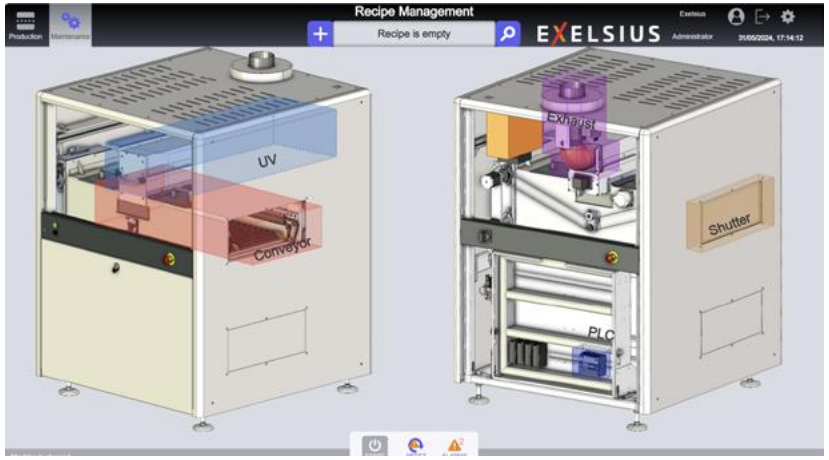
BUILT-IN SAFETY FEATURES

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 20-21**

MODULAR CONFORMAL COATING | DISPENSING LINES — **Page 22**

S-LINE

THE MOST COMPACT CONFORMAL COATING LINE ON THE MARKET

Product sheet

INFRARED Technology

COATING Nordson Electronics Solutions

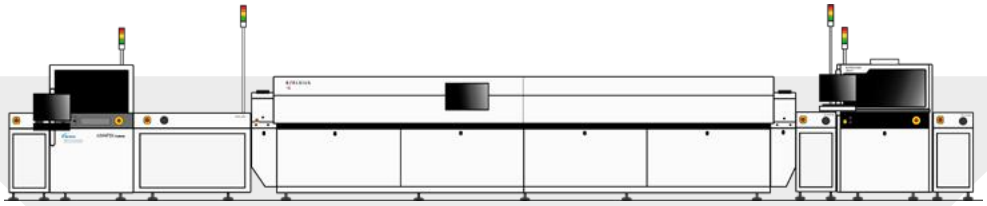
COMPATIBLE IPC CFX



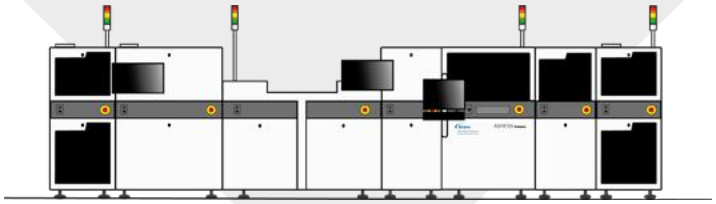
RETURN-PATH PROCESS FOR UP TO 50% FOOTPRINT REDUCTION

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%

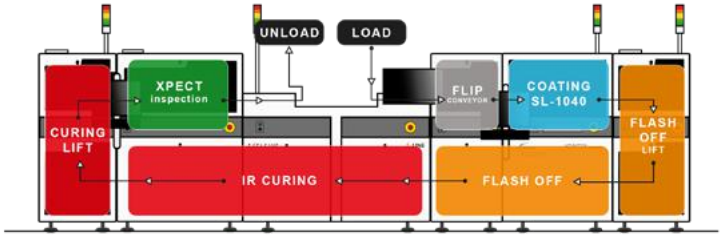
The S-Line conformal coating line is set to transform your production flow by optimizing both floor space and operational efficiency. Thanks to its unique design, each step of the coating process is arranged within the upper and lower sections of the line, **cutting footprint by up to 50 percent.**

