

Industrial Digital Solutions

The path to smart factory operations

Atotech

atotech.com



Industrial Digital Solutions at a glance



Global market leader in providing equipment, chemistry, software and services out of one hand



Present in more than **40** countries serving more than **1,200** customers worldwide



10 TechCenters worldwide provide best local service



Our outstanding team of highly qualified experts is dedicated to ensuring that our customers achieve their goals



We collaborate heavily with the entire value chain to seek new paths and set benchmarks for the development of innovative processes



Our remote service team supports customers through secure connections for fast remote service and support around the clock



With the aid of Microsoft HoloLens smart glasses, we use augmented reality technology for effective video and audio remote assistance



Our IIoT and data-driven digital solutions enable new levels of performance, operation, and support to our customer's production



Our solutions enable customers to implement smart factory design and practices



Industrial digitalization

Downtime can cost production capacity as much as

20%

Industrial digitalization unlocks unprecedented possibilities in maximising productivity

Downtime is one of the main factors impacting equipment productivity and causes millions of dollars in revenue loss each year. The existing manual and offline approaches to analyze quantitative and qualitative data for maintenance planning and prevention of failures have, until now, provided limited success in mitigating downtime.

The new industrial internet of things (IIoT) tools, combined with machine learning and artificial intelligence technology, provide new capabilities to improve this approach. This opens the door for data-driven solutions that enable maintenance tasks, optimization, and failure prediction in real-time, thereby cutting equipment downtime in half.

The transition to data-driven solutions also advances optimization in other core manufacturing sectors such as logistics, quality control, compliance, and more. In doing so, it creates the path to future Smart Factory operations.

Our digital solutions

20_{years}

experience in industrial software development

From equipment automation and Industrial Internet of Things to Smart Factory operation

As a leading specialty chemicals technology company, Atotech has a long history of providing chemistry, equipment, software, and services to diverse end markets.

For well over a decade, we deliver industrial software to facilitate superior production equipment-related solutions. This now also includes our IIoT digital solutions, which provide our customers with even greater advantages by enabling them to operate smart factories.

Our suite of solutions in the field of software and service combines industrial software such as SCADA with the latest digital technology (such as IIoT, augmented reality, and digital twin). All features work together in optimizing operations while providing support and increasing the performance of production equipment in factories. In doing so, we help our customers operate more efficiently, predict and schedule maintenance, eliminate unscheduled downtime, increase yield as well as monitor and automate production to the highest possible degree.

Our digital solutions include equipment control software as well as the Digital Factory Suite.

SOLUTIONS-BASED PACKAGE



CHEMISTRY



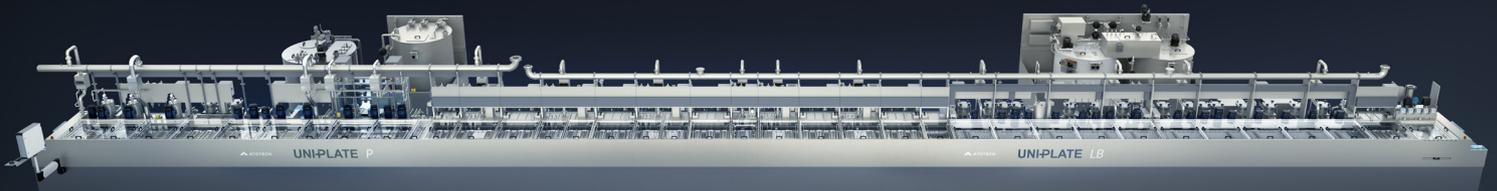
EQUIPMENT



SOFTWARE



SERVICE



Our broad solutions portfolio



Equipment control software

Atotech equipment is managed and controlled through our state-of-the-art Visualization and Control System (VCS). The VCS supports all standard SCADA features, enhanced production management solutions, and rich vertical integration capabilities.

Digital Factory Suite

Our Digital Factory Suite includes IIoT and data driven solutions, systems integration capabilities and remote services.



