



KONICA MINOLTA

FORXAI

Cobot

PICK & QA SYSTEM WITH
AI-ENABLED MACHINE VISION



**GEAR UP FOR INDUSTRY 5.0
WITH AUTOMATED VISUAL
QUALITY INSPECTION**

Giving Shape to Ideas

ELEVATE MANUFACTURING WITH COBOT AUTOMATION

Tailored to harmonize with your specific testing and production workflows, FORXAI Cobot combines Quality Assurance (QA) and Pick & Place capabilities with Artificial Intelligence (AI) and Machine Vision (MV) technology.

With this innovative cobot solution, you can streamline your existing workflows, boost efficiency, cut costs, and ensure reproducible quality inspection.

Backed by Konica Minolta's esteemed 150-year-old legacy of developing high-level technologies for industrial use, you can always count on a personalized approach and customer-centric support.

Who can make best use of FORXAI Cobot:

- Manufacturing companies
- CNC products producers
- Milling products producers
- Turning parts producers
- Automotive parts producers (OEMs)
- Surface inspection performing producers
- Plastic products producers
- and others...



COBOTS: YOUR INDUSTRIAL HANDS-FREE SOLUTION

Collaborative robots (cobots) transform your workplace by seamlessly integrating human expertise with robot precision. Unlike traditional robots, they are more intuitive and interactive. Cobots adapt to various environments, making work easier, safer, and smarter.

WHY USE COBOTS?



Enhancing Productivity

Cobots can take over repetitive and mundane tasks and execute them 24x7. With their speed and precision, production rates can be doubled or even tripled.



Effortless Integration

With cobots, you do not need to worry about complex setup and programming. Due to their inherent user-friendliness, they are quick and easy to navigate.



Empowering Employees

Rather than replacing human workers, cobots allow them to focus on more cognitive and creative tasks, thus leading to higher job satisfaction.



Flexible & Versatile Use

The highly adaptable nature of cobots allows them to fit into various industrial settings, from manufacturing companies to automotive parts producers.



Improving Cost-efficiency

Cobots require minimal technical maintenance and energy consumption. This leads to higher workforce productivity and Return on Investment (ROI).

REDEFINING TESTING PRECISION THROUGH AI & MACHINE VISION

Step into a new manufacturing era where Cobot Automation and AI-driven Machine Vision unite, creating powerful synergies. Imagine collaborative robots operating 24x7 to triple productivity while automating visual quality inspection (VQI).

The result?

Enhanced workflows, improved operational efficiency, substantial cost savings, and unparalleled product quality.

Advantages

Collaborative:

Working safely alongside humans

Quality Assurance:

Defect detection, process quality inspection and testing

User-defined application:

360° inspection, modular, flexible setup

Pick & Place:

Automated batch inspection, bin-picking possible

Optional:

End-of-Arm Tool Vision

AI-driven quality inspection with external, high-end multitasking IoT camera

Modular Robot Arm

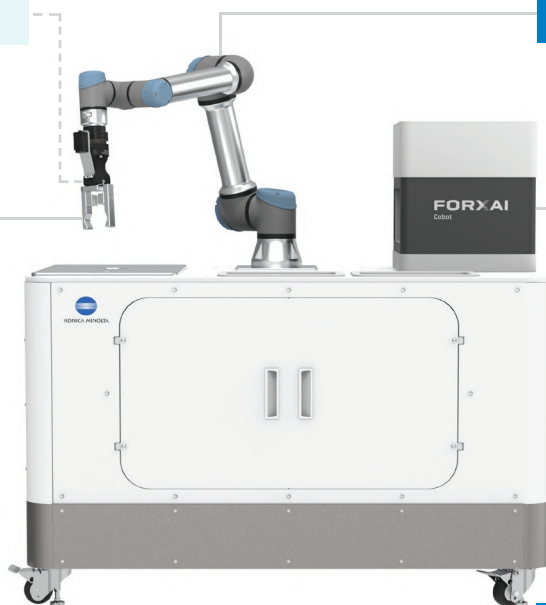
Lightweight aluminum arm with rounded elbows allowing fully flexible motion

Precision Gripper

Three gripper types - vacuum, two-finger, and magnetic - handling various items

Visual Quality Inspection

Built-in MV technology for quick object recognition and automated visual inspection



YOUR TRUSTED MACHINE TENDING AND PICK & PLACE ASSISTANT

Due to its inherent flexibility and scalability, FORXAI Cobot could be used in any type of production environment and adapted to your needs. Check the key technical specifications of the standard solution and just contact us to shape your best fit together.



SPECIFICATIONS

Payload: up to 16 kg

Reach: up to 900 mm

TCP Speed: 1m/s



FORXAI Cobot can be customized to your specific visual quality inspection needs depending on the required robot arm.

