

# Which motors do world-class companies use? All of them selected **SPG**



GE, Whirlpool, and Electrolux, the top 3 home appliance companies in the USA, use SPG motors. SPG, the world's best quality motor manufacturer, manufactures a wide range of products from home appliances to industrial goods making it the standard for motors everywhere.

## INDUSTRIAL GEARED MOTOR

▶MEGA Series



WORM GEARHEAD  
(SOLID SHAFT, HOLLOW SHAFT)



SHADED POLE INDUCTION  
GEARED MOTOR



## INDUSTRIAL MOTOR / GEARED MOTOR



STANDARD AC  
GEARED MOTOR



CONDENSER RUN INDUCTION  
GEARED MOTOR



## PLANETARY GEARHEADS

▶SPIH / SPLH Series ▶SHA Series



SPEED CONTROL  
MOTOR(CONTROLLER)



BRAKE PACK



## STANDARD BLDC GEARED MOTOR



DC GEARED MOTOR



ACCESSORIES



## SPG, a leaping company set to be the world standard for motor manufacturing

SPG does not just specialize in manufacturing motors that will become a core part of automation devices, but it also produces quality motors for refrigerators, automatic doors, copy machines, and medical instruments for the top 4 home appliance companies in the USA: GE, Whirlpool, Electrolux, and Mabe.

### SPG R&D Center

Continuous innovations in technology by the Technology R&D center to create SPG motors as a leader in the world.

The Technology R&D center, consisting of about 100 researchers, is the mecca for motor technology as it owns various designs related to AC MOTOR, BLDC MOTOR, and standard GEARED MOTOR, and it possesses a total of 40 patents, various utility models, and differing registrations of designs, such as NT marks and BLDC motor control circuits. These improvements in technology have become the base that is to be known as a "World Class Product."



### SPG Quality Assurance System

Quality innovation in management activities for the best quality assurance certification system

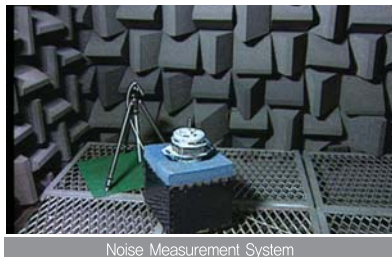
SPG's quality assurance system is equipped to be a high competitor as a specialized motor manufacturer by acquiring the ISO9001 system and the Single PPM. SPG is also set to be a high competitor overseas as it runs certification systems like UL CSA, TUV, DEMKO, and CCC, with different instruments including noise measurement rooms, high humidity and temperature rooms, and reliable labs. It also consists of excellent testers for new products such as 3-D measurement, a projector, a heat impact tester, and a salty water spray tester, all of which enables SPG to have the highest quality assurance system through strict inspection from the warehouse to delivery.



Reliability System



3D Measurement System



Noise Measurement System



Gear Tester



Quality Management System

SPG Motor, with advancements in technological capability over the last 30 years, produces various products necessary for various applications, as its products have been proved as the worlds best in terms of quality and performance.



**PLANETARY GEARHEADS**

- Compact Size and Lightweight Design
- High Precision
- High Stiffness
- High Efficiency
- Simple Mounting for Various Servo Motors



**INDUSTRIAL MOTOR**

- Compact Size
- High Efficiency
- High Reliability
- Low Noise



**BLDC GEARED MOTOR**

- Factory Automation Equipment, Conveyor, etc
- Realize High Power X-Tor
- Excellent Speed Stability
- Constant Torque
- Low Noise



**SHADED POLE GEARED MOTOR**

- Home Appliance
- OA Machine and Advertisement
- Competitive Technology and Quality
- Export-Centric Products



**STANDARD GEARED MOTOR**

- Industrial & Home Appliances
- OA Machines
- Medical Devices
- Various product lines depending on rotational direction



**CAPACITOR RUN GEARED MOTOR**

- Copy Machine
- Automatic Door
- Juicer
- Customized Tailor Machine



**DC GEARED MOTOR**

- Vending Machine
- Coin Exchange Machine
- Printer
- X-ray Machine
- Portable, High Speed Control



**BLDC MOTOR**

- Copy machine
- Home Appliance
- FA Devices
- Air Cleaner



**AC MOTOR**

- Air Conditioner
- Electronic Range
- Refrigerator and Pump
- Washing Machine
- Dish Washer



**SPG Certification**



APR. 2002 NT MARK



OCT. 2003 CCC MARK



Certificate for world class products

## ◆ MOTOR

### P Series

#### Basic Model

##### Foot Mount

PM Type

▶ Output range : 3phase 0.2~3.7kW



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##### Flange Mount

PE Type

▶ Output range : 3phase 0.2~3.7kW



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## ◆ Pararell Shaft Geared Motor

### PA Series

#### Basic Model

#### Brake Model

##### Foot Mount

PAL Type

▶ Output range : 3phase 0.2~2.2kW

▶ Rated reduction gear ratio : 1/5~1/200



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##### Flange Mount

PAF Type

▶ Output range : 3phase 0.2~2.2kW

▶ Rated reduction gear ratio : 1/5~1/200



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##### Small Flange

PAK Type

▶ Output range : 3phase 0.2~2.2kW

▶ Rated reduction gear ratio : 1/5~1/200



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## ◆ Right Angle Geared Motor

### PC Series

#### Basic Model

#### Brake Model

##### Hollow Shaft

PCH Type

▶ Output range : 3phase 0.2~2.2kW

▶ Rated reduction gear ratio : 1/5~1/240



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##### Solid Shaft

PCS Type

▶ Output range : 3phase 0.2~2.2kW

▶ Rated reduction gear ratio : 1/5~1/240



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## INDUSTRIAL MOTOR

■ <b>P Series Motor</b> .....	007
▶ Motor Model Coding .....	009
▶ 3Phase Model	
▷ Foot Mount .....	011
▷ Flange Mount .....	019
▶ Single Phase Model	
▷ Flange Mount .....	027

## INDUSTRIAL GEARED MOTOR

■ <b>PA Series Geared Motor</b> .....	030
▶ PA Series Model Coding .....	032
▶ Basic Model & Brake Model .....	034
▷ Foot Mount .....	036
▷ Flange Mount .....	049
▷ Small Flange Mount .....	061
■ <b>PC Series Geared Motor</b> .....	071
▶ PC Series Model Coding .....	073
▶ Basic Model & Brake Model .....	075
▷ Hollow Shaft .....	077
▷ Solid Shaft .....	089

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