

**Intelligent  
Line Tracking**

**High-speed  
pick and place**

**FANUC**

***i*RPickTool**

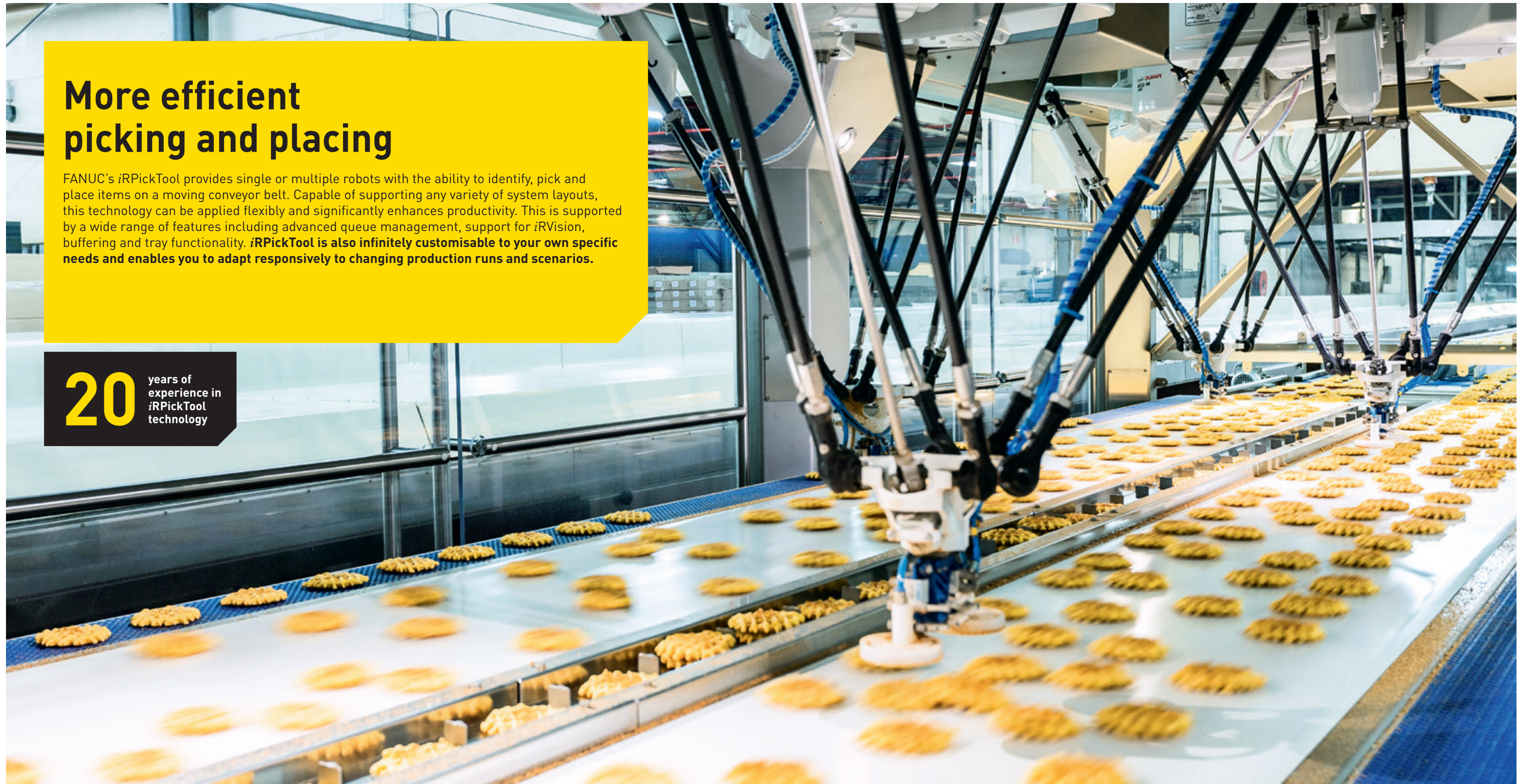




# More efficient picking and placing

FANUC's *iRPickTool* provides single or multiple robots with the ability to identify, pick and place items on a moving conveyor belt. Capable of supporting any variety of system layouts, this technology can be applied flexibly and significantly enhances productivity. This is supported by a wide range of features including advanced queue management, support for *iRVision*, buffering and tray functionality. ***iRPickTool* is also infinitely customisable to your own specific needs and enables you to adapt responsively to changing production runs and scenarios.**

**20** years of experience in *iRPickTool* technology



## Maximum productivity and flexibility

- intelligent queue management of multiple robots for up to 2000 or more picks per minute
- more consistent outfeed rates thanks to smart part logistics
- full *iRVision* functionality for more efficiency and fewer process steps
- fewer parts and FANUC's reliability for maximum uptime – all 100% FANUC

## Faster setups

- fully integrated into the robot (no need for interface to external devices)
- easy to use graphical interface for setup and production status
- wide range of default sorting functions
- requires no additional hardware

