

Tsinghua Hephaestus 2019 AdultSize Team Specification

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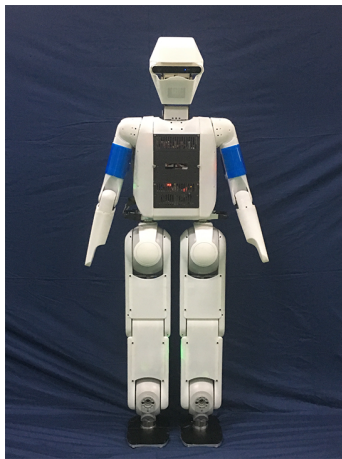


Fig. 1. Robot Walker

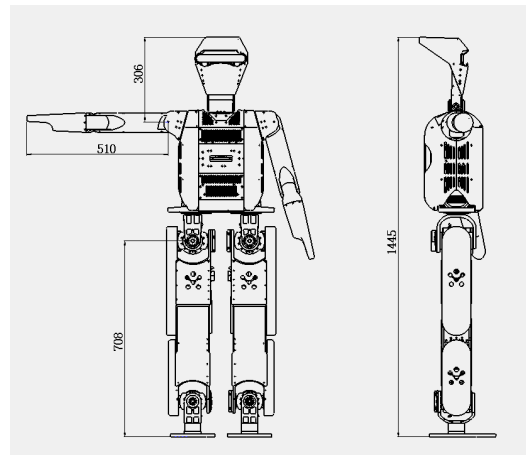


Fig. 2. Robot Dimension

- Robot name : Walker
- Height of the robot : 1445 mm
- Weight of the robot : 50 kg
- Walking Speed: 0.40 m/s
- Number of degrees of freedom : 22
- Type of motors : Harmonic gear box + PMSM Motor, 30NM/60NM@80rpm
- Camera : ZED Stereo Camera
- Gyrometer : ORIENTUS Advanced Navigation
- Control unit : UMX572X:(ARM Cortex-A15)+ (DSP C66X)
- Perception and Decision Unit: NVIDIA Jetson TX2