

NUBOTS

ROBOT SPECIFICATION

PHYSICAL SPECIFICATIONS

Name	NUgus
Height (cm)	90
Weight (kg)	7.65
Walking Speed (cm/s)	20
Battery	14.8 V, 4200 mAh LiPo
Printed Material: Head, Torso, Arms, Feet	Onyx (Carbon Fibre / Nylon Composite)
Machined Material: legs	6063 Aluminium Alloy

DEGREES OF FREEDOM

Legs (each)	6
Arms (each)	3
Neck	2
Total	20

MOTORS AND SENSORS

Dynamixel XH540-W270-R Servo, 87.32 W	x10
Dynamixel MX-106R Servo, 93.24 W	x2
Dynamixel MX-64AR Servo, 76.96 W	x8
FLIR BlackFly S BFS-U3-13Y3C-C	x2
ICM-20689, 6-axis Inertial Measurement Unit	x1
Interlink Electronics Force Sensitive Resistor 402 (work in progress)	x8

COMPUTING UNITS

Intel NUC12WSHi7 (Core i7-1260P)	4.7 GHz
NUSense Subcontroller	480 MHz

THE UNIVERSITY OF NEWCASTLE (AUSTRALIA)



NUgus Robot.

Open Source

GitHub	https://github.com/NUbots/NUware
Onshape	link