QUALITY „MADE IN GERMANY“
TEMERATURE TREATMENT SYSTEMS

SMT THERMAL DISCOVERIES

T-SERIES / VH-SERIES / CUBE SYSTEMS

TEMPERATURE TREATMENT SYSTEMS

FLEXIBLE SOLUTIONS FOR EACH APPLICATION A SUITABLE SYSTEM



Product specific tempering for curing, drying of glue processes
also, in preparation of a hot function tests after temperature treatment

Horizontal or Vertical Solutions
within **modular Systems** for **each process** with
customized cooling zones , heavy duty conveyor and
minimzed maintenance effort.

smt-wertheim.com

T-SERIES

A modular system for lowest energy consumption relates to lowest carbon footprint - provides reliable transport system with heavy duty options up to 50kg per/m.

T-Series in 0.7 m - steps from 140 cm - 700 cm



- modular systems for each process
- almost no maintenance effort
- **single or dual lane systems** (multitrack system also possible)
- **heavy duty lite** (up to 10kg/m) **or heavy duty** (up to 35kg/m) **conveyor possible**

Zone/Fan Concept

- **longer zones / less but powerfull fans**
  for lowest energy consumption relates to lowest carbon footprint in the market - less fans = less energy consumption!
- **fan units placed behind the process zone for top & bottom side heating**
- **System based on a profen reflow platform**
  -> reliable materials and components



Transport System

- reliable transport with no compromises in parallelism
- different width (up to 950 mm)

Process

- combination of convection and IR-lamps possible
- combined heating and cooling in one machine

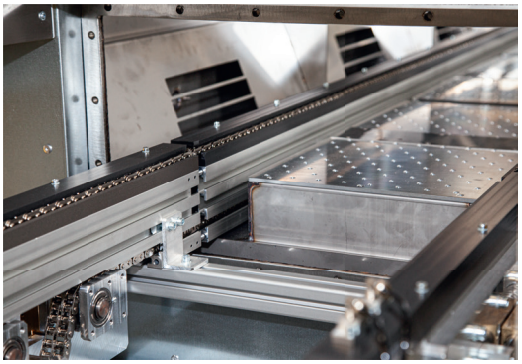
TRANSPORT SIZES & DETAILS

- reliable laying transport system with no compromises in parallelism and stable condition
- split rails - no bending rails
- Single-, Dual- & Triple-Lane Transport available (also as heavy-duty-transport-configuration)
  other multiple lane transports possible **- ask for details**

Transport	Configuration	Dimensions*	Optional
1-Lane	F C V	60mm - 573mm	60mm - 710mm
2-Lane 1&3 fix coupled	F C V F C V	2x 60mm - 251mm	2x 60mm - 337mm
2-Lane 1&4 fix de-coupled	F C V V C F	2x 60mm - 265mm 1x 60mm - 470mm	2x 60mm - 331mm 1x 60mm - 609mm

F fixed Rail V variable Rail C CBS - optional

*other dimensions on request







ENERGY EFFICIENCY & TECHNICAL INFORMATION

- **only one fan unit for each zone (even with bottom side heating) = less energy consumption**
- **lower CO^2 footprint**
- **higher price performance ratio**
- **less heating elements**
- **less critical parts with the same performance**

Machine	Heating Zone Length	Total machine length	approx. Energy consumption
T140	1,4 m	2,4 m	5kWh
T210	2,1 m	3,1 m	6kWh
T280	2,8 m	3,8 m	6kWh
T350	3,5 m	4,5 m	7kWh
T420	4,2 m	5,2 m	7kWh
T490	4,9 m	5,9 m	8kWh

VH-SERIES - VERTICAL TEMPERATURETUR TREATMENT

Product-specific temperature treatment up to 180°C

- transport system is based on work piece carrier
- ideal for long process times
- carrier size 500 x 500 mm
- 3 or 4 zones „up" and „down"

NITROGEN-PROCESS SUITABLE (optional)

Benefits

- batch or inline concept
- manually or automatically operated
- lubricate free transport
- also with cooling zones available
- minimal footprint (approx. 4m²)



