

HEAT PROCESSING

INTERNATIONAL MAGAZINE FOR INDUSTRIAL FURNACES · HEAT TREATMENT PLANTS · EQUIPMENT

**THERM
PROCESS**



Special Issue:

Read all about the mega event
of the year from pages 117-142

<http://www.heatprocessing-online.com>



Recycling Plant
with Twin-Chamber
Melting Furnace TCF

Protecting the environment and cutting costs.

TCF (Twin-Chamber Melting Furnace)-Recycling Plant:



- melting of contaminated scrap
- TCF-Process
- metal circulation system
- automatic charging equipment
- integrated control system

Benefits:

- easy pouring
- very safe operation
- fully automatic operation
- environmental friendly
- reliable operation

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TENOVA

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Visit us:

Thermprocess Düsseldorf, Germany
Booth 9C62
28 June - 02 July 2011



safe condition. With regard to the limiter function, the device is released again by an internal or external unlocking key. Process values can be transmitted to a recording device or a controller or a higher-ranking control system via the series

diodes show whether or not the device is functioning perfectly or if a pre-alarm or a limit value alarm has been triggered. The measuring input with a large number of linearization can be freely configured for RTD temperature probes and thermocouples and for current measurements. In the event of faults/errors, two relay outputs (pre-alarm and limit value alarm) switch the process into a

analog output. Additional features, such as a password controlled access and a settable level locking increase operating safety and process reliability. Voltage supplies of AC 110...240V (-15 %/+10 %), 48...63Hz or AC/DC 20...30V, 48..63Hz are available.

JUMO GmbH & Co. KG
www.jumo.net
Hall 10 / Booth H58

Inverter with stepless frequency setting

HWG Inductoheat is the company to feature an inverter with a stepless frequency setting in its product range.

hardening workpieces. Users can harden different areas of a workpiece with custom depths ranging between 0.5



Statitron IFP now makes it possible to use the same inductor to create different hardening depths in different places on a workpiece – in a single uninterrupted process.

This innovative inverter allows users to control the amount of electricity they apply when

mm. Retrofitting is no longer necessary because the workpiece is completely hardened in a single, uninterrupted process using the same inductor.

HWG INDUCTOHEAT GMBH
www.hwg-inductoheat.de
Hall 10 / Booth B24

Straight thermocouple in a testable design

By the straight thermocouple in a testable design, the HERTH elektrische Temperaturgeber GmbH makes it possible, to discover the deviation of the operating thermocouple against a reference thermometer during the process

the customer to locate a calibrated reference sensor directly near the tip of the operating thermocouple in a testable design, in order to compare its value by a digital thermometer. The thermocouple corresponds to the



in the course of the DIN ISO 9000 ff (e.g. at heat-treating furnaces). The thermocouple in a testable design will be supplied as a single or double exchangeable measuring insert. The terminal block has a centre hole which enables

demanded tolerance according to DIN EN 60584 and can remain or must be replaced.

HERTH elektrische Temperaturgeber GmbH
www.herth.de
Hall 9 / Booth A25

New ratio pyrometer with a built-in video camera

The new CellaTemp PA Pyrometer series was launched on the market one year ago. The series has now been expanded to include a new version which measures temperatures using a two-colour or ratio technique. Even when the signal is weakened due to ambient dust, steam or a dirty lens, this pyrometer, which detects radiation at two different wavelengths, will continue to produce reliable temperature data. CellaTemp PA has a special function which monitors the amount of dirt

obstructing the view of the sight glass.

CellaTemp PA features two analogue outputs. This lets you, for example, analyse both the single-wavelength and the dual-wavelength (ratio) temperature data

