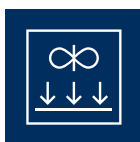
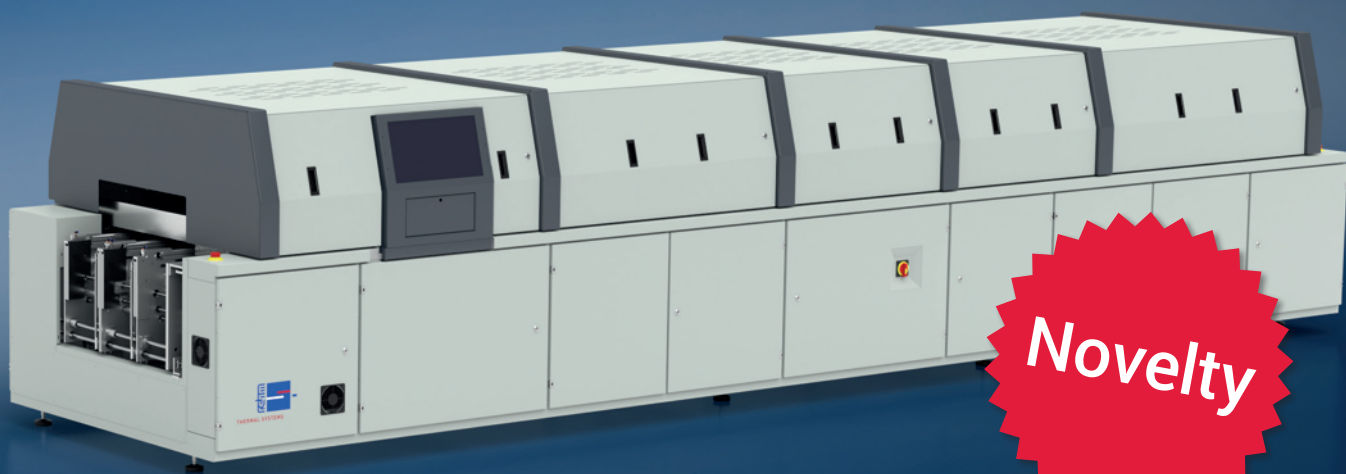


THERMAL SYSTEMS

# Vision TripleX

3-in-1-Solution  
三合一系统解决方案



Vision TripleX  
Convection | Condensation | Vacuum

# Vision TripleX

## 3-in-1-Solution

Resource-saving, always one step ahead.

## 三合一系统解决方案

资源节约，我们永远领先一步！

### 1. Convection Soldering

At the heart of our Vision series is the process chamber, which offers excellent heat transfer through advanced nozzle-hole geometry as well as controlled overpressure in the heating module. This ensures homogeneous, seamless heat transfer to the assembly. The inert process atmosphere can be safeguarded throughout the entire soldering process, as the closed system means no external air can enter the process chamber.

### 2. Condensation Soldering

Heat transfer in condensation soldering is up to ten times higher than in convection soldering. This makes it particularly suitable for processing large or high-mass boards in a stable process atmosphere. The inert heat transfer medium used is perfluoropolyether (Galden®). To improve control of the condensation phase, Rehm has developed a patented injection process that allows the soldering procedure to be individually regulated.

### 3. Soldering with Vacuum

Soldering with vacuum reliably removes pores, gas occlusions and voids immediately after the soldering process – while the solder is still in its optimal molten state. Pressure and speed can be individually set. This integrated solution creates a time-efficient and stable production process.