IIoT and data driven solutions

Using data and IIoT technologies, new levels of production and operation efficiency are enabled through:

- Centralized manufacturing data storage
 - A suite of applications using advanced data model algorithms and machine learning technology
 - Reporting and traceability management tools
 - Remote and proactive support capabilities
-



Systems integration

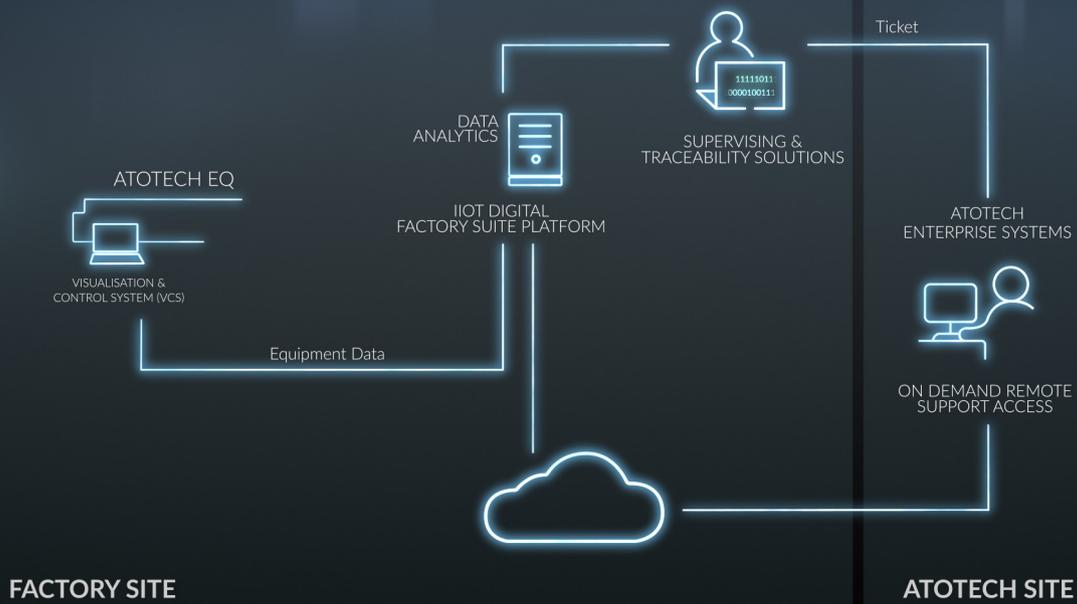
Using standard industrial protocols such as SECS GEM, our equipment can be easily connected to the customer production management systems such as MES



Remote service

We provide a suite of remote support tools for fast reaction, secure access, and sustainable support services. These include:

- Smart glasses using augmented reality technology for video and audio support
- A remote service platform for fast and secure remote troubleshooting



Digital Factory Suite

100%

Smart Factory enablement commitment

On the way to a smart factory

Our Digital Factory Suite helps our customers build and take advantage of smart factory operations. Our supervising and traceability solutions enable them to take the first steps in making the transition to smart, data-driven production operations and all the benefits IIoT technology brings with it. By unlocking new capabilities, they can generate unprecedented value, especially when combined with our systems integration and remote service solutions:



Reduce unplanned downtime

Real time monitoring of key equipment functionalities and mobile alerts are preventing defects and alarms to be overlooked. The speed of troubleshooting increases significantly, especially when combined with our remote service.



Production operation optimisation

With web access to equipment data, there is no need anymore to physically access the operator's workplace. Each user can select which data to monitor or analyse for different purposes.



Centralized and secured data storage

Data of all connected equipment is stored centrally and secured. This also acts as a back-up of the equipment data in case the data stored on the equipment computer is lost due to unexpected failures.



Smart Factory integration

The collected data and generated insights can be shared with other production site systems. Various purposes can be fulfilled, including process automation, traceability, maintenance planning, and many more.



Data analytics based learning

A great deal of insights and learnings is generated through data collection and analytics. This enables data driven improvements and optimisations to be explored and implemented.

Remote service with smart glasses

Available in

20

countries

Any time - any place

Our remote maintenance services are there 24/7 for a unique online engineering experience.

With our augmented reality-based support via HoloLens smart glasses, our experts can instantly investigate any issues a customer is facing on-site. While evaluating the task, the onsite technician makes use of the HoloLens glasses to see the expert through the holographic interface, who sits at the computer and provides augmented reality-assisted guidance. The communication between the onsite technician and the expert takes place through a secured Microsoft enterprise infrastructure.

Our augmented, reality-based assistance helps our experts provide the best and most sustainable support while eliminating the need to physically be there to solve the issue. This provides our global customers with significant advantages who can now benefit of an efficient around the clock support. Moreover, the service dramatically reduces equipment downtime for our customers, making it a true game-changer.



End markets and industries we serve



Smartphone



Automotive electronics



Computing



Big data infrastructure



Consumer electronics



Communication infrastructure

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