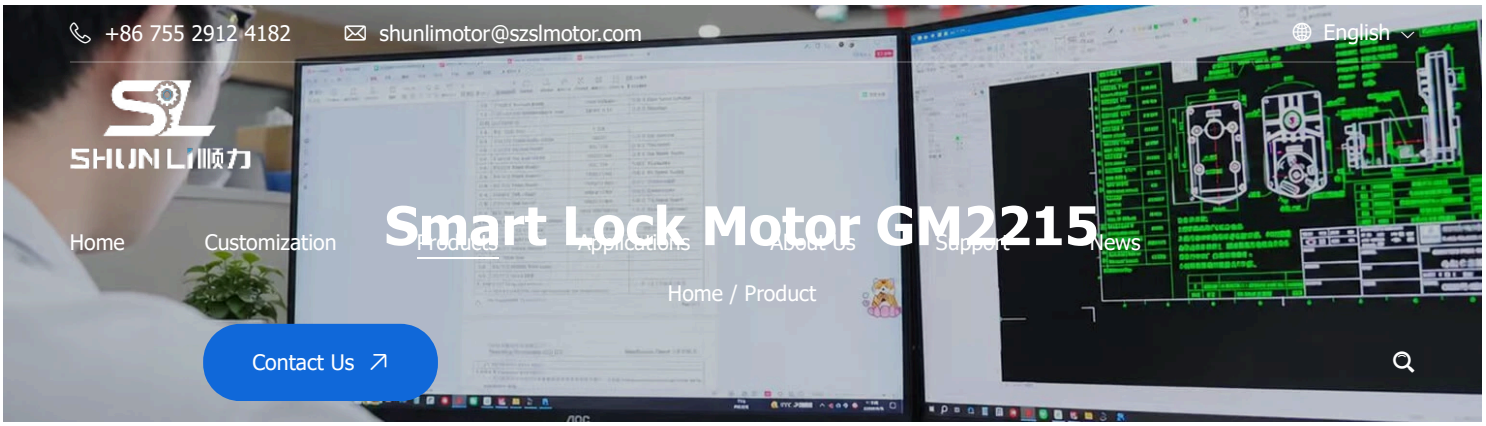


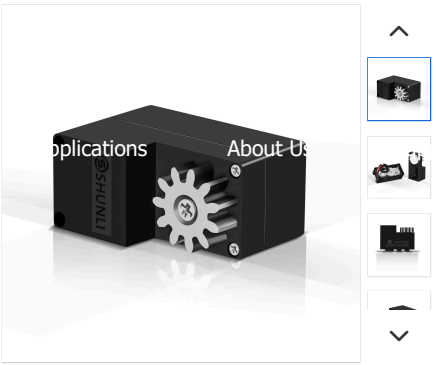
Smart Lock Motor GM2215

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PRODUCT CATEGORIES

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

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Smart Lock Motor GM2215

Main Applications

Smart Door Locks

Drive for latch / bolt transmission mechanisms requiring compact packaging, low-voltage operation and repeatable opening/closing motion.

Electronic Cabinet & Locker Locks

Suitable for compact electromechanical locking mechanisms where installation space and controlled actuation are important.

Hotel / Access-Control Lock Mechanisms

Can be evaluated for lock-body actuation requiring repeated cycles and consistent low-voltage drive performance.

Customized Locking Mechanisms

For non-standard lock bodies, the motor, ratio, pinion/interface, lead wire and terminal can be evaluated against the customer's mechanism and test standard.

FAQ

Q1: What information is required to select a Smart Lock Motor?

Provide the lock-body structure and motion, operating and low-battery voltage, target output speed or unlock time, normal and maximum torque, installation space, output interface drawing, daily cycle count, target life, noise requirement and annual demand. If parameters are incomplete, a lock body, prototype or existing motor sample can be used for initial matching.

Q2: How should low-noise performance be evaluated?

Low noise depends on motor speed, gear material and accuracy, reduction stages, backlash, lubrication, assembly consistency, lock-body resonance and control timing. Verify start-up sound, running sound, end-position impact and reverse sound in the complete lock; no-load motor noise alone is not sufficient.

Q3: Can t Lock Motor maintain unlocking capability at

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low battery?

The motor should be evaluated at the project's minimum battery voltage, with realistic bolt friction, door pressure, temperature and repeated operation. Check start-up current, unlock time and torque margin instead of relying only on nominal-voltage no-load data.

Q4: How can lifetime and mass-production consistency be controlled?

Run life tests with realistic load, forward/reverse action, low battery and abnormal friction. During production, control critical dimensions, no-load speed, loaded current, torque, noise, gear material, lubrication, winding and assembly-process changes.

