

# Our Products

Worldwide leading in  
Vapor Phase Technology

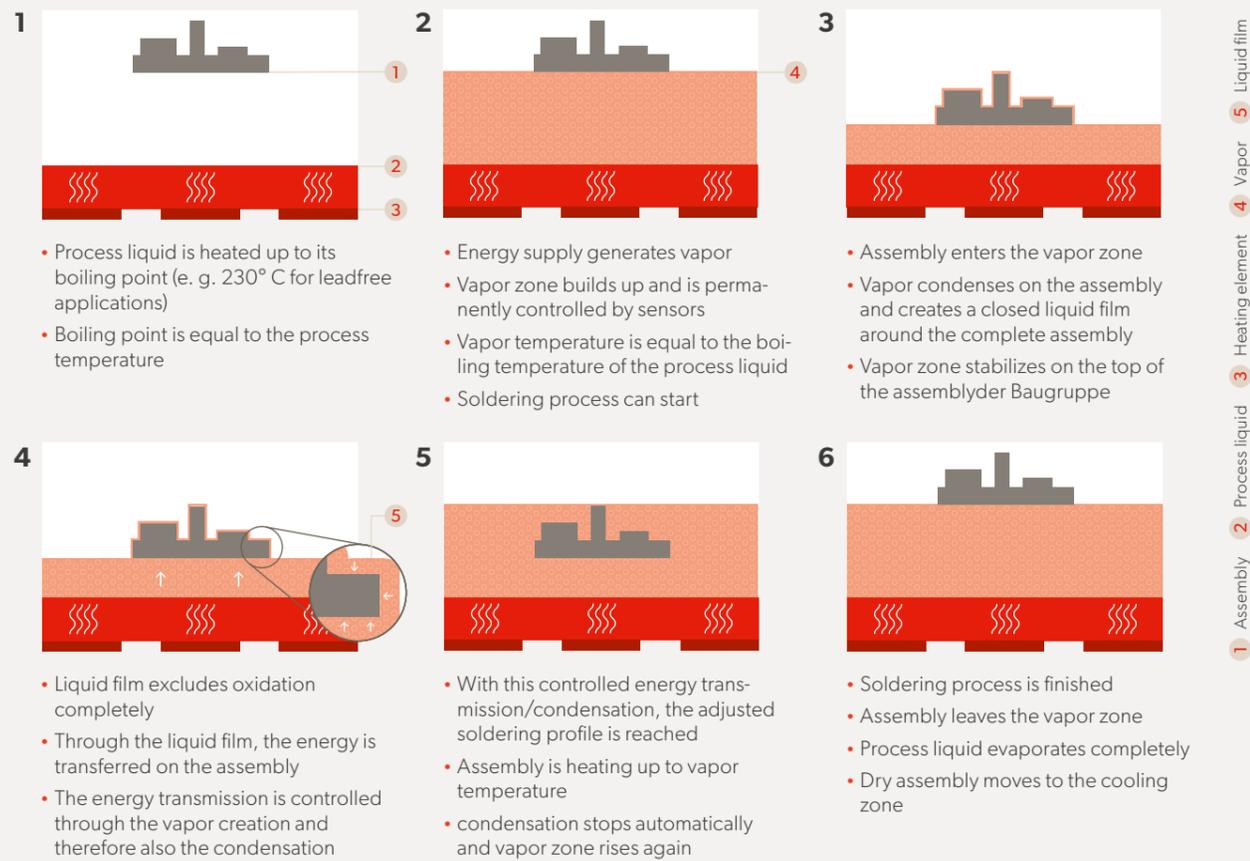


# Vapor Phase Soldering

## Key benefits of technology

- ✓ **Simplicity**  
With just a few parameters to the desired soldering profil
- ✓ **Process reliability**  
Intrinsically safe soldering process, No overheating of assemblies
- ✓ **Quality**  
100% oxygen-free process with best wetting properties
- ✓ **Eco-friendly**  
Up to 70% savings of the required energy in production
- ✓ **Flexibility**  
No waiting times for product changeover

## The soldering process

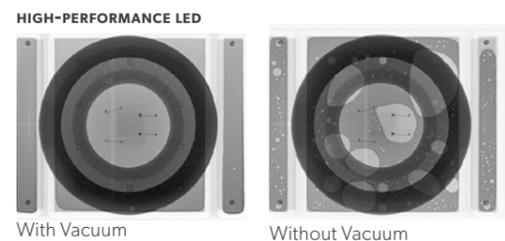


# Vacuum

**With the innovative Multi Vacuum process** an assembly can be sequentially processed with multiple individually adjustable vacuum treatments.

