

Boosted HTWK 2025 Kidsize

Team Specification

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Fig. 1. Booster K1

- Robot name: Booster K1
- Height of the robot: 900 mm
- Weight of the robot: 20 kg
- Walking Speed: 100 cm/s
- Number of degrees of freedom: 22
- Type of motors: Booster Robotics Integrated Joints with Max Torque 60Nm, 50Nm, 36Nm, 14Nm, 7Nm.
- Sensors:
 - Camera: Intel Realsense D455 (current prototype), Zed 2i (for competition)
 - Gyro: 9-Axis IMU SurPass A500
- Computing Unit: NVIDIA Jetson Orin
- Materials: 7075 Aluminum Alloy and Engineering Plastics
- Battery: 100Wh Ternary lithium battery