

# NUBOTS

## ROBOT SPECIFICATION

### PHYSICAL SPECIFICATIONS

Height (cm)	90
Weight (kg)	7.65
Walking Speed (cm/s)	20
Battery	14.8v 4200mAh LiPo
Printed Material	Onyx (Carbon Fibre / Nylon Composite)
Machined Material	6063 Aluminium Alloy

### DEGREES OF FREEDOM

Legs (each)	6
Arms (each)	3
Neck	2
<b>Total</b>	<b>20</b>

### MOTORS AND SENSORS

Dynamixel MX-106R Servo ( <i>legs</i> )	x10
Dynamixel XH540-W270-R Servo ( <i>knees</i> )	x2
Dynamixel MX-64AR Servo	x8
FLIR BlackFly S BFS-U3-13Y3C-C	x2
3-axis Gyroscope L3G4200D	x1
3-axis Accelerometer LIS331DLH	x1

### COMPUTING UNITS

Intel NUC12WSHi7 (Core i7-1260P)	4.7 GHz
Robotis OpenCR1.0 ( <i>current</i> )	216MHz
NUbots NUsense ( <i>alt</i> )	TBA

THE UNIVERSITY OF NEWCASTLE  
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NUGUS Robot.