## Clean Vacuum Technology

With this patented process the vacuum process is performed outside the hot vapor zone.



< 1% voids

# TOP LOADER

## Systems for prototypes and small series production

- ✓ Optimal soldering process combined with compact design
- ✓ Particularly suitable for applications in laboratories, prototyping, and small series production
- ✓ Can be used anywhere and immediately – even at changing locations
- ✓ Flexible and simple
- ✓ Ideally suited for repairing assemblies in conjunction with the patented ASSCON desoldering system

## VP310



- Compact design
- Perfectly suitable for prototypes
- Ready for operation within few minutes
- 240V power connection
- CE certified
- Easy and self-explaining operation

Work piece carrier

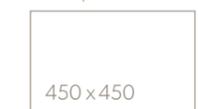


## VP510



- Continuously adjustable temperature gradients through sensor-based profiling
- Simple and intuitive operation via HMI with touchscreen guidance
- Ideal for small series and special applications
- 240V power connection
- Fully automatic process control

Work piece carrier



Support rails and center support for double sided soldering

cooling-water cooling system with electric chiller

Automatic logging of production data

# BATCH

Stand-Alone systems for flexible production

- ✓ Particularly suitable for processing frequently changing products in small and medium series production
- ✓ Highly flexible due to universal workpiece carriers
- ✓ Optional integration into automated manufacturing

## VP810 / VP810 vacuum



- Small footprint
- Ideal for universal applications
- Step profiles can be mapped using sensor-based profiling
- Pump filtration system
- Optional and retrofitable Multi Vacuum module with Clean Vacuum Technology

Work piece carrier



Retrofitable vacuum Vacuum

## VP1100



- Designed for 24/7 multi-shift operation
- HMI with 13.3" touch display
- Up to 5 kg soldering weights
- Low-maintenance and smooth-running transport

Work piece carrier



## VP6100 vacuum



- Designed for 24/7 multi-shift operation
- Large workpiece carrier
- Low-maintenance vacuum module
- Standard weight 5 kg, expandable to 10 kg
- Multi Vacuum module with Clean Vacuum technology

Work piece carrier



Vacuum (also retrofitable)

## VP1000-1080 / VP1000-1580



- Stand-alone system for the production of large formats
- Up to 15 kg soldering weights
- Easy operation via 13.3" touch display
- Robust design for the highest demands

Work piece carrier



Cooling-water cooling system with electric chiller

Permanent filtration system

Barcode Scanner

Advanced Management Interface AMI (external soldering profile management) incl. soldering report and OPC-UA

Sensor Based Profiling

Dynamic Profiling / Dynamic Profiling Plus +

# INLINE

## High-Performance inline systems for large series

- ✓ Integration into large-scale production lines for fully automated and workpiece carrier-free processing of assemblies
- ✓ Optimal flexibility for maximum throughput
- ✓ Fast and uncomplicated product changeover thanks to electrically width-adjustable transport systems and center support

### VP2100-100 / VP2100-100 vacuum



### VP2200-100 / VP2200-100 vacuum



- Smallest inline system with compact design
- Low-maintenance and smooth transport
- Intuitive operation via touch display
- Optional and retrofittable Multi Vacuum module with Clean Vacuum technology
- Low total cost of ownership

- High throughput thanks to optional dual-lane transport, also asymmetrical available
- Single or dual lane unloading possible
- Double pusher for maximum productivity
- Optional and retrofittable Multi Vacuum module with Clean Vacuum Technology
- Advanced filtration systems

Soldering format up to

750x620	620x520
4 PCB loading: 165 mm	4 PCB loading: 125 mm
3 PCB loading: 235 mm	3 PCB loading: 180 mm
2 PCB loading: 370 mm	2 PCB loading: 290 mm
1 PCB loading: 750 mm	1 PCB loading: 620 mm

