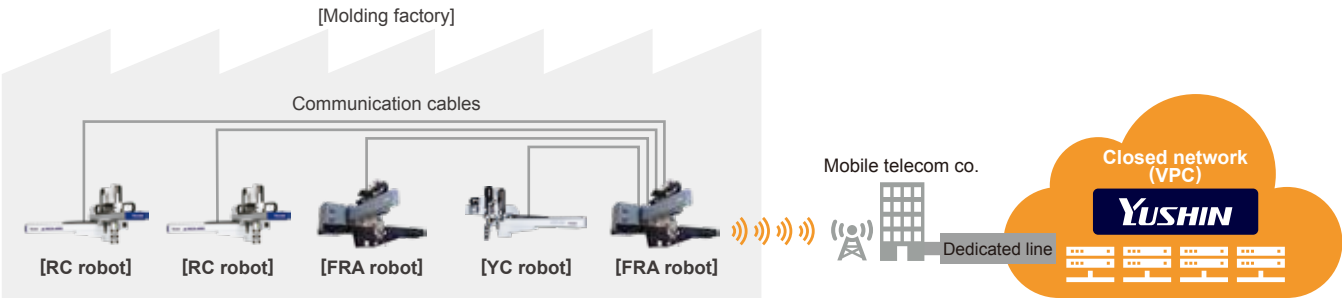


# Equip even one FRA series robot to change your facility into an Intelligent Factory

A single FRA can act as an IoT hub  
where users can monitor up to 5 various devices in total.

## Example 1

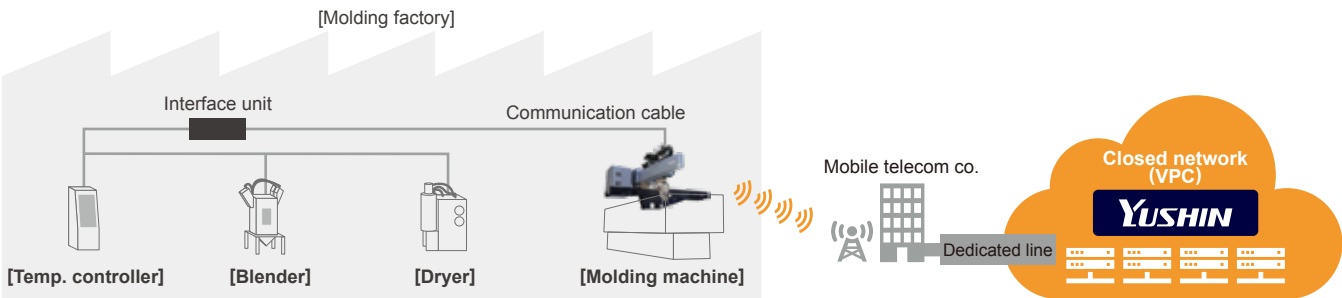
Connect one FRA robot with up to 4 other Yushin take-out robots  
to make production data more visible.



※ Yushin FRA series, RC series and YC series take-out robots have INTU LINE compatibility.  
※ Factors like hardware version and custom motion programs may affect compatibility.  
Certain situations may require payable robot modifications including component replacements or additions.

## Example 2

One FRA robot can connect with up to 4 auxiliary devices (molding machine,  
temp. controller, etc) to monitor molding conditions.



※ As of October 2018, we have been able to connect to devices of the above manufacturers.  
※ Some molding machines and auxiliary devices cannot be connected to INTU LINE.  
Predictive maintenance and troubleshooting features may not be supported by some devices.  
▲ To inquire about INTU LINE compatibility with your Yushin robot and other equipment, please contact your local Yushin sales agent.



## Other Features

### Operations Display

Highlights robots currently in operation, so  
users can verify robot status at a glance.



### ECO Monitor

Displays robot electricity and air consumption in  
monetary figures, to help promote eco-friendly operations.



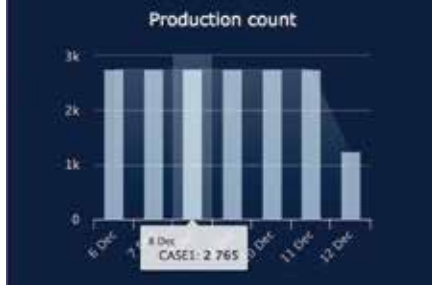
### Image Upload

Add or update photos of your molded products  
and production equipment, for more intuitive navigation.



