



The new continuous high-speed drying tunnel for investment casting

TUNNEL – advantages at a glance

Options

- Video control system inside the tunnel
- *Radio Frequency Identification (RFID)* for individual shell processing

- Reduction of shell production time by a factor of 20–30
- Raw material saving of up to 25%
- Increased shell strength and permeability
- The system works with all waxes, sands and water-based slurries conventionally applied in the investment casting industry

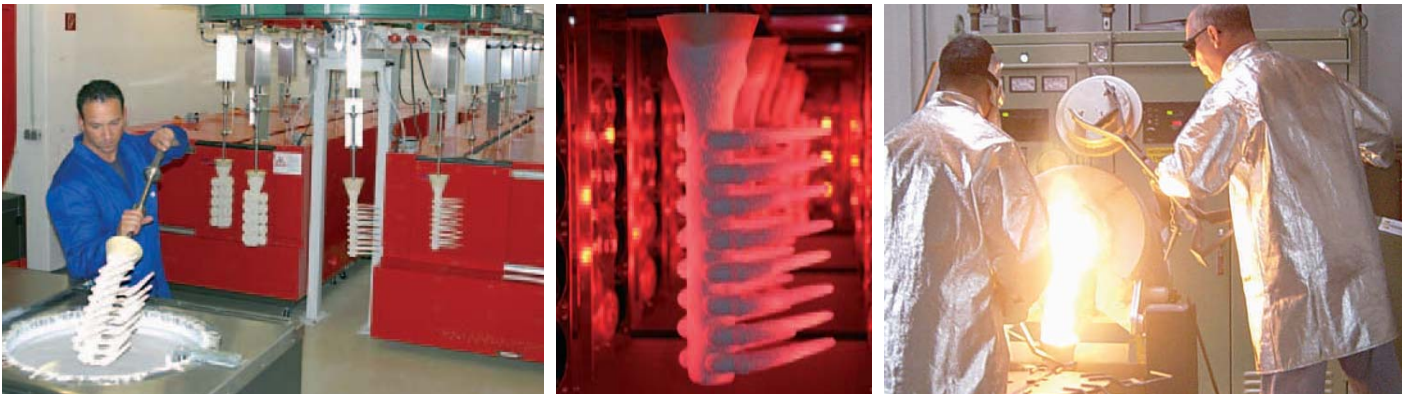


The tunnel has already been tested and put into operation at several well known investment casting companies.

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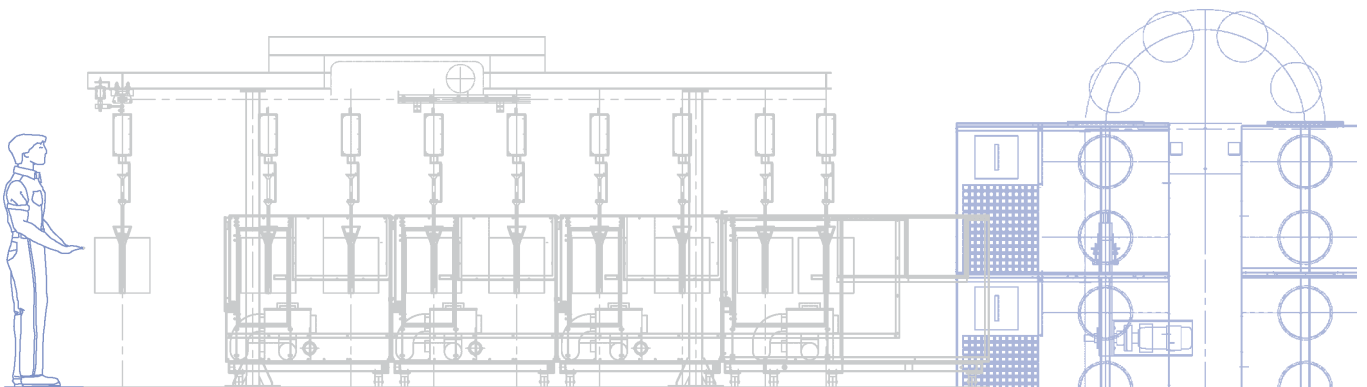


How the new technology works

After the shells have been attached to the conveyor, they are passed through the tunnel whilst continuously rotating. The drying time of each layer, which equates to the total time required to pass through the whole tunnel, is between 15 and 40 minutes. Depending on the number of modules, the dwell period of each tree per station is 2 to 5 minutes.

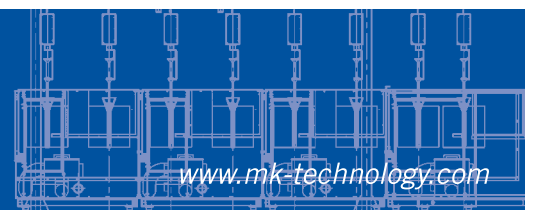
Normally, the shells are continuously built and dried layer by layer.

As an option, each tree can be processed by RFID, creating a so called transient micro-climate.



mk technology® TUNNEL

| Technical Data | US | SI |
|---|-------------------------------|-------------------------------------|
| Tree size: | (in) 20 Ø x 20 – 40 Ø x 47 | (mm) 500 Ø x 500 – 1.000 x 1.200 |
| Tree weight: | (lbs) 77 – 770 | (kg) 35 – 350 |
| Shortest interval: | 2 minutes | |
| Max. quantity of shells: | >60 per day | |
| Subject to the following conditions: 7 layers, 16 drying stations, 16 h per day | | |



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