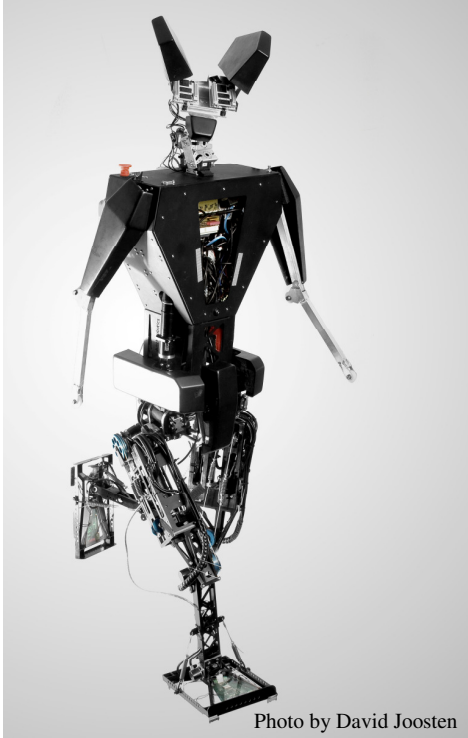


Team Dutch Robotics: Robot Specification 2010



Robot name	TULip
Degrees of freedom	17
Robot top height	124 cm
Height robot center of mass	68 cm
Leg heights	56.5 cm
Head height	15.5 cm
Foot width	15 cm
Foot length	21 cm
Arm cross	122 cm
Arm stretch	153 cm
Type of motors	Maxon RE25 20W DC motors with planetary gearbox Maxon RE30 60W DC motors with planetary gearbox Dynamixel RX-28
Computing unit	1GHz PC104 Single Board Computer
Camera	Two SRV-1 Blackfin VGA Low Light Color Cameras
Sensors	
Motors	Maxon Incremental encoders, 500 counts per revolution
Joints	Scancon Incremental encoders, 30000 counts per revolution
Feet	Single element flexible load cells STMicroelectronics 3D accelerometers
IMU	Xsens MTi
Walking speed	0.4 m/s
Operating time	30 minutes