

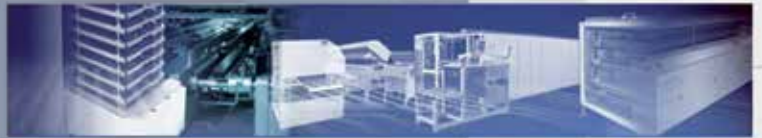
THERMAL SYSTEMS

Thermal System Solutions



Individual System Solutions

Specialized in your needs



High-quality engineering

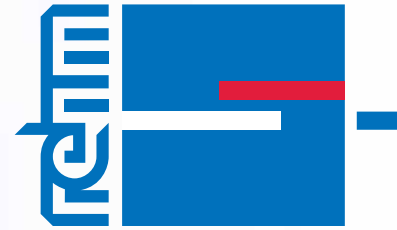
20 years Know-How

Vacuum Drying Systems

Pallet Drying Systems

Hot Function Test Systems





THERMAL SYSTEMS

Individual

**Customer specific system solutions
for individual requirements**

Rehm develops, designs and supplies besides Reflow-Soldering Systems further thermal system solutions as general contractor or as direct supplier. The technical design of the Rehm Systems is determined basically through parts dimensions, thermal masses, materials, process defaults as well as throughput and cycle time specifications. Customerspecific solutions are usually required when high production output data i.e. short cycle times matched with long process times are to be processed. With our special systems there is an equipment concept available which builds on field-proven know-how from our standard machines.



Drying Systems

Solar Cell Drying Systems

Burn-in Systems

High Temperature Soldering Systems



Example: Meander transport (top view)

Drying Systems for assembly groups

RDS

Drying and Hardening



e.g. for Conformal Coating:
horizontal or vertical systems

	Heating Length	Heating Zones	IR-Heaters	Passage Height
RDS 2100	2100	4	possible per zone	± 100 mm
RDS 2600	2600	5	possible per zone	± 100 mm
RDS 3200	3200	7	possible per zone	± 100 mm
RDS 4800	4800	9	possible per zone	± 100 mm
RDS 5600	5600	10	possible per zone	± 100 mm

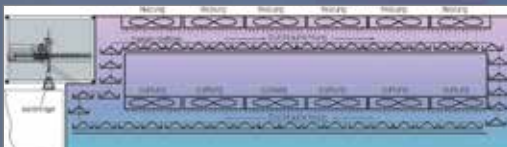
Application areas

- Chip on Board encapsulation (Globe - top)
- Chip Scale Packaging
- Flip Chip Underfill
- Cavity fill for BGA packages etc.
- Burn-in of resistive pastes in the hybrid production

Drying Systems for end user devices

Circulating Drying System

Drying System with automatic loading and unloading handling.



Throughput Drying System

Drying System with automatic loading and unloading handling at the inlet and the outlet.



Grab and work-piece carriers are designed according to the product. System dimensioning follows process parameters and throughput requirements of our customers.

Flexibility with System!



Solutions for manual working places



In-/Out-System

e.g. for curing of sealing compounds with long cable connectors and connectors which can not be exposed to thermal stress.



Paternoster-Preheating-Oven

between two manual working places.

Pallet Magazine Drying

Example 1:

High parts throughput for small parts, ensuring the low overall height and optimal accessibility.



Vacuum Systems



Vacuum Drying System

As Batch System with rack loading for high throughput of small parts, e.g. sensors.



Vacuum High Temperature Drying System

As Batch System with rack loading for high throughput. The high temperature soldering process takes place under forming gas at over 400 °C and the shaping of solder points under defined Temperature-Time-Course with changing atmosphere.



parts considerable system



Example 2:

High parts throughput for large-size sheets.



Hot Function Test



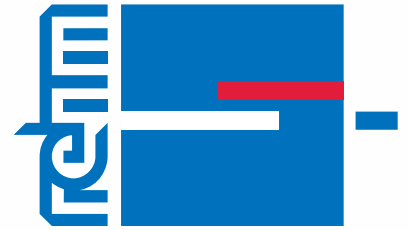
Integrated test system

In this system the parts are heated to the test temperature and transported to the test station which is integrated into the last heating zone. In this way the function test takes place under reproducible temperatures.



Downline test system

In this system the parts are heated to the test temperature and transported on demand out of the oven into the downline test station by means of quick transport. This procedure is applied to big multi function test benches.



THERMAL SYSTEMS

Transport Systems

The variety of the applications is reflected in the different versions of transport systems. Pin chain conveyors with and without accumulating rollers, mesh belts, different work-piece carriers, pendular work-piece carriers, racks, etc.

are applied in the Circular Drying Systems or in the equipment of Batch operation. For the integration of Rehm systems in already existing lines we supply you with the necessary handling systems.

Roller Chain Transport



single lane

Pin Chain Conveyor



multi-track

Basket Transport for small parts



Shuttle transport



Maeander transport

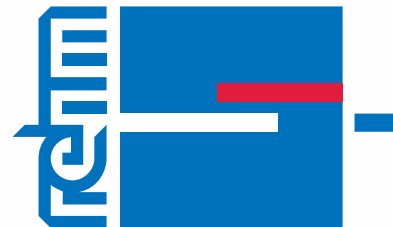


Work-piece carrier transport single lane/multi-track



Circuit work-piece carrier transport





THERMAL SYSTEMS

Thermal System Solutions

You find no suitable system for your process ?

Then leave it up to Rehm to design and realise the optimal system for you.

Innovation for success!

Rehm Thermal Systems is an international supplier of soldering systems and thermal system solutions for the electronics industry. We supply custom tailored solutions for a great variety of applications in modern electronics manufacturing with high precision, innovative, reliable systems and intelligent software.

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