

JUMO gets it done!

We shape the future:
more dynamic, more digital, more sustainable, more together



Industrial furnace

Christoph Bollgen

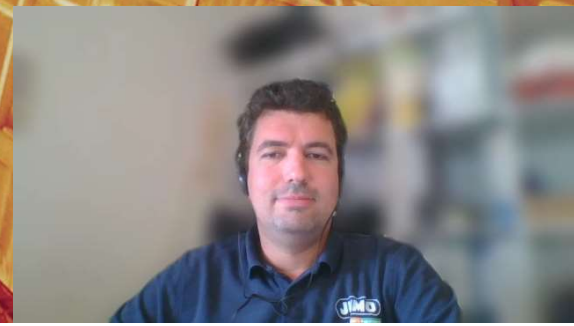
SECO WARWICK GROUP

ON-LINE B2B EVENT

e-SEMINAR 4.2

HEAT TREATMENT & METALLURGY

27 - 29.09.2022
3 days event

A background image of a highway at night with light trails from cars, creating a sense of motion and speed.

Agenda

Personal introduction

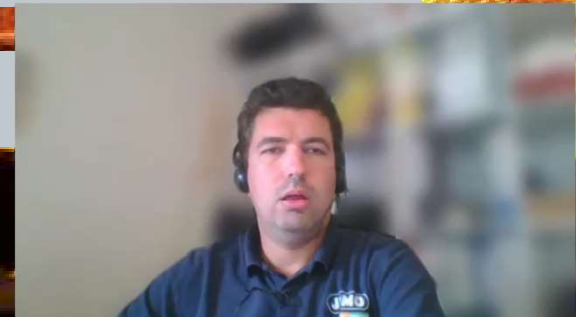
Application example discontinuous furnace (Chamber furnace)

Application example continuous furnace (Belt furnace)

Product portfolio

System solution

Calibration service



Personal introduction

- ✔ Apprenticeship industrial clerk
- ✔ Bachelor Industrial Engineering specializing in automation and robotics
- ✔ Master Industrial Engineering
- ✔ Service technician for burner systems
- ✔ Application engineer JUMO Process Control



Application example discontinuous furnace (Chamber furnace)

With separate controllers and recorders

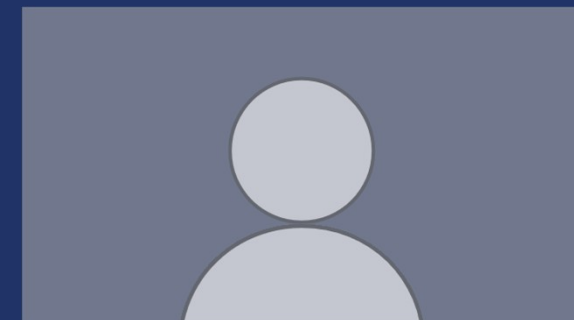


Single or double resistance thermometer with SAT test hole

TYA-Power controller

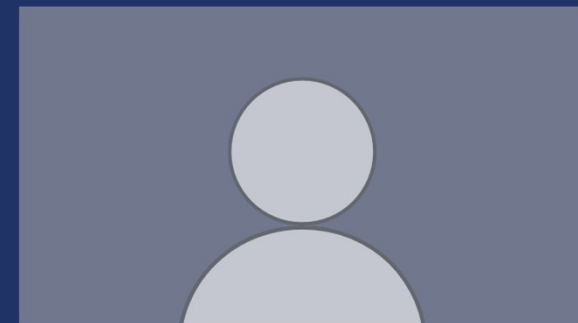


Safety temperature limiter with certified resistance thermometers SIL 2 or SIL 3

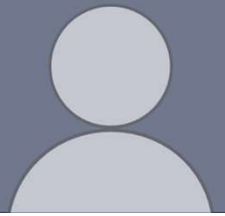


Task of the temperature controller like diraTRON

- Precise control of temperature and time-dependent processes
- High flexibility in integration, taking into account building and process specifications
- Easy operation
- Easy input of program steps and accurate sequencing of programs
- Calibration of measurement inputs according to AMS 2750 and CQI-9, 11, 12 & 29



