

Series M

Humanoid cognitive robot

Medical application

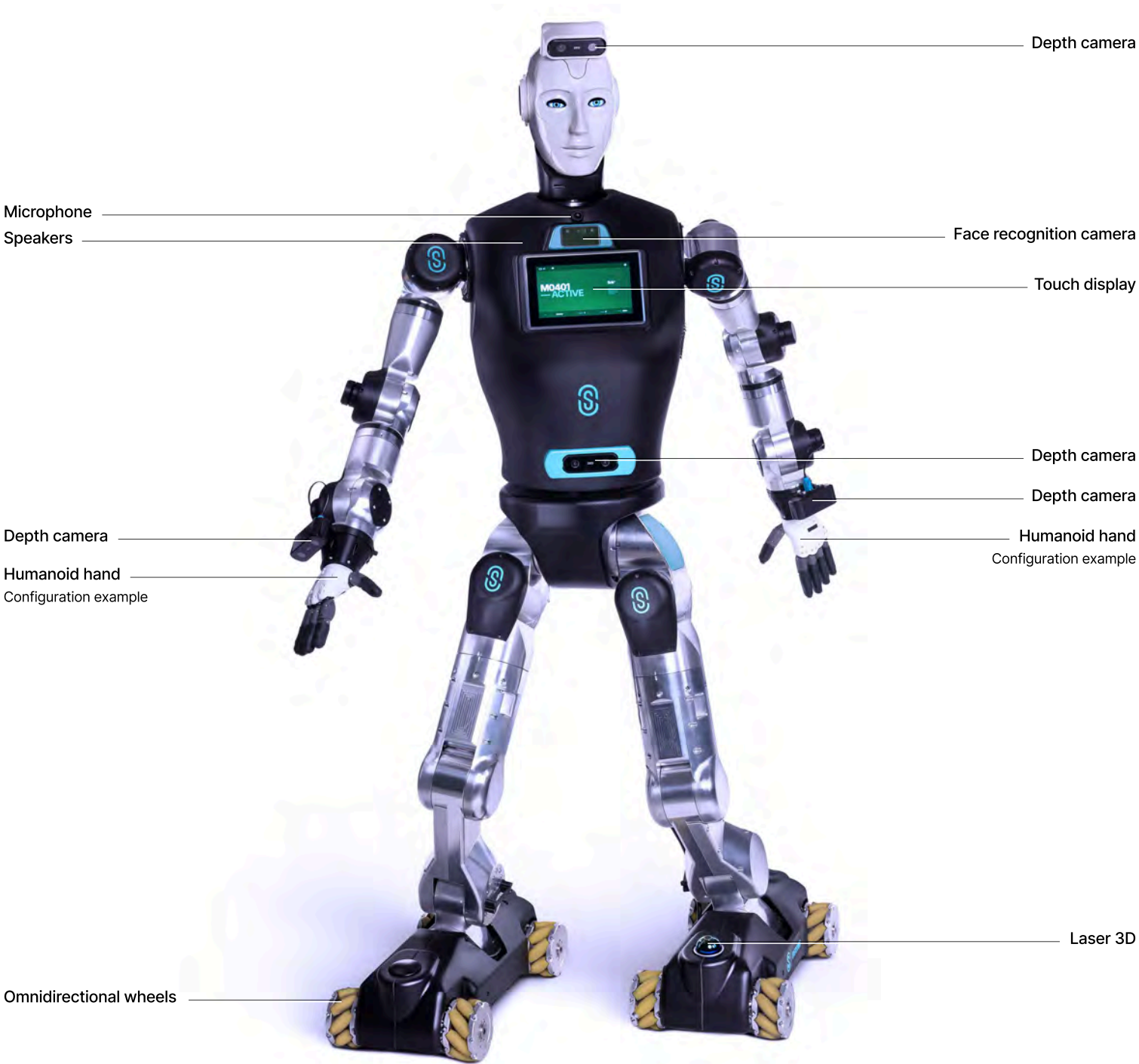
10/2026



ROBBEE

Series R

Size and weight	Height	180 cm
	Weight	150 kg
	Footprint	56 * 53 cm
	Arm reach	70 cm
Applications	Healthcare, Rehabilitation, Research	
Release year	2026	



