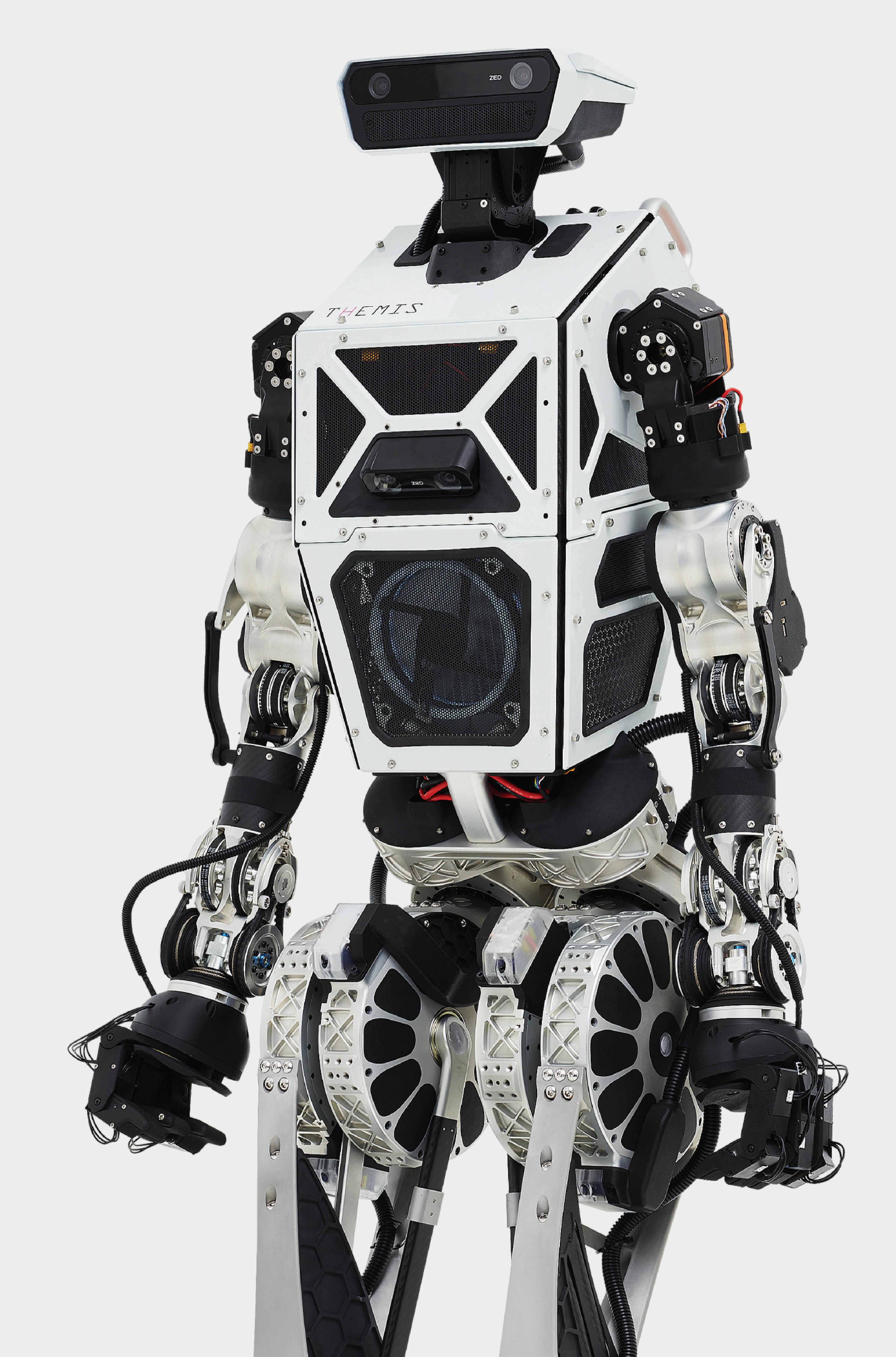