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

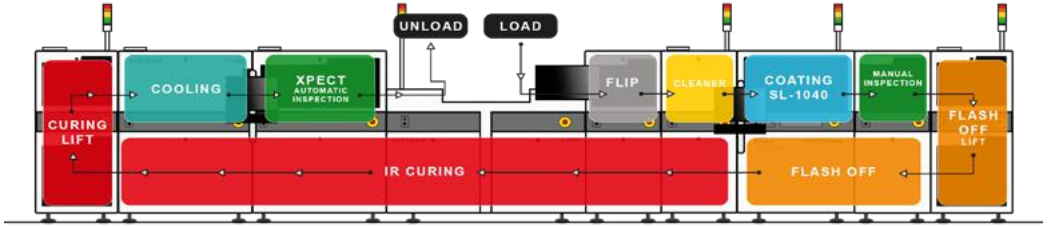
Fully modular, the S-Line adapts to your production needs, whether for **small, medium or high volumes.** Choose a solution designed to boost your competitiveness and meet the demands of your market.

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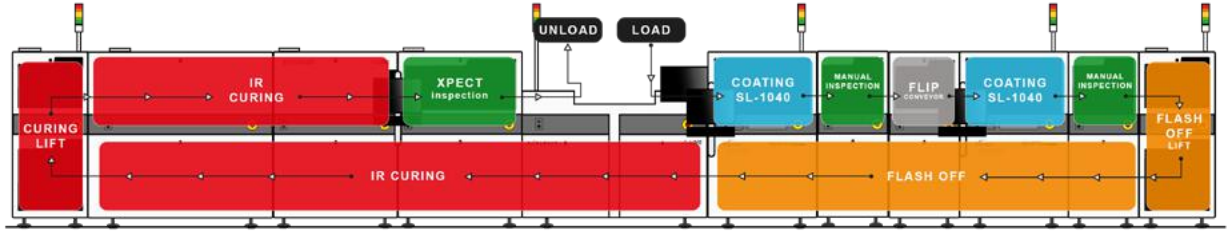
LOW CAPACITY

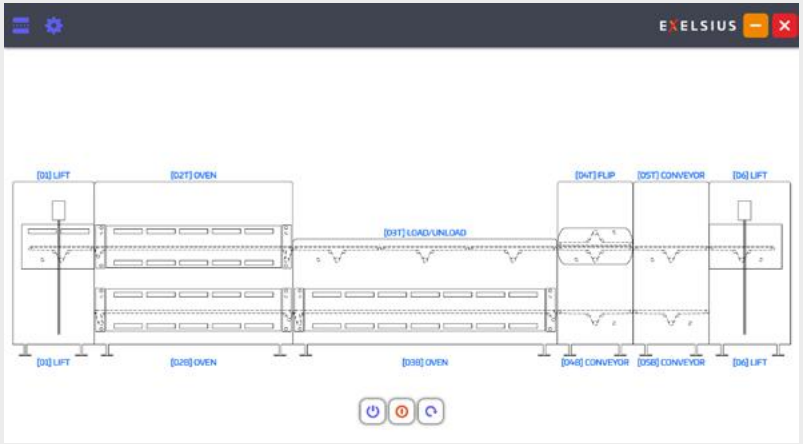


MEDIUM CAPACITY



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 criticity, 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

