AC Shaded Pole Gear Motor GM70C

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PRODUCT CATEGORIES

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

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AC Shaded Pole Gear Motor GM70C

Main Applications

Kitchen & Food Equipment

BBQ rotisserie drives, mechanisms, meat choppers, western kitchen equipment, restaurant equipment, and other fixed-AC low-speed transmission mechanisms.

Focus: Suitable for fixed-speed, cost-sensitive designs. Confirm load, temperature rise, grease condition, and continuous operating time in the complete machine.

Commercial & Vending Equipment

Vending machines, equipment, achines, dispensing

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mechanisms, and other [illegible] powered low-speed drives.

Focus: Verify restart performance, jam/stall conditions, long-term operation, ambient temperature, and thermal protection under the actual duty cycle.

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Air Treatment & Appliance Equipment

Air cleaners, ventilation-related mechanisms, auxiliary fan drives, and other appliance mechanisms requiring stable low-speed output from fixed AC power.

Focus: Noise, temperature rise, fan loading, bearing configuration, and enclosure ventilation should be validated in the finished product.

Agricultural & General Equipment

Agricultural equipment, [illegible]nts, simple rotating mechanisms,

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and other light- to
mediu
machines with
available AC power.
Focus: For dusty,
humid, or outdoor-
adjacent installations,
system-level
protection against
moisture, dust,
corrosion, and
insulation
degradation is
required.

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Custom OEM Equipment

OEM mechanisms requiring a 70 × 120 mm-class gearbox face, selectable motor length, customized output shaft, or project-specific voltage, speed, and torque matching.
Focus: Final suitability should be confirmed from the actual load, installation space, duty cycle, ambient conditions, and required service life.

FAQ

Q1. Can an AC shaded pole motor run

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continuously for long periods?

Yes, continuous operation can be designed for, but the actual operating load, winding temperature rise, ambient temperature, heat dissipation, bearing or sleeve life, and lubrication conditions all need to be evaluated. Continuous-duty and thermal testing should therefore be carried out in the complete product, and thermal or overload protection may be required depending on the application.

Q2. How can noise and vibration be reduced in an AC shaded pole gear motor?

Noise and vibration should be optimized at both the motor and gearbox levels. Key factors include the magnetic design ing, rotor balance, bearing or

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sleeve condition, gear accura backlash, gear material, lubrication, and the mounting structure. The fan blade, product housing, and mounting bracket can also introduce resonance. For this reason, noise should be evaluated in the product, including start-up noise, running noise, gear-meshing noise, and structural resonance, rather than relying only on no-load motor noise.

Q3. How can reliability be improved under stall, overload, or voltage fluctuation conditions?

The motor should be evaluated under actual operating conditions, including stall current, winding temperature rise, starting capability, rt performance. For

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equipment that may experi
blocked fan blades, or prolonged overload, thermal protection, fuses, overload protection, or control-system protection should be considered. Testing should also cover low-voltage starting, high-voltage
stalled operation, power-loss restart, and restart after long periods of inactivity to ensure that changes in supply voltage or frequency do not push speed, torque, or temperature beyond the acceptable operating range.

Q4: What information should I provide for a faster quotation and technical evaluation?

Please provide the operating voltage, torque, and target
complete parameters are not

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available, an existing motor [redacted] prototype, or mechanism drawing can be used for initial evaluation.

Q5： How do I place an order with Shunli Motor?

Please send us your application requirements or [redacted]. Our engineering team will develop a suitable solution, confirm the technical details, and provide samples for evaluation. Once the samples are approved, we will arrange mass production. Shipping methods can be selected based on your delivery requirements.

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Product Overview

The GM70C is an AC shaded pole gear motor providing stable low-speed operation with a simple, reliable structure. It suits BBQ equipment, ovens, grills, and commercial kitchen equipment.

Model Information

Model	Motor Type	Product Category
GM70C Series	AC Shaded Pole Motor	Shaded Pole Gear Motor

Main Parameters

Technical Data

Parameter	Specification	Notes
Working Voltage	AC100V–240V	50Hz–60Hz
Gear Ratio	1:100–1:900	
Output Speed	3–30 RPM	
Output Power	10–100 W	

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Output Torque	0.5–10 N·m
Insulation Grade	Class E / Class B / Class F / Class H
Safety Certification	CE / UL / cUL / ETL etc.
Operating Temperature / Humidity	-30°C– RH 85% Max.
Service Life	10,000–20,000 Hours

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Technical Data

Model	A (mm)	B (mm)	C (mm)
GM70C-6016#	16	68.5	88.5
GM70C-6020#	20	72.5	92.5
GM70C-6025#	25	77.5	97.5
GM70C-6030#	30	82.5	102.5
GM70C-6040#	40		11

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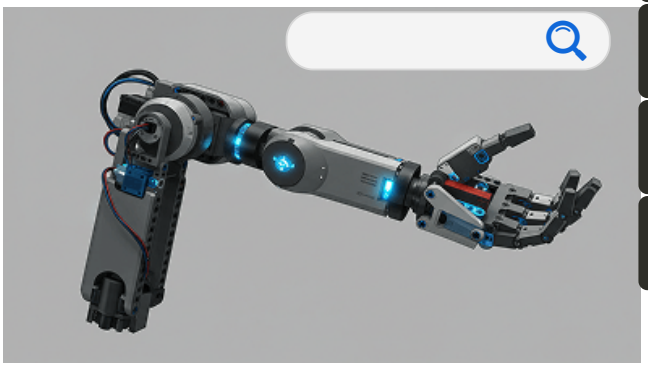
GM70C-6050#	50	1[illegible]2.5

Dimension Drawing

Contact us for the dimension drawing of this model.

