



THERMAL SYSTEMS

Convection Soldering

Precise. Efficient. Sustainable.



VisionXP+

Create your Connections.

www.rehm-group.com



PRECISION & QUALITY Made by Rehm

Modern electronics place the highest demands on the soldering process. Every connection must be reliable, reproducible and durable – even with complex assemblies and sensitive electronics.

VisionXP+ stands for high-end reflow soldering with state-of-the-art convection technology. Our systems offer

maximum process reliability, flexibility and energy efficiency – individually configurable to your requirements.

With 35 years of experience, we develop systems that help you to design your individual connections in a sustainable and future-proof manner –

Create your Connections.



PRODUCT OVERVIEW

VisionXP+ at a glance

VisionXP+ offers maximum flexibility for a wide range of requirements. From classic high-end soldering to void-reduced processes with formic acid – we provide the right solution for your production.

For perfect connections. Create your Connections.



VisionXP+

High-end convection soldering with maximum process stability and energy efficiency. Ideal for high throughputs and demanding electronics.

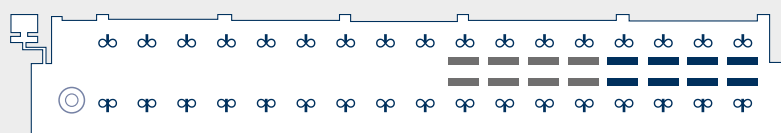


VisionXP+ Vacuum/FA

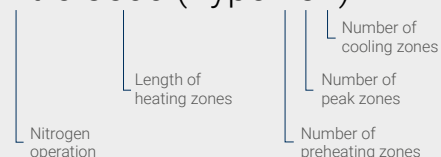
Extension with vacuum option and optional formic acid process. Precisely removes copper oxides from solder joints for void-reduced, high-quality connections – even in flux-free soldering.

Plant variants

Using the VisionXP+ nitro as an example:



VXP+ nitro 3500 (Type 734)



TYP	Process zone	Throughput*
523	2450 mm	115 / h
634	3150 mm	130 / h
734	3500 mm	145 / h
834	3850 mm	160 / h
934	4200 mm	180 / h
944	4550 mm	200 / h

* Approximate values for a

* Approximate values for a BG length of 300 mm and a distance of 100 mm

SUSTAINABILITY RESPONSIBILITY FOR TOMORROW

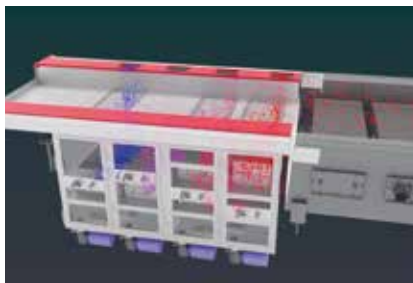
For a better future, we combine efficiency with resource conservation. The VisionXP+ was developed to significantly reduce energy consumption and emissions while ensuring the highest process quality. Intelligent features such as Eco Mode and the mechatronic nitrogen curtain minimise losses and protect the environment – at low operating costs.

- › 3-stage eco mode with short/medium/long options
- › Patented mechatronic curtain – up to 20% nitrogen savings
- › Closed cooling circuit for minimal losses
- › EC fan motors – quiet, energy-saving
- › Reduced CO₂ emissions & low total cost of ownership

HIGHLIGHTS



Patented mechatronic curtain with high savings potential in nitrogen consumption.



Innovative gas flow in the newly designed cooling section.



Proven EC fans for energy-efficient soldering and low noise levels.

Create your Connections – Sustainable and efficient. 

TECHNOLOGY & INNOVATION

PRECISE PROCESSES

Innovation is what drives us. The VisionXP+ uses state-of-the-art convection technology for precise, reproducible soldering processes. Controlled process zones and sophisticated nozzle fields ensure homogeneous heat transfer, even with complex assemblies.

For the highest void-free requirements, the vacuum variant offers the appropriate process. The optional formic acid process, which specifically removes copper oxides and thus ensures particularly high-quality connections, also eliminates the need for a subsequent cleaning process in flux-free soldering.

- › **Controlled zones for precise heat input**
- › **Saddle and linear profiles for all requirements**
- › **Low-maintenance residue management with pyrolysis**
- › **Modular cooling for optimum cooling gradients**
- › **Formic acid option in vacuum process for oxidation-free solder joints**



Create your Connections – with innovative technology.



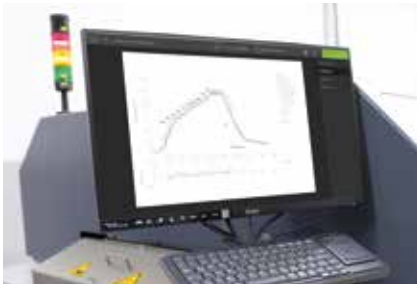
AUTOMATION & NETWORKING SMART SOLUTIONS

With Hermes and CFX, Rehm relies on future-proof communication standards that enable end-to-end networking of all line components. The systems exchange process and status data in real time and can be seamlessly integrated into MES or ERP systems. This creates transparent production chains that minimise sources of error, reduce downtime and increase overall efficiency.

- › **Standardised interfaces: Hermes & CFX**
- › **Seamless MES/ERP integration**
- › **Real-time data exchange and monitoring**
- › **Improved process reliability and traceability**
- › **Reduced downtime**
- › **Future-proof networking for the smart factory**

Create your Connections – with smart solutions.

HIGHLIGHTS



ProMetrics – profiling and monitoring of the soldering process for the highest quality standards.



Seamless MES/ERP integration with standardised interfaces: Hermes & CFX.



ViCON AiDe – the AI assistant for questions about the soldering process and operating the system.

Create your Connections – automated and precise.

DATA INTELLIGENCE WITH VICON TRANSPARENCY FOR YOUR PROCESSES

ViCON is Rehm's intelligent software ecosystem for maximum transparency in electronics manufacturing. All relevant process data is centrally recorded, visualised and evaluated – from individual lines to the entire plant. This allows trends to be identified at an early stage, processes to be optimised and quality to be ensured in the long term. ViCON makes your production data-based, efficient and forward-looking.

- › Centralised data collection and analysis
- › Intuitive visualisation of process parameters
- › Early detection of trends and deviations
- › Improved process and quality control
- › Scalable from individual systems to entire production lines
- › Basis for data-driven decisions

READY FOR YOUR PRODUCTION. **CONNECTIONS FOR THE FUTURE.**

Rehm Thermal Systems is a leading expert in connection technologies for electronics manufacturing. With innovative system solutions for soldering, drying and coating, we enable our customers to create reliable connections on electronic assemblies – individually, process-secure and future-oriented.

Since 1990, we have been developing and manufacturing energy-efficient production equipment at our headquarters in Germany and an additional production site in China – all in accordance with the highest quality standards. Our worldwide subsidiaries and distributors provide tailor-made solutions and competent service – wherever electronics are produced

Create your Connections – with Rehm, you shape the products of tomorrow.