COATING/ DISPENSING
Nordson Electronics Solutions

UV ARC OU LED Technology

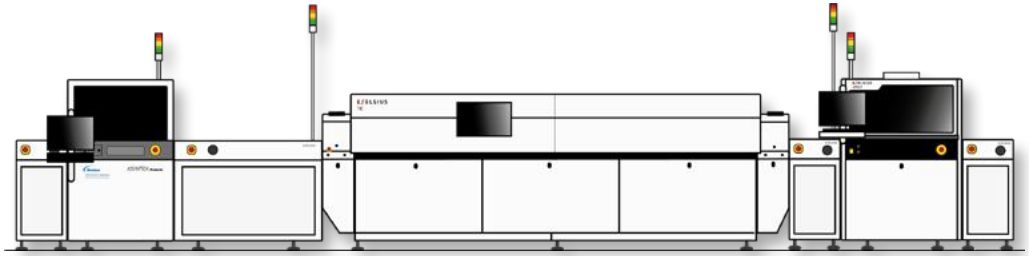
CONVECTION Technology

ATMOSPHERIC PLASMA Technology

INFRARED Technology

Product sheet





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**

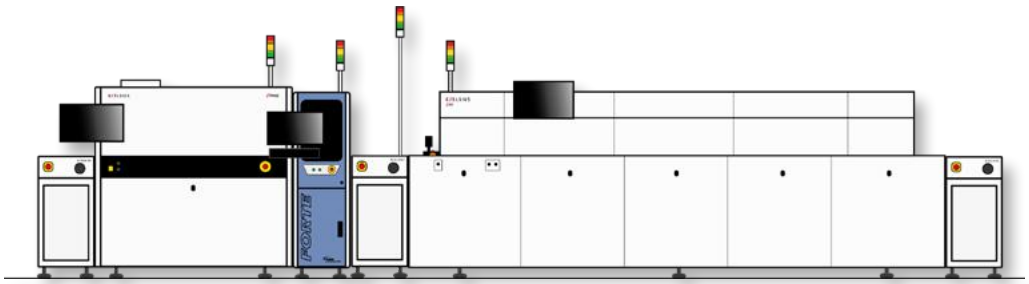
Conformal coating **SL-940 /1040**

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

XPECT | Coating inspection system — **Page 24**

GENIUS | Selective surface activation — **Page 25**

XPHU | Preheating oven before underfil — **Page 26**

XPECT



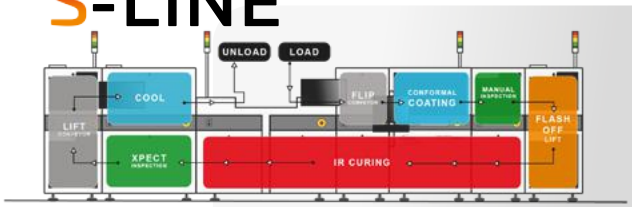
COATING INSPECTION SYSTEM

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



Selective surface activation | Coating | Drying/Curing | Coating inspection system **XPECT**

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

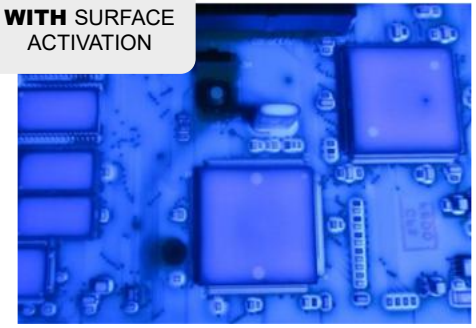
Accurate thickness measurement

Easy and accessible maintenance

Operator risk management (EHS)

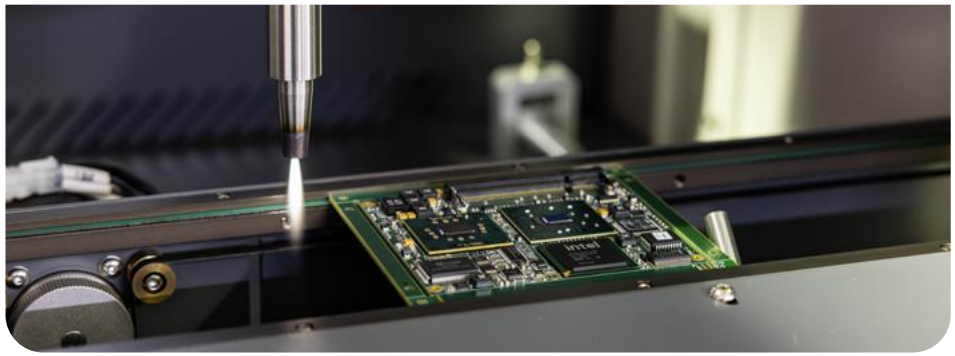
Intuitive HMI developed by EXELSIUS

WITH SURFACE ACTIVATION



WITHOUT SURFACE ACTIVATION





GENIUS

Product sheet

ATMOSPHÉRIQUE PLASMA Technology

PLASMA ACTIVATION: A MUST HAVE FOR QUALITY



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.

