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ROBEE

EN

Series R

Humanoid cognitive robot

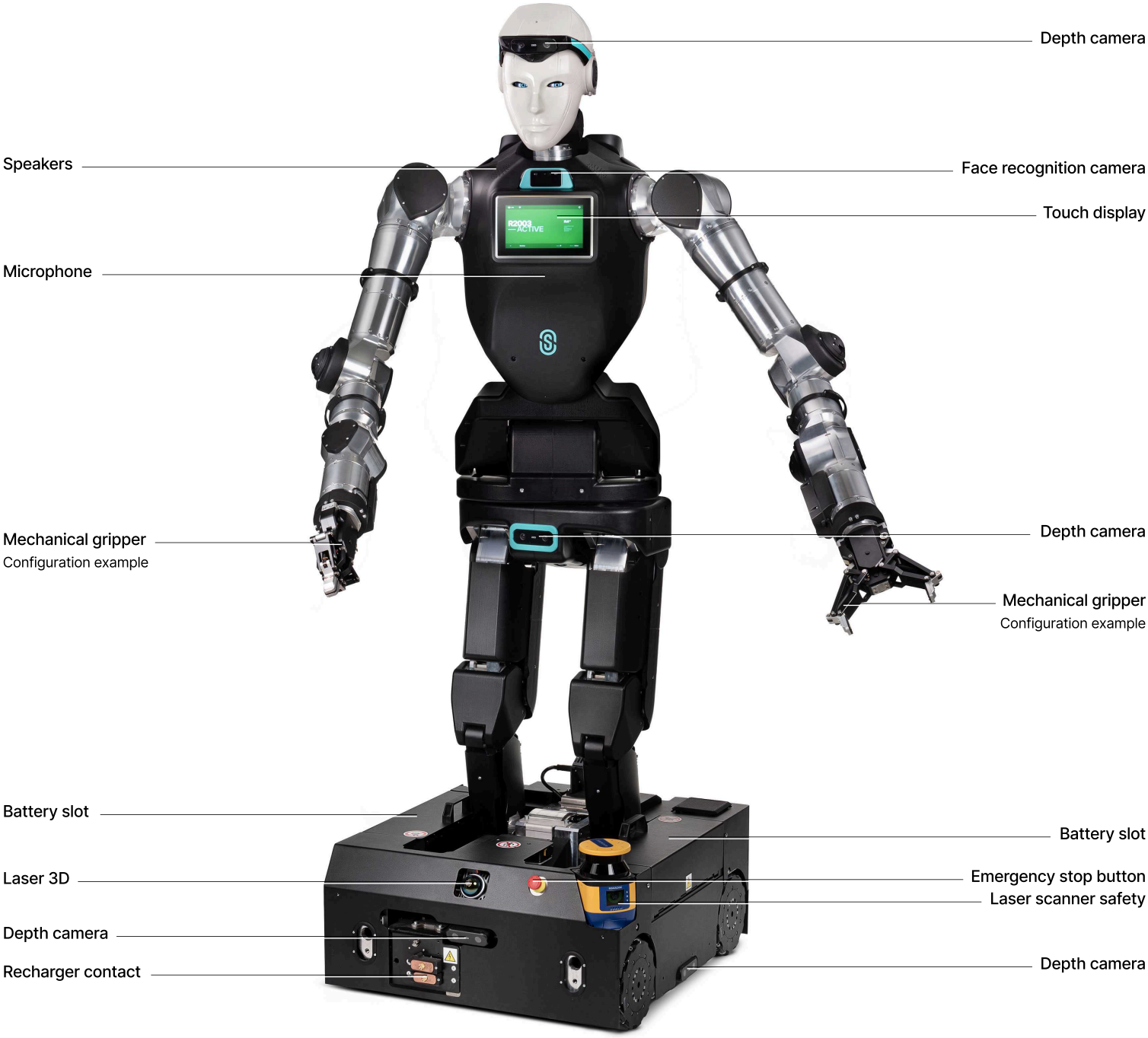
Industrial application

10/2026

ROBEE

Series R

Size and weight	Height	165 — 199 cm
	Weight	Up to 293 kg
	Footprint	65 * 71 cm
	Arm reach	95 cm
Applications	Manufacturing, Logistics, Automotive	
Release year	2026	



