c.FLEXCON

Flexible conveyor belt furnace for R&D and high-volume production



c.FLEXCON is a highly flexible and reliable conveyor belt furnace designed for all thick film applications. The system provides a high process capability and ensures an economic and efficient production.

A PLC system with bus connection monitors and controls all relevant process parameters. Data logging of process data for documentation and quality management complements the system.

Gas purity and gas flow inside the process channel play a central role to the product quality.

c.FLEXCON is characterized by a gas tight muffle with excellent temperature and process gas control. A smooth air flow inside the process muffle ensures optimal process conditions as well as the purging of volatile organic compounds (VOC).

Thanks to our broad expertise in furnace engineering we are able to provide conveyor furnaces tailored to our customers' demands and applications in addition to the standard versions.

THICK FILM

HIGH-TEMPERATURE PROCESSING

GAS TIGHT MUFFLE

centrotherm

FEATURES & BENEFITS

- Excellent cross-belt temperature uniformity
- Gas tight muffle
- Smooth and jerk-free substrate transport
- Easy temperature profile adjustment by 8 to 10 separately controlled heating zones
- MES connection via OPC-UA

TYPICAL APPLICATIONS

- Sintering
- MLCC
- LTCC
- Annealing (100 % H_2)

OPTIONS

- Maximum process temperature up to 1150 °C
- N_2 / O_2 gas line
- Forming gas 95/5 N_2/H_2 gas line
- Belt cleaning with ultrasonic bath
- Automatic refill for ultrasonic bath
- Side heating for improved temperature uniformity: ± 1.5 K (400 mm belt)
- Active cooling of housing
- O_2 measurement
- Type S thermocouples
- High-performance muffle for frequent change of process temperature
- Temperature profiling equipment
- Internal and external UPS (Uninterruptible Power Supply)

KEY DATA

Process temperature	400-900 °C
Process gas	Compressed dry air (CDA)
Typical belt speed	40-240 mm/min
Belt width	260 mm / 400 mm
Height above belt	40 mm
Cross belt temperature uniformity	± 1.5 K (260 mm belt) ± 2.5 K (400 mm belt)

contact us!

centrotherm international AG
Württemberger Str. 31
89143 Blaubeuren, Germany

T +49 7344 918 0
info@centrotherm.de

Errors and omissions excepted.
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