# Q·trac

INTELLIGENT QUALITY INSPECTION SYSTEM FOR GRAVURE CYLINDERS

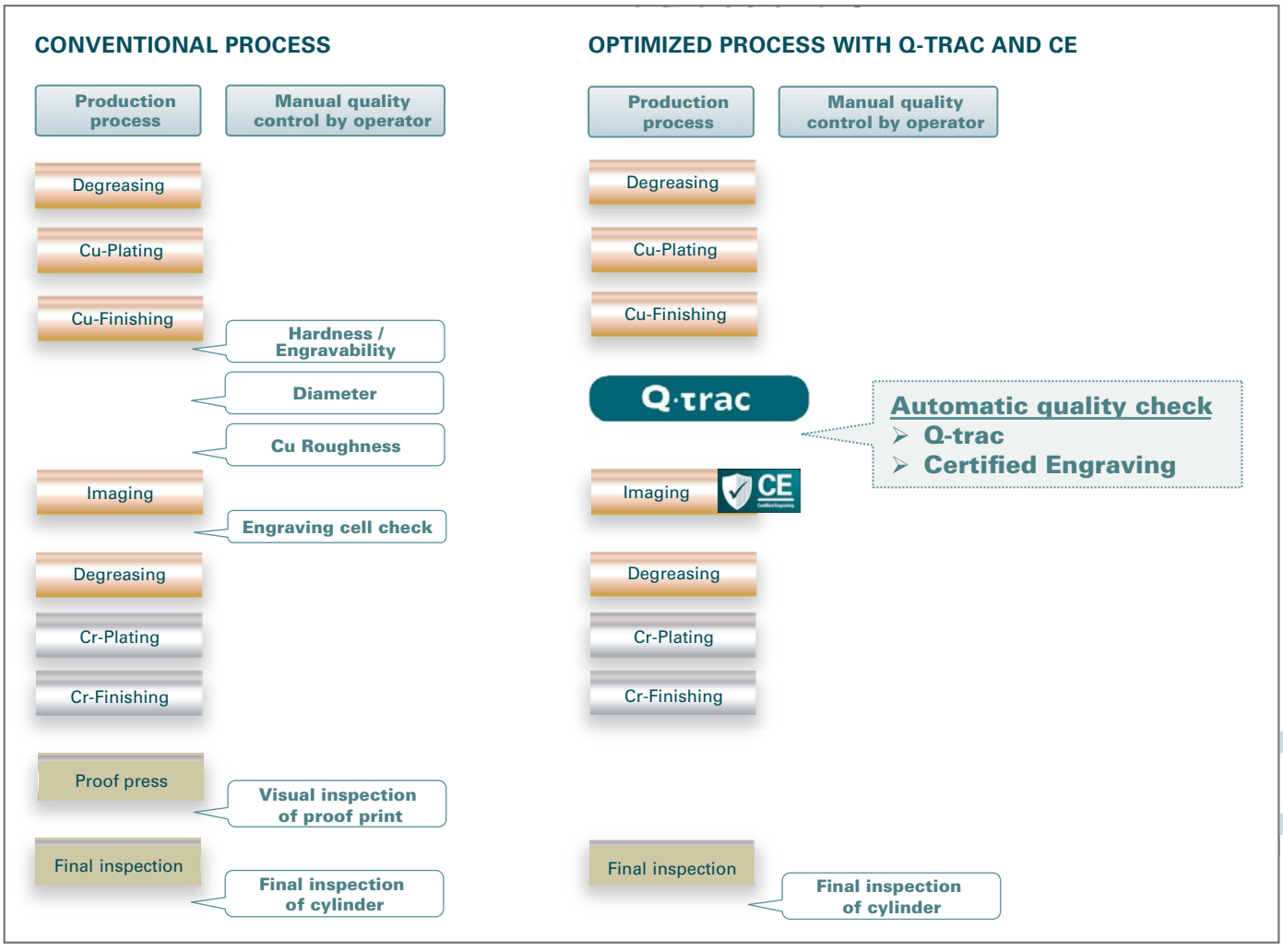

BASED ON INNOVATION.

K.WALTER
PLATING AND PROCESSES

# The new benchmark for quality control

**Q-trac** is an intelligent quality inspection system for gravure cylinder production. It sets new standards thanks to its fully automated processes for detecting surface defects on non-engraved copper surfaces and measuring relevant quality parameters. Whether as a stand-alone system or fully integrated into an **AutoCon** line, the highly precise measurements, intelligent scan technology and digital networking of **Q-trac** ensure that time and money can be saved in downstream processes.

| For cylinders with: | |
|---|---|
| Total length max. | 2350 mm |
| Face length max. | 1600 mm |
| Circumference max. | 1000 mm |



# Unique combination of measuring and scanning

**Q-trac** is unique. In comparison to other systems, it uses intelligent algorithms to check cylinders for surface defects while automatically recording quality characteristics such as cylinder diameter, roughness and engravability.

The system is self-calibrating, meaning the measuring units are systematically checked and, if necessary, recalibrated in a fully automated process. When integrated into a network with **CYON**, quality data is fed back to a database in real time, so potential corrective measures and recommendations can be initiated.

Automated scanning process.

Automated measurement of diameter, roughness and engravability of the copper cylinder.

