

WYOO

Professional Servo Solutions

Servo Product Catalog

Complete Range: 1.5g Micro to 150kg Heavy-Duty

Shenzhen Wan Yuan Transmission Co., Ltd.

Room 301, Building 3, Baiwangda Health Technology Industrial Park,
Longgang District, Shenzhen, China



Company Profile

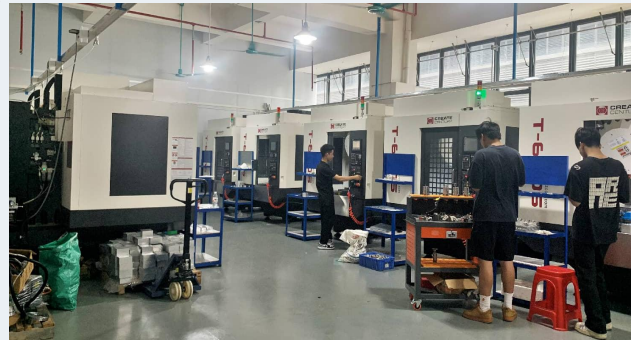
Shenzhen Wan Yuan Transmission Co., Ltd. (WYOO) is a high-tech manufacturer specializing in R&D, design, and precision manufacturing of micro to heavy-duty digital servos.

Product Portfolio: Over 30 standard models spanning from 1.5g micro servos up to 150kg ultra-torque industrial actuators.

Applications: Widely used in RC models, robotics, smart home automation, UAVs, medical equipment, and industrial positioning.

Customization: Complete OEM/ODM capabilities including custom torque, voltage, gear trains, metal housings, and communication protocols.

CNC Machining Center



- Taiken T600 Drilling & Milling CNC Center
- Ultra-high precision gear hobbing & finishing
- Multi-material processing: Plastic / Al / Cu / Steel
- Strict tolerance control for zero-backlash drive
- Comprehensive QC with automated gear inspection

Injection Molding Workshop



- High-precision Haitian injection machinery
- In-house tooling & mold design capability
- Durable engineering plastic composite shells
- Custom color housings and laser engraving
- Scalable mass production output

Product Lineup Overview

1.5g Micro → 150kg Ultra-Torque Series

Micro Series	Standard Series	Mid-Torque Series	High-Torque Series	Ultra-Torque Series
WEIGHT RANGE 1.5g – 5g	WEIGHT RANGE 8g – 17g	WEIGHT RANGE 3kg – 12kg	WEIGHT RANGE 20kg – 50kg	WEIGHT RANGE 60kg – 150kg
TORQUE RATING 0.1 – 1.0 kg•cm	TORQUE RATING 1.5 – 2.3 kg•cm	TORQUE RATING 4.0 – 15 kg•cm	TORQUE RATING 12 – 23 kg•cm	TORQUE RATING 25 – 150+ kg•cm
KEY MODELS 1.5g / 2g / 3.7g 4.3g / 5g	KEY MODELS SG90 / SG92R MG90S / 8g / 17g	KEY MODELS 3kg / 9kg 12kg Standard	KEY MODELS 20kg / 25kg / 30kg 35kg / 40kg / 50kg	KEY MODELS 60kg / 70kg / 80kg 100kg / 120kg / 150kg
TYPICAL USES RC Aircraft Smart Home Micro Plane	TYPICAL USES Fixed-wing Plane Small Humanoid Educational Kit	TYPICAL USES 1:10 RC Vehicles Robot Arm RC Boats	TYPICAL USES Heavy Crawler Robotic Arm Industrial Gripper	TYPICAL USES Industrial Automation Large UAV / Robotics Heavy Machinery

Note: All models default to 180° rotation. Custom operating angle (90°-360°), PWM pulse range, and wire length available upon request.

Micro Series • 0.12kg-1kg

Ultra-Lightweight Digital Servos

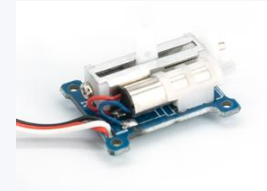
1.5g Linear Micro Servo

Specs: L / R Version
Voltage: 3.7V - 6.0V
Stall Torque: 0.12 - 0.24 kg·cm
Weight: 1.5g - 2.0g
Gear: Plastic
Motor: Coreless
Applications: Indoor Micro Plane / 3D Aircraft