Kompaktsystem für Temperatur

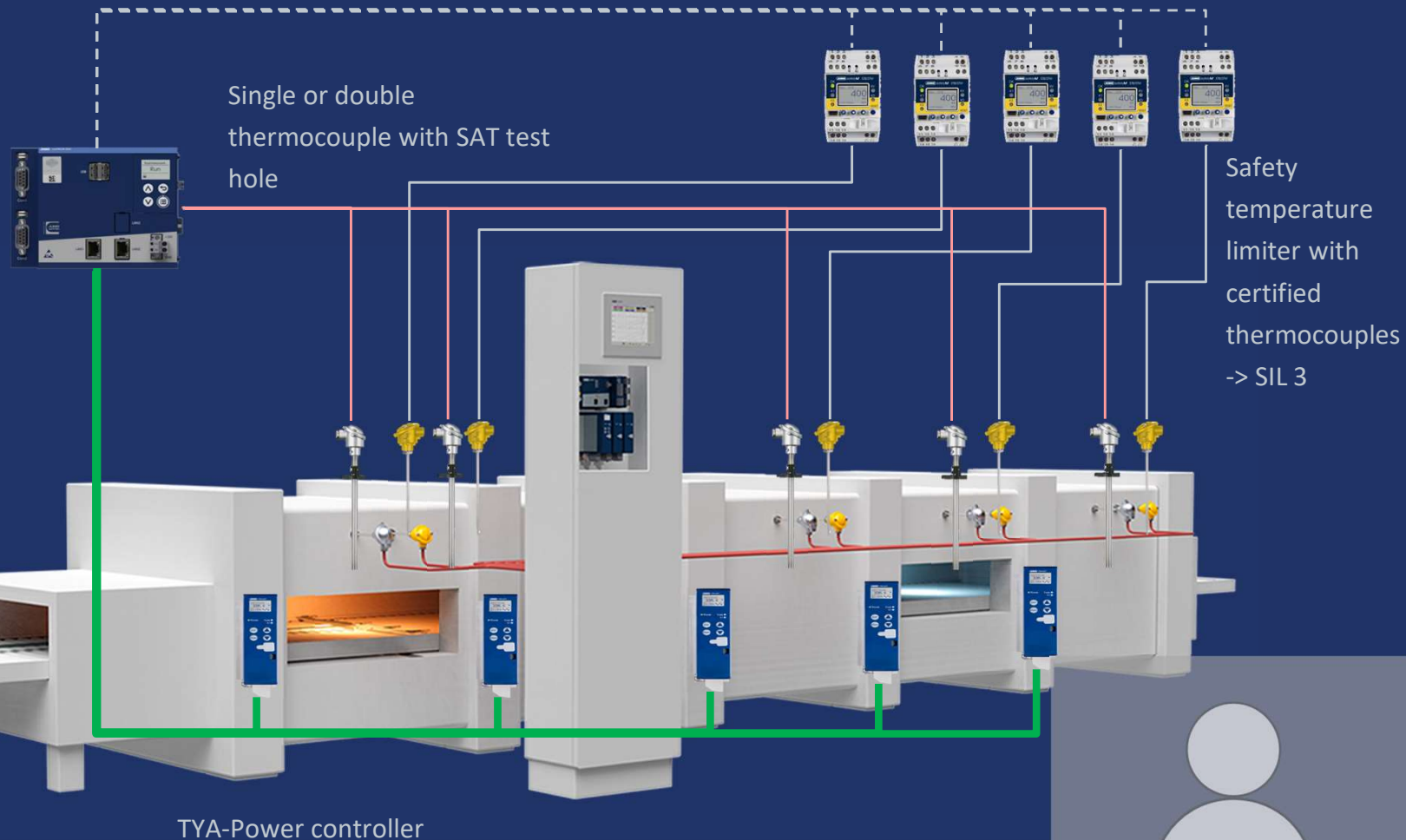


Application example continuous furnace (Belt furnace)



