

# WP90 Servo

## Overview

WP90 Servo is a mini and compact servo motor with a sleek and durable design. It operates reliably within a working voltage range. It offers fast response speed and high torque output, with a stall torque of up to 2.3kg.cm, enabling precise and powerful motion control. In terms of control, the servo motor utilizes a pulse width modulation (PWM) control signal and provides 180-degree angle control. The control system employs a digital comparator to ensure accurate angle control and stable performance. Additionally, the servo motor is equipped with electronic protection function, automatically outputting protective torque in case of a stall, effectively safeguarding the servo motor and the system's safe operation. It is suitable for applications in small robots, remote-controlled models, pan-tilt systems, cameras, and other control fields.

## Specification

- Power input: 4.8~6V
- Mechanical limited angle: no limited
- Rotation angle: 180°
- Gear type: high-precision metal gear
- Idling speed: 0.125sec/60°(80RPM)@4.8V ~0.1sec/60°(100RPM)@6V
- No-load current: 120mA@4.8V~150mA@6V
- Locked-rotor current: 1A
- Locked-rotor torque: 1.89kg.cm(4.8V)~2.3kg.cm(6V)
- Dimensions: 23.2×12.1×25.5mm
- Weight: 13.0± 1g

## Features

- Equipped with a digital comparator control system, it achieves precise angle control and positioning, ensuring accurate and stable movement.
- Built-in metal gears and ball bearings provide durability and reliability, suitable for prolonged and frequent operations.
- It is suitable for various fields, including robotics, model making, aviation modeling, smart homes, and more.

- High flexibility with a 180-degree rotation angle and adjustable control parameters to accommodate various needs.
- The compact and sleek design enhances the aesthetic appeal of the product.