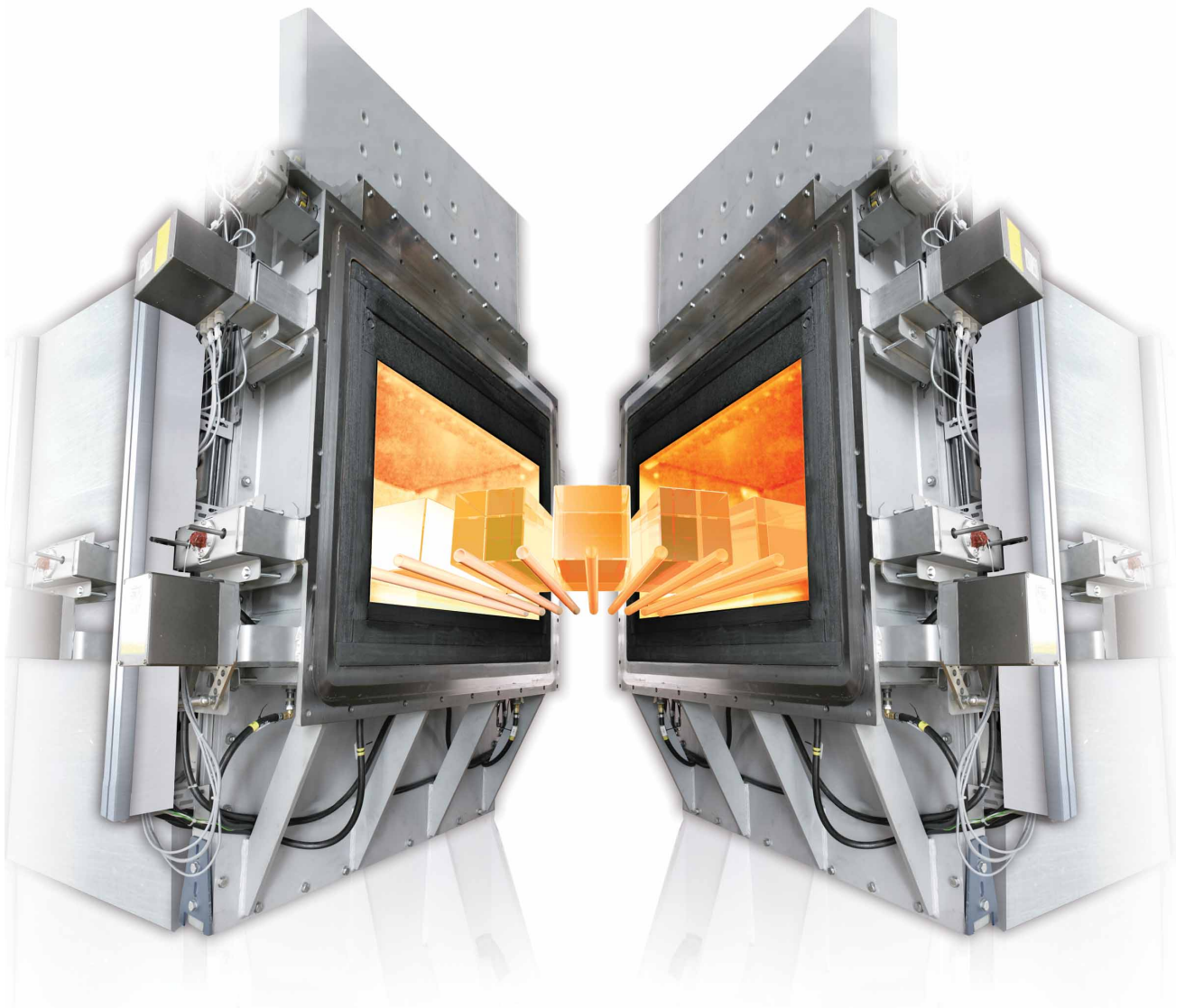


# EISENMANN

High-temperature vacuum door  
for continuous thermal processes

**E|GATE**



## For the first time in continuous thermal processes: Separation of pressures & atmospheres in high-temperature kilns

EISENMANN presents the new high-temperature vacuum door E-GATE. Designed as a double door, this new development will be installed in roller-type kilns from EISENMANN.