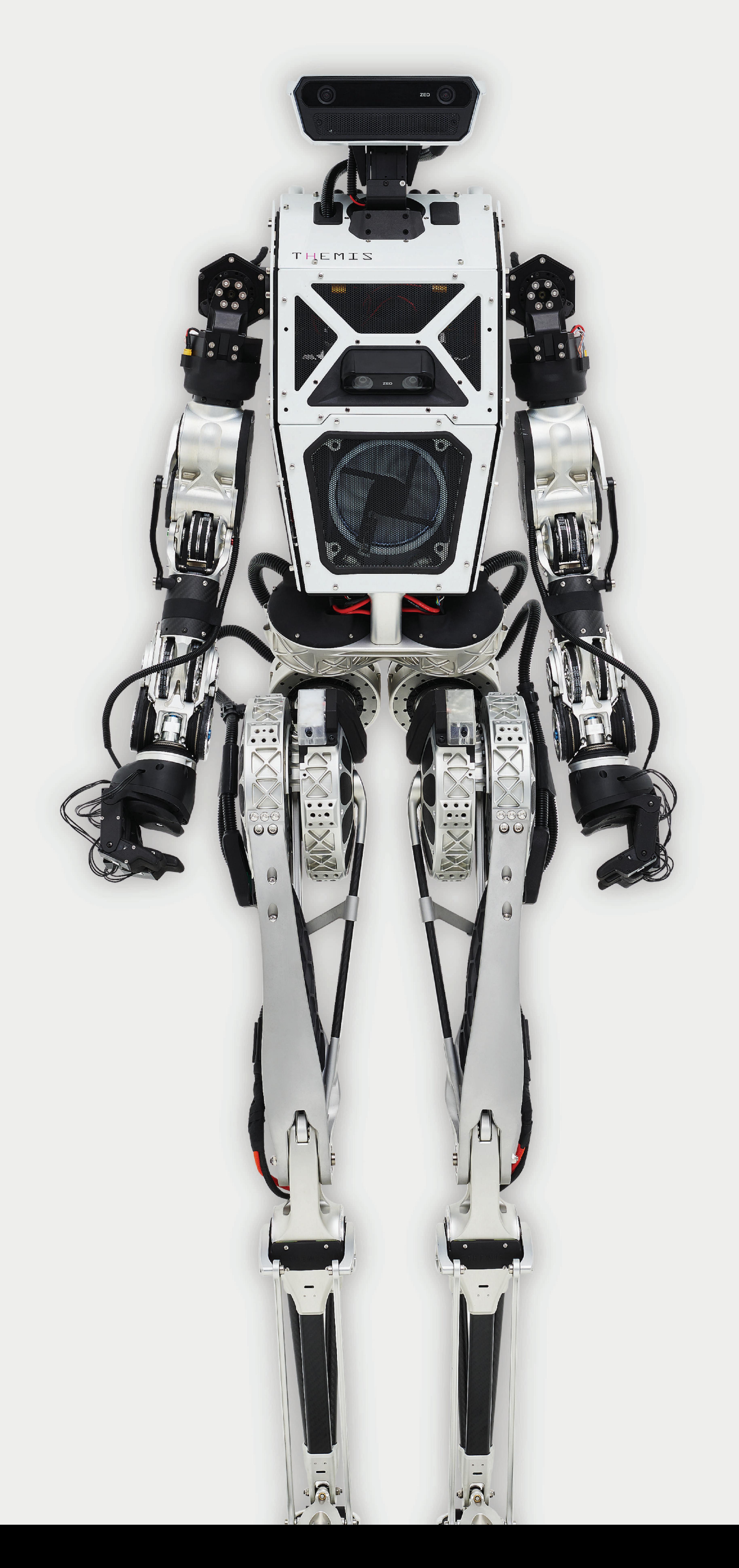


