

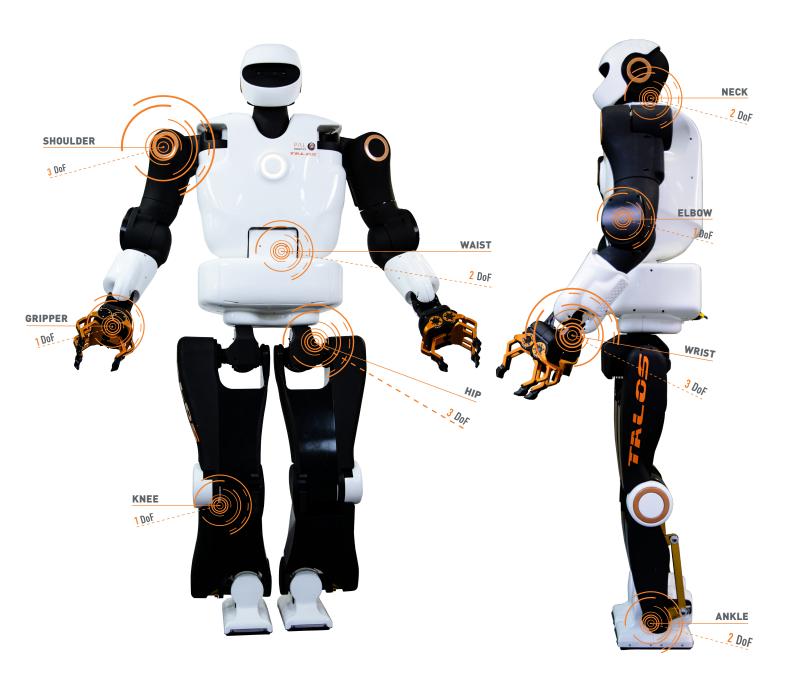
Simulation model available at: wiki.ros.org/Robots/TALOS

GENERAL FEATURES | Weight 95 kg

Height 175 cm

32 DEGREES OF FREEDOM (DoF)

Legs 6 (x2) Waist 2 Arms 7(x2)Neck 2 Gripper 1 (x2)





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MANIPULATION	Arm/Gripper payload Workspace	6 kg (arm stretched) Large workspace for dexterous bi-manipulation
CONNECTIVITY	Wi-Fi Ethernet EtherCAT Service Port	802.11 a/b/g/n 5 and 2.4 GHz (Access Point or Client mode) Direct connection to PCs from user panel RJ45 port Possibility to connect external Master to control the robot For tethered Emergency button
ELECTRICAL FEATURES	Power system Nominal energy Maximum discharge Battery autonomy	Lithium-Ion battery 1080 Wh +100 A 1.5h walking / 3h stand-by
<u>HRI INTERFACES</u>	Speakers LEDs	5 W, Text to Speech in English included 24 RGB, API for visual effects control
SENSORS	Force/Torque sensors Torque sensors AHRS - IMU	<ul><li>(x4) 6 axis F/T sensor (in both ankles and wrists)</li><li>FULL TORQUE SENSOR FEEDBACK IN ALL JOINTS*</li><li>1 kHz filtered orientation, gryo, acceleration</li></ul>
COMPUTERS	Intel Core i7	(x2) control and multimedia PC (COM Express Type-6)
SOFTWARE	OS Middleware Simulation Control Planning	Ubuntu LTS, Linux RT Preempt ROS, OROCOS Gazebo simulation and URDF model Real-time ros_control loop at +1 kHz Movelt!
VISION	Field of view RGB Depth	60° horizontal x 49.5° vertical x 73° diagonal 1280x720 at 30 fps 640x480 at 30 fps, 0.4-8m range
HEAD	Specs Modular	150° pan range in every head tilt position Fully customizable
GRIPPER	Specs Modular	3 fingers, 1 actuator with current limit control Fully customizable





