

AL - Series

AI Cobot



Contents

1

Product
Introduction

2

Product
Feature

3

Product
Specification

4

Supporting
Service

5

Company
Overview

Allbotix AL Cobots

The ALLBOTIX AL Series of collaborative robots (cobots) is designed to seamlessly integrate into existing work environments, enhancing productivity, precision, and flexibility. These cobots can safely work alongside human operators, handling tasks such as assembly, packaging, and machine tending, without the need for safety cages or complex programming. With payloads ranging from 3 to 16 kilograms and an intuitive interface, the AL Series offers scalable automation solutions that are both cost-effective and easy to implement, making advanced robotics accessible to businesses of all sizes.

Built with a strong focus on safety, reliability, and adaptability, the ALLBOTIX AL Series enables organizations to respond quickly to changing production demands. Advanced safety sensors, smooth motion control, and user-friendly programming tools ensure consistent performance while minimizing downtime. By combining human expertise with robotic efficiency, the AL Series supports smarter manufacturing and drives sustainable operational growth.



Traditional robots

Collaborative robots

Fixed installations		→		Flexible deployment
Complex set-up		→		Fast set-up
High programming expertise needed		→		Straightforward to program
Extensive space requirements		→		Limited space requirements
Need a safety fence		→		Collaborate side-by-side with humans subject to risk assessment
Numerous additional costs		→		Cost effective with fast payback

Product Feature

AI-Powered Intelligence

Advanced Mobility & Dexterity

Over-the-Air (OTA) Software Updates

Human-Friendly Aesthetic

Multi-Modal Perception System

Built for Real-World Applications

Lab analysis

Welding



Packaging & Palletizing



Machine Tending



Gluing & Dispensing



Assembly



Injection Molding



Pick & Place



Quality Control



Accessory Highlights

- **End Effectors**
 - Wide range of electric, pneumatic, and vacuum grippers for diverse handling and assembly tasks.
- **Vision Systems**
 - Integrated camera solutions for part detection, positioning, and quality inspection.
- **Force & Torque Sensors**
 - Enable accurate force-controlled applications such as assembly, polishing, and deburring.
- **Tool Changers**
 - Automatic and manual tool changers support quick tool changes and multi-process automation.
- **Mounting & Mobility Solutions**
 - Flexible mounting options including floor, wall, ceiling, and mobile platforms.



Accessory Highlights

- **Safety Accessories**
 - Certified safety components ensure compliance with collaborative operation standards.
- **Software & Connectivity**
 - Compatible software tools enable easy system integration and Industry 4.0 readiness.
- **Welding & Process Kits**
 - Dedicated kits for welding, dispensing, and screwdriving enable quick application setup.
- **Cabling & Power Accessories**
 - Standardized cables and power modules ensure reliable connectivity and clean installations.
- **Certified Ecosystem**
 - Tested and approved third-party accessories ensure compatibility, safety, and easy deployment.

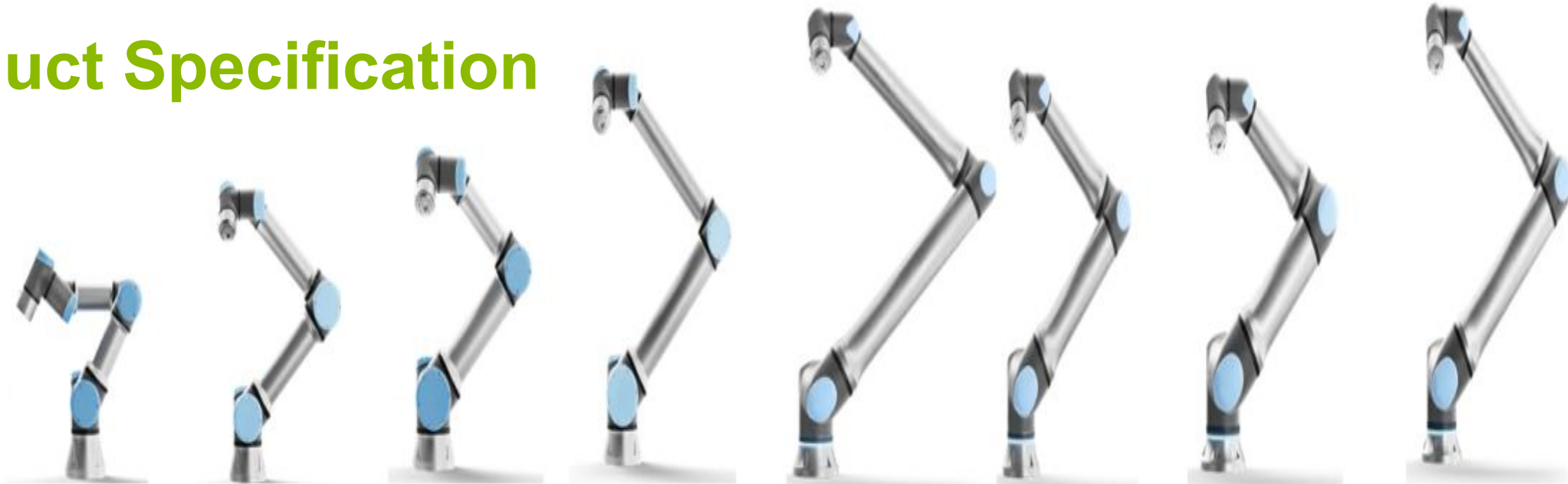


Key Advantages

- **Lift heavier payloads faster**
 - This enhances end-of-line operations, increases productivity, and relieves skilled workers from repetitive heavy lifting, allowing them to focus on higher-value tasks.
- **More environments. Endless possibilities**
 - With IP65 and Cleanroom certifications, the AL Series is designed for reliable operation in harsh and cleanliness-critical environments.
 - This enables seamless automation deployment across demanding industrial and regulated workspaces.
- **Robust and reliable**
 - The AL Series features a simplified joint design with fewer, high-quality components, reducing complexity while improving durability and efficiency.
 - Engineered for long-term, repetitive operation, these robust joints deliver reliable, consistent performance with minimal risk of failure.



Product Specification



	AL3e	AL7e	AL16e	AL12e	AL8Long	AL15	AL30	AL20
Payload	3 kg	7.5 kg	16 kg	12.5 kg	10 kg*	17.5 kg	35 kg*	25 kg*
Reach	500 mm	850 mm	900 mm	1300 mm	1750 mm	1300 mm	1300 mm	1750 mm
Weight	11.2 kg	20.6 kg	33.1 kg	33.5 kg	44.7 kg	40.7 kg	63.5 kg	64 kg
Footprint	Ø 128 mm	Ø 149 mm	Ø 190 mm	Ø190 mm	Ø204 mm	Ø 204 mm	Ø 245 mm	Ø 245 mm



Reference Videos

[Click here to see the video](#)

Support Services

Installation Training

Rich and diverse training methods and materials

After Sales Service

IOT (The Internet of things) solves more than 90% of technical problems

About Us

- **Allbotix is a cutting-edge robotics company that specializes in designing and developing innovation robotics solutions for various industries shaping**
- **The future by improving the capabilities of services robots our robots are designed to assist humans in solving issues , to be uses in human environments and to eventually becomes our partners**
- **Allbotix is a dynamic and inventive robotics business dedicated to changing the world of artificial intelligence**



 <https://www.allbotix.ai/>

CONNECT WITH US

Email

kenvi@nantatech.com

Call us

[+91-9909041675](tel:+919909041675)

Address

703, Skywalk building, near Ganesh glory 11, Jagatpur,

Ahmedabad, Gujarat 382470



THANK YOU