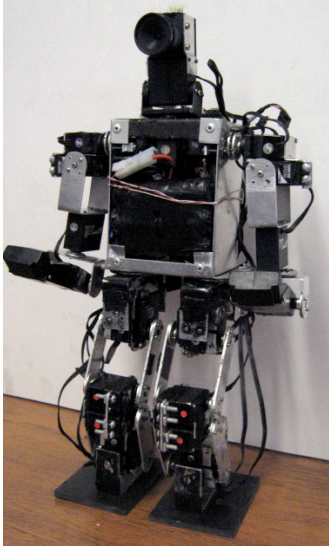
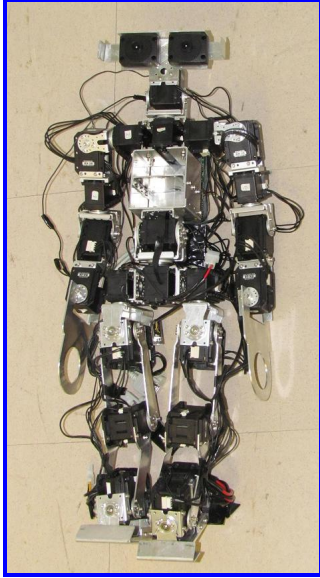



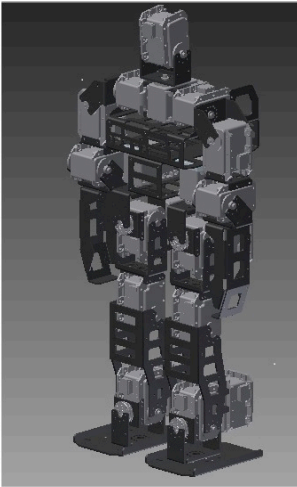
## DotMX (.MX): Robot Specification Page

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|                   |   |
|-------------------|---|
| 1.-Robot Picture  |  <p>Note: We have two robots with exactly the same characteristics and hardware</p>  |
| 2.- Names         | <i>“Tuca”</i> and <i>“Brody”</i>  |
| 3.- DOF           | Total: 22. 7 in each leg.   |
| 4.-Computing Unit | Micom MR-C3000 with ATmega 128 MPU 8bit RISC at 7.3728Mhz, with 32K flash memory and a 1Gb SD Memory Card.  |
| 5.- Walking Speed | Walking: 0.09 m/s. Running: 0.24 m/s  |
| 6.- Camera        | CMU Cam 3 camera. This camera is equipped with a Philips LPC2106 processor, 64 Kb RAM, 128 Kb ROM, serial port and SD card slot. It can grab RGB and YCrCb images up to 352 by 288 pixels at rates of 26 FPS. |
| 7.- Sensors       | M75501 gyroscope, GP1S036 tilt sensor, HMC6352 Spark Fun Compass, SparkFun Electronics - Triple Axis Accelerometer Breakout - ADXL330   |
| 8.- Other Specs   | Height: 432 mm. HCOM : 225 mm, Weight: 2.4 kg. Foot Area: 60 cm <sup>2</sup>  |

|                   |  |
|-------------------|--|
| 1.-Robot Picture  |    |
| 2.- Name          | AH1N1  |
| 3.- DOF           | Total: 26. 6 in each leg.  |
| 4.-Computing Unit | RoBoard RB-100. Vortex86DX CPU – 1000 MHz, 256 MB RAM. Gumstix Overo Fire COM - ARM Cortex-A8 CPU – 720 MHz, C64x+ DSP, 256 MB RAM |
| 5.- Walking Speed | Walking: 0.15 m/s.   |
| 6.- Camera        | 2 Point Grey Firefly MV, 1 MicroStrain 3DM-GX1,Color Stereoscopic Vision, 0.3 MP Resolution  |
| 7.- Sensors       | 1 MicroStrain 3DM-GX1, 8 Force Sensitive Resistor  |
| 8.- Other Specs   | Height: 580 mm. HCOM : 280 mm, Weight: 4.5 kg. Foot Area: 100 cm <sup>2</sup>  |

|                   |   |
|-------------------|---|
| 1.-Robot Picture  |   |
| 2.- Name          | “Hugol” (Darwin-OP).  |
| 3.- DOF           | Total: 20. 6 in each leg. MX28 Robotis Servos.                                      |
| 4.-Computing Unit | FitPC2, Intel Atom Z530 CPU (clocked @ 1.6GHz). Robotis CM730 Servo Controller.     |
| 5.- Walking Speed | Walking: 0.25 m/s.  |
| 6.- Camera        | Image (2MP Logitech C905) HD Camera   |
| 7.- Sensors       | IMUs (3-axis accelerometers, 3-axis gyroscope, both intrgrated into sub controller) |
| 8.- Other Specs   | Height: 455 mm. HCOM : 230 mm, Weight: 2.8 kg. Foot Area: 66 cm <sup>2</sup>        |

|                   |  |
|-------------------|--|
| 1.-Robot Picture  |  <p data-bbox="582 855 1299 909">Note: We have two robots with exactly the same characteristics and hardware</p> |
| 2.- Names         | Darwin-MX 1 and 2 (Darwin-OP based).   |
| 3.- DOF           | Total: 20. 6 in each leg. Robotis RX28 Servomotors.  |
| 4.-Computing Unit | FitPC2, Intel Atom Z530 CPU (clocked @ 1.6GHz). Robotis CM730 Servo Controller.  |
| 5.- Walking Speed | Walking: 0.25 m/s.   |
| 6.- Camera        | Image (2MP Logitech C905) HD Camera  |
| 7.- Sensors       | IMUs (3-axis accelerometers, 3-axis gyroscope, both intrgrated into sub controller)  |
| 8.- Other Specs   | Height: 455 mm. HCOM : 225 mm, Weight: 2.8 kg. Foot Area: 66 cm <sup>2</sup>   |