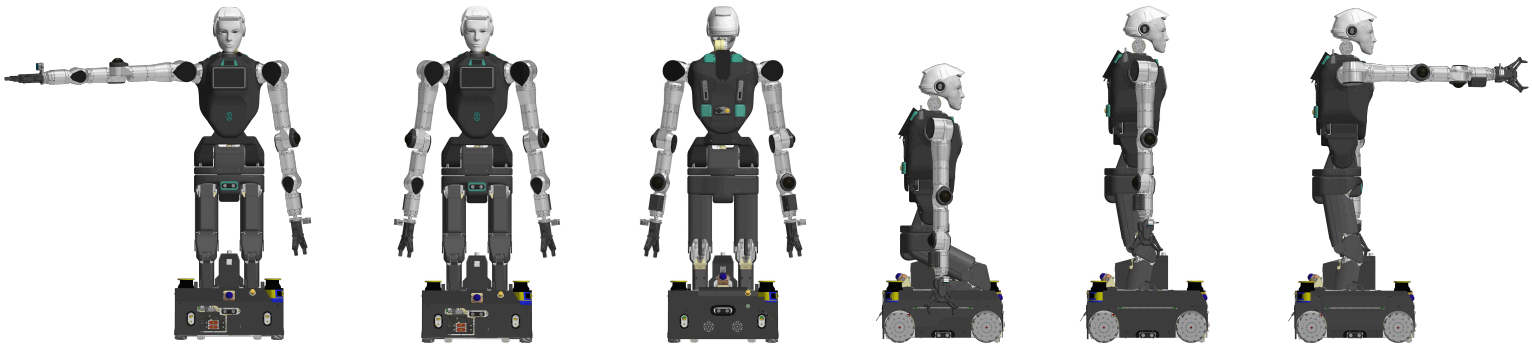
Key features

- Bimanual manipulation
- Autonomous navigation (AMR)
- Computer vision
- VLA-based intelligence for mission execution
- Voicebot
- Integration with ERP/MES systems
- 24/7 predictive maintenance
- Wi-Fi 6 5G-ready connectivity
- Remote control
- Telemetry

RoBee™ R is the first cognitive humanoid robot designed by Oversonic to operate in industrial manufatcuring and logistics. Autonomous, safe, truly collaborative. Thanks to its AMR platform, its technological and bimanual manipulation, it integrates AI platform to make proactive decisions and autonomously reconfigure its activity. Replicates both the physical structure and the capabilities of human beings.

Configuration

Navigation base	Maximum speed	1.2 m/s
	Maximum slope	8%
	Omnidirectional drive	Included
	Sensor obstacle detection SIL 3	Included
Integrated sensors	Motor controls	Power/force feedback
	Navigation	Lidars and cameras
	Laser 3D	Included
	Vision & video streaming	Depth cameras
	Thermal camera	Available on request
Audio	Speakers	60 W
	Microphone	Cardiod
	Voicebot	Included
Remote guidance	Teach pendant	
	Oculus Rift	
Predictive maintenance	Through BeeOS platform	
Data analysis	Through BeeOS platform	
Power	Batteries included	2
	Battery type	Lithium ion
	Battery autonomy	Up to 8 hours (tipical usage)
	Auto recharge	Contact
	Supply voltage	AC 230 V
	Quick battery change	Included

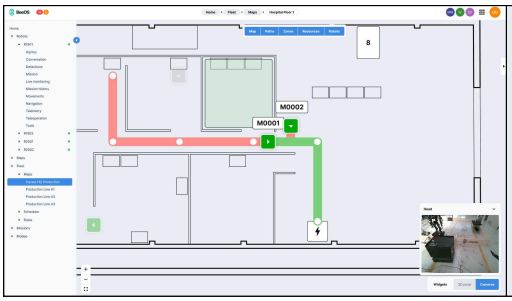


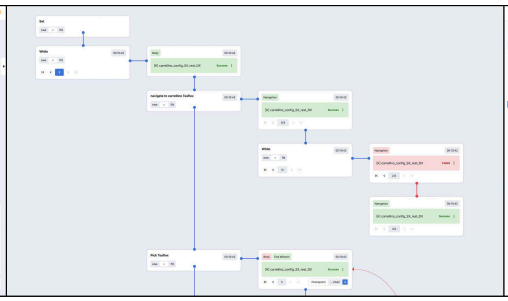
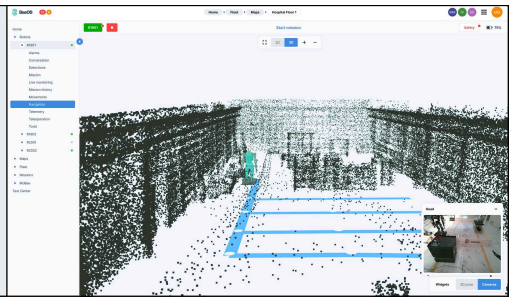
Performances