Automation system
variTRON all in one
controlling and recording

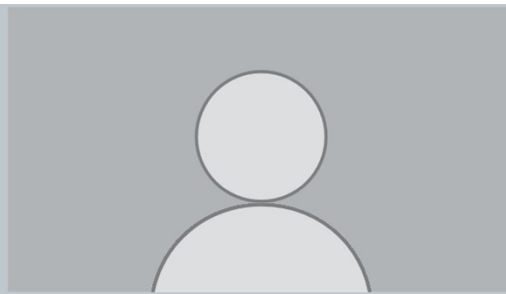
thermoCOR for SAT and TUS
tests according to AMS2750
or CQI-9, 11, 12 & 29



TYA-Power controller



System solution process engineering



JUMO smartWARE

Evaluation

Kleine Kurzbeschreibung über die App, was sie so kann, was für Funktionen diese hat etc.

HINZUFÜGEN

SCADA

Kleine Kurzbeschreibung über die App, was sie so kann, was für Funktionen diese hat etc.

HINZUFÜGEN

Program

Kleine Kurzbeschreibung über die App, was sie so kann, was für Funktionen diese hat etc.

HINZUFÜGEN

JUMO smartWARE

Setup

Kleine Kurzbeschreibung über die App, was sie so kann, was für Funktionen diese hat etc.

HINZUFÜGEN



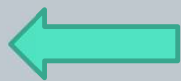
Sensorik



Automation



Operator of the system

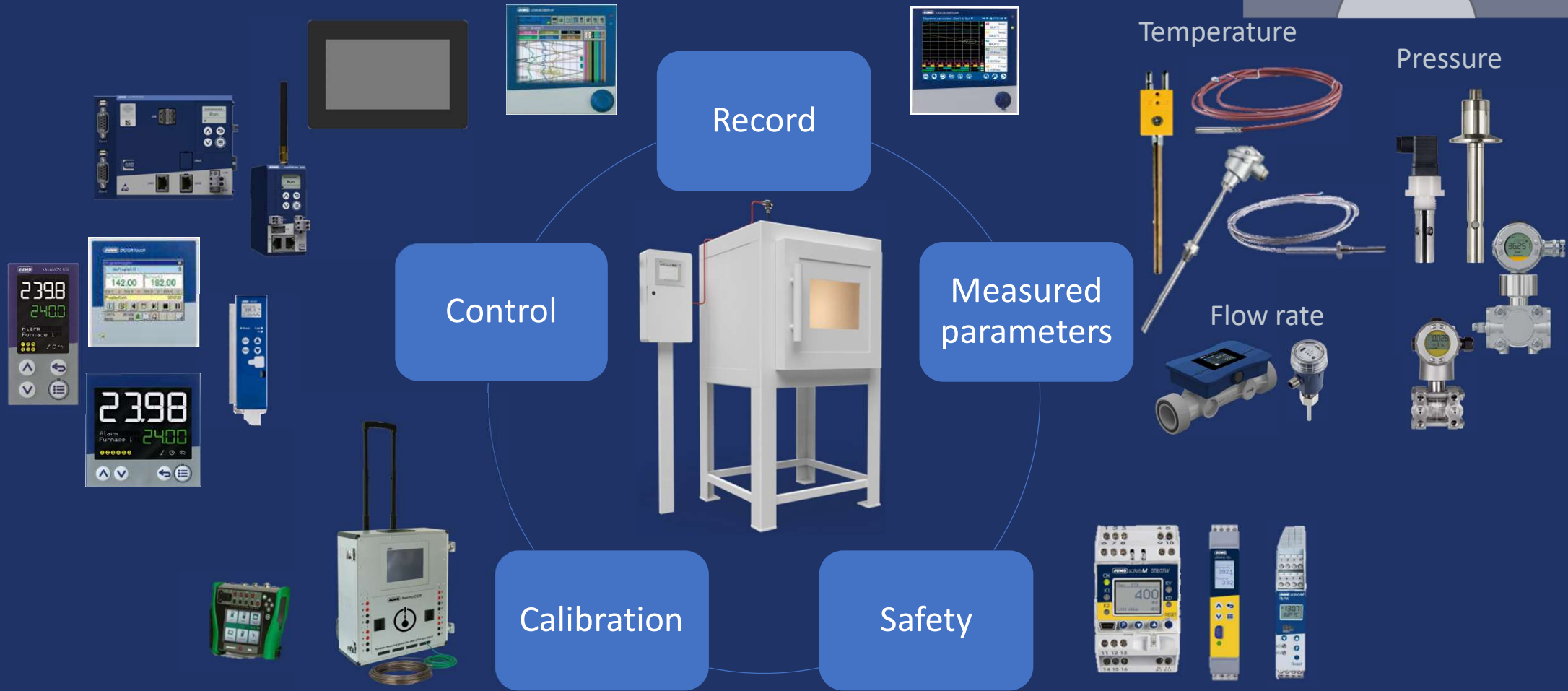
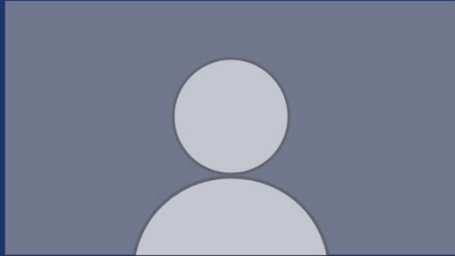