Vertical

WATCH THE VIDEO

from +50 °C up to +180 °C
(higher temperature after request)

EXAMPLE CALCULATION HORIZONTAL VS. VERTCIAL SYSTEM

Cycle time: **17 s**
Product length: **150 mm**
Product width: **100 mm (on work piece carrier: 150 mm)**
Product height: **50 mm**
Heat-up time: **15 min.**
Holding time: **30 min.**
Cool-down time: **15 min.**

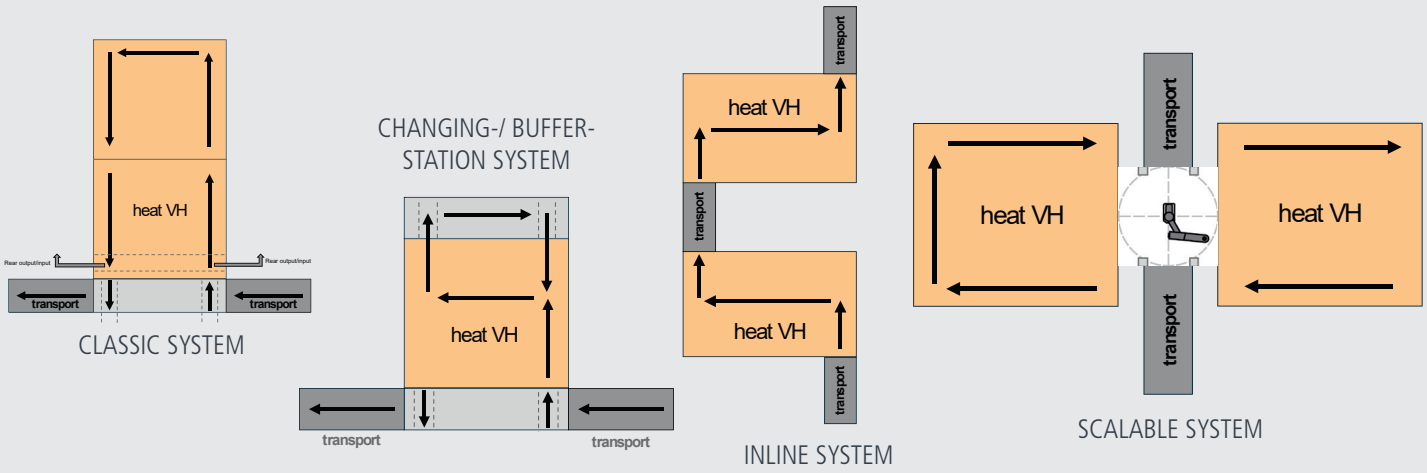
- Horizontal and large **T-Series**
  = footprint approx. **25 m²**
- Vertical **VH8**: 6 heating zones and 2 cooling zones
  = footprint approx. **3.5 m²**

VH8 = (up to) 86 % less footprint



Transport system Vertical VH8

VERTICAL TRANSPORTATION VARIATIONS



CUBE TEMPERATURE TREATMENT SYSTEMS FOR FUNCTION TESTS

Perfect pre-treatment for electronic components and modules.

Cube Versions:

- for Hot Function Tests 60 °C up to 155 °C
- for Cooling to Room Temperature
- for Cold Function Tests –50 °C up to –10 °C





Benefit

- **small footprint**
- loading/unloading on the same side, manually or automatically
- **high throughput**: 15 sec cycle possible
- traceability and handling options

WATCH THE VIDEO

Cube

TEMPERATURE TREATMENT HIGHLIGHTS

- **machine availabilty** → reliable transport is the heart of the System
- **lowest total cost of ownership** → low energy & spare parts consumption
- **tool free maintenance concept**
- **high quality process** → also for complex needs
- **horizontal or vertical, inline or batch solutions**

ABOUT SMT

- a family-owned company in central Europe / Germany estd. in 1987
- innovation leader with global presence
- thermal processes experts in convection technology
- 100% „Made in Germany" production
- ISO 14001& ISO 9001 certified

Quality Made in GERMANY





Machines for Thermal Processes

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