



TINKERKIT BRACCIO ROBOT

Code: T050000

Unlock the unlimited possibilities of robotics with BRACCIO!



OVERVIEW:

You can assemble your BRACCIO in a multitude of ways. Because it is designed for versatility, the BRACCIO can also support various objects on the end of the arm. The included BRACCIO shield allows you to hook up the servos directly to your Arduino board.



TECHNICAL SPECIFICATIONS:

Power

It is recommended to power the board via the jack connection with a regulated 5 VDC @ 5000 mA power supply provided in the box.

There is an on-board voltage regulator for higher voltages that protect the Braccio shield.

NOTE: The protection doesn't work for the Arduino Yun if you put the bridge between Vin and 5V on the Arm Robot Shield V1 (greater version of are called Braccio shield and has a power switch on the top of the shield)

Physical Characteristics

- Plastic Parts x 21
- Screws x 63
- Flat Washer x 16
- Hexagon Nut x 7
- Springs x 2
- Servo Motors: 2 x SR 311, 4 x SR 431
- Arduino compatible Shield x 1
- Power Supply 5V, 5A x 1
- Phillips Screwdriver x 1
- Double Hexagon Box Wrench x 1
- Spiral Cable Protection Wrap x 1

Fully assembled Braccio Kit:

Weight 792 g

Maximum operating distance range 80 cm

Maximum Height 52 cm

Base Width 14 cm

Gripper Width 90 mm

Cable length 40 cm

Rotation Range 180°

Connector Type J (aka Futaba)
Spring RC SR311

Control Signal PWM Analog

Torque @ 4.8V: 43.13 oz-in (3.1 kg-cm)
@ 6.0V: 52.86 oz-in (3.8 kg-cm)

Weight 0.95 oz (27.0 g)

Dimensions 1.23×0.65×1.13 in (31.3×16.5×28.6 mm)

Speed @ 4.8V: 0.14 sec/60°
@ 6.0V: 0.12 sec/60°

Rotation Support Dual Bearings

Gear Material Metal

Rotation Range 180°

Connector Type J (aka Futaba)