

FAST AND RELIABLE DRYING.

ENERGY-SAVING DRYING SYSTEMS FOR  
YOUR PRODUCTS.

**AIRGENEX<sup>®</sup>**



# MORE QUALITY, MORE RELIABILITY.

Drying at low temperatures

- \_fast
- \_gentle
- \_stain-free

- > High efficiency through the use of heat pump technology for air dehumidification
- > High quality drying results in short times

- > Energy and cost saving through perfect combination of air conditioning and air routing
- > Drying in a closed system; there is no interchange with ambient air and, thus, no dependence from the climate.
- > Temperature variable between 20 °C and 90 °C
- > Throughput of installed systems may often be raised to meet production requirements

# TRIAL DRYING FOR BEST RESULTS.

HARTER has an in-house pilot plant station which offers a unique opportunity to test the drying response of your product. Series of tests are run to determine the relevant drying parameters, such as temperature, time, humidity, air speed and airflow. You are welcome to witness these

tests and to see how efficient our condensation drying system is. Do not hesitate to contact us!



# HARTER AIRGENEX® - THE PROCESS.

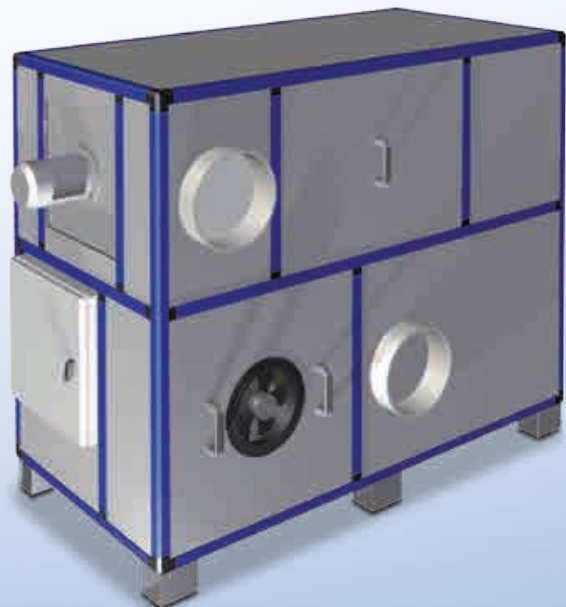


**HARTER's energy-saving drying systems can dry any product in a fast and reliable way.**

- 1 Airgenex® dehumidification module / drier interface - Humid air is extracted from the drying chamber and passed to the dehumidification module.
- 2 The pre-cooler is the 1st stage to cool the air for further processing. Precooling largely reduces the compressor output.
- 3 The moisture precipitates on the air cooler fins, and the condensate water leaves the system through the condensate collector and the condensate drain.
- 4 The cooled, dehumidified air is preheated, with no external energy input, by the preheater.
- 5 The air heater raises the air temperature to the required process temperature.
- 6 The process air fan provides the required air circulation between the Airgenex® dehumidification module and the drying chamber.

7 The dried, unsaturated air is now returned to the drying chamber.

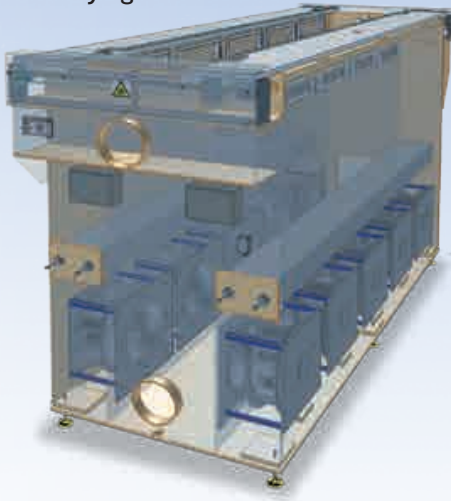
The loop is thus closed.





# STANDARD AND SPECIAL SOLUTIONS.

## Rack Drying



We design bespoke drying systems for the specific requirements of your product and for perfect integration into your process. Our designs reflect all our know-how and many years of experience with drying systems. You will obtain an all-inclusive solution of the required size.

### SUITABLE FOR ANY PROCESS

Our heat pump based condensation drying is a flexible system. It may be used both in continuous and batch drying processes.

Special automated **cover systems** prevent valuable heat from escaping the system.

We use **non-compressed air blowing** for special applications, as a preliminary stage to drying proper.