Integrated calibration unit.

# Cost savings thanks to digital real-time checks

**Q-trac** detects deviations from the specified quality parameters at the earliest possible stage, in real time, fully automatically and without an operator. The system ensures that no defective cylinders are passed on to downstream processes, thus preventing unnecessary production loss and unnecessary machine assignments.

The operator identifies defects reliably and simply on the screen, meaning the physical workflow is not interrupted and there is no additional handling of cylinders.

The **Q-trac** user interface displays the detailed measuring results, guides users easily through the applications and offers the option of video-supported maintenance.


Q-trac map highlights and documents production-relevant surface defects and measurement results.


Machine user interface.

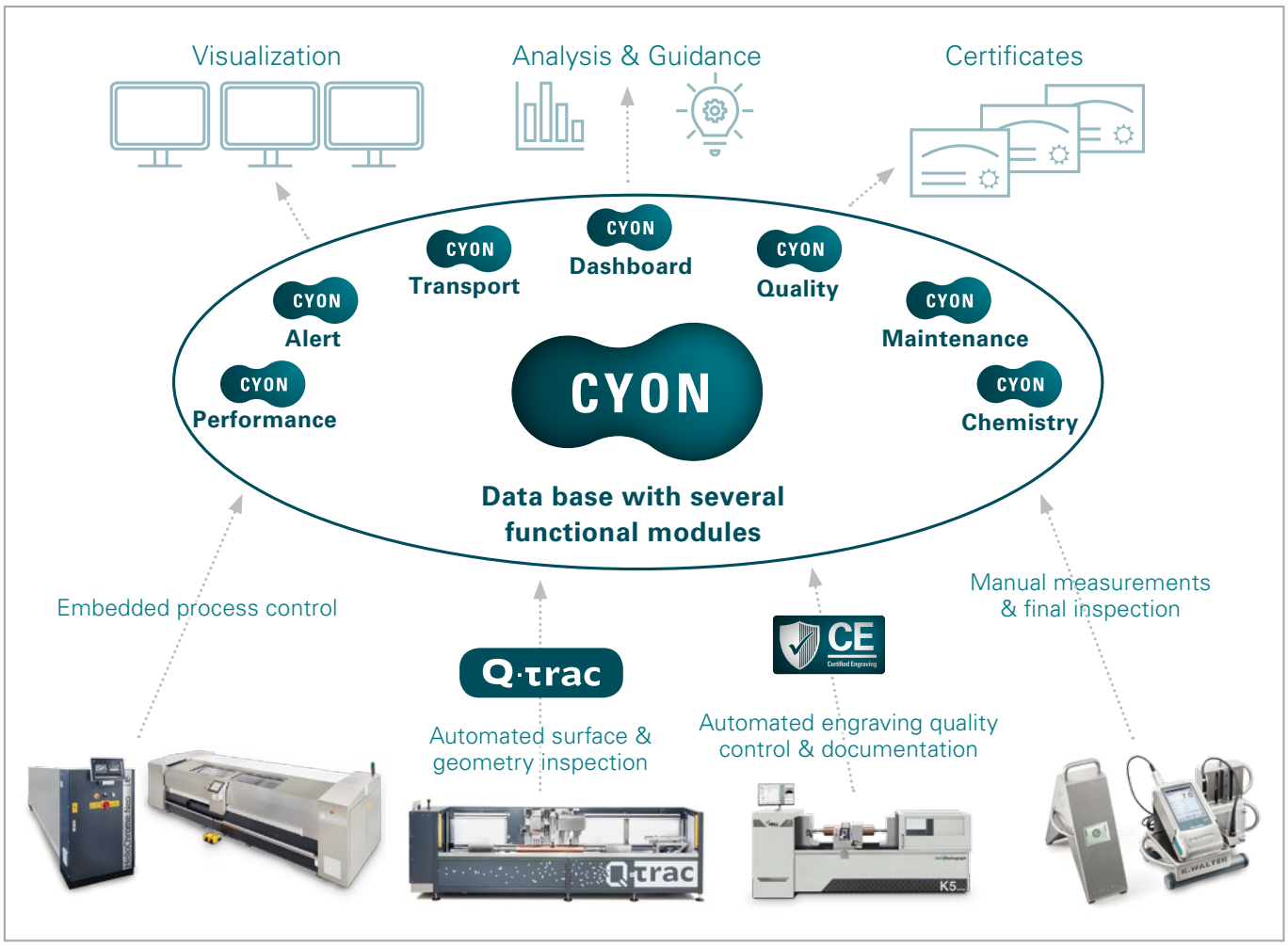
# Q-trac, CYON and Certified Engraving

The complete system and its various components follow a concept centered around the earliest possible detection of faults, digitalized real-time checks and standardized process guidance.

When using **Q-trac** all quality-relevant parameters are checked automatically before engraving.

**HELL Certified Engraving** utilizes a range of functions to cover quality control for imaging – e.g. stylus fractures, slip detection, automatic test cut and gravure check, etc.

**CYON** brings the data together, visualizes it in real time, makes recommendations for action to remedy faults and enables fully comprehensive quality assurance and documentation, among other things.




Digitally networked production environment from CYON with Q-trac and Certified Engraving.

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