

Boost your Cobot with the Cognibot-Kit



From collaborative to cognitive – with just one module.

The Cognibot-Kit transforms any D-Bot into an intelligent assistant. Easily retrofitted, modularly integrated, and fully upgradeable – offering maximum flexibility and reduced costs. Powered by the AI Control Box and equipped with advanced sensors and AI, the kit enables safe, intuitive, and highly responsive human-robot collaboration. Smart. Modular. Future-ready.



360° Microphone array

Enables precise voice command recognition and intuitive control



3D Vision Sensor

3D object recognition for precise detection and gesture control



Integrated Speaker

Delivers acoustic feedback for enhanced user interaction



AI Control Box

powerful AI processing, efficient CPU cooling, and external GPU support



WiFi Connectivity

Ensures wireless communication, eliminating the need for additional data cables

Adaptive Vision for Dynamic Environments

No more manual recalibration! Our AI-powered vision system automatically adjusts to changes in lighting, object orientation, size, and positioning — in real time. Whether you switch products or production conditions shift, your D-Bot keeps performing with pinpoint accuracy. Boost your precision, reduce errors, and handle diverse product lines effortlessly.

Cognitive Operations with Human Workers

At its heart, the D-Bot is a collaborative robot, safe, intelligent, and easy to work with. When integrated with the Cognibot-Kit, it gains advanced cognitive capabilities, including environmental awareness and the ability to interact with human co-workers more naturally. It can respond to voice commands and communicate through built-in audio output. This enables smooth coordination, improved productivity, and a more intuitive workspace.

Energy Efficiency and Sustainability

Reduce your environmental footprint without sacrificing performance. D-Bots optimize task management and minimize energy consumption, helping you achieve greener, more sustainable manufacturing practices.

Flexible Integration into Existing Systems

Minimal setup – maximum compatibility. Every D-Bot can be easily upgraded with the Cognibot-Kit, without complex modifications. Designed for seamless integration into existing production lines, the Cognibot-Kit brings advanced AI and vision capabilities to your current systems. Save time and reduce rollout costs while unlocking smart automation from day one.

Scalable Solutions for Diverse Applications

Whatever your task — from simple pick-and-place to complex assembly operations — D-Bots are ready. Thanks to modular design and AI adaptability, you can easily expand or adjust their roles as your business grows.

Included Features for the Cognibot-Kit:

- Pick & Place
- Bin picking
- Palletizing
- Voice Commands

Specifications

Applications	Pick & Place, Bin Picking, Palletizing, Voice Commanding
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Features

3D Camera	Object/Workspace detection
Speaker	Voice commanding
Microphone array	Voice commanding
LED	Workspace illumination
Dimensions	165.5 mm x 103 mm x 40 mm
Flange thickness/TCP change	17.2 mm
Weight	1200 gr

Electrical Interfaces

Flange Sensor Add-on connection cable	M 12, 12-pole, male plug to connect to the robots TCP connector which splits into M5, 4-pin male plug power the Flange Sensor Add-on and an M8, 8-pole, male plug to connect a tool to the robot
M5 Power input	M5, 4-pin, female jack for power 24 V power input
Connectivity	WiFi, RJ45 Ethernet, Single Pair Ethernet (SPE)

Mechanical interfaces

Robot side & End effector-side	DIN ISO 9409-1-50-4-M6
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AI Control Box

Dimensions	326mm x 244mm x 140mm
Weight	7 kg
Power supply unit	650W
Connectivity	WiFi, RJ45 Ethernet, Single Pair Ethernet

D-Bots: Built to Fit Your Workflow



Specifications

Payload	6 kg (13.3 lbs)	8 kg (17.7 lbs)	10 kg (22.1 lbs)	16 kg (35.3 lbs)	20 kg (44.1 lbs)	30 kg (66.2 lbs)
Reach	800 mm (31.5 in)	1300 mm (51.2 in)	1200 mm (47.3 in)	1600 mm (63 in)	1800 mm (70.1 in)	1300 mm (51.2 in)
Degrees of Freedom	6 rotary joints					

Environment & Safety

Ambient Temperature	Ambient temperature: 0° to 40°C (32° to 104°F)
IP Classification	IP 66 water and dust protection*
Safety Rating	PLd Cat3. / SIL 2 (Safe position, speed, torque limits, I/Os)
Safety Functions	20 configurable safety functions

Performance

Max. TCP Speed	2 m/s	3 m/s		
Pose Repeatability	±0.02 mm		±0.03 mm	±0.05 mm
Programming Interface	Drag & Drop, Python, C#, C++, ROS 1, ROS 2			

Physical

Weight	24 kg (53 lbs)	40 kg (88 lbs)	39 kg (86 lbs)	70 kg (154 lbs)	101 kg (223 lbs)	98 kg (216 lbs)
Mounting	Omnidirectional, including table mounting, wall mounting, and ceiling mounting					

Control Box

Dimensions	493 mm x 470 mm x 243 mm
Weight	20 kg (44.1 lbs)
Power Supply	100-240 VAC, 50/60 Hz, max. 1 kW (for DC30 max. 2 kW)
Interface	EtherNet/IP, ModbusTCP, USB 3.0, Safe I/Os
Additional Hardware	OPC UA, Profinet, EtherCAT



Teach Pendant

Dimensions	300 mm x 245 mm x 133 mm
Resolution	2560 x 1600
Cable length	5 m (3.3 ft)

*except for DC20, which is IP54

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