Servo Kit 180°/360°

SKU:A076-B&A076-C

Description

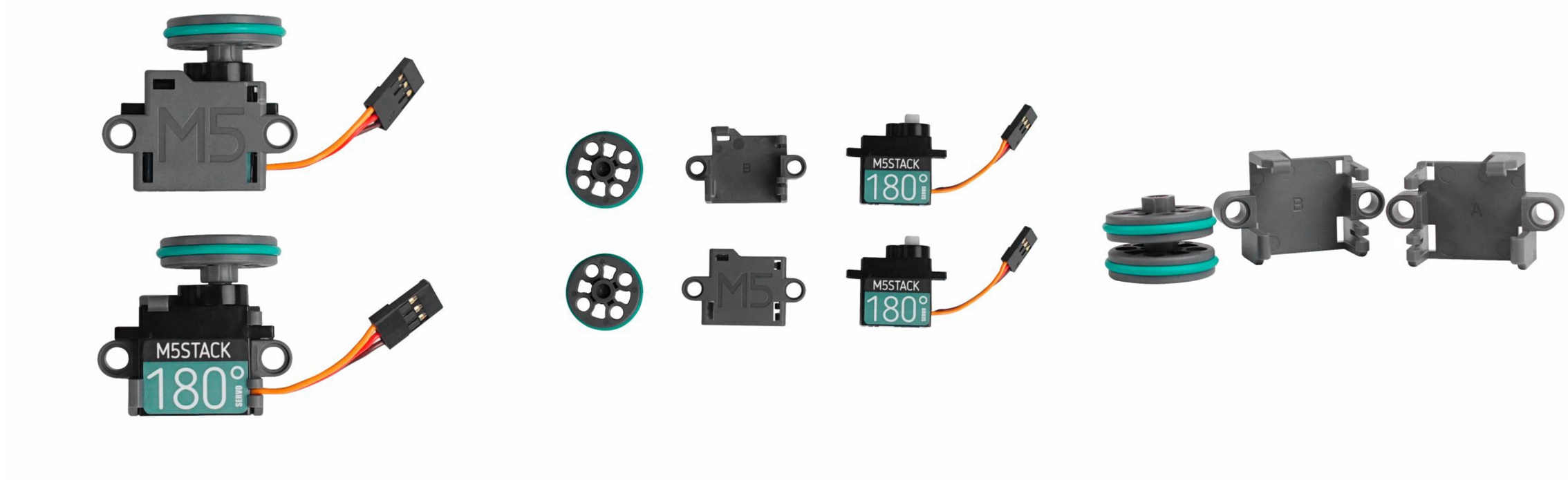
Servo Kit 180°/360° is a 9g servo with LEGO compatible fixed bracket.There are 180 ° or 360 ° specifications.The independent design of the fixed bracket can be easily disassembled, and the product is completely designed according to the LEGO standard unit,so that you can easily combine with LEGO series products, play unlimited creativity.The rudder plate is redesigned, it can be directly connected with LEGO parts. No matter 180 ° or 360 ° servo, it is very easy for beginners to use.Even if you don't know how to program, you can easily drive it with UIFlow.There is no need to use a dedicated servo-drive board with feedback control and a complicated gearbox. Any common pwm driver or a microcontroller can easily control this servo. Compared to driving a stepper motor, a servo is much simpler to use. You can use it to do interesting small projects requiring angular movement and/or control.If you feel that the cable is not long enough, you can purchase the servo extension cable to extend it. The yellow wire is for the control signal, brown is for the ground, and the red wire is for the Vcc (voltage).180° servo can only control angle.360° servo can't control the angle, but you can adjust the speed and direction by controlling PWM.When using the servo, pay attention to the power supply current and voltage to prevent burnout.