Empowering Human Workflows with Human-Centric Robotics







THEMIS

Full-size Dynamic General Purpose Humanoid Robot

Height: 160 cm | Weight: 36 kg | DoF: 40 Hot-Swappable Batteries | Payload: 10kg



Scan to learn more at: westwoodrobotics.io/themis





Head Unit Al Computing Power

Up to 157 TOPS dedicated for vision and manipulation planning.

Actuated DoF: 2

Articulated head for expressive motion and extensive camera range.

Stereo Camera

RGB + depth information all at a glance.



Body Vision Computing Power

Up to 157 TOPS for ground depth mapping and foot placement planning.

Stereo Camera

Dedicated stereo camera for every perfect step.



Dual-Band Network

Reliable high-speed(1800Mbps) 2.4GHz & 5GHz wireless communication.

(1)) Wireless E-Stop

Immediate remote shutdown capability for enhanced safety.



Powerful Main Control Unit

Powerful 7840HS main control unit processing tasks at 1kHz.

Massive Data Storage

Up to 8TB storage covers from operation records to critical footages.

Optimized 6-DoF Arms

Each arm delivers precise, human-like motion with decoupled design for optimal balance.

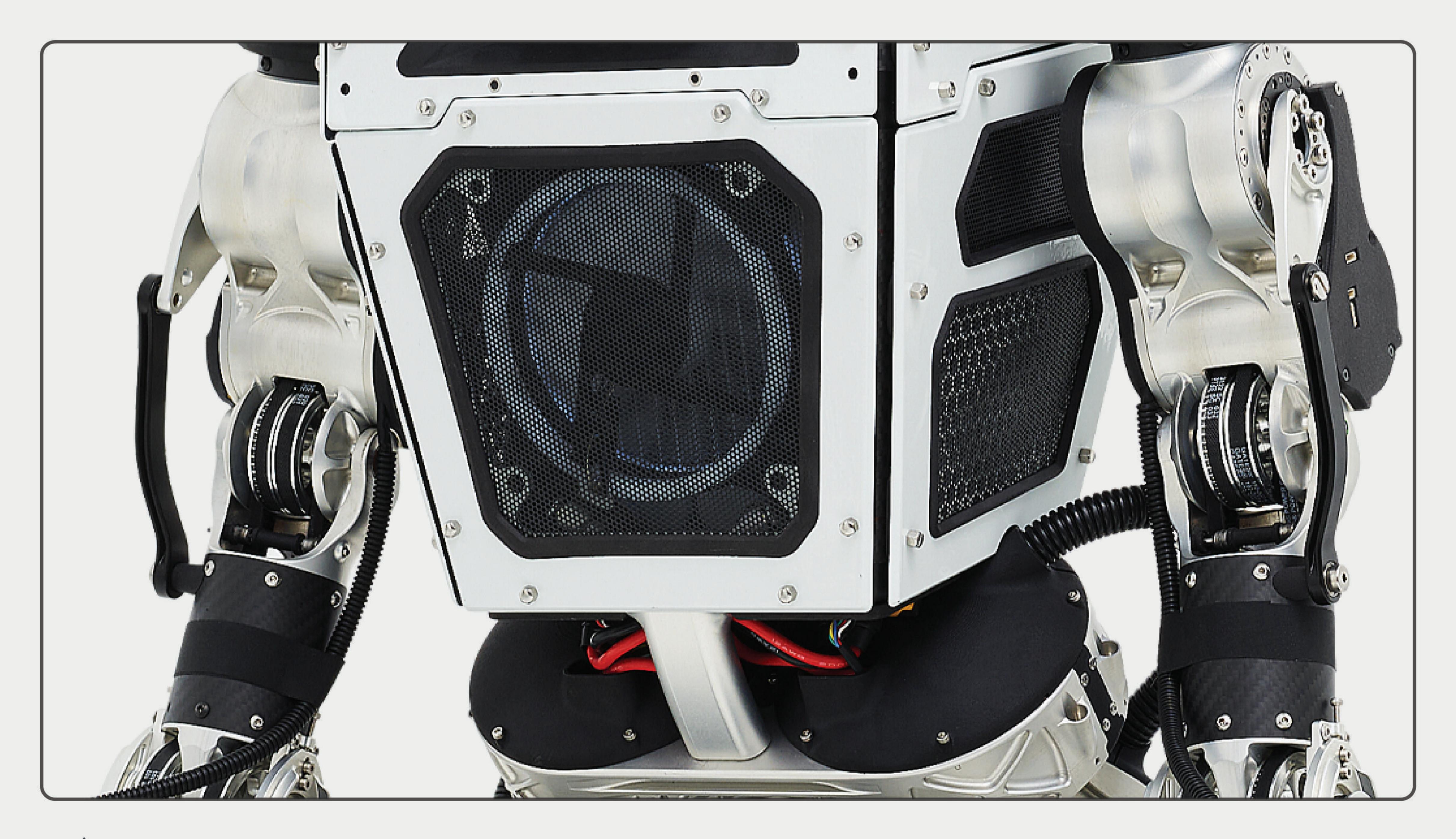
Wide-Angle Articulated Wrist

Enables 180° pitch and 180° yaw for flexible, natural wrist articulation.

Dexterous Adaptive Hand

7-DoF three-finger hand with force control and configurable grasping; touch sensing optional.





Liquid-Cooled Core Actuators

Work hard and keep cool.

Smart Thermal Monitoring

Real-time thermal sensing ensures performance and safety.



Dual High-Capacity Li-Ion Pack High-density energy for 3 hours of operation.

Hot-Swappable Battery Hot-swap for non-stop continuous operation.



Al Augmented Humanoid OS

Our innovative Al Augmented Humanoid OS empowers users to control and deploy THEMIS through LLMs, pseudo code, and Al-assisted teleoperation.

THEMIS is designed to seamlessly integrate into real-world workflows.