IMPROVED WETTABILITY AND ADHESION

AUTOMATIC PATH PROGRAMMING

SELECTIVE ACTIVATION ENSURING THE PHYSICAL AND ELECTRICAL INTEGRITY OF COMPONENTS

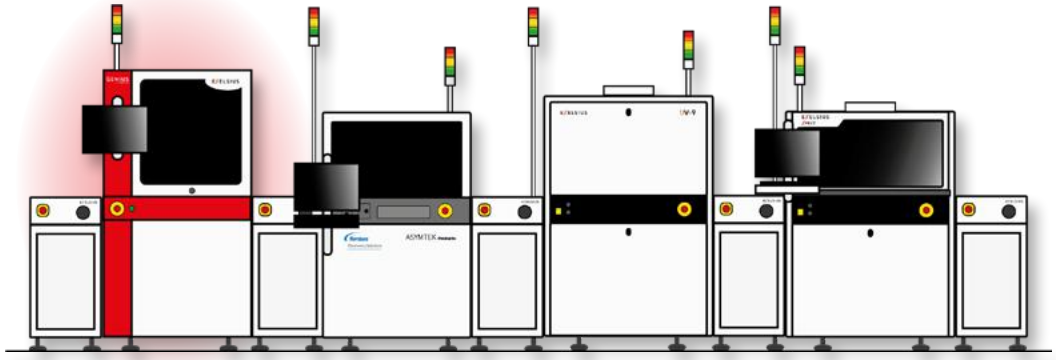
Patented industrial solution by EXELSIUS

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

XPHU

PREHEATING OVEN BEFORE UNDERFILL



Product sheet

CONVECTION Technology





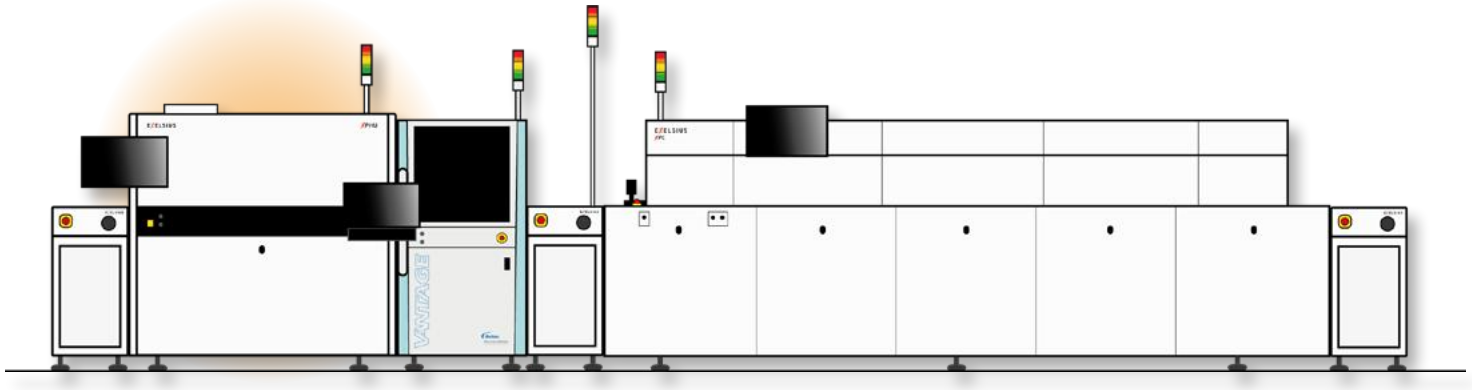


CONVECTIVE TECHNOLOGY TO ENHANCE UNDERFILL QUALITY

PRECISE TEMPERATURE CONTROL FOR THE UNDERFILL PROCESS

FAST TRANSFER TO DISPENSING EQUIPMENT WITH NO HEAT LOSS

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.



