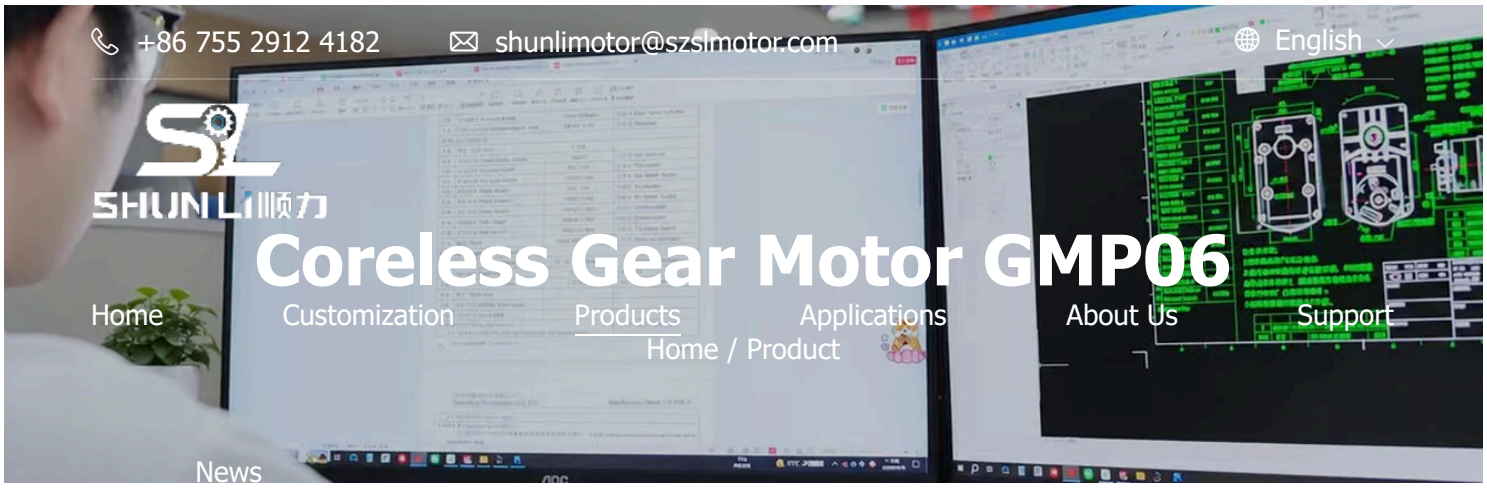


Coreless Gear Motor GMP06

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PRODUCT CATEGORIES

- Brushed Gear Motor
- Brushless Gear Motor
- Coreless Gear Motor
- AC Shaded
- Smart Lock Motor

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Coreless Gear Motor GMP06

Main Applications

Smart Agriculture & Gardening

Miniature sensor adjustment, lightweight valve actuation, compact dosing/seed-control mechanisms and small precision actuators.
Focus: Validate system-level dust/moisture protection, start-up resistance, vibration, temperature and duty cycle.

Automotive Electronics

Small precision adjustment, optical/sensor actuation, compact cabin mechanisms and other low-load micro actuators requiring a coaxial package.
Focus: Automotive use requires project-specific temperature, vibration, durability and qualification testing b base sp n.

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Smart Home

Compact locks, shutters, blinds, personal-care devices, micro valves and miniature opening/closing mechanisms.

Focus: Balance speed, stall margin, current draw, noise, output-interface fit and cycle life in the actual product.

Medical Equipment

Portable diagnostic devices, micro pumps/valves, handheld instruments and compact motion modules where small size and low noise matter.

Focus: Medical suitability depends on device risk level and customer validation; verify noise, temperature rise, life and consistency.

AI Robots

Micro grippers, sensor modules, small joints, head/eye mechanisms and other light-load precision actuators.

Focus: Evaluate backlash, output-interface stiffness, reversing impact, stall risk and repeated start-st

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Industrial Automation

Optical adjustment, micro dosing, small inspection tools, miniature fixtures and low-load positioning mechanisms.

Focus: Separate continuous, starting and peak torque requirements and validate the real cycle profile.

Commercial / Office Equipment

Card/receipt handling, miniature shutters, lock modules, compact dispensing and small opening/closing mechanisms.

Focus: Evaluate jam conditions, noise, cycle life and recovery logic instead of simply oversizing the motor.

Custom Micro-Drive Applications

Non-standard mechanisms where the 6 mm package or output interface must be adapted to a customer structure.

Focus: Provide mechanism drawing, voltage, target speed, lo duty cycl

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and annual demand for evaluation.

FAQ

Q1. What applications are best suited to the Coreless Gear Motor?

The Coreless Gear Motor is best suited to miniature mechanisms where installation space is extremely limited and compact coaxial reduction is needed. Typical use cases include micro grippers, sensor adjustment, compact lock/valve modules, precision instruments and other light-load actuators.

Q2. What are the confirmed electrical parameters for the reference model?

For SLM-P0609-110-DZ, the source confirms DC 6 V rated voltage, 60 mA maximum no-load current, 550 ±10% RPM no-load speed, 400 mA stalling current, 200 gf·cm (0.2 kgf·cm) stalling torque, starting voltage below 1.5 V, operating noise below 50 dB(A), -20 to 65 °C operating temperature a gear ratio.

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Q3. What are the rated load, rated current and rated speed?

The source specification marks all three items as TBD. They should be determined and frozen during project validation; this page does not estimate them.

Q4. How should stall risk be handled in the final product?