## Bulk Material Drying



Barrel



Vibarrel®



Screen Basket



Basket



Basket/Belt, Synchronised

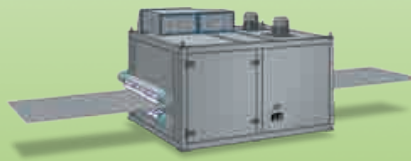
## Continuous Drying



Passage while Suspended on Conveyor Chain



Passage while Resting on Conveyor Belt

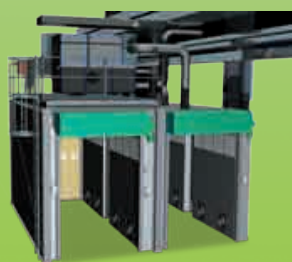


Strip after Coating or Cleaning

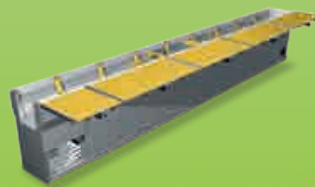
## Other Drying Systems



Cabinet



Chamber

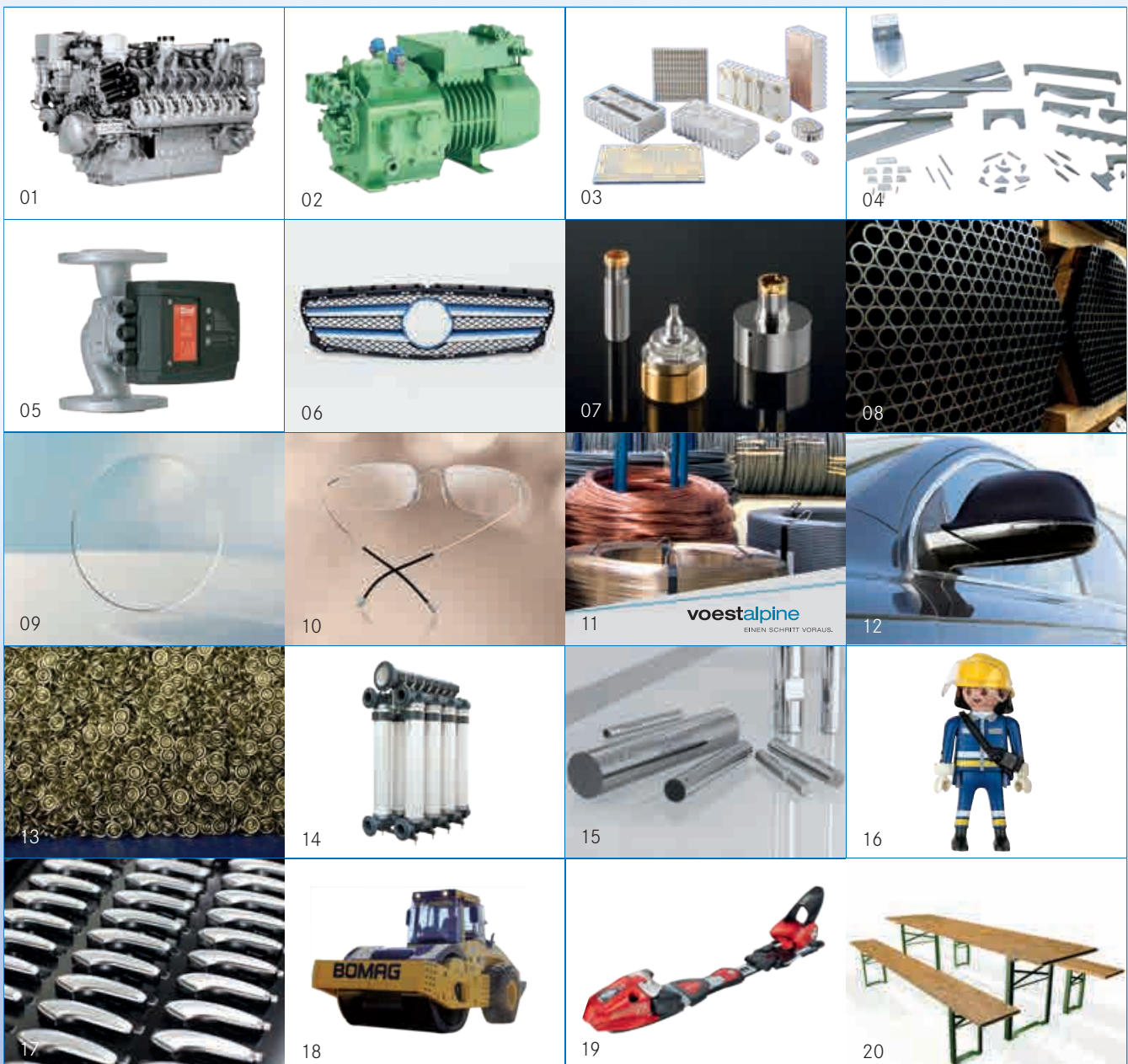


Tubing / Tube Bundles

## DRYING EXAMPLES.

Our drying systems are capable of drying - efficiently and reliably - an extremely large variety of products.

- |    |                                   |    |  |
|----|-----------------------------------|----|--|
| 01 | Tognum-MTU                        | 10 | Silhouette                                       |
| 02 | Bitzer Kühlmaschinenbau           | 11 | Voestalpine – Finsterwalde                       |
| 03 | CeramTec                          | 12 | Hertfelder Lackierwerk GmbH                      |
| 04 | Tigra                             | 13 | prym fashion                                     |
| 05 | Biral Pumpen                      | 14 | Inge water technologies                          |
| 06 | Magna                             | 15 | CERATIZIT Austria GmbH                           |
| 07 | IMO Antriebseinheit GmbH & Co. KG | 16 | Geobra-Playmobil                                 |
| 08 | Mubea Präzisionsstahlrohr AG      | 17 | BIA Kunststoff- und Galvanotechnik GmbH & Co. KG |
| 09 | Carl Zeiss Vision                 | 18 | Bomag  |
|    |                                   | 19 | Tyrolia  |
|    |                                   | 20 | Wertachtal-Werkstätten GmbH                      |



# THE ART OF DRYING.

BY PERFECTLY COMBINING AIR DEHUMIDIFICATION  
AND AIR ROUTEING WE DIRECT OUR DRY AIR EXACTLY  
TO YOUR PRODUCT TO DRY IT IN A FAST AND  
RELIABLE WAY.

**We are prepared to put our ability to the test.**  
Do not hesitate to contact us.

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