Plant operator

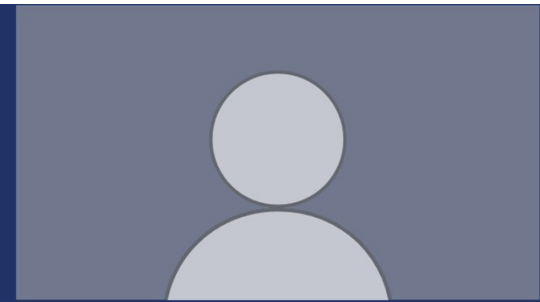


Equipment manufacturer

Product Portfolio



System solution



Service calibration



Engineering



Products



Consulting of CQI-9, 11, 12, 29 and AMS2750

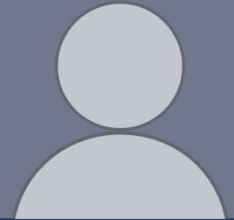


Calibration Service

- ✓ Accredited according to DIN EN ISO/IEC 17025:2015
- ✓ Laboratory identification: D-K-15129-01-00
- ✓ Calibration range: -80 to 1100°C
- ✓ On-site calibrations
- ✓ Calibration of
 - ✓ Resistance thermometers + thermocouples
 - ✓ Data logging
 - ✓ Dry-well calibrators
 - ✓ Climatic chambers
 - ✓ Temperature display devices/simulators
 - ✓ Analysis-, pressure-, humidity- measuring technology
- ✓ Calibration as a service of third-party products
- ✓ Cost-effective series calibration for platinum resistance thermometers
- ✓ Test equipment / calibration service



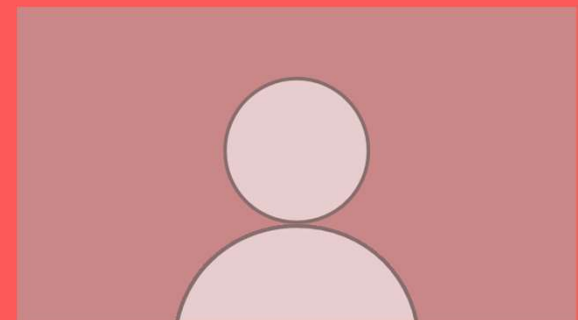
Tests according to AMS2750 and CQI-9, 11, 12 & 29



- ✓ Temperature uniformity TUS and system accuracy SAT with the JUMO thermoCOR test device
- ✓ In order to achieve the required quality standards for the components to be manufactured in the series in a reproducible way.
- ✓ Repeated tests, as well as the control of the instrumentation including the corresponding documentation are required.
 - ✓ Temperature uniformity in the usable space TUS
 - ✓ Instrumentation (specification of measuring and control equipment)
 - ✓ Calibration of the measuring section from the controller via the measuring line to the thermocouple
 - ✓ System accuracy test SAT
 - ✓ Monitoring the test dates

External providers of calibration services must be certified to ISO/IEC 17025 or another national standard.

Internal sources providing calibrations shall do so in accordance with ISO/IEC 17025 or other national standard.





Thank you for listening!

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Industrial Furnace**

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