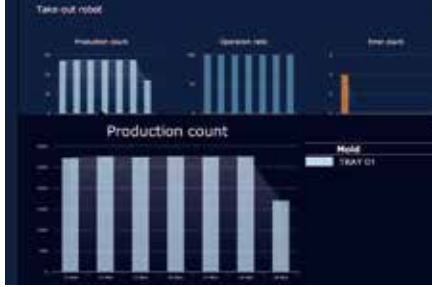
### Mouseover

Hover your mouse cursor over a graph to  
display the numerical details.



### Enlarge View

Click on a graph to zoom in for an enlarged view.



### Help Feature

Displays the Help screen.



**-Mold Name Display** Shows molds currently running, for easier supervision.

**-Edit Name** Enter/edit custom names for production lines, machines, etc, for easier data management.

**-Language Display** Users can select either English or Japanese display.

**-Time Zone** Change your time display setting to match Japan or other time zones.


**-Change Password** Change password to one of your choice.

※ To use INTU LINE service, please consult your Yushin sales agent before ordering your FRA robot(s).  
※ INTU LINE coverage in select areas outside of Japan is planned to start at a later date.  
※ All product, company, and system names and logos used herein are trademarks of their respective owners.



High End Take-out Robot  
**FRA**

<b>High Precision Take-out</b>	CONTROL
Shorter delay timers produce faster cycle times	
<b>Global Standard</b>	SAFETY
Standard-equipped compliance with the world's highest safety standards	
<b>Greater Ease of Use</b>	COMFORT
Faster, more accurate robot teaching and mold changes	



**Safety Warning**

- The parts appearing in this catalog are for industrial robots defined by Japan's Ordinance on Industrial Safety and Health. Use them as stipulated in the safety provisions of that same ordinance.
- The photographs appearing in this catalog were taken without safety enclosures and other safety devices and equipment required by the aforementioned ordinance, in order to make product explanations easier to understand.
- Before using the product, prepare and install all required safety devices and equipment. Before using the products appearing in this catalog, carefully read all instruction manuals and other documentation provided with the product, to ensure proper use.

\*The content of this catalog is subject to change without notice for improvement purposes.

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**YUSHIN**

**INTU  
LINE**

IoT Solution Service



**YUSHIN PRECISION EQUIPMENT CO., LTD.**

2019.01(1)1000\_TS



# Yushin IoT - Another Step Closer to "No Robot Downtime"

## Check your Robot's Status with Ease - Any Time, Any Place



Yushin's INTU LINE application is ready to access anywhere, anytime after installation of your FRA take-out robot for injection-molded plastic parts.

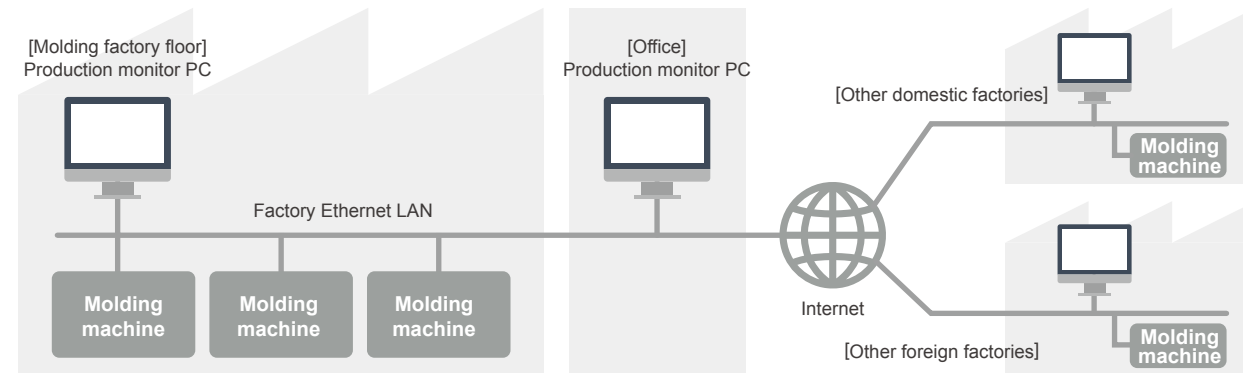
INTU LINE requires no expensive IT system integrators or expert knowledge of internet servers and security. The application uses a major cellular network for added reassurance.

As INTU LINE operates independently of your company's IT system, it does not complicate your network infrastructure or burden your IT personnel.