Key features

Autonomous navigation in complex healthcare environments

Rehabilitation assistance

Support for neuromotor exercises

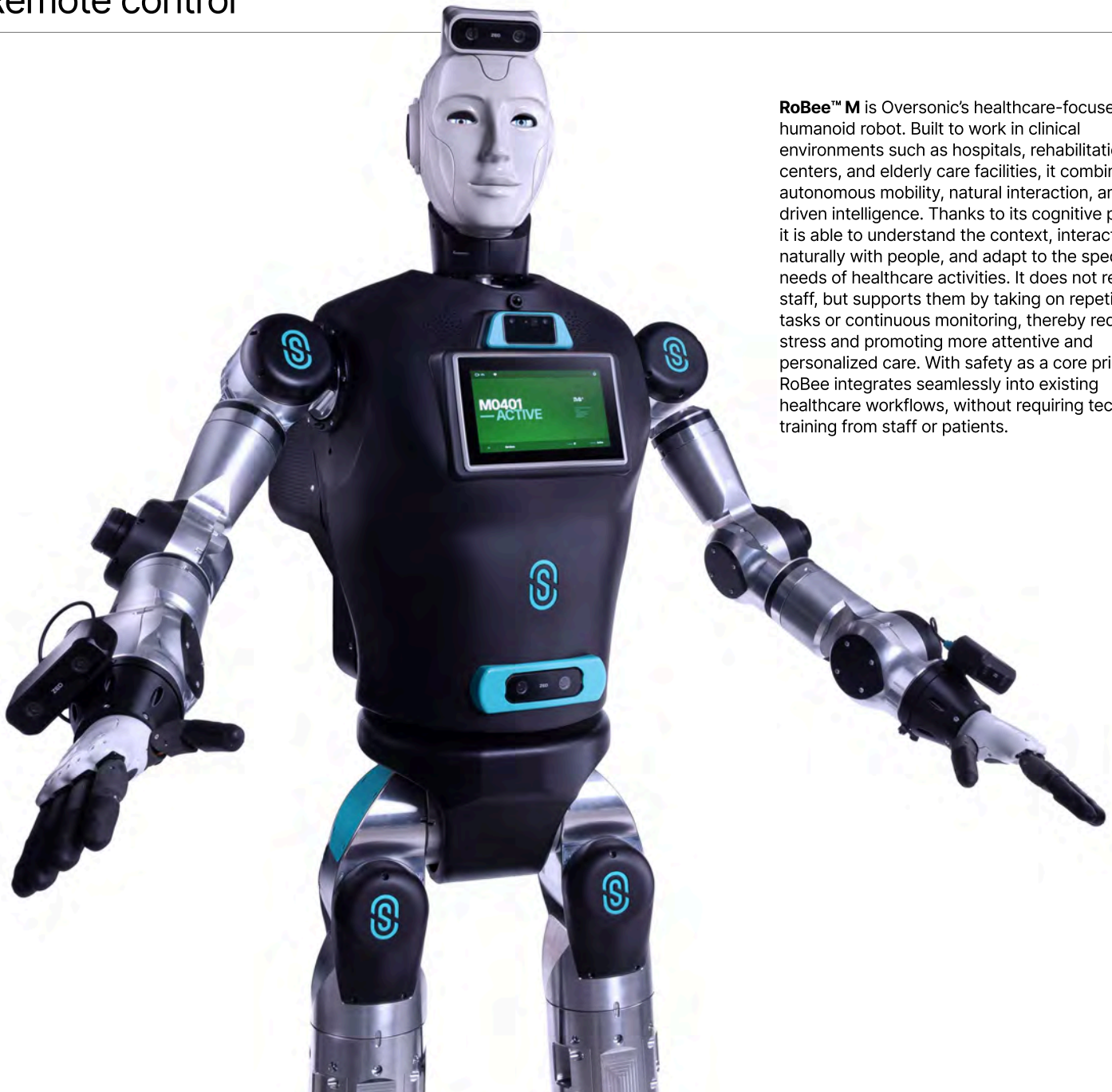
Vital sign detection and monitoring

Software integration with clinical systems

Constant presence to support staff and patients

Wi-Fi 6 5G-ready connectivity

Remote control



RoBee™ M is Oversonic's healthcare-focused humanoid robot. Built to work in clinical environments such as hospitals, rehabilitation centers, and elderly care facilities, it combines autonomous mobility, natural interaction, and data-driven intelligence. Thanks to its cognitive platform, it is able to understand the context, interact naturally with people, and adapt to the specific needs of healthcare activities. It does not replace staff, but supports them by taking on repetitive tasks or continuous monitoring, thereby reducing stress and promoting more attentive and personalized care. With safety as a core principle, RoBee integrates seamlessly into existing healthcare workflows, without requiring technical training from staff or patients.

Configuration

Navigation base	Maximum speed	1.2 m/s
	Maximum slope	8%
	Omnidirectional drive	Included
	Wheels	8 mecanum Ø 100mm
Integrated sensors	Motor controls	Power/force feedback
	Navigation	Lidars and cameras
	Laser 3D	Included
	Vision & video streaming	Depth cameras
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	1
	Battery type	Lithium ion
	Battery autonomy	Up to 4 hours (tipical usage)
	Supply voltage	AC 230 V
	Quick manual 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
Arms	Payload single arm	5 kg
	Payload double arm	10 kg
	Degrees of freedom per arm	6
Legs	Degrees of freedom per leg	6
Working environment	Type	Indoor
	Operating T range	5 / +35 °C
Connectivity	Wireless	WiFi 6, 5G ready



Walking training

Guided psychomotor exercises along structured paths, supporting mobility, coordination, and spatial awareness.

Rehabilitation

Assistance during guided rehabilitation exercises, providing real-time instructions and movement references.

Cognitive exercises

Interactive cognitive activities designed to train memory, logic, and attention through digital devices connected to the robot.

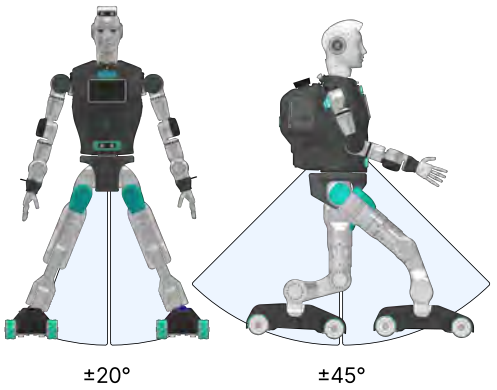
Compliance

Certifications	CE	
	CE Medical Device Class 1	
	ISO 27001:2013	
	Machine directive	2006/42/CE - D.LGS. 17/2010
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.



Independent legs

RoBee M features flexible, independently articulated legs combined with omnidirectional wheels to enhance mobility and adaptability.



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
Machine Directive
GDPR

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



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