INDUCTOHEAT 4.0

Inductive hardening machines with digital real-time process control and interactive data exchange

- Automated process control
- Optimized maintenance with real-time support
- Higher energy efficiency
- Needs-based monitoring of real-time process, energy, and machine data

1. Real-time parameter monitoring in the control system
2. Envelope curve monitoring by means of a decentralized processor unit
3. MATCH – automated inverter adjustment with pneumatic capacitor and transformer stepping switch in the control system
4. Automated in-process measuring of the quenching emulsion concentration (optional)
5. Need-based adjustable energy efficient liquid pumps (optional)
6. i-SYST – platform-independent solution for energy and process data management, and machine communication
7. Pyrometer controlled process temperature
-SYST

platform-independent and upgradable system for:
• administration of machine-related data
• bidirectional communication: machines to humans (operator/service) and machines to machines

Summary of customer advantages

• Optimization of service calls / recommendation of preventative maintenance measures
  All updated and relevant machine data and information is available to the system operator on-site (record of service calls, documentation, damage symptoms, sensor values, consumption figures, operating data)
• Internal benchmarks for the machines
  Customers can compare their machines according to operating data, sensor data, and consumption figures
• Production history
  Benchmark for productivity, quantities, or defective parts between different months, years, or purchase orders
• Status monitoring
  E-mail alarm notification to the system operator/service when limits are exceeded (optional)
• Automated reminders
  The customer can be automatically notified by e-mail of upcoming maintenance appointments (optional)
• Specified information
  for the system operator, e.g. energy costs per piece / hardening
• Camera-guided diagnosis
  for real-time support (optional)
• Machine-internal process optimization
  MATCH basis for individually developed solutions

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