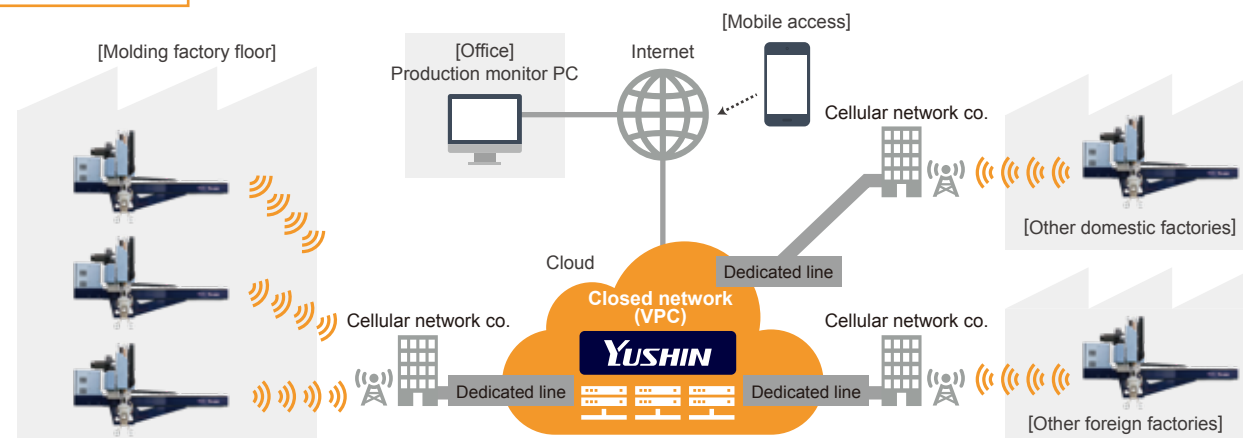
Plus, there are zero start-up costs for such things as system integration and running LAN cables.

The JPY60,000 annual service fee covers all maintenance and network costs -- a very low cost of entry.

**Traditional System** Mainly relies on your company's IT network.



**INTU LINE** Fully independent of your company's IT network, and ready for immediate use.



## Check Production Status Whenever & Wherever You Choose

- Check production counts, cycle times, etc. on your mobile device or PC.

Have the freedom to check your production status whenever, wherever.

Get factory floor updates at a glance while out of the office or away on a trip.

Learn of production problems in real time.

Check on operations whenever you like - at night, during holidays, or after adverse weather events.

Helps grow higher productivity and quality.

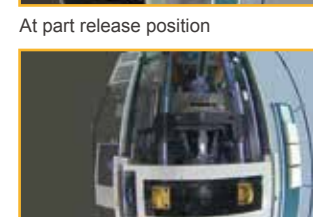
- INTU LINE enables users to collect data without relying on people's handwritten daily reports or gathering data from molding machine memory.

No more headaches over data with human errors and omissions.

Review data from robot, molding machine, and auxiliary device all together to improve quality and molding know-how.

- Collects a wide range of info on one screen, with easy controls and quick access to detailed data.

Press the "Take Photo" button to capture the latest shop floor images.



Export daily, weekly, or annual operation reports as PDFs or as raw data in CSV file format.

Maintenance Information			
Take-out robot	100	Greasing AxisA	
	101	Greasing AxisB	
	102	Greasing AxisC	
	600	Monthly maintenance	
	700	Quarterly maintenance	
molding machine			
dryer			

Check data such as production count, average molding cycle times, uptime, operation status, and short stoppages in graph or image form.

## Decrease Downtime

Monitor robot operations via the cloud.

INTU LINE connects directly with Yushin's AI trouble diagnostics system, to find solutions smoothly.

- Predictive Maintenance**

Detects irregular belt tension, condenser life, air pressure, etc., while AI predicts possible breakdown risks so users can take early preventative action.



Whoa, thanks for the warning!

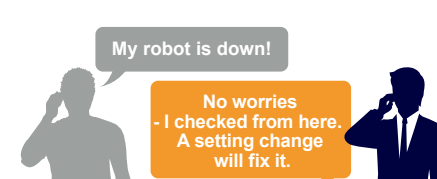
- Automatic Maintenance Reports**

Automatically generates itemized inspection checklists at regular intervals to help organize PM efforts.



- Troubleshooting**

If trouble occurs, Yushin tech support can access the robot's data to help reach solutions quicker.



## Reduce Defects

- INTU LINE combines data from robot, molding machine, and auxiliary device to help improve product quality and molding know-how.

- If defect parts start occurring late at night, etc., off-site operators can use INTU LINE to command their robot to cycle stop.

※ Planned release of feature in Japan: Jan 2019.

- Production data and photos are saved to the cloud for 3 years, useful for traceability.



## Email Notification Feature

- "Production Run Complete" Email**

Users can opt to receive email notification upon or slightly prior to production run finish, to better prepare for mold changes.

- "Breakdown Alert" Email**

Users can set conditions where they receive notification if the robot stops during production.

- "Routine Report" Email**

Regular status report, emailed weekly.