For the first time, it will allow continuous operation in thermal processes, with separation of pressures and atmospheres in the high-temperature area, thus establishing the conditions necessary for cost-efficient line production of high-tech products in special atmospheres with high throughputs.

### Improve efficiency – save energy

Designed for temperatures up to 1700 °C, it is the first system to allow rapid changes of pressure and atmosphere within a high-temperature zone.

As a result, large quantities can be handled also when zones with different atmospheres and pressures have to be separated at high temperatures.

Moreover, the new system allows considerable energy savings in comparison to discontinuous systems, as the heating and cooling processes needed in batch operation are no longer required.

### Reduce costs

E|GATE separates complex and critical process areas from less complex areas like heating and cooling, which are realized with simple standard technology. This capability is the key difference to existing batch systems. Therefore the sophisticated technology is used only where it is really necessary to allow maximum cost savings.

Continuous production systems grant many opportunities for optimizing and shortening the process in order to improve quality and reduce costs.





Used as double door to separate atmospheres



Zones with process-related atmosphere and temperature in a continuous kiln

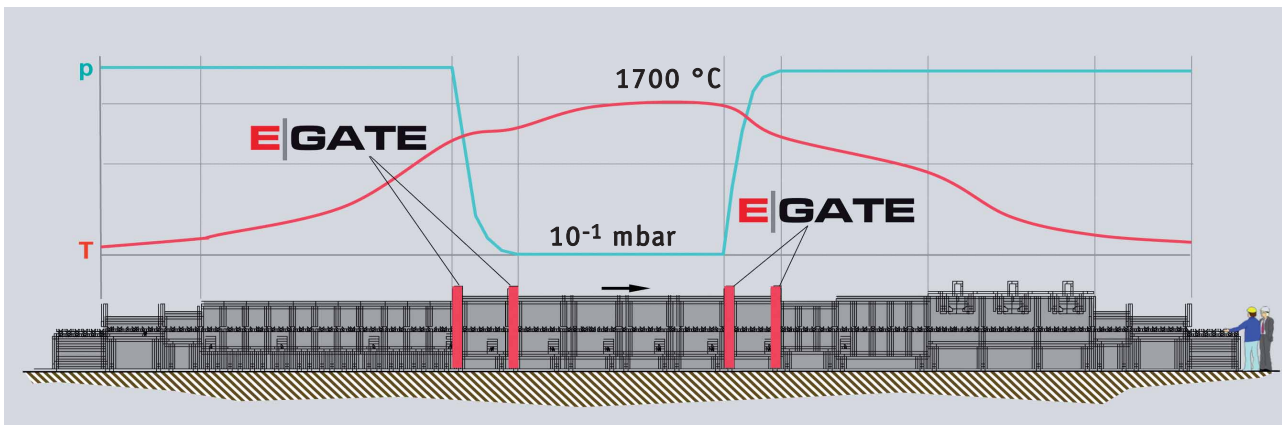
## From development to production

E|GATE has been developed to maturity in EISENMANN's development and test center, where it has also been tested under production conditions, successfully achieving operating temperatures of up to 1700 °C and a vacuum of 10<sup>-1</sup> mbar.

Different pressures, atmospheres and temperatures can be realized in a continuous process, while the position of E|GATE can be chosen as desired. In this way, zones with very different process requirements can be separated from each other.

Compared with existing discontinuous systems E|GATE eliminates the necessary time for heating and cooling, as well as manual handling when loading the kilns.

The diagram below illustrates some of the possible uses of E|GATE as a double door.



E|GATE allows process-related separation of atmospheres and temperatures in a continuous roller-type kiln from EISENMANN



# EISENMANN

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