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Main Applications



Industrial Automation

Industrial valves, dampers, gates, low-speed rotary platforms, adjustment mechanisms, and compact actuators requiring right-angle transmission.

Customization Range

- Electrical Configuration

  AC100V–240V, 50Hz–60Hz; winding configuration, rotation direction, lead wire, and terminal options can be evaluated according to the project.

- Performance Matching

  Gear ratio, output sp[illegible]t torque, and motor power can be selected within

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the series range according to the actual load and duty cycle.

- **Mechanical Interface**

Output shaft size and geometry can be customized; motor length is available in multiple GM70C variants, and an oil-bearing configuration is specified for matching.

- **Thermal & Protection**

Validate temperature rise, stall/overload, restart, continuous operating time, and heat dissipation in the complete product; thermal protectio re required.

- **Noise & Reliability**

Optimize magnetic noise, fan/bearing noise, gear meshing, lubrication, mounting resonance, and batch consistency according to the complete equipment.

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FAQ

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 p are best suited to the GM58EM DC

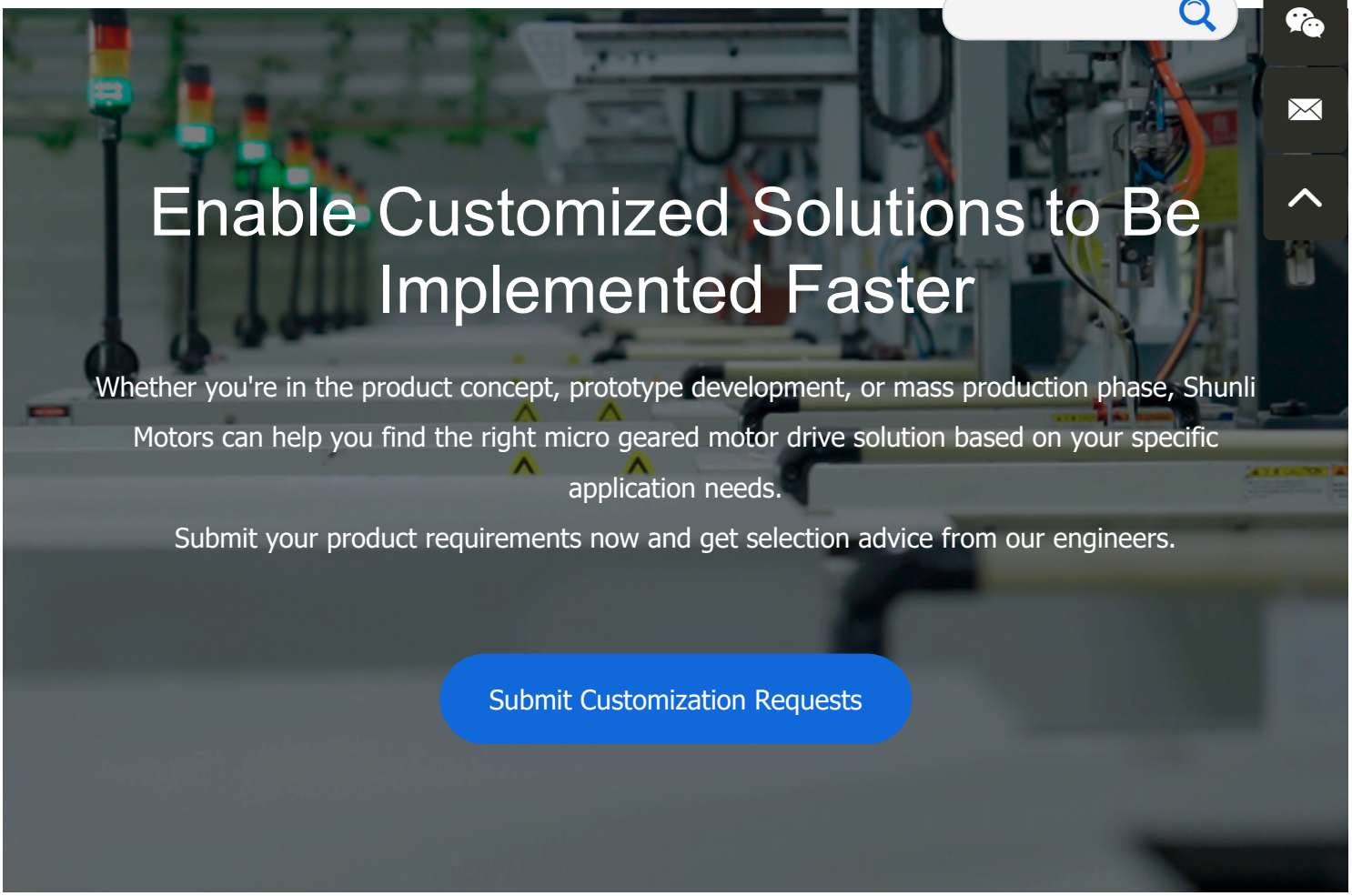
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Worm Gear Motor?

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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