Manipulation	Cognitive accuracy	3 mm
	Deterministic accuracy	1 mm
	Repeatability	0.8 mm
	Supported end effectors	Mechanical gripper, vacuum gripper, humanoid hand, others
Max. payload	Single arm	7.5 kg
	Double arm	15 kg
	Towable weight	50 kg
Working environment	Type	Indoor
	Operating T range	5 / +50 °C
Connectivity	Wireless	WiFi 6, 5G ready

Compliancy

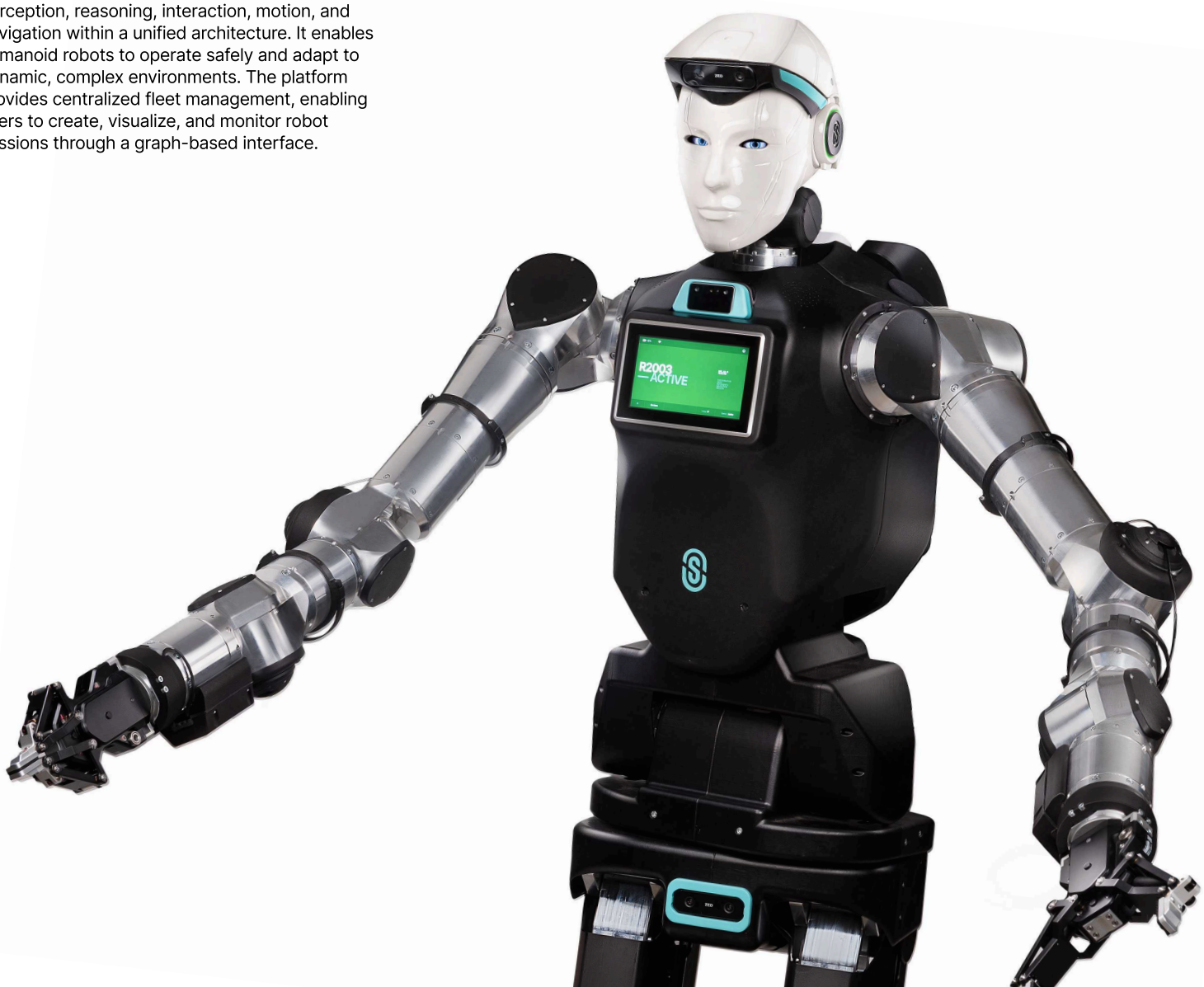
Certifications	EMC-EMI	
	CE	
	ISO 27001:2013	
	UNI EN ISO 14644	Class ISO 6 Cleanroom
	Machine directive	2006/42/CE - D.LGS. 17/2010
IP protection rating	IP64	
GDPR	Compliant	
ATEX	On request	

