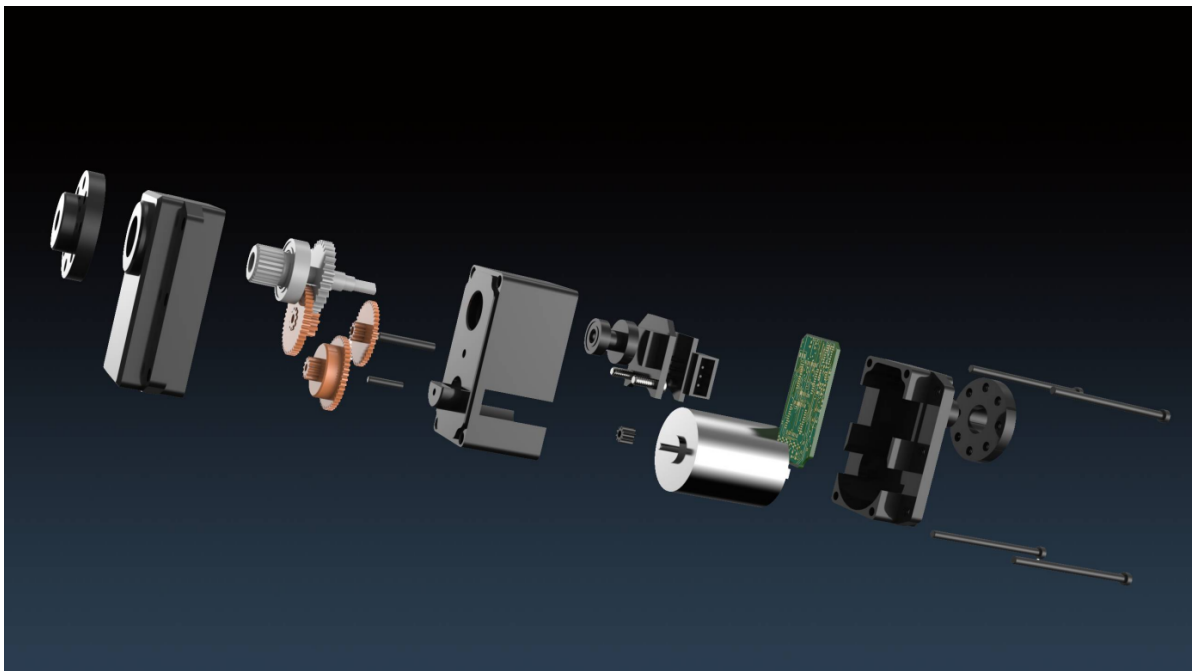


# Servo introduction

DOGZILLA's modular servo joint consists of a DC hollow cup motor, a reduction gear set, a 12-bit magnetic encoder and an integrated control circuit. It has its own closed-loop control and planning algorithm, high-speed bus communication, 360-degree angle controllable, supports speed, position, current, temperature feedback and control parameter adjustment functions, and provides high-performance servo drives for robots.

Customized joints provide pid parameter adjustment to optimize joint impedance characteristics (compliance), based on the basic kinematic gait planning, Combining the consideration of the center of gravity and the feedback from the IMU, as well as the requirements of the upper-level control instructions, real-time adjustments can be made. At the same time, a large speed ratio and high-efficiency reducer are used to ensure the flexibility and improve the load-to-weight ratio.



Servo parameters	
Model	Bus serial servo
Output torque	4.5KG•CM
Rotating speed (S/60°)	0.1 S/60°
Precision	0.01
Working voltage range	4.8V ~ 7.4V
Working temperature	-20°C ~ +60°C
Angle range	0~360°
Weight	20±1g
Motor type	Hollow cup

