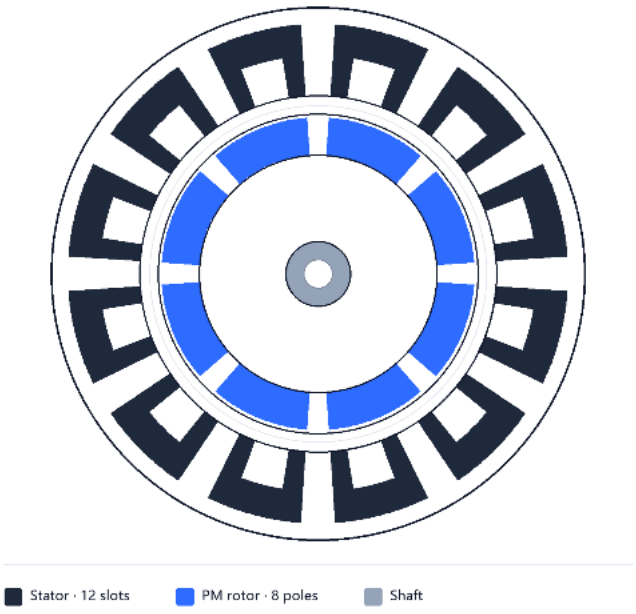
SUZHOU WANGLONG

INTELLIGENT TECHNOLOGY CO., LTD.

Vacuum Motor Series



High-speed BLDC fans · AC universal motors

OEM / ODM · Custom build · Samples from 1 pc

Product catalog 2026

01

Who we are

We build one component: the motor inside vacuum cleaners, wet & dry vacuums and floor scrubbers. Two lines — high-speed BLDC fans and AC universal motors — covering every mainstream machine from handheld cordless to canister wet & dry.

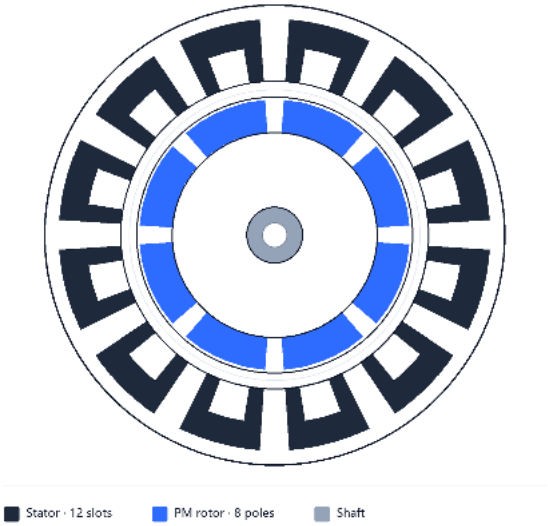
Because we make nothing else, everything we have goes into this one part: winding process, balancing, bearing selection, and the test bench that checks every single unit before it leaves.

120–1400W	14.4–240V	9patents	7–10days
Power range	Voltage range	Utility models	Sample lead time

02

High-speed BLDC fan

BLDC-65G / BLDC-85G · for cordless stick and handheld vacuums



Two frame sizes, three voltage steps, one design goal: maximum suction per gram of motor. Digitally commutated, so speed holds under load and run time is longer than a brushed motor of the same power.

Model	Voltage	Power	Max speed	Application
BLDC-65G	14.4 / 18 / 21.6 V	120 / 160 / 240 W	65,000 rpm	Stick vacuum
BLDC-85G	14.4 / 18 / 21.6 V	120 / 160 / 240 W	65,000 rpm	Handheld / low noise

Typical values at 21.6 V. Full performance curves and dimensional drawings are supplied with each quotation.