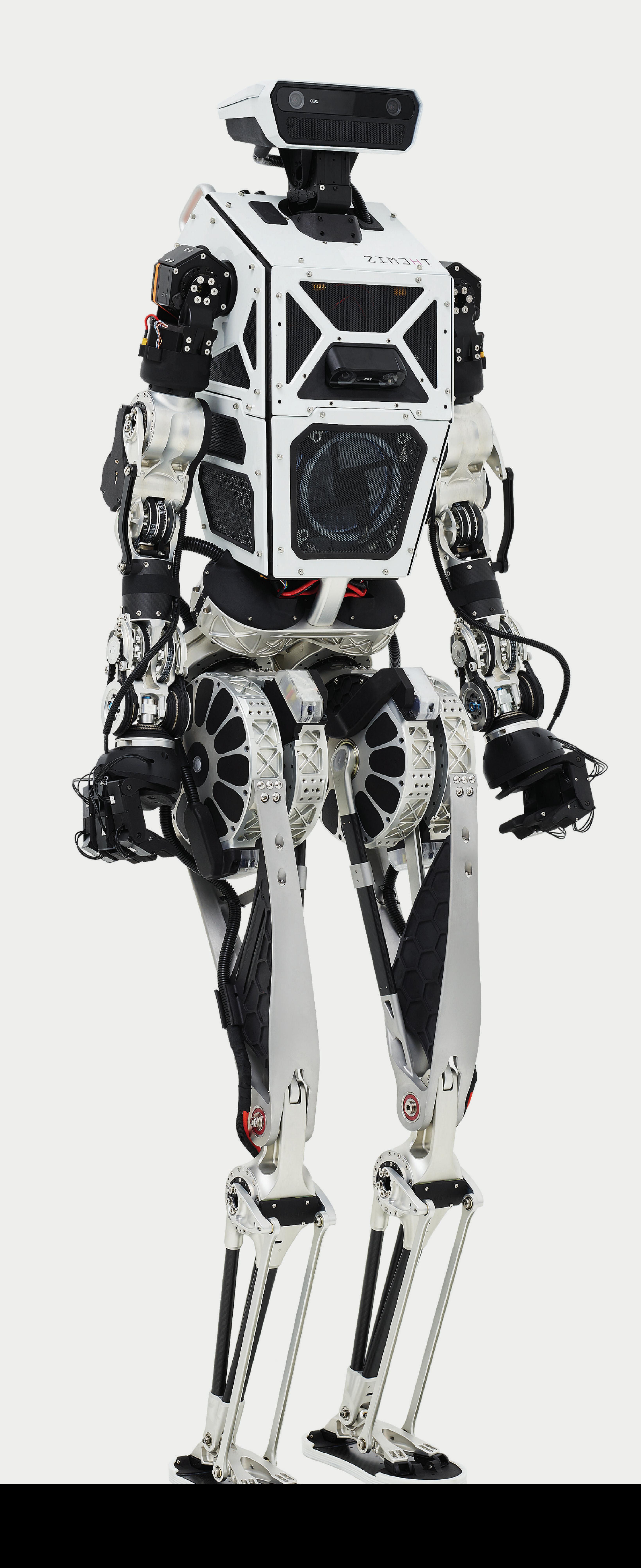






Powered by our in-house BEAR series actuators.

Delivering exceptional agility, strength, and compliant force-controlled motion.



THEMIS Versions & Upgrades

Version Parameter	Basic	Professional	Avalibale Upgrades
Height		1.6m	
Weight	31kg	37.5kg	
End Effector		3-Finger Hand	
Degree of Freedom	22 Total DoF 6DoF per leg 4DoF per arm 2DoF head	40 Total DoF 6DoF per leg 4DoF per arm 2DoF head 7DoF per hand	
Payload Capacity*	10kg	15kg	
Max. Speed *	5km/h	10km/h	
Locomotion Modes	Walk	Walk Run Jump*	
Battery	2 x 259Wh 180A Max Discharge Rate with Safety Protections		- 345Wh LE Batteries - Extra Batteries
Battery Hot-Swap	Supported		
Max. Edurance*	120min		180min
Main IMU	Tactical 9DoF		GPS Optional
Foot Contact Sensor			3 per Foot
Main Computer	CPU: AMD Ryzen 7840 GPU: AMD Radeon 780M DDR5 16GB + SSD 512GB		- RAM up to 64GB - SSD up to 8TB
Human Interaction	Speaker + Mic		
Head Vision	Stereo: ZED 2i		Stereo: ZED X
Head Vision Computer	Orin NX 16GB		
Head IMU	9 DoF		
Body Vison		ZED X Mini	
Body Vision Computer		Orin NX 8GB	Orin NX 16GB
Wireless E-Stop	Equipped		
Wireless Network	1800Mbps Dual-band Wifi 6		
Liquid Cooling*			Optional
THEMIS Advanture™ (Free Repair Service)		12 Months	Up to 12 additional months

^{*} Payload Capacity is the maximum payload the robot can carry, approporate adjustments to the robot's dynamic model may be required to achieve stable performance.

^{*} Max. Speed is the maximum free-load locomotion speed of the robot on non-slippery flat ground.



Bringing Robots Closer To People

westwoodrobotics.io



Contact us: info@westwoodrobotics.io