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Product Overview

Compact DC Gearmotor for Smart Lock & Electronic Lock Mechanisms The GM2215 smart lock motor is a compact 4.5 VDC geared drive designed for space-constrained locking mechanisms that require reliable low-speed torque, controlled current, and repeatable opening/closing action. Its 15 mm-wide compact housing and integrated output pinion support embedded lock-body layouts.

Model Information

Model	Motor Type	Product Category
GM2215	DC Brushed Gearmotor	Smart Lock / Electronic Lock Motor

Main Parameters

Technical Data

Rated Voltage	4.5 VDC
Gear Ratio (source sheet)	1:199 / 1:241 / 1:265*
Gearbox Efficiency	45%–60%
Max. Rated Gearbox Torque	1.5–2

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Max. Gearbox Breakdown Torque	4–5 kgf·cm
Housing Width	15 mm
Overall Housing Height	31.5 mm
Housing Depth	21.8 mm

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Technical Data

Gearmotor Model	Ratio	Voltage	No-Load Speed	No-Load Current	Rated Speed	Rated Current
GM2215FMN20-199K	1:199	4.5 VDC	52 RPM	≤ 50 mA	40 RPM	≤ 120 mA
GM2215FMN20-241K	1:241	4.5 VDC	58 RPM	≤ 65 mA	50 RPM	
GM2215FMN20-241K**	1:241	4.5 VDC	68 RPM	≤ 75 mA	56 RPM	≤ 140 mA

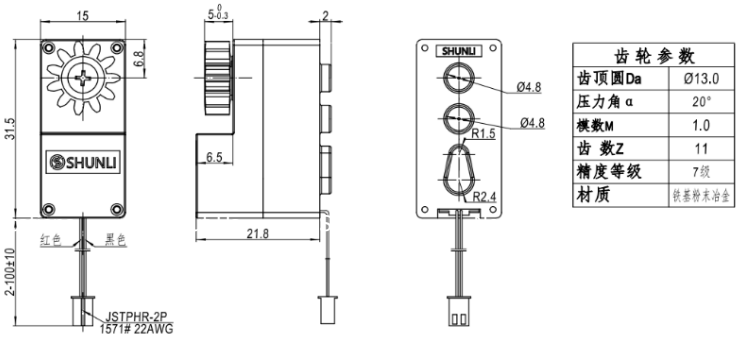
Technical Data

Housing dimensions shown	31.5 × 15 × 21.8 mm
External output pinion diameter (Da)	Ø13.0 mm
Pressure angle (α)	20°
Module (M)	1.0
Number of teeth (Z)	11
Gear accuracy grade	Grade 7
Pinion material	Iron-based powder metallurgy
Lead / connector shown	Red & black leads; JST PHR-2P; 1571# 22AWG

Dimension Drawing

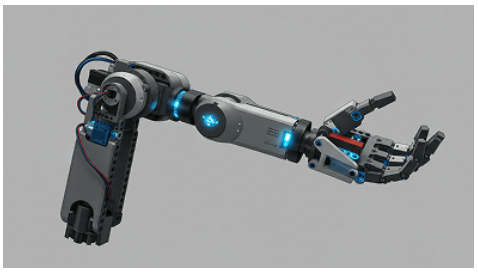
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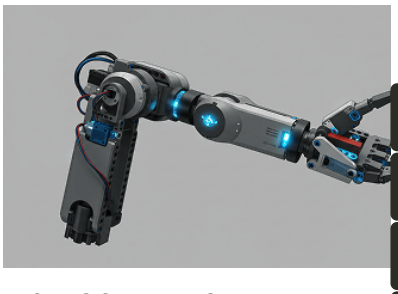
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Main Applications



Industrial Automation

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



Industrial Automation

Industrial valves, dampers, gates, low-sp rotary platforms, adjustment mechanisms

Customization Range

- Electrical Configuration
- Working voltage / winding configuration, rotation direction, lead wire length and terminal options.
- Performance Matching
- Gear ratio, target output speed, rated load point, current limit and torque margin based on the real lock mechanism.
- Mechanical Interface
- Output pinion / shaft interface, mounting features and connection to the customer's lock-body transmission.
- Noise & Reliability
- Gear meshing, backlash, lubrication, motor operating point, assembly consistency and complete-lock resonance optimization.
- Control / Feedback Integration
- Hall sensor, encoder or other feedback functions can be evaluated when required by the project; availability depends on the final structure and specification.

