

# Tsinghua Hephaestus 2026 Specification

Tsinghua University, Beijing, China

mgzhao@mail.tsinghua.edu.cn



Fig. 1. Booster T1

- **Robot name:** Booster T1
- **Height of the robot:** 1180 mm
- **Weight of the robot:** 30 kg
- **Walking Speed:** 1.2 m/s
- **Number of degrees of freedom:** 23
- **Type of motors:** Booster Robotics Integrated Joints with Max Torque 7Nm,36Nm,60Nm,90Nm,130Nm.
- **Sensors:** **Camera**, RealSense D455 with IR disabled; **Gyro**, 9-Axis IMU SurPass A500
- **Control unit:** INTEL i7 1370P
- **Perception and Decision Unit:** NVIDIA AGX Orin 32GB
- **Materials:** 7075 Aluminum Alloy and Engineering Plastics
- **Battery:** 10.5Ah Ternary lithium battery