

SRI Robotics creates low-cost, high-performance and highly efficient robotic solutions for mobility and manipulation. We're interested in partnering with government and commercial organizations to customize and deliver industry-leading solutions for your needs. Contact us for more information at robotics-program@sri.com.



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STAY CONNECTED



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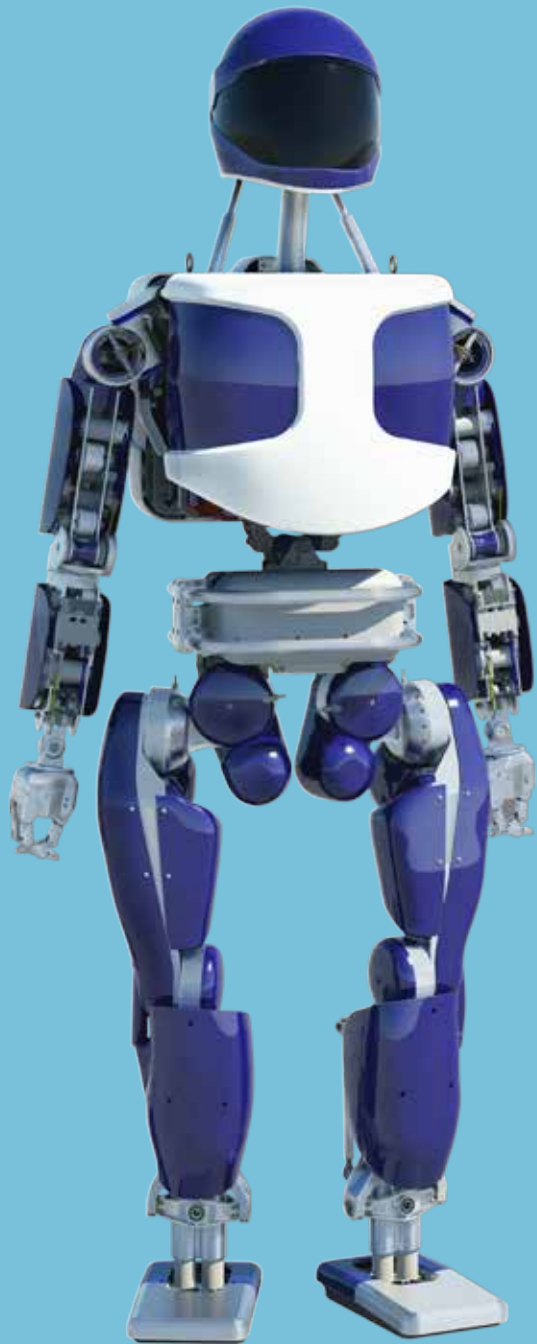
Redefining Humanoid Efficiency

SRI Robotics™



Humanoid-Hand-Arm

- Redefining humanoid efficiency
- Low-cost, high-performance design
- Novel transmissions with 97% efficiency
- Dexterous end effectors
- Robust underactuated hands



Low-cost, high-performance, highly efficient humanoid

20x more efficient than current humanoid robotics platforms.

Novel transmission reduces friction, increasing efficiencies by **97%** (60% to 70% in modern commercial transmissions).

Walking gait is a dynamically stable, human-like gait. Stores energy as mechanical energy in springs, increasing efficiencies.

Designed for 8 hours continuous operation (walking)

Low-cost, high-performance electric motors

Modular, high-efficiency electronics

Novel transmission with 97% efficiency

Torque sensing on every joint enables compliant, human-friendly interaction

Battery capacity: 2.2 kWh
Weight: 19 kg

10 kHz local control of current, torque and position

Weight: 100 kg



Energy storing spring for efficient walking

Excellent mechanical acceleration exceeds 130 rad/s²



Robust underactuated hands
Grip force: 100 kg