2g Micro Servo

Specs: 180° Standard
Voltage: 4.0V - 6.0V
Stall Torque: 0.10 kg·cm
Weight: 2.5g
Gear: Plastic
Motor: Coreless
Applications: Fixed-wing Plane / Model Toy



S037B Micro Servo (Black)

Specs: 180° Standard
Voltage: 4.0V - 6.0V
Stall Torque: 0.40 kg·cm
Weight: 4.2g
Gear: Plastic
Motor: **Coreless**
Applications: Micro Plane / Smart Home Switch



S037B Micro Servo (Blue)

Specs: 180° Standard
Voltage: 4.0V - 6.0V
Stall Torque: 0.60 kg·cm
Weight: 4.3g
Gear: **Full Aluminum**
Motor: Coreless
Applications: Mini Drone / High-Torque Micro



S037B Precision Servo

Specs: 180° Standard
Voltage: 4.0V - 6.0V
Stall Torque: 0.50 - 0.60 kg·cm
Weight: 4.3g - 4.5g
Gear: **Plastic**
Motor: Coreless
Applications: RC Helicopter / Robotic Finger



S005 Standard Micro Servo

Specs: 180° Standard
Voltage: 4.0V - 6.0V
Stall Torque: 1.00 kg·cm
Weight: 5.5g
Gear: Plastic
Motor: Coreless
Applications: STEAM Robot / Smart Switch / Drone



Standard Series • 1.8kg-2.3kg

High-Reliability Servos for RC & Robotics

S008 Digital Servo

Spec: 180°
Voltage: 4.8V - 6.0V
Spline: 21T
Stall Torque: 1.8 kg·cm
Weight: 8.0g
Gear: Plastic
Motor: Iron Core
Applications: Fixed-wing Plane / 450 Helicopter



S008C Brass Gear Servo

Spec: 180°
Voltage: 4.8V - 6.0V
Spline: Custom
Stall Torque: 2.2 kg·cm
Weight: 9.4g
Gear: Full Brass
Motor: Iron Core
Applications: High-Load Micro Plane / RC Boat



SG92R Digital Servo

Spec: 180°
Voltage: 4.8V - 6.0V
Spline: 21T
Stall Torque: 1.5 kg·cm
Weight: 10.0g
Gear: Plastic
Motor: Iron Core
Applications: Foam Aircraft / Small Robotic Arm



SG90 Micro Servo

Spec: 180°
Voltage: 4.8V - 6.0V
Spline: 21T
Stall Torque: 1.6 kg·cm
Weight: 12.0g
Gear: Plastic
Motor: Iron Core
Applications: KT Board Plane / Maker Projects



MG90S Metal Gear Servo

Spec: 180°
Voltage: 4.8V - 6.0V
Spline: 21T
Stall Torque: 1.8 - 2.3 kg·cm
Weight: 14.0g
Gear: Plastic & Metal
Motor: Iron Core
Applications: 4WD Robot / Small Bipedal Robot



S017 Standard Servo

Spec: 180°
Voltage: 4.8V - 6.0V
Spline: 25T
Stall Torque: 2.3 kg·cm
Weight: 20.0g
Gear: Plastic
Motor: Iron Core
Applications: 1:16 RC Car / Robot Arm Joint



Mid-Torque Series • 4kg-13kg

Durable Workhorse Servos for RC & Automation

S3003 Servo

- Spec: 180° Standard
- Voltage : 4.8V - 7.0V
- Stall Torque: 4.0 kg·cm
- Weight: 43g
- Gear: Plastic
- Motor: Core
- Spline: 25T

Target Applications:
RC Cars / Boats / Robot
Joints



S550C Servo

- Spec: 180° Standard
- Voltage: 5.0V - 7.4V
- Stall Torque: 8.0 kg·cm
- Weight: 55g
- Gear: Plastic + Metal
- Motor: Core
- Spline: 25T

Target Applications:
1:10 & 1:8 scale buggies / RC
crawlers / Robots, RC boats



S550C Servo

- Spec: 180° Standard
- Voltage: 5.0V - 7.4V
- Stall Torque: 10.0 - 12.0 kg·cm
- Weight: 48g - 65g
- Gear: Full Steel / Brass
- Motor: Core/ Coreless
- Spline: 25T

Target Applications:
Industrial Robot Arm /
Heavy RC



MG996R Servo

- Spec: 180° Standard
- Voltage: 3.0V - 7.2V
- Stall Torque: 5.0 - 13.0 kg·cm
- Weight: 48g - 65g
- Gear: Plastic / Steel / Brass
- Motor: Core
- Spline: 25T
- Size: 40.8*20*38mm