Preheating before underfill with the **XPHU oven**

Underfill

Curing by forced convection

Top or top/bottom configuration

Multisegment conveyor

Easy and accessible maintenance

Intuitive HMI developed by EXELSIUS

BOARD HANDLING SYSTEMS

CONVEYORS transfer, inspection, buffer, shuttle — **Page 28-29**

PCB **FLIPPERS** and **ORIENTERS** — **Page 30**

Line **LOADERS** and **UNLOADERS** — **Page 31**

ASC-100C



TRANSFER CONVEYOR RANGE

For more information
about our transfer conveyor range
CONTACT EXELSIUS

- **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)**

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



- **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**

For more information about our shuttle conveyor range **CONTACT EXELSIUS**

ESB-BUFFER



BUFFER CONVEYOR RANGE

For more information about our buffer conveyor range **CONTACT EXELSIUS**

- **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**

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

ETC

PCB ORIENTER RANGE



- 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

For more information
about our PCB
orienter range
CONTACT EXELSIUS

ESL

LINE LOADER RANGE



- **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**

For more information about our line loader range **CONTACT EXELSIUS**

ESU

LINE UNLOADER RANGE



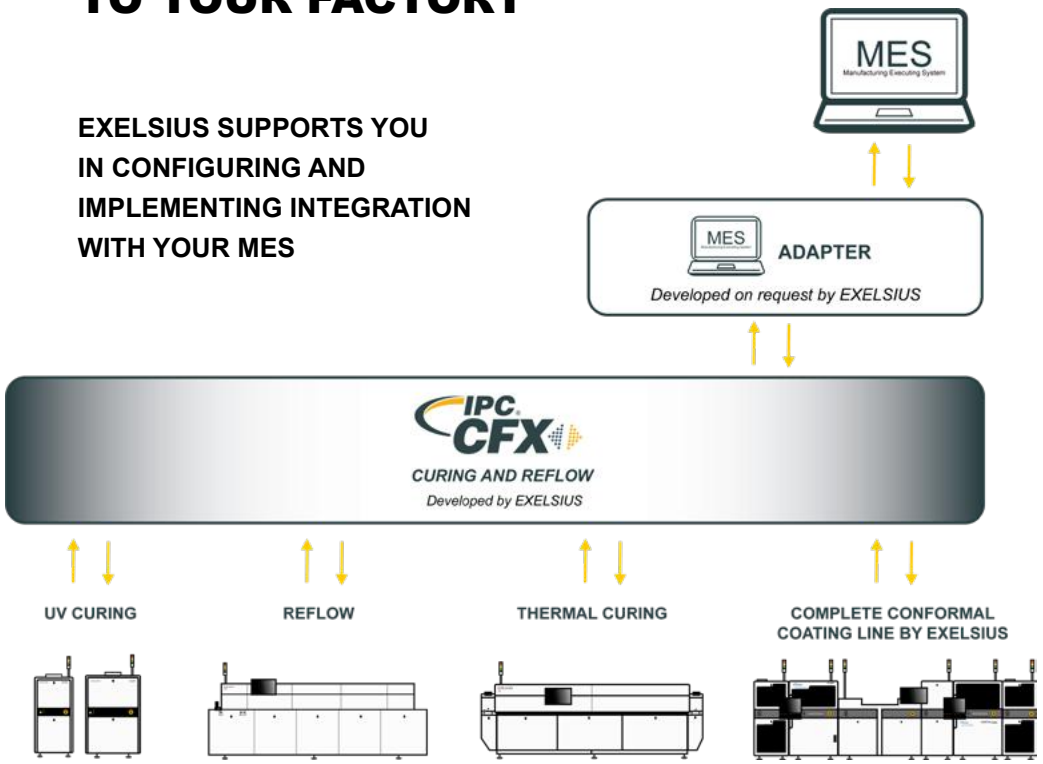
- **Integrated segment for line unloading and racking**
- **Control system: Panasonic PLC (Programmable Logic Controller)**
- **Touchscreen display**
- **Conveying direction: left to right or right to left**
- **Width adjustment: manual, semi-automatic or automatic**
- **Optional T-loader**
- **Variable speed (optional)**
- **Adjustable loading pitch**

For more information about our line unloader range **CONTACT EXELSIUS**

LINE CONTROL & TRACEABILITY

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**

IPC CFX

CURING AND REFLOW

Developed by EXELSIUS

For more information about IPC CFX CONTACT EXELSIUS

- **MONITORING AN 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.


EXELSIUS


EXELSIUS

EXELSIUS

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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