KEY USE CASES

Vision-guided Pick & Place

FORXAI Cobot excels not only in the automation of repetitive tasks but also in enhancing Pick & Place operations through VQI capabilities. Whether deployed on assembly lines, bins, or production floors, the cobot accurately identifies and manipulates objects, ensuring both quality control and proper placement.

- **Seamless integration**
enabling precise, vision-guided Pick & Place functionality
- **Smart object recognition**
allowing the detection of items in various shapes and sizes
- **Accurate placement**
eliminating positioning errors and ensuring high-quality output
- **Flexible deployment**
facilitating the scale-up and scale-down of production volumes



AI-driven Machine Tending

Streamline loading and unloading tasks with FORXAI Cobot to achieve impeccable precision and efficiency. The synergy of AI and collaborative robotics minimizes cycle time and secures uninterrupted machine operation. The cobot effortlessly adapts to diverse machine types and manufacturing processes.

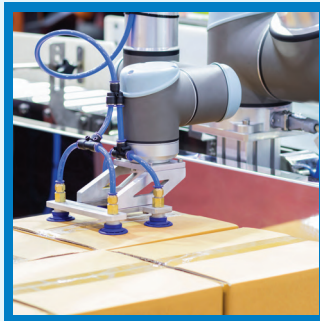
- **Quick and simple integration**
into diverse machine setups, reducing downtime
- **24x7 cobot operation**
enabling continuous workflows
- **Increased production capacity and quality**
through AI-driven machine tending
- **Reduced material waste**
leading to cost savings and increased sustainability





EMBRACE INDUSTRY 5.0 WITH FORXAI COBOT

Leave time-consuming manual processes in the past and unlock a future where your manufacturing operations reach their optimal potential. FORXAI Cobot provides boundless possibilities - its scalability makes it an ideal match for a wide range of workflows:



- Quality control for incoming products
- Automated quality inspection
- Sorting and organizing of products
- Assembly and bin picking
- Packaging and de/palletizing
- Material handling
- Deburring, grinding, polishing and other specialized processes

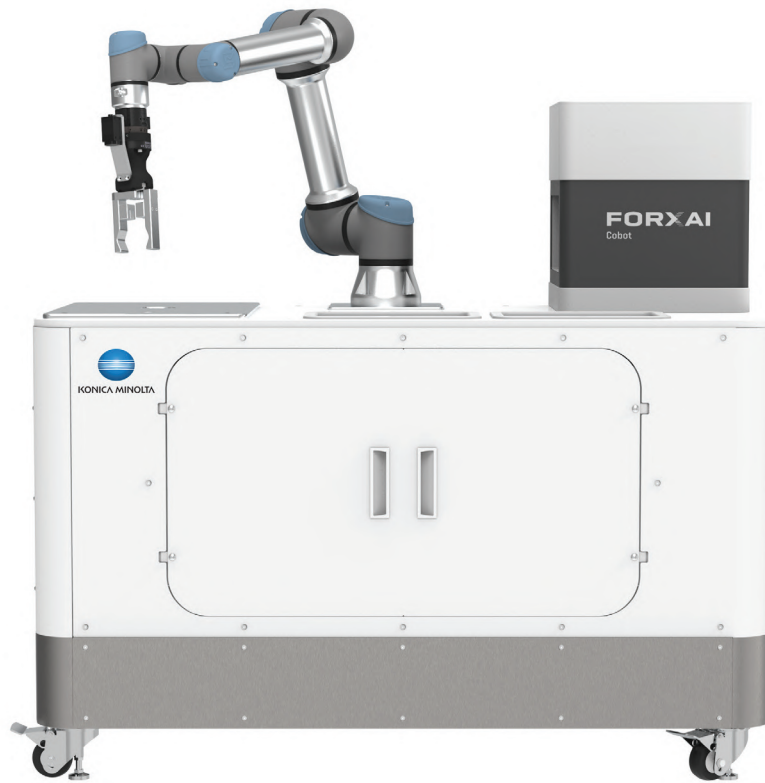
YOUR BENEFITS

The integration of FORXAI Cobot into your manufacturing processes will bring you far more than long-term cost savings:

- Standardized and consistent product quality
- Workplace safety and improved employee satisfaction
- Boosted reputation - early adopter of Industry 5.0 innovations
- Ongoing technical support by a trusted partner

FORXAI

Cobot



TAKE A SNEAK PEEK INTO KONICA MINOLTA'S
VIDEO SOLUTIONS SHOWROOMS!

To make an inquiry or learn more, just contact us:

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FORXAI Cobot is a cobotized, AI-enabled Machine Vision testing solution jointly developed by FORXAI, Konica Minolta, Inc., Japan, and Konica Minolta Business Solutions Europe GmbH.

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