LAHTI
PRECISION

Control systems
Modernizations and upgrades
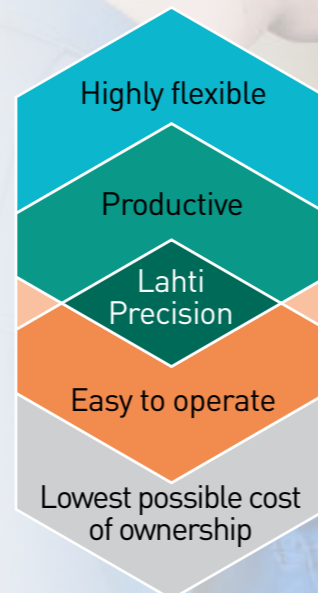
Lahti Precision
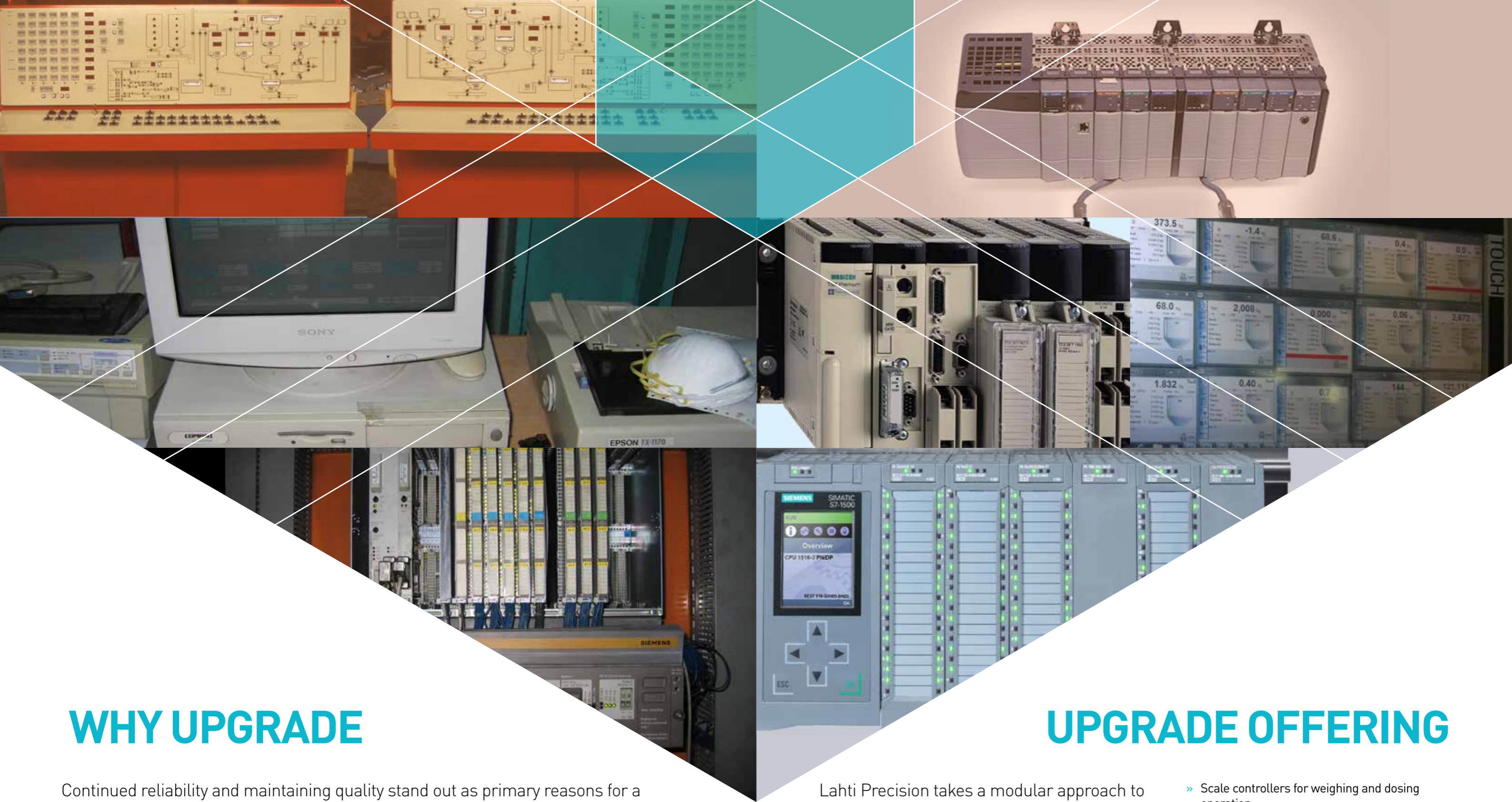## is a batch house solution provider

