

Team Dutch Robotics: Robot Specification



Photo by David Joosten

Robot name	Tulip
Degrees of freedom	17
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	Virtual Cogs VC21CC1 Camera Cog 1280x1024 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
Length	1.2 meter
Operating time	30 minutes