Use current limiting or current detection, action timeout, position/end-stop logic and appropriate mechanical protection. The 400 mA stalling current is a protection reference, not a recommended continuous operating point.

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Product Overview

The GMP06 is a φ6 mm coreless planetary gear motor that combines a coreless DC motor with a precision planetary gearbox. It delivers fa e, smooth low-vibration operation, and high efficiency in a

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extremely compact size, making it an ideal drive solution for medical devices, precision instruments, optical equipment, smart locks, and micro actuation applications.

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Model Information

Item	Specification
Product Name	6 mm Planetary Gear Motor
Product Family	GMP06
Reference Model	SLM-P0609-110-DZ
Gear Type	Planetary Gearbox
Rated Voltage	DC 6 V
Gear Ratio	110:1

Main Parameters

Technical Data

Parameter	Specification	Engineering Note
Rated Voltage	DC 6 V	Reference operating voltage
No-Load Current	60 mA MAX	No-load electrical reference

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No-Load Speed	550 ±10% RPM	Reference gearbox output speed
Stalling Current	400 mA	Include in driver/protection margin
Stalling Torque	200 gf·cm (0.2 kgf·cm)	Stall reference; not continuous rating
Starting Voltage	<1.5 V	Reference start-up threshold
Operating Noise	<50 dB(A)	Verify inside the complete product
Operating Temperature	-20 to 65 °C	Source specification range
Gear Ratio	110:1	Reference configuration
Rated Load	TBD in source	Not estimated
Rated Current	TBD in source	Not estimated
Rated Speed	TBD in source	Not estimated

Technical Data

Dimension	Value / Note

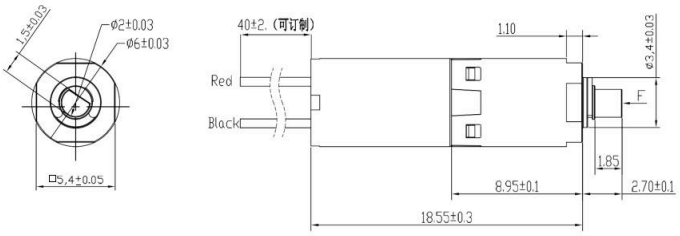
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Motor / gearbox outside diameter	Ø6 ±0.03 mm
Reference main-body length	18.55 ±0.3 mm
Gearbox section length	8.95 ±0.1 mm
Output-end extension	2.70 ±0.1 mm
Lead wire length	40 ±2 mm; customizable
Output installation position / style	Customizable according to customer requirements

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Dimension Drawing



Main Applications

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Industrial Automation

Industrial valves, dampers, gates, low-speed rotary platforms, adjustment mechanisms, and

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Customization Range

- Output Installation Interface
- The source specification explicitly states that the output installation position, size and style can be customized according to customer requirements.
- Lead Wire
- The reference drawing shows 40 ±2 mm lead wires and marks the wire length as customizable. Connector/terminal requirements should be supplied by drawing or sample.
- Performance Matching
- Voltage, target output speed, load profile and duty cycle can be evaluated around the customer mechanism. Final rated load/current/speed must be confirmed through an approved project specification.
- Noise & Reliability
- Project validation can cover noise, temperature, start-stop cycles, reversing, stall events and interface durability according to the customer's actual test conditions.
- Feedback / Control Options

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If position or speed feedback is required, feasibility should be evaluated against the available installation space and control architecture.

FAQ

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Q1: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

Yes. Provide the product structure, space, load, and motion requirements, and our engineering team can assist with parameter conversion and solution evaluation.

Q2: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

Q3: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

Q4: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

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Enable Customized Solutions to Be Implemented Faster

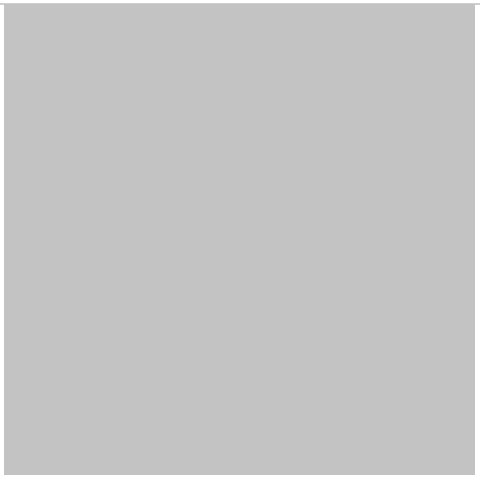
Whether you're in the product concept, prototype development, or mass production phase, Shunli Motors can help you find the right micro geared motor drive solution based on your specific application needs.

Submit your product requirements now and get selection advice from our engineers.

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Submit Customization Requests

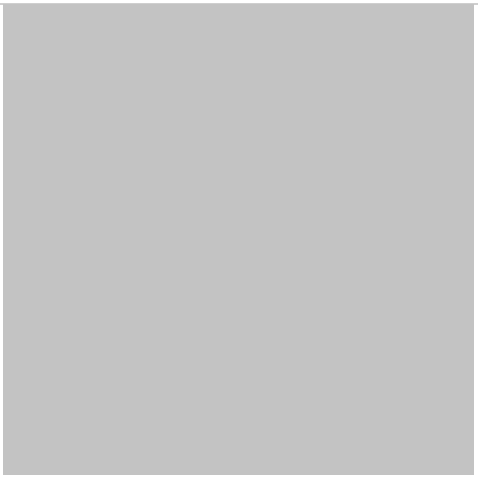
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