YOUR PARTNER IN RAW MATERIALS TECHNOLOGIES

For decades, companies all around the world have chosen Lahti Precision as their supplier for batch house and bulk solids handling systems with great success. However, all systems age and times change so eventually there will be a need to upgrade or expand a plant, or modernize a control system. Due to its long and extensive global experience, Lahti Precision can offer tailored solutions to any need at hand - any kind, any size, anywhere.

Through a modular approach, the extent of an upgrade can vary from budget-oriented where the existing system is reused as much as possible, to an up-to-date system with the latest features. Control system systems can be tested thoroughly in the workshop prior to shipment to a client, thanks to our in-house engineering and own manufacturing facilities. This also enables on-the-fly upgrades with minimal plant downtime.

Lahti Precision started manufacturing scales in 1914. Today our company is an expert in dosing, weighing and mixing applications supplying batch plants for the glass industry, drymix plants and services globally. Our vast experience in core technology guarantees excellent dosing accuracy and consistent mixing quality. We help our customers to succeed in their own production by working closely together, finding the best solutions for the actual need. This ensures our customers the lowest cost of ownership.

Highly flexible

Productive

Lahti Precision

Easy to operate

Lowest possible cost of ownership

WHY UPGRADE

Continued reliability and maintaining quality stand out as primary reasons for a modernization. All components do age and at some point the technology being used becomes outdated and it typically becomes harder and more expensive to find some spare parts and reated support. Upgrading can also improve production quality, reduce downtimes and increase profits through more advanced controls, more effective operations and maintenance, and through advanced connectivity to name a few advantages. Upgrading is an investment that does pay back.

UPGRADE OFFERING

Lahti Precision takes a modular approach to batch house operation by dividing it to parts.

- » Scale controllers for weighing and dosing operation
- » PLC to manage the scale controllers and control the equipment
- » SCADA system to control and monitor the process
- » Recipe handling and reporting for production management and full traceability
- » Remote connections for cost-effective and fast modifications, upgrades and service
- » On-Site services for commissioning, training, inspection and services

