



AGILE ROBOTS



Say hello  
to **Yu 5**  
**Industrial**



# The all-round **power tool**

The industrial-grade cobot sets new standards in collaborative robotics. Its intuitive software provides solutions for a quick setup and task deployment in diverse industrial settings.

Thanks to its plug-and-play connectivity, the Yu 5 Industrial facilitates seamless integration into any workflow – while complying with the highest standards for human-robot collaboration as specified in ISO 10218-1, ISO 13849 and ISO/TS 15066.

## **Compact yet powerful**

6 axes, 5 kg payload on a workspace radius of 1083 mm and 7 kg payload at 1000 mm.

## **Intelligent vision**

An integrated camera equipped with AI facilitates a detailed visual understanding of the environment.

## **Precise force sensing**

Advanced sensor technology ensures safe collaboration and tactile handling of objects.

## **User-friendly**

The intuitive interface enables high user adoption and accessibility providing time and cost-efficient integration.

# **Effortless** **Programming**

No prior  
knowledge  
needed



Just like the Yu 5 Industrial robot, the visual interface was designed to be intuitive and user-friendly. Thanks to its precise process mapping, consistent patterns and user-controlled workflows, you are in charge every step of the way – no prior experience needed. If you can handle a smartphone, you can program a task on your device of choice. Directly on your desktop or tablet browser.

## **Intuitive** **programming**

The interface was designed to be used by beginners and experts alike. It allows the user to create tasks via drag & drop and by hand guiding the robot directly, granting a quick parametrization. The operator can utilize a variety of pre-installed program templates and skills, and tailor their own apps for further use.

## **Virtual** **simulation**

The interface allows the user to optimize and analyze the production process by utilizing a digital twin. A virtual simulation can test and validate a task before running it on the robot. This permits the user to work more efficiently, as motion patterns and path previews can be visualized digitally.

## **Real time** **feedback**

Thanks to the vision inspection dashboard, the user is provided with all relevant data at a glance: cycle count, uptime, commands and other helpful statistics are accessible in no time. This enables the user to be in control at any time and take measures if needed. If warnings or alerts arise, the user will be notified immediately.





# Enabling Industry Enabling Yu



## Skilled for every trade

The Yu 5 Industrial was designed to change the way we manufacture. Thanks to its industrial-grade design, outstanding sensitivity, user-friendly handling, easy integration and high safety standards, any business can benefit from the robot's groundbreaking automation skill set.



### Quality inspection

Thanks to the high repeatability of 0.05 mm, the precise force/torque sensing and control, as well as the integrated camera system, the robot can autonomously inspect, test, or measure manufactured parts, guaranteeing a high-quality final product.

### Machine tending

The Yu 5 Industrial is designed to load and unload production machines seamlessly, while significantly relieving the workforce and reducing the risk of possible accidents. The robot opens up the possibility of unmanned night-production, allowing non-stop manufacturing.

### Assembly

Screwing, soldering, grasping, handling and many more: The plug-and-play connectivity allows an easy integration of different extensions into a workflow. Its adaptability, integrated force/torque control and ease of use make Yu 5 Industrial the perfect tool for any assembly task.

### Dispensing

Dispensing the right amount of liquid demands high sensitivity and pose repeatability. Due to the integrated force/torque control, the robot can repeatedly apply an equal quantity in the exact same location, while significantly reducing spillage and waste in the process.

### Packaging

Thanks to its force/torque sensors in every axis, high flexibility, long reach, and sophisticated control algorithms, Yu 5 Industrial can handle small and fragile parts with care. Supported by an integrated camera, it can furthermore pick and place objects autonomously.

### And more

Its user-friendly design and visual interface allow anyone to perform an industrial task independently. The Yu 5 Industrial can also be equipped with different extensions: Just like a regular tool, this allows a quick adaptation to any task, enabling scalable solutions.

## Automation for any industry, of any size



Education  
and Science



Manufacturing  
and Machining



Medical  
and Cosmetics



Computer,  
Consumer Electronics  
and Communication



Plastic  
and  
Polymers



Automotive

And many more

**Agile Robots AG** is an international high-tech company based in Munich, Germany, with more than 1,000 employees worldwide. Our mission is to bridge the gap between artificial intelligence and robotics by developing systems that combine state-of-the-art force-moment sensing and world-leading image processing technology. This unique combination of technologies allows us to provide user-friendly and affordable robotic solutions that enable intelligent precision assembly.

**Find out more about our customized solutions.**

Contact our experts today.

© Agile Robots AG  
Staffelsestr. 8  
81477 Munich

**+49 89 277 814-101**  
**welcome@agile-robots.com**

**[www.agile-robots.com](http://www.agile-robots.com)**