Retrofittable Vacuum

Vacuum

Soldering format up to

1.200x600	1.000x500
6 PCB loading: 175 mm	6 PCB loading: 145 mm
4 PCB loading: 275 mm	4 PCB loading: 240 mm
3 PCB loading: 390 mm	3 PCB loading: 320 mm
2 PCB loading: 600 mm	2 PCB loading: 520 mm
Option Longboard with max. length up to 1.200 mm	Option Longboard with max. length up to 1.000 mm

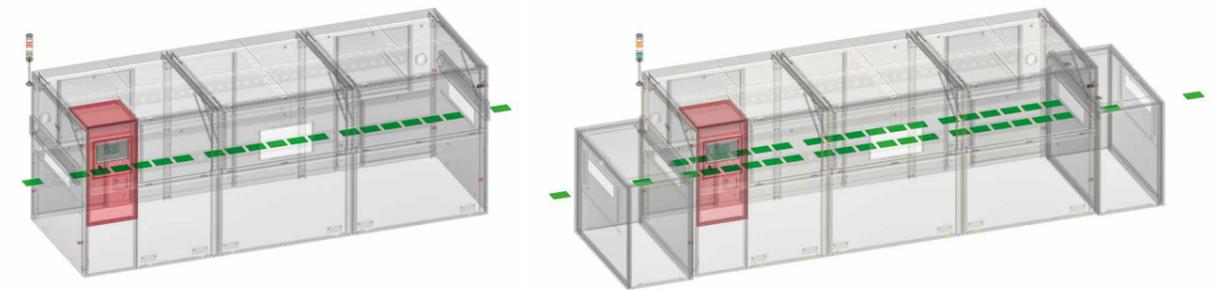
Retrofittable Vacuum

Vacuum

- Cooling-water cooling system with electric chiller
- Barcode Scanner
- Permanent Filtration System
- Hermes-ready
- Advanced Management Interface AMI (external soldering profile management) incl. soldering report and OPC-UA
- Integration of total line controllers (ASYS-OIC)
- Dynamic Profiling / Dynamic Profiling Plus +

## Lean Production with Vapor Phase Inline

- ✓ Pin and chain transport
- ✓ Without work piece carrier
- ✓ Dynamic Profiling
- ✓ Permanent Filtration System
- ✓ With or Without Vacuum / Multi Vacuum



### HIGH THROUGHPUT

achievable cycle times

**20 sec.**

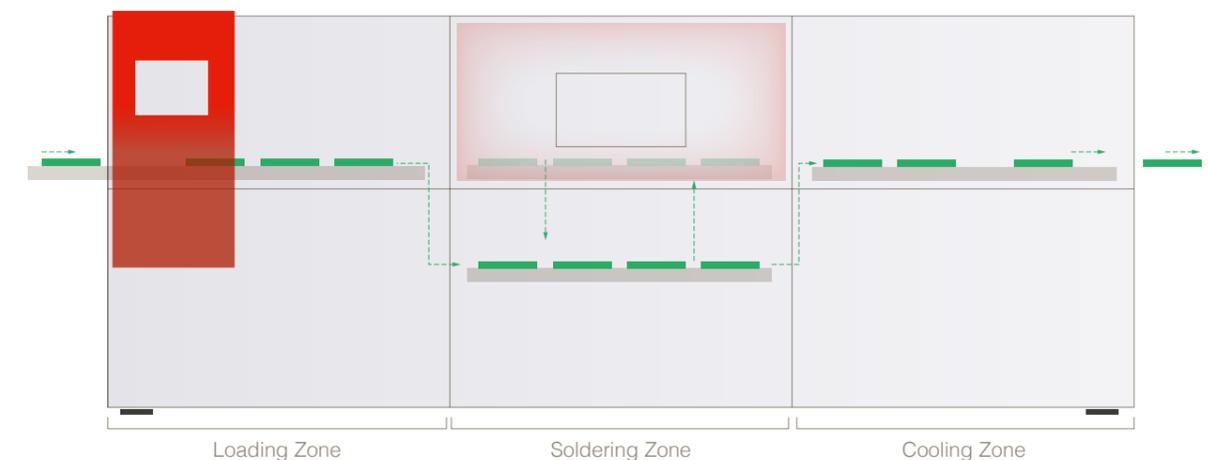
**< 1 min.**  
product changeover

### ENERGY CONSUMPTION

**up to 70 %**

Reduction of energy consumption possible

**from 9 kW**  
connected load



# Vapor Phase. Vacuum. Inline.

Soldering – the simple way!



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