Control system upgrade tailored for   any need through modular approach

SCALE CONTROLLER UPGRADE

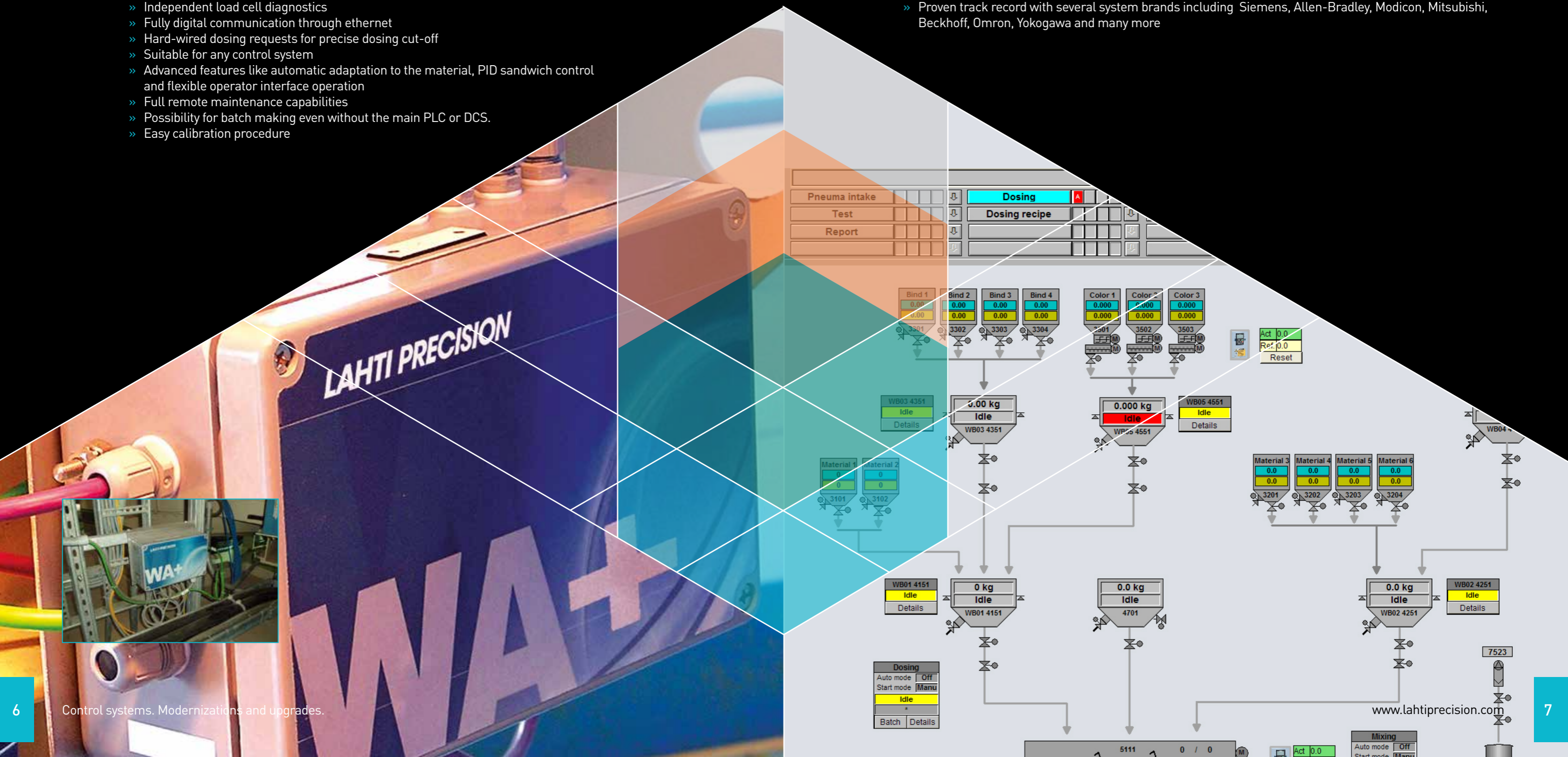Existing scale controllers can be replaced by WA-951+ -dosing controllers with the following key features:

» Simple and advanced design, very few parts
» Field-mounting with direct load-cell connections eliminates the need for sensitive signal cables
» Reduced cabinets size due to field mounting, cabinet mounting is also an option
» Operator interface through WA-hmi –application with various installation options. No physical display/keyboard
» Independent load cell diagnostics
» Fully digital communication through ethernet
» Hard-wired dosing requests for precise dosing cut-off
» Suitable for any control system
» Advanced features like automatic adaptation to the material, PID sandwich control and flexible operator interface operation
» Full remote maintenance capabilities
» Possibility for batch making even without the main PLC or DCS.
» Easy calibration procedure

PLC UPGRADE

Reusing the existing or upgrading to new

» Upgrading any existing system to any major system brand
» Complete or partial upgrade with re-use of existing components
» Proven system and program architectures
» Centralized or distributed I/O-design
» Advanced system diagnostics to minimize downtime
» Easy recovery and redundancy options
» Proven track record with several system brands including Siemens, Allen-Bradley, Modicon, Mitsubishi, Beckhoff, Omron, Yokogawa and many more

