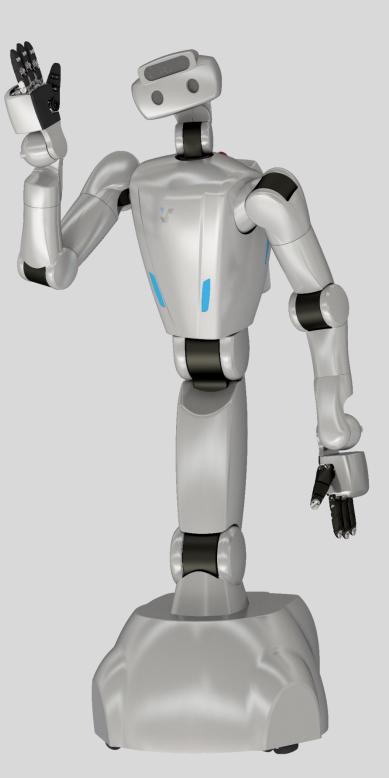
The Humanoid Platform for Cutting-edge AI & Robotics Research



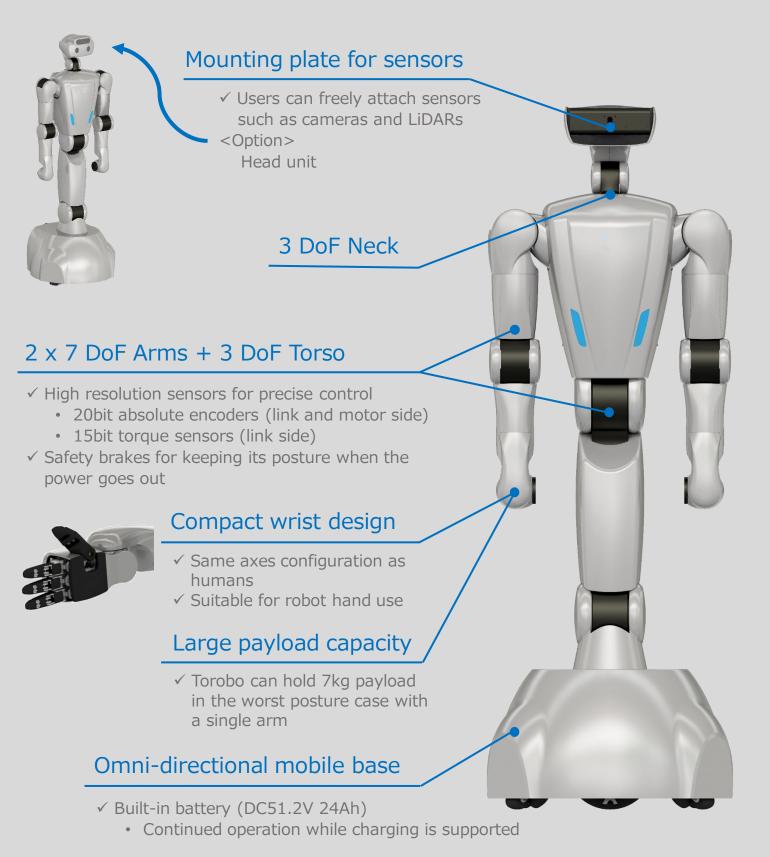




"Torobo" is a torque-controlled humanoid

✓ Real-time variable compliance control

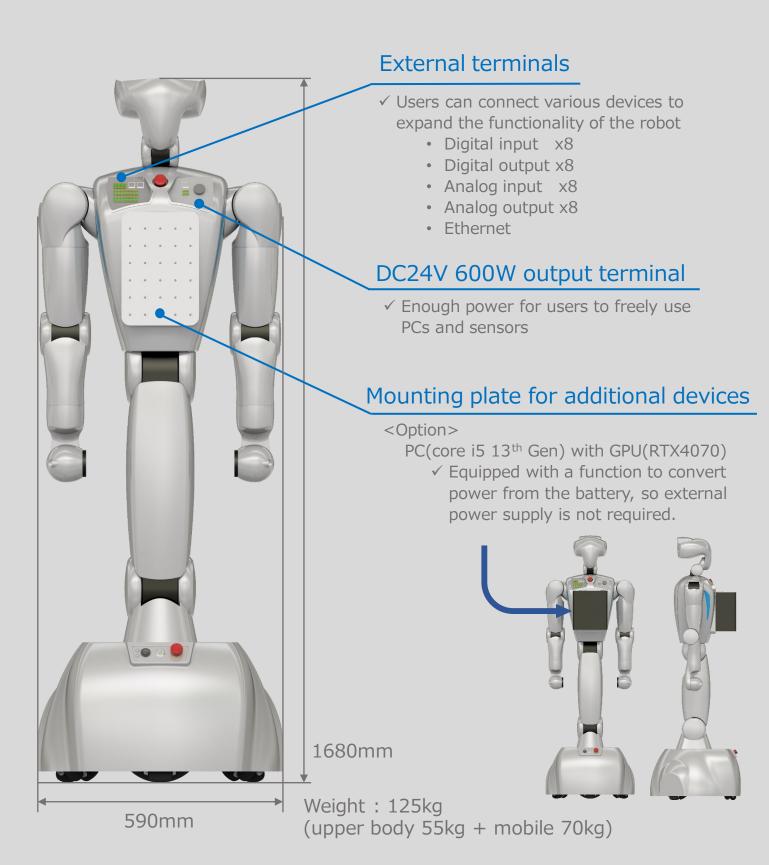
Torobo is equipped with high-precision torque sensors, which allows for impedance control on its arm and torso joints. These features not only allow Torobo to perform tasks which requires significant force, but also gentle and delicate operations.



robot suitable for AI & robotics research

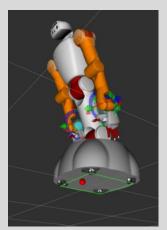
A fully integrated system

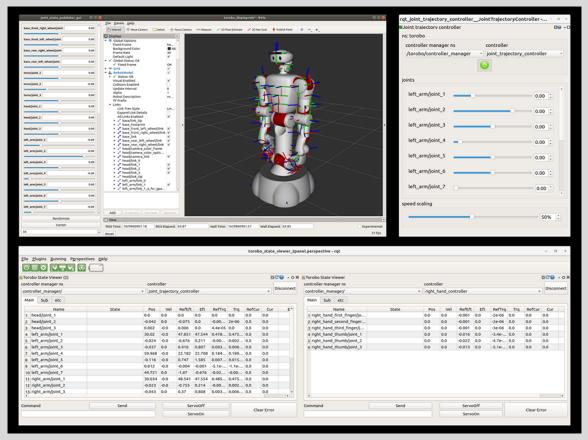
The two arms, torso, head, and omni-directional mobile base of Torobo are all fully integrated. The adoption of EtherCAT connects each component and enables users to accomplish a variety of tasks with precise motion control.



Software development environment

- ✓ Basic control functions are available for accelerating user application development
 - Cartesian impedance control using whole body joints
 - ZMP monitoring to prevent falling down
 - Real-time self-collision monitoring
 - Joint torque and velocity limit
- Compatible with ROS2, enabling smooth integration with numerous end effectors, sensors and software





Options



Head unit

- RGBD-Camera
- PC with Nvidia RTX 4070
- Speaker
- Microphone



3 finger simple hand



4 finger dexterous hand

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TokyoRobotics