



## Hartford i-Factory Package

### Package A

Connects 1-10 manufacturing machines  
 Monitor: Utilization, CCD (opt.), Plant floor information (opt.)  
 Plan: Production management, Work order management  
 Analysis: Machine details information  
 Predict: Hartford ZDT  
 Connect: Alarm & completion reporting system, Status of plant floor power system(opt.)

### Package B

Connects 11-20 manufacturing machines  
 Monitor: Utilization, CCD (opt.), Plant floor information (opt.)  
 Plan: Production management, Work order management  
 Analysis: Machine details information  
 Predict: Hartford ZDT  
 Connect: Alarm & completion reporting system, Status of plant floor power system(opt.)

**i-Factory only available with Hartrol Plus & Smartcenter+Fanuc controller.**

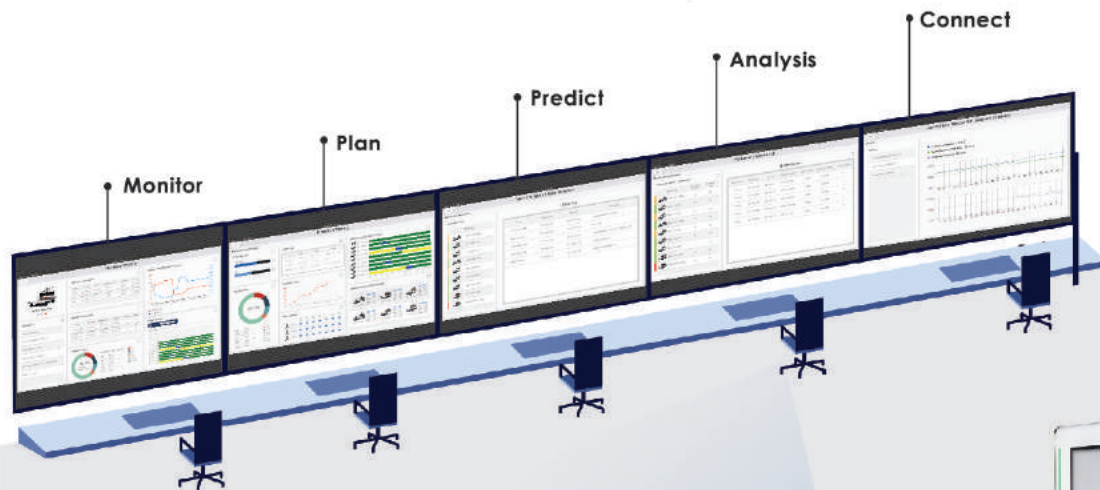
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 All graphic and text on the catalogue have been registered.

# What is i-Factory?

i-Factory is a revolutionary management at current modern age. The core value of i-Factory is to make your factory management smarter, less-labor, better flexibility and higher efficiency. As a manager, what you care about is not only production result but also machine status at your factory, utilization management, monitor machine maintenance schedule and many others. The structure of i-Factory is Monitor, Plan, Predict, Analysis and Connect. With these 5 functions, i-Factory makes your management simpler.

## 5 MAJOR SOLUTIONS OF i-Factory



Check machine status with your mobile.

## i-Factory SOLUTION-HARTFORD SUPERBOX

Hartford SuperBox is a revolution integrated platform, connecting of machines and devices to allow customers to monitor and analyze your plant floor which provides customers a complete solution on management. The connectivity of plant floor and equipment (machines, software and others) makes your management smarter.

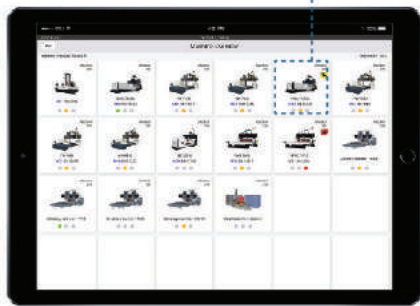
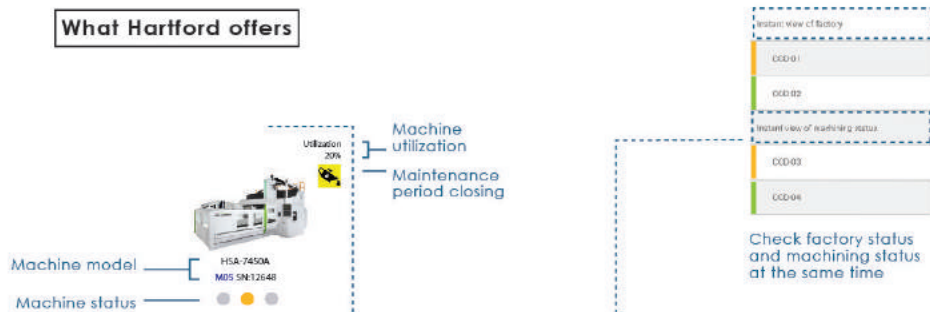


# MONITOR

One-touch and the overall machine status is right here

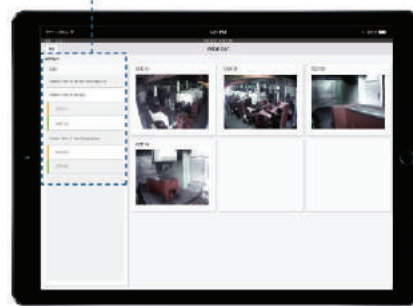
Visualization of your factory in real time makes your management just so easy and reduce manpower **by 33%**.

