THE IIoT SOLUTION FOR A SMART FACTORY
FACTORY HUB

Rethink manufacturing
The smart way to start digitalising your production environment.
INDUSTRY 4.0, IIoT AND MORE FOR PRODUCTION COMPANIES

Industry 4.0, IoT, Condition Monitoring, Big Data, Artificial Intelligence, Predictive Maintenance, Cloud Services and Edge Computing — these are just a few of the areas of digitalisation that are becoming increasingly important for businesses. In this context, developments in IT are continuously expanding the options for optimising production processes through the comprehensive digitalisation of machines and the devices used. However, many companies find it difficult to get started with digitalisation and IIoT as there is such a wide and complex range of products and services on offer and many solutions can only be implemented by involving multiple suppliers. Limited company resources make it hard for companies to stay well informed and up-to-date on the latest developments in shop floor digitalisation.

Factory Hub is the solution for your digitalisation process

With Factory Hub, Konica Minolta can provide a pre-configured, quickly deployable IIoT solution. The solution contains all of the components required to increase digitalisation in an existing production environment as quickly as possible—without altering day-to-day operations. This ensures more transparency in the production processes.

Konica Minolta supplies all of the necessary services and hardware components to enable a smart, fast and straightforward start to the Factory Hub solution. This not only conserves internal resources, it also enables a timely introduction that is adapted to suit your individual needs.

Industrial Internet of Things (IIoT) for your company

Industry 4.0 and IIoT describe the process of networking of people, machines and industrial processes in order to enable intelligent production. This involves the use of state-of-the-art information and communication technologies that also allow the integration of older production machines—known as retrofitting. Machine states are continuously recorded, transmitted to a central IT platform and clearly visualised in dashboards. This allows the information to be made available in a manner that meets the needs of specific target groups. This means that production staff always have an up-to-date view of the production machines, as do administration staff and management. Production limitations caused by unplanned downtimes, for example, can be detected immediately, meaning changes can be made to work around them—added value that can only be achieved by carrying out comprehensive digitalisation of production processes.

Konica Minolta offers the ideal complete IIoT solution for smart entry into advanced digitalisation of manufacturing processes: Factory Hub. Not only does this solution provide a step-by-step, need-based introduction of new digital technologies into production processes, it also offers support from our experts on your path to digitalisation. We can create a personalised, individual "Smart Entry" package to meet the specific needs of your company. This means that you can start making the most of the positive effects of digitalisation straight away, right from the first stages of implementation. In addition to the IIoT software solution, the package also includes the hardware and service components, meaning your own IT department can introduce and operate the solution with no strain on their resources.
Once you have chosen the Konica Minolta Factory Hub solution, the first step is to digitalise the existing machinery fleet using the central IIoT solution. In doing so, the solution can be integrated directly into your "on-premises" corporate network or, if required, be obtained from the cloud.

The central basis of the Factory Hub solution is its IIoT server, on which IIoT applications are installed. The IIoT server is integrated into the corporate network and acts as a central location for the storage of machine information. In addition to the applications, the IIoT gateway is also installed on the server. The gateway is the link between the IIoT technology stack and the machine sensors.

The machines that need to be integrated are connected directly to the IIoT solution. This is done either via the existing machine network or by retrofitting with additional sensors that can enable the digitalisation of older machines without complex conversions or high costs. Konica Minolta offers the appropriate technologies for your machines.

When commissioning the IIoT solution, data is taken from the production machines and processed into clear and meaningful dashboards. The dashboards can be viewed directly in the production facility as well as locally on a mobile device. This means that the machine states in decentralised locations are always transparent and can be viewed in the machine control panel.

**BENEFITS**

- **Central monitoring of all relevant machine states**
  This creates transparency across all machines connected to the IIoT solution.
- **Customised display of the data to be evaluated**
  Preconfigured dashboards can be adapted to suit your needs. This allows you to gain the most benefit from our solution.
- **Targeted and need-based introduction**
  Tailor perfectly to your company’s needs.
- **Flexible business model**
  Clear calculation and transparent costs in conjunction with the added value generated by the level of digitalisation.
- **Consulting, procurement, Integration, monitoring and service**
  All from a single source!
- **Smart starting point for digital production**
  Individual, customer-focused Smart Entry packages allow you to get started with the digitalisation of your production environment without placing a strain on your resources.
FACTORY HUB
A SMART STARTING POINT FOR IIoT

The Konica Minolta IIoT solutions package contains all of the components required for a quick and simple introduction of digitalisation to your production environment, such as:

- **IIoT base platform**
  incl. IIoT server or Workplace Hub Digital Manufacturing

- **IIoT machine gateway**
  for connecting machines, sensors and components

- **Services**
  for the connection of machines, software installation and configuration as well as training

- **Service & support**
  for a complete solution

FACTORY HUB — AN OPEN AND EXPANDABLE SOLUTION FOR ALL FUTURE CHALLENGES

- Technology stack can be used to save all of the relevant data from your production environment

- Pre-configured, customisable dashboards for visualising and analysing machine states

- Function modules that can be used for establishing connections to third-party systems, integration into existing processes and supporting workflows

- Integration of the latest technologies such as smart glasses, FTS, machine learning, sound analysis etc.

- Comprehensive support for all necessary hardware systems (sensors, gateways, I/O links, etc.)

- Individual implementation scenarios in three IIoT levels