

Surface Protection

JIE Total Drive Solutions Provider

www.jie-drives.com

Internal And External Solutions

The ideal mix of internal and external protective features to keep your JIE unit operating in all environmental conditions

- Internal protection of standard components with anti-corrosion treatment
- Multiple external surface protection options (JS1 - JS4) for a variety of ambient conditions

Standard treatment for	
All products	Rust-resistant breathers Rust prevention coatings added to all flange connection surfaces and shaft extensions Utilization of rust-proof fasteners and internal surface of housings sprayed to prevent oxidation
Anti-corrosion treatment for	
Motors	External fasteners and nameplates made of rust-proof materials Internal coating with special enamel Corrosion-resistant alloy material housing Moisture-resistant varnish impregnated windings
IP56 motors	2RS bearings utilized on both drive-end and non-drive end Additional condensation drain hole Protective coating on rotor Waterproof metal cable glands
Brakes and backstops	Rubber sealing collars fastened with clamping straps Pressure plates made of non-corrosive material
Special protection design for output shafts	
Hardening treatment of the output shaft	Special heat treatment at the oil seal shoulder of the output shaft Great for particularly demanding applications
Output shaft made of stainless steel	Premium quality shaft materials Great for particularly demanding applications

Online Support

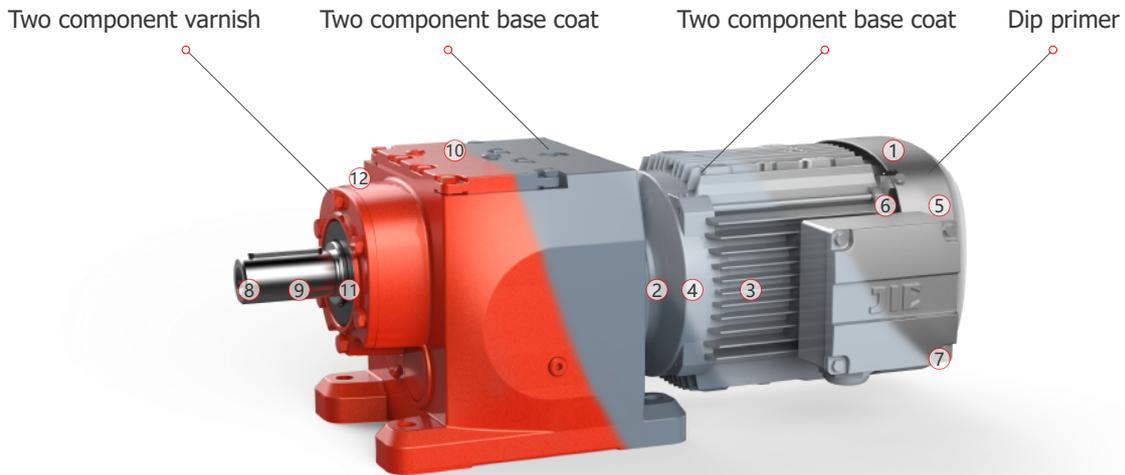
Our basic protection comes as standard on all products and can be customized to meet all your specific requirements.

By choosing optional JIE protection measures based on your application demands, you can ensure long-lasting and trouble-free operation.



Corrosion Protection

Different layers of varnish on gearmotors with JS4 coating



Two-component epoxy primer

- Excellent adhesion to steel, stainless steel, galvanized steel and aluminum etc.
- Advanced corrosion resistance
- Superior abrasion and impact resistance
- Gloss: 15-40 degree

polyurethane topcoat

- Smooth dry film
- Excellent protection performance in marine Environments
- Excellent physical property and chemical resistance
- Various color options(solid to metallic) and sheen(matte to high gloss)
- Smooth-film coating provides hydrophobic anti-condensation properties.