Control system upgrade tailored for any need through modular approach

SCADA PC UPGRADE
State-of-the-art systems to maximize human control over the process

- » Human-Machine Interface (HMI) systems based on known brands like Siemens, GE and Wonderware
- » Proven and well-structured control system architecture quick to learn and easy to operate
- » Redundancy through dual SCADA servers
- » Flexible design and HMI options
- » Physical PC hardware and virtualization options, future-proof designs

RECIPE HANDLING AND REPORTING UPGRADES
Browser-based recipe management and report handling provide plant-wide access and more

- » Web browser access to the functions. No need for client software installation
- » Recipe/report functions are also seamlessly integrated to the SCADA HMI
- » All data is stored throughout the life of the plant.
- » Detailed batch-, production- and consumption reports
- » Various report options
- » SQL-database based
- » Fully redundant through dual reporting systems (in case of dual SCADA's) with database replication to equalize the data on both systems
- » Interfaces to ERP systems like SAP

REMOTE CONNECTIONS
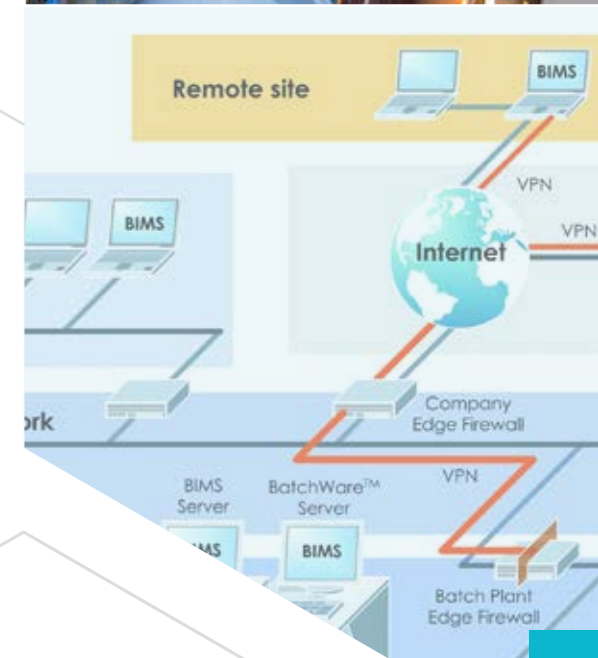Global or local - no difference

- » Ethernet access based on a secure VPN tunnel or on a customer-specified solution
- » By default Lahti Precision provides a VPN router which customer connects to the internet and batch plant switch. IPsec VPN provides security and the router can also be disconnected when not needed
- » Access to all system components with no exceptions or limitations
- » Upgrades and changes to the system according to the actual needs
- » Maintenance and process optimization by Lahti Precision experts
- » Cost-effective and really fast method when remote support is needed

ON-SITE SERVICES
Local actions when human presence is preferred

- » Control system commissioning and testing
- » Control system training for operator personnel
- » Control system training for maintenance personnel
- » Inspection services to evaluate the status of the plant and need for spare parts and upgrades
- » Maintenance services

Experience that weighs

Lahti Precision has a highly experienced team with comprehensive and long-standing experience from different kinds of batch processes and bulk solids handling applications all around the world. Over a century of experience in weighing industry and decades in process automation allow us to guarantee state-of-the art design and quality of Lahti systems.

Lahti Precision is constantly using both state-of-the-art and pioneering solutions like in-house PLC- and scale controller design that have proven themselves over and over again.

Lahti Precision is also a holder of Siemens Solution Partner–status in automation and drives. This ensures that Lahti Precision Oy is not only a technology leader but continues to evolve and maintains excellence as the times evolve.

Customer references are available on our website:
www.lahtiprecision.com

Experience that weighs

LAHTI PRECISION OY
Ahjokatu 4 A, P.O.B. 22
FI-15801 Lahti, Finland
Tel. +358 3 829 21
Fax +358 3 829 4100
general@lahtiprecision.com
www.lahtiprecision.com