## What Hartford offers



### Overview of overall machine

- Machine status overview.
- Check real time temperature and humidity of factory (opt.)



### Instant view of factory (opt.)

- Instant video allows you check factory status wherever you are.



### Utilization management

- Machine utilization can be seen with portable devices no matter where you are.

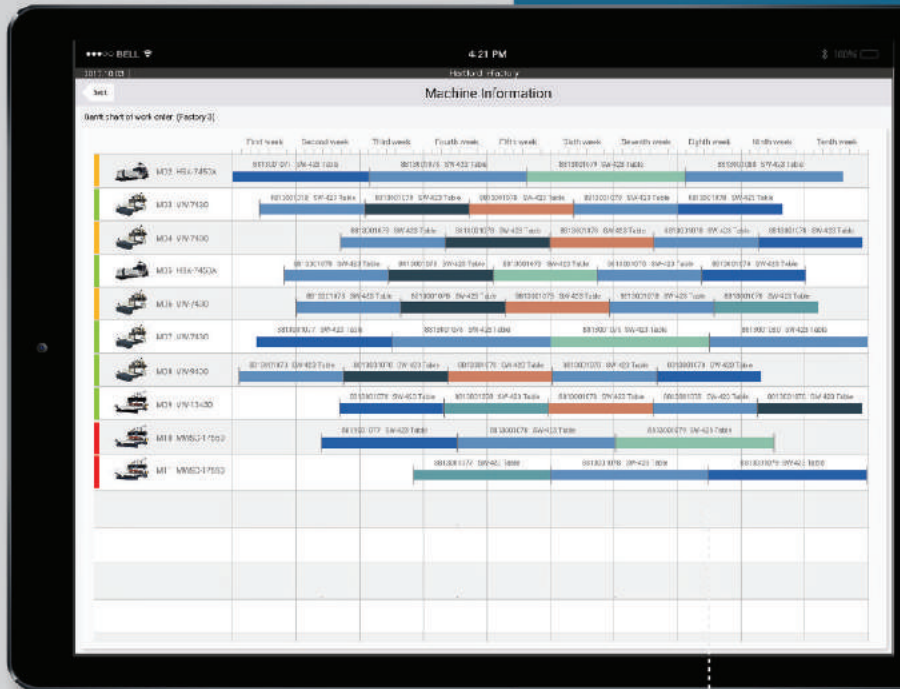


### Plant floor information overview (opt.)

- You can check plant layout information including temperature, humidity and many other data here.



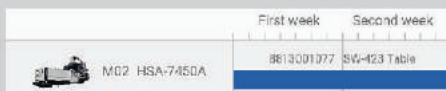
You can check machine, status, message log, shift calendar and machine status overview of daily and monthly.



### Gantt chart of work order

- Allow you to check the execution status of work orders.

The efficiency of urgent order management for production manager is increased **by 50%**



With this chart, machining schedule is clear than before.

# PLAN

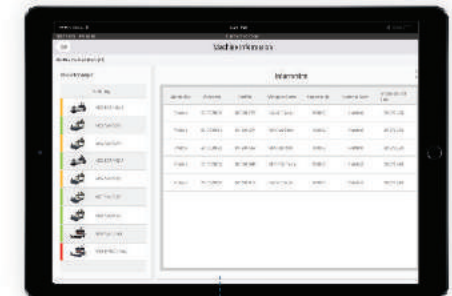
## Effective management improves production capacity

Intelligent production management tools deliver the highest efficiency and quality of your factory. Increase utilization **by 15%**

### What Hartford offers

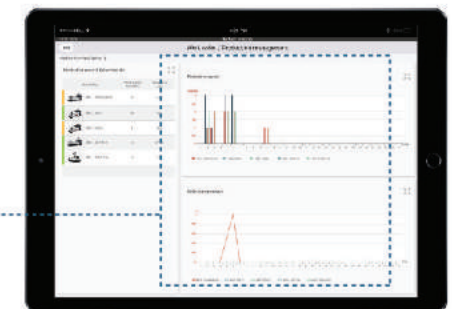
#### Status & schedule of all work orders

- Manage work order status.
- Schedule work order.
- Prepare next work order.



You can check machine series number, work order, part number, workpiece name, customer information and start date easily.