## Intelligent pick and place options for every application

- high-speed pick and place
- part and colour sorting
- available with or without vision detection
- supports both 2D single view and 2D multi-view vision processes

## In combination with FANUC *iRVision*, *iRPickTool* can be expanded to include:

- visual tracking
- quality control and inspection
- barcode reading
- single or multiple cameras for different conveyor widths
- high speed line tracking



# Precise high-speed picking and placing for your industry



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## Plastics

Positioning bottles and moulded parts



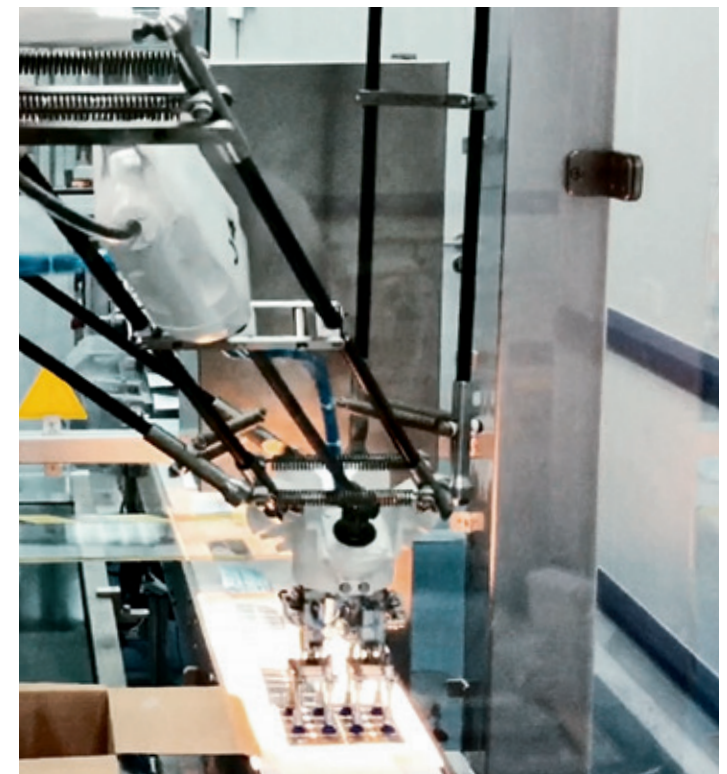
## Automotive | Electronics

Pre-grouping for multipart picking



## Food

Raw food and packaging



## Pharmaceutical | Medical | Cosmetics

Tray function ensuring complete box filling

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# Flexibility whatever your process or volume

- one robot can serve up to several lines equipped with iRPickTool
- suitable for multiple conveyors and sophisticated conveyor setups
- supports circular line tracking
- fast product changeover thanks to recipes



## **iRPickTool supports:**

- up to 32 robots
- up to 16 trays containing up to 160 cells per tray
- up to 32 sensor tasks
- up to 32 conveyors containing up to 84 conveyor stations per conveyor
- up to 84 fixed stations

\* This list shows the maximum possible number of supported items. Each application should be checked and confirmed by local FANUC representatives.



## iRPickTool for optimal setups

- **Customisation** – can be easily tailored to meet your own specific needs using a broad selection of dedicated KAREL features
- **iRPickPRO** – comes as part of FANUC ROBOGUIDE, enabling you to simulate visual line tracking systems involving multiple robots before applying them to your real-life production scenarios
- **iRVision** – complete support for FANUC's intelligent vision system and 2D functionality with an intuitive and easy-to-use GUI
- **Recipes** – change products without the need for programming
- **Production data screen** – data from the robot is shared easily with the line host
- **Ethernet encoder** – no expensive or awkward hardware or cabling required
- **FPLIN instruction** – optimises robot motions, ensuring they take the shortest path for more speed and higher rates of throughput. This is particularly effective on operations involving high-speed delta robots
- **Servo conveyor line tracking** – provide conveyor indexing function, up to 300 indexes per minute





# iRPickTool for flawless production

- **Conveyor start/stop function** – this feature can be set to stop the system automatically and prevent incomplete boxes from going downstream to the flow packer. The system restarts automatically once the box has been filled by the robot
- **Ejector area** – this is an independent conveyor station that can be set to identify incomplete packages and blisters and prevent them from leaving the robot area without shutting down the system
- **Wide conveyors** – using iRVision and multiple cameras to cover wide conveyor belts
- **Dynamic load balancing** – should a robot stop, this feature continues production by spreading the workload evenly amongst the remaining robots
- **Buffering** – where the infeed product flow is inconsistent, this feature provides a product buffer functionality and helps maintain a more consistent outfeed rate
- **Pre-grouping feature** – can be used to pre-group items into patterns on the infeed conveyor. An additional robot can then pick these as a group and fill a tray in one pick and place motion
- **Tray feature** – this supports the creation of 3-dimensional patterns and load balance





**Push  
the  
button**



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