

NimbRo TeenSize Robot Data Sheet

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<http://www.NimbRo.net>

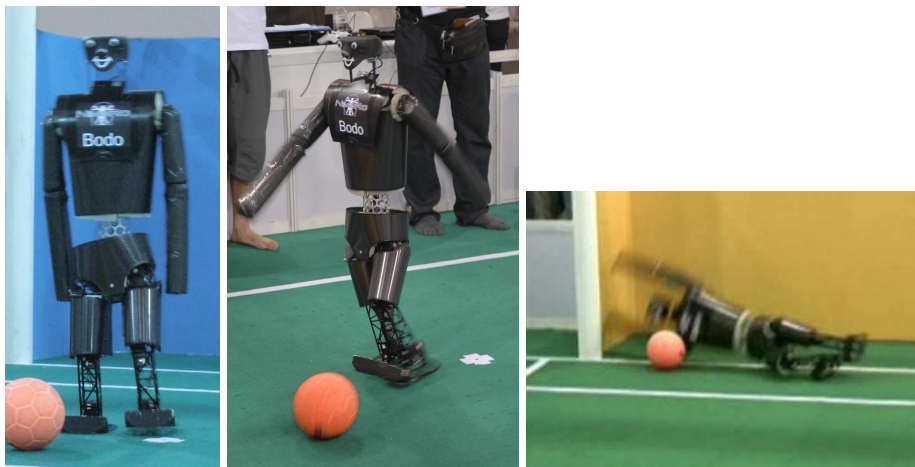


Fig. 1. NimbRo TeenSize robot Bodo.

- **Robot name:** Bodo
- **Number of degree of freedom:** 14 DOF: 6 per leg, 1 per arm
- **Type of motors:** Robotis Dynamixel RX-64 and DX-117
- **Computing unit:** Sony VAIO UX1XN ultra mobile PC, Intel 1.3GHz Core Solo
- **Walking speed:** up to 20cm/s, omnidirectional walking
- **Cameras:** three WVGA USB2.0 cameras IDS uEye UI-1226LE, (with wide-angle lenses, combined field-of-view less than 180°)
- **Sensors:** dual-axis accelerometer (ADXL203, $\pm 1.5g$) and two gyroscopes (ADXRS, $\pm 300^\circ/s$)
- **Other specs:** size: 103cm, weight: 5kg.



Fig. 2. Nimbro TeenSize robot Robotina.

- **Robot name:** Robotina
- **Number of degree of freedom:** 23 DOF: 6 per leg, 4 per arm, 3 in the trunk
- **Type of motors:** Robotis Dynamixel RX-64 and DX-117
- **Computing unit:** Sony VAIO UX1XN ultra mobile PC, Intel 1.3GHz Core Solo
- **Walking speed:** up to 20cm/s, omnidirectional walking
- **Cameras:** single WVGA USB2.0 camera IDS uEye UI-1226LE with wide-angle lens
- **Sensors:** dual-axis accelerometer (ADXL203, $\pm 1.5g$) and two gyroscopes (ADXRS, $\pm 300^\circ/s$)
- **Other specs:** size: 122cm, weight: 9kg.

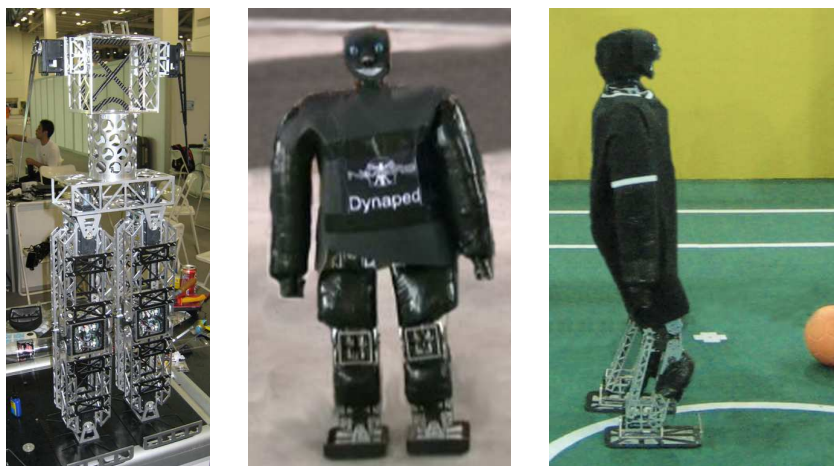


Fig. 3. NimbRo TeenSize robot Dynaped.

- **Robot name:** Dynaped
- **Number of degree of freedom:** 12 DOF: 5 per leg, 1 per arm
- **Type of motors:** Robotis Dynamixel EX-106 and RX-64
- **Computing unit:** Sony VAIO UX1XN ultra mobile PC, Intel 1.3GHz Core Solo
- **Walking speed:** up to 40cm/s, omnidirectional walking
- **Cameras:** three WVGA USB2.0 cameras IDS uEye UI-1226LE, (with wide-angle lenses, combined field-of-view less than 180°)
- **Sensors:** dual-axis accelerometer (ADXL203, $\pm 1.5g$) and two gyroscopes (ADXRS, $\pm 300^\circ/s$)
- **Other specs:** size: 105cm, weight: 7kg.