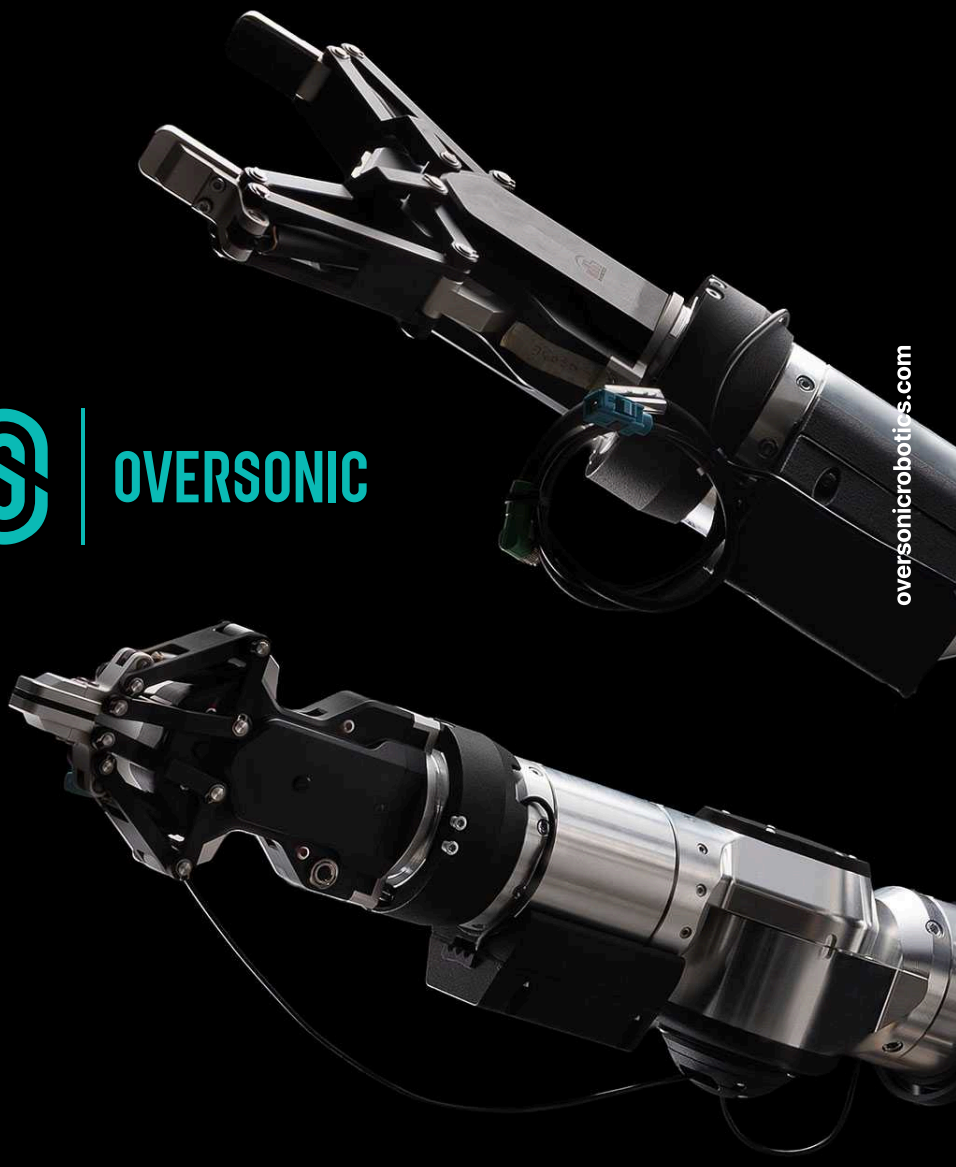


BeeOS

BeeOS is Oversonic's Cognitive Platform, a modular, AI-based software ecosystem integrating perception, reasoning, interaction, motion, and navigation within a unified architecture. It enables humanoid robots to operate safely and adapt to dynamic, complex environments. The platform provides centralized fleet management, enabling users to create, visualize, and monitor robot missions through a graph-based interface.





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Oversonic Robotics Srl Società Benefit is a software company that designs and develops cognitive computing systems, with a particular focus on robotics applications. Founded in 2020, the company established its technological and production center in Carate Brianza (MB) and has another facility in the U.S., in Hamilton (OH). The company employs a team of 110 people, including about 80 software, mechanical, and electronics engineers from various parts of the world. While naturally oriented toward international collaboration, the company maintains a strong Italian identity, offering products that represent the creativity and ingenuity of Italian entrepreneurship and technological know-how.

Certified	
ISO	27001:2013 - ISO 6
Machine Directive	2006/42/CE - D.Lgs 17/2020
GDPR	Compliant

Contact us