Product Features

- Micro servo system
- LEGO compatible
- Easy to control
- Support for Arduino、UIFlow

Include

- 2x SG90 Servo 180° or 360° optional
- 2x GROVE2SERVO adapter
- 2x Elastic
- 2x Fixed base of servo
- 2x Special steering wheel
- 2x Axle connector
- 4x Conncetor peg with friction
- 1x Frame 5x7-module
- 2x Servo accessories package
- 2x M2*4mm self tapping screw
- 2x Extension wire 30CM(only 180° servo contains)



Specification

Resources	Parameter
Gear material	Metal motor teeth, plastic gearbox

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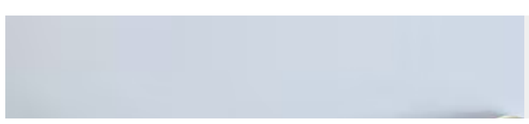
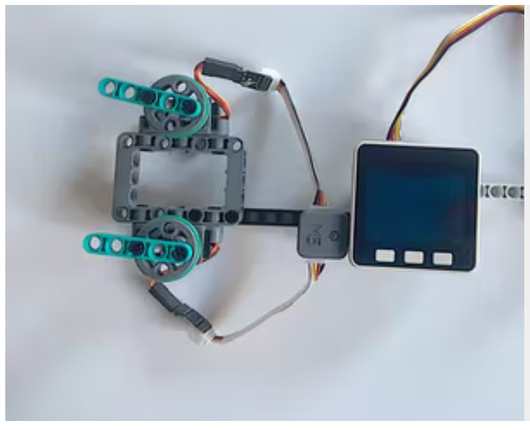
PWM	50Hz/0.5~2.5MS
Servo weight	9g
Locked rotor current	750mA
No-load current	60mA
Torque	1.6kg•cm/4.8V;1.8kg•cm/6.0V
180° Servo speed	0.1sec/60°/4.8V;0.09sec/60°/6.0v
dead zone	8μm
Spline	20Teeth
Voltage	4.8~6.0V
Spline	20Teeth
Cable length	3cm
Net weight	44g
Gross weight	49g
Product Size	40* 12 *36mm
Package Size	73* 45 *23mm

Learn



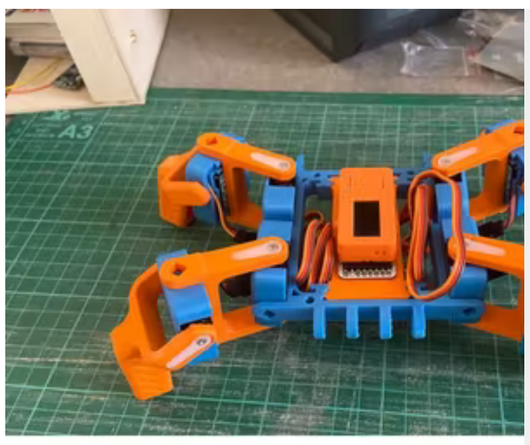


2 Servos, 1 Grove Port

Control two servos using only one grove port on M5Stack products.

M5Stack Christmas Santa detector

Do you want to know when Santa Claus arrives without scaring the reindeer? It also works with the Wise Men!



M5.A.R.S Quad

S.M.A.R.S Quad using M5Stack electronic components.

Example

Arduino

- Connecting the 360° will control the speed and direction, and connecting the 180° servo will control the angle （360° servo duty cycle 0~7.075 clockwise rotation ,greater than 7.625 counterclockwise rotation,the relationship between rotation speed and duty cycle is nearly linear)
  - Click here to get code.

UIFlow

- This is an example of a simulated radar,you need a ToF Unit.
  - Click here to get code.

Video

FAQ

COMMON

Q1: Consultation for after-sales problems of products

Describe the problems encountered in detail. Screenshots of the programs involved or files can be added as attachments and sent to M5Stack's official after-sales email

support@m5stack.com

Q2: Code Resources, Cases, User Communication

M5Stack related resource links: Official Github

https://github.com/m5stack

https://m5stack.hackster.io/

https://community.m5stack.com/