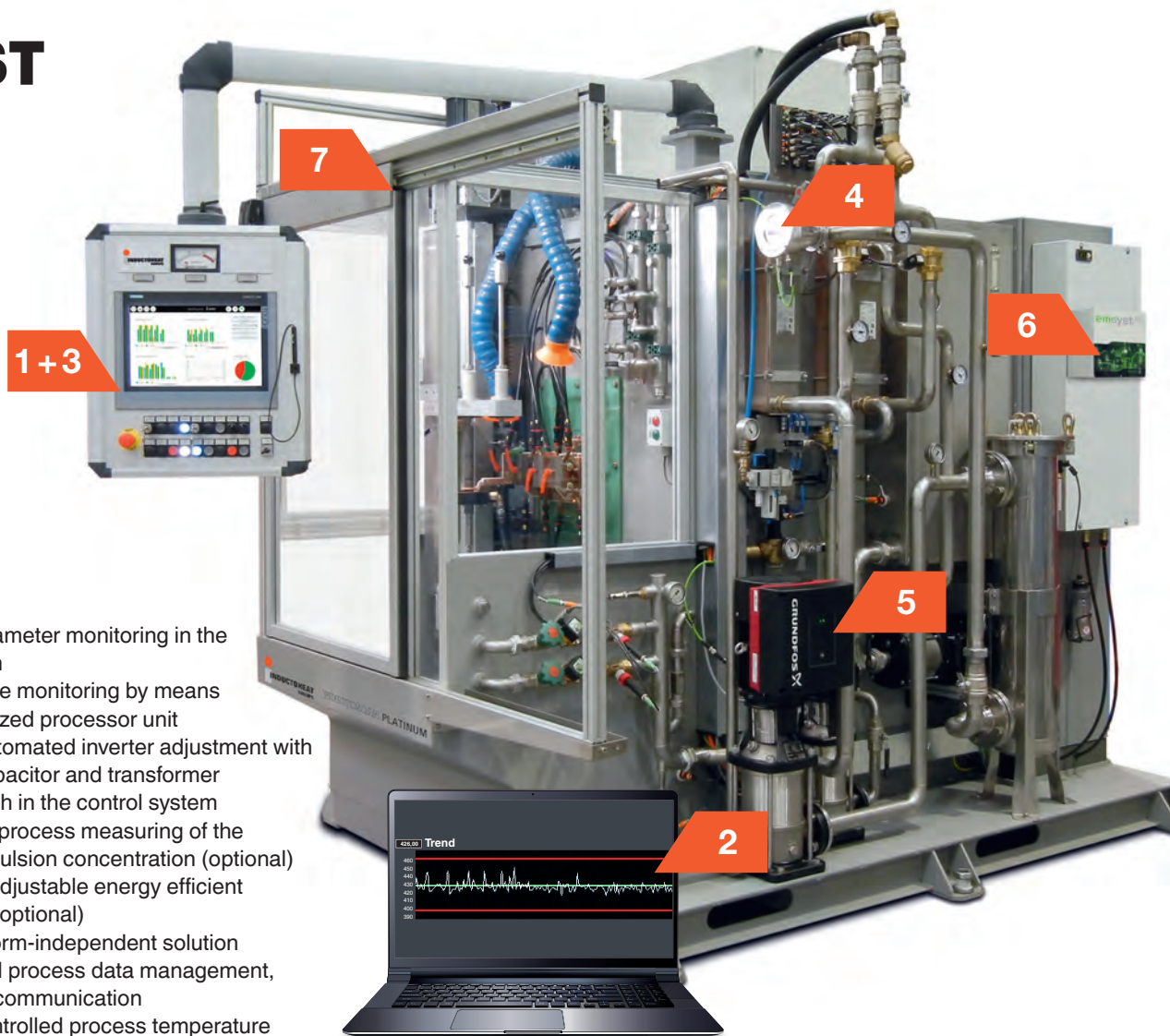


## INDUCTOHEAT 4.0

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

### -SYST



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


# INDUCTOHEAT 4.0

## -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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