Target Applications:
Industrial Robot Arm / Heavy
RC / Fixed-wing aircraft



High-Torque Series • 10kg-25kg

Heavy-Duty Servos for High-Load Mechanical Arms

Model	Angle Range	Voltage	Stall Torque	Housing Material	Gear & Motor	Picture
DS20-BG/SGM	180°	5.0V - 7.4V	10 kg·cm Magnetic encoder 20kg.cm	Plastic	Full Brass / Iron Core	
DS25-BG Servo	180°	5.0V - 7.4V	12 kg·cm	Plastic	Full Steel / Iron Core	
DS30-SG Servo	180°	5.0V - 7.4V	15 kg·cm	Plastic	Full Steel / Iron Core	
DS35-SG Servo	180°	5.0V - 7.4V	16 kg·cm	Plastic	Full Steel / Iron Core	
DS40-SG Servo	180°	5.0V - 7.4V	18 kg·cm	Plastic	Full Steel / Iron Core	
DS45-SGP Servo	180°	5.0V - 7.4V	20 kg·cm	Plastic	Full Steel / Iron Core	
DS45-SGM Servo	180°	5.0V - 7.4V	20 - 25 kg·cm	Plastic	Full Steel / Coreless Motor	

Features: Magnetic encoder option available for 360° continuous rotation or high-precision angle feedback control.

Ultra-Torque Series • 25kg – 150kg

Industrial-Grade Heavy Duty Actuators

Model	Angle Range	Voltage	Stall Torque	Housing Material	Gear & Motor	Picture
CM50-SGM Servo	180°	5.0V - 7.4V	25 kg·cm	Metal	Full Steel / Coreless	
CM60-SGM Servo	180°	5.0V - 7.4V	30 kg·cm	Metal	Full Steel / Brushless Motor	
BL70-SGM Servo	180°	8.4V - 12.6V	80 kg·cm	Metal	Full Steel / Iron Core	
H100-SGP Servo	180°	8.4V - 12.6V	100 kg·cm	Plastic	Full Steel / Iron Core	
H120-SGP Servo	180°	8.4V - 12.6V	120 kg·cm	Plastic	Full Steel / Iron Core	
H150-SGP Servo	180°	8.4V - 12.6V	150 kg·cm	Plastic	Full Steel / Brushless Motor	

Industrial Applications: Large Scale Robotic Arms • Automation Testing Lines • Heavy AGV / UGVs • Precision Valve Control

Application Fields

Where WYOO Precision Servos Excel

Aircraft & Drones

Fixed-wing Planes • Helicopters • Multi-rotors • Indoor 3D Aerobatic Models



Robotics & Arms

Humanoid Robots • Multi-DOF Robot Arms • Mechanical Grippers • Biped Walkers

Smart Home & IoT

Smart Lock Motors • Automated Switches • Curtain Actuators • Valve Controls

Industrial Automation

Testing Equipment • Automated Assembly Lines • AGV Steering • Valve Control

Full OEM / ODM Service Scope

- ✓ Custom Operating Angle — 90°, 180°, 270°, 360° continuous or custom ranges
- ✓ Custom Voltage Input — From 3.7V micro batteries up to 12.6V industrial power
- ✓ Custom Gear Materials — Engineering Plastic, Aluminum, Brass, Stainless Steel
- ✓ Custom Motor Selection — Iron Core, High-Performance Coreless, or Brushless Motors
- ✓ Custom Housing Design — Plastic injection colors, full CNC aluminum, laser etching
- ✓ Wire & Connector Options — JST, JR, Futaba, Molex, waterproof connectors & custom cable length
- ✓ Control Protocols — Standard PWM (500-2500μs), RS485, CAN bus, TTL Serial

Get in Touch

Shenzhen Wan Yuan Transmission Co., Ltd.

Address:

Room 301, Building 3, Baiwangda Health
Technology Industrial Park, Longgang District,
Shenzhen, China

Email: sales06@szwyoo.com

Phone: +86 189 0231 0182

Website: www.szwyoo.com

Welcoming global partners & OEM orders!

WYOO

Professional Servo Solutions

Shenzhen Wan Yuan Transmission Co., Ltd.

Room 301, Building 3, Baiwangda Health Technology Industrial Park, Longgang District, Shenzhen, China

Thank You for Your Trust • Customization Always Supported