### 1. 回流焊接

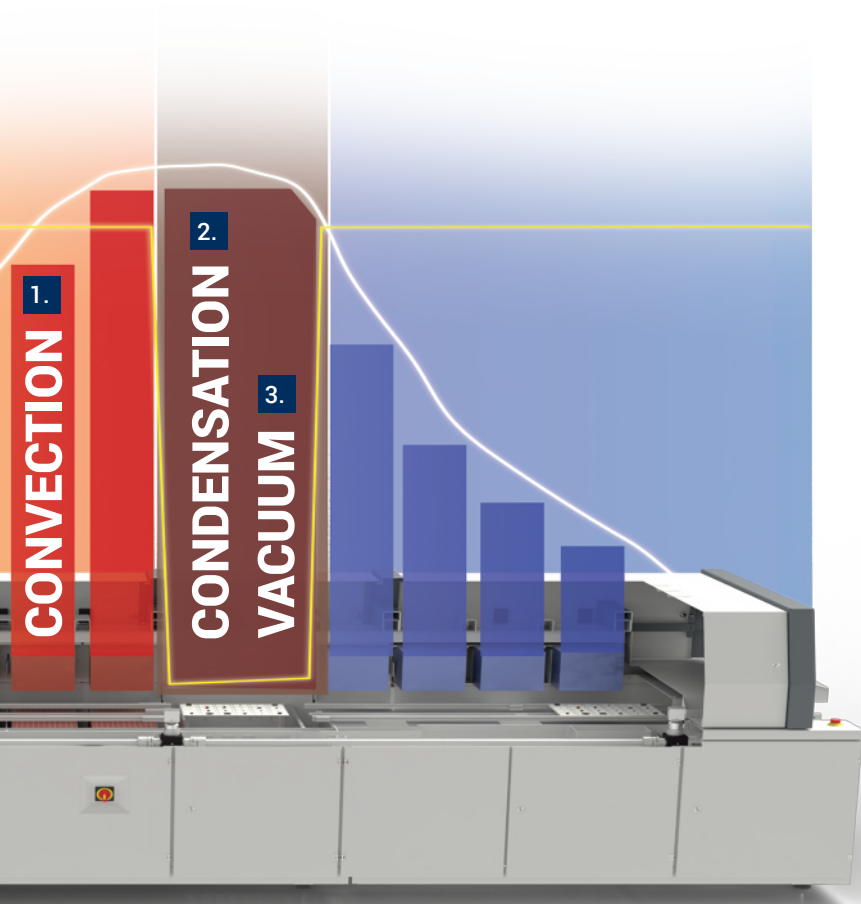
Vision系列的精髓在于炉膛设计，经过计算的几何分布式喷嘴和先进的加热模块超压控制提供了良好的热传导性能。这确保了热量能被均匀的，几乎无损地传递到组件上。优良的密封性意味着外部空气无法进入炉膛内部，焊接制程在惰性气体环境下得到有效保护。

### 2. 凝热焊接

由于凝热焊接的热传到相对于回流焊接高出10倍左右，因此特别适合在稳定的制程气体环境中加工大型组件或重型PCB板。锐德研发的专利性注入工艺，通过对惰性传热介质全氟聚醚(Galden®)的控制，能够对焊接制程进行单独调节，并改善冷凝阶段的控制。

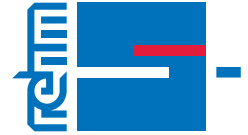
### 3. 真空焊接

真空焊接是目前能够高效清除焊接气孔，气泡和空洞的最可靠方式。组件经过高温区焊接之后，在焊料仍处于熔融状态时，通过抽真空的方式排除空洞引起的焊接缺陷，并且压力和速度均可单独设置，以适应多样化的产品需求。这种集成式解决方案确保了生产制程的高效性和稳定性。



## Advantages for your electronics production: 系统优势

- > **Vision TripleX – three processes in just one system: More flexibility in the production of electronic assemblies**  
一台设备集成三种焊接制程，为电子生产行业提供更灵活的解决方案。
- > **3-in-1: A combination of traditional convection soldering, convection soldering under vacuum and condensation soldering in just one system saves investment costs and space in the production hall.**  
将传统的回流、凝热、真空焊接制程相结合的三合一系统解决方案，可为您节省更多投资成本和生产空间。
- > **The flexibility of temperature profiling resulting from the combination of convection and condensation, in conjunction with the applicable atmosphere (air, N<sub>2</sub> and/or Galden®), allows high-quality solder joints to be performed on assemblies that vary greatly in thermal mass.**  
通过回流、凝热焊接相结合，在适宜的制程环境下（空气、氮气，和/或Galden®）轻松应对热质量差异化需求，确保焊点品质。
- > **No additional product carrier is necessary for the Vision TripleX compared to the existing condensing system.**  
相较于现有的凝热焊接系统，Vision TripleX无需附加的产品载具进行传输。



THERMAL SYSTEMS



## Rehm Worldwide

As a leading manufacturer of innovative thermal system solutions, we have customers on every continent. With our own locations in Europe, America and Asia, as well as 30 agencies in 26 countries, we are able to serve the international markets quickly.

作为世界领先的创新型热力系统解决方案制造商，锐德的客户遍布全球每一块大陆。我们在欧洲、美洲、亚洲均设有技术中心和生产基地，同时还在26个国家和地区拥有超过30家代理商，能够快速响应国际市场需求，为客户提供最出色的现场服务。

- Location
- Production facility
- Representation



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