

Precautions for DIY Robotic Arm

Note: When the robot arm is gripping objects, it is necessary to control the angle of the gripper. Improper angle setting may cause the servo to stall and burn.

Here is a table of gripper angles, which records the angle that the servo needs to be set to for every 0.5 cm object.

You can adjust the angle you set when gripping according to this table to avoid stalling the servo.



Object length (unit: cm)	Servo angle (unit: degree)
0	180
0.5	176
1.0	168
1.5	160
2.0	152
2.5	143
3.0	134
3.5	125
4.0	115
4.5	105
5.0	95
5.5	80
6.0	57
6.0-6.4	0-57

For example, the visual recognition cube we provide has a length, width and height of 3 cm each, so you can clamp it by setting the servo angle to 134°. Do not set an angle that is too large.