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FAQ

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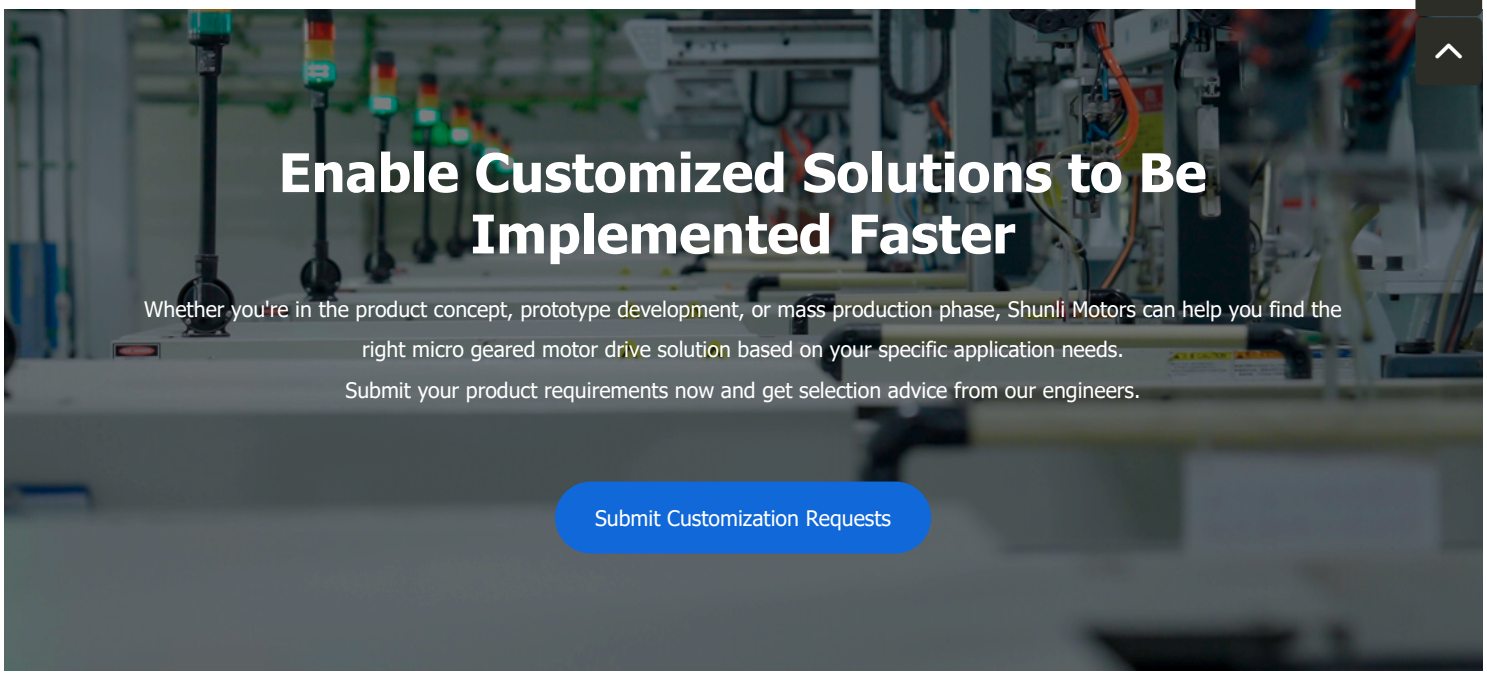
Q1: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

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?

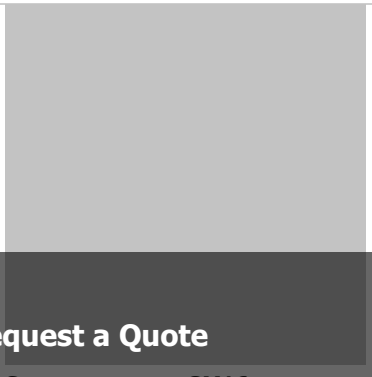


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Whether you're in the product concept, prototype development, or mass production phase, Shunli Motors can help you find the right micro geared motor drive solution based on your specific application needs.
Submit your product requirements now and get selection advice from our engineers.

Submit Customization Requests

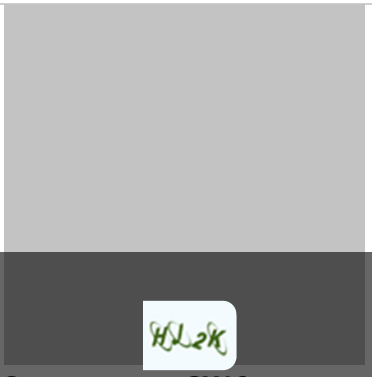
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