The efficiency of work order management is increased **by 20%**



Production quantity and defective rate of each machine can be seen very clear.

### Production management

- Machine utilization can be seen with portable devices no matter where you are.

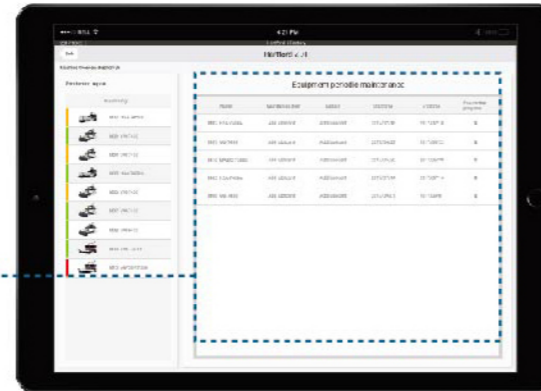
# ● PREDICT

## Maintenance planning increases you productivity

Machine parts and equipment status displayed in real time leads machine zero downtime and increase utilization **by 20%**

### What Hartford offers

You can check maintenance log of each machine including part name, start time, end time and processing progress here.



### Hartford ZDT

- Visualization of machine spare parts and equipment.



### Spindle bearing diagnosis (opt.)

- Real time spindle status.
- Spindle bearing diagnosis.
- Diagnosis log of spindle bearing.
- Minimize machine downtime.



### Warning system

- Warning of upcoming maintenance.

# ● ANALYSIS

## Analysis of machine utilization and log

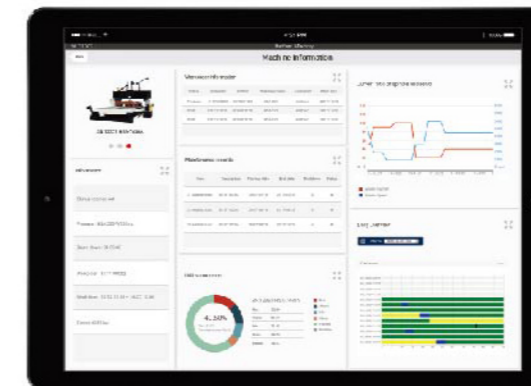
The effective analysis of machine data improves efficiency and productivity. The efficiency is increased **by 20%**

### What Hartford offers



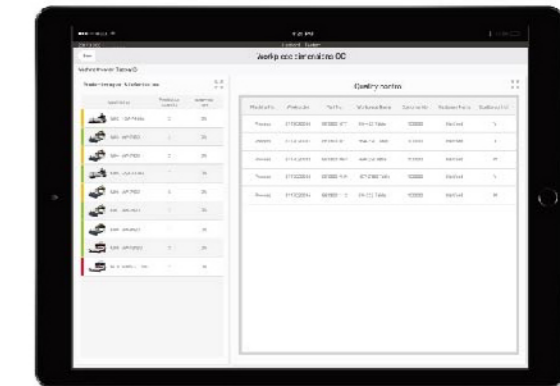
### Machine and alarm log data

- Analyze machine alarm log.
- Analyze machining data.



### Visualization of machining data

- Allow you to check machining data and machine status at a glance.



### QC report

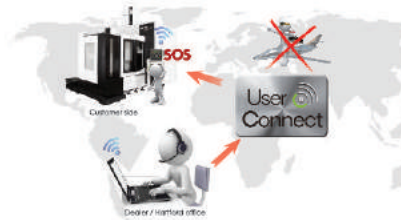
- Manage your production result in real time. QC report generated in real time, efficiency increased **by 30%** and minimize paper usage.

# ● CONNECT

## Knowing everything of your machines at factory floor

Online support increases machine efficiency and minimizes machine downtime. Problem saving time is increased **by 20%**

### What Hartford offers



### Userconnect

- Provide service support and alarm analysis.
- For security purposes, system provides a new password every time.



### Alarm & completion reporting system

- System sends message to supervisor automatically when alerts and completed.



### Status of plant floor power system (opt.)

- Visualization of electricity of air conditioner, humidity and temperature.

# ANYTIME & ANYWHERE

### Hartford i-Factory APP

<p>Workplace quality inspection</p>	<p>Gantt chart of work order</p>	<p>Machine status monitoring</p>	<p>Machining Data</p>
<p>Alarm &amp; Completion Reporting System</p>	<p>Spindle Bearing Diagnosis</p>	<p>Temperature and humidity monitoring</p>	<p>Remote management - CCD</p>
<p>The whole plant utilization rate</p>	<p>Tool life management</p>		
<p>Work order management</p>	<p>Processing countdown</p>		
<p>Hartford ZDT</p>	<p>Work order / Production dispatch management</p>		



With Hartford i-Factory and internet, you can manage your plant floor anytime and anywhere.