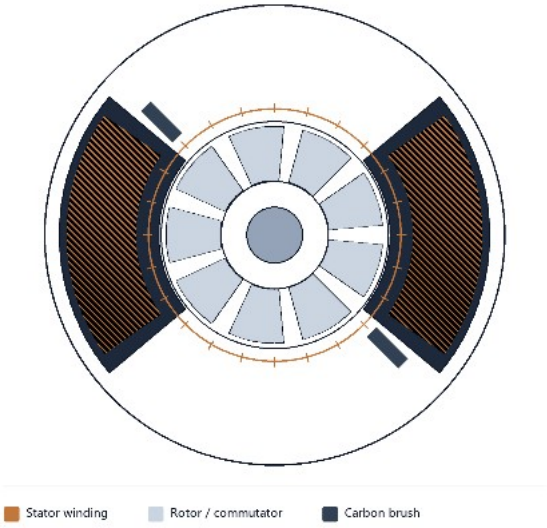
What can be customized

- Shaft length, diameter and flat
- Flange and mounting holes
- Impeller geometry and material
- Lead wire length, connector and pinout
- Speed curve and current limit
- Nameplate and packaging with your brand

03

AC universal motor

V1J-PT / V1J-PA / V1J-PE · for canister and wet & dry vacuums



One platform, three tunes. PT is built for maximum vacuum, PA for maximum airflow in wet & dry use, PE for the everyday household unit at the best cost. Same footprint, so you can switch between them without changing your housing.

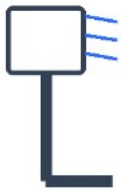
Model	Voltage	Power	Max vacuum	Max airflow	Focus
V1J-PT	100–240 V	600–1400 W	28 kPa	2.2 m³/min	Suction
V1J-PA	100–240 V	600–1400 W	26 kPa	2.4 m³/min	Airflow
V1J-PE	100–240 V	600–1400 W	25 kPa	2.1 m³/min	Value

50/60 Hz. Values are typical at rated voltage; confirm against the datasheet for your target market before design freeze.

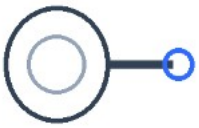
Built for the markets you sell in

- 100–240 V wide input, 50/60 Hz
- Class F insulation, thermal protection on request
- Carbon brush grade matched to your duty cycle
- CE / RoHS / UL arranged for your market, cost extra

Where our motors go



Cordless stick / handheld



Canister / wet & dry

Floor scrubber / commercial

Floor scrubber / hard floor cleaner

V3J-P is the same AC platform with insulation and sealing reworked for wet environments — splash exposure, higher humidity, and a duty cycle that runs longer than a household vacuum.

Model	Voltage	Power	Application
V3J-P	100–240 V, 50/60 Hz	550–900 W	Floor scrubber / wet pickup

Also available: motor-only supply for customers who assemble the fan stage in-house, and complete fan-and-motor assemblies for customers who prefer one part number.

05

How we work with you

From drawing to volume

Sample 1 pc minimum, 7–10 days, tested and shipped with a report

Pilot run 50–200 pcs to validate your assembly line, 15–20 days

Volume 500 pcs per model and up, 25–30 days after deposit

OEM Your drawing, your brand on nameplate and carton

Quality control

100% end-of-line test on every unit: hi-pot, insulation resistance, speed, current, vacuum, noise, vibration and temperature rise. Life test by sampling. Incoming material inspection on magnets, bearings, brushes and laminations. A 30-minute burn-in runs before final test, so anything marginal fails here and not at your line.

What we need from you to quote

- Target voltage, power and speed
- Vacuum and airflow at the nozzle, if fixed
- Annual volume and order pattern
- Shaft / flange drawing, or a sample we can measure
- Destination market, for certification

Let's talk about your next model

Send us the target spec, and we will send back a motor proposal with a sample schedule — usually within one working day.

Contact

sales@wanglongsmart.cn • +86 199 0610 7702

No. 448 Zhong'an Road, Puzhuang, Wuzhong District, Suzhou, Jiangsu, China

Suzhou Wanglong Intelligent Technology Co., Ltd.

Vacuum motors only. Since 2020.