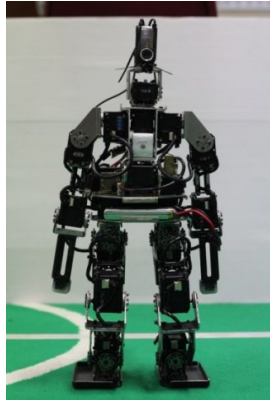


## Robot Specification



**Name:** Phoenix-1/Phoenix-2

**Height:** 58 CM

**Weight:** 4 KG

**Walking speed:** ~0.2m/s

**Number of DOF:** 21

**Actuators used:** Servo motor

\* Manufacturer: ROBOTIS Dynamixel RX-28, RX-64

\* Torque: 37.7 KG-CM (@16 V), 64.4 KG-CM (@16 V)

\* Speed: 0.126 sec/60°, 0.188 sec/60°

**Sensors used:**

**Camera**

\* Manufacturer: Logitech Quickcam Pro

\* Specification: 15 frames per sec., 320 X 640 resolutions

**Tilt Sensor**

\* Manufacturer: Analog Device, ADXL202

\* Specification: +/- 2g

**Rate Gyro (2X)**

\* Manufacturer: Silicon Sensing Systems, CRS03-02

\* Specification: +/- 100 deg/sec

**Processing boards used:**

Vision Board and Main PC

\* Manufacturer: Advantech

\* Processor: PICO-ITX

\* Speed: 1.6 GHz

\* OS: LINUX

**Motor controller**

\* Manufacturer: Philips LPC-2148

\* Processor: ARM7 TDMI-S

\* Speed: 60MHz