Brakes with pressure plate made of non-corrosive materials



RS bearing for IP56



Special interior surface coating



Special interior surface coating



Special interior surface coating



Special interior surface coating



Stainless Steel Fasteners



Output shafts made of stainless steel



Anti-Seize paste



Rustproof nameplates



Fluorine rubber oil seal



Rust resistant breather valves

* Options

Colors Standards

JIE DRIVE provides a range of standard colors as well as preferred colors that are available globally. Custom paint colors are also available to ensure perfect alignment with your company's branding and corporate design.



RAL7031
Blue Grey



RAL5010
Gentian Blue



Other options include special colors according to RAL, BS, Munsell and Pantone.

Application Standards

Surface protection	Application Standards	Ambient Conditions Sample Applications
Standard		<p>Standard C1 (Standard) For heated building interiors, clean air, offices, stores, schools, hotels, and more. Comparable to corrosion category: C1(very low)</p> <p>Sample applications Machines and systems in the automobile industry Conveyor systems in logistics areas Conveyor belts at airports</p>
JS1		<p>C2(JS1) Suitable for low atmosphere pollution, mostly rural areas (outdoor); cold space may occur in unheated buildings, warehouses, gymnasiums, etc. (indoor). Comparable to corrosion category: C2 (low).</p> <p>Sample applications Woodworking machinery</p>
JS2		<p>C3(JS2) Suitable for urban and industrial atmospheres, moderate sulfur dioxide pollution and low salinity coastal areas (outdoor); high humidity and some air pollution in production plants, such as food processing plants, laundries, distilleries, dairy factories, etc. (outdoor). Comparable to corrosion category: C3(medium)</p> <p>Sample applications Livestock breeding industry</p>
JS3		<p>C4-L(JS3), C4-H(JS3) Suitable for industrial and coastal areas with medium fog salinity (outdoor); chemical plants, swimming pools, coastal ships and shipyards, etc. (outdoor). Comparable to corrosion category: C4(high)</p> <p>Sample applications Port Cranes</p>
JS4		<p>C5-M(JS4) Suitable for industrial areas with high humidity spaces, harsh atmospheres spaces, and coastal areas with high salinity (outdoor); buildings and areas where cold and high levels of pollution persist and exist (outdoor). Comparable to corrosion category: C5(very high)</p> <p>Sample applications Chemical processing plants Beer production lines</p>

Ingress Protection

Corrosion protection	Application Standards	Ambient conditions sample applications
IP55		<p>Protection from foreign objects and dust Complete protection against foreign objects. Incomplete protection against dust. Note: the amount of dust intrusion will not affect the normal operation of the appliance.</p> <p>Resistance to immersion in sprayed water Protection against low-pressure water jets for at least 3 minutes.</p>
IP56		<p>Protection from foreign objects and dust Complete protection against foreign objects. Incomplete protection against dust. Note: the amount of dust intrusion will not affect the normal operation of the appliance.</p> <p>Protection against large waves Protection against large amounts of water spray for at least 3 minutes.</p>
IP65		<p>Protection from foreign objects and dust Complete protection against foreign objects and dust.</p> <p>Resistance to immersion in sprayed water Protection against low-pressure water jets for at least 3 minutes.</p>
IP66		<p>Protection from foreign objects and dust Complete protection against foreign objects and dust.</p> <p>Protection against large waves Protection against large amounts of water spray for at least 3 minutes.</p>

Additional Options



Condensation drain hole(DH)



X2
Reinforced winding insulation(RI)



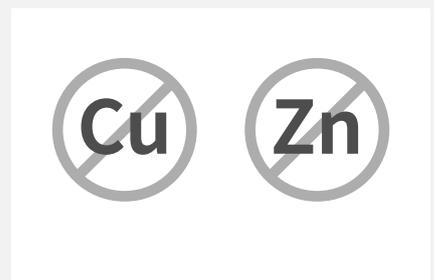
Motor Canopy / Drip Cover



Strip heater(STH)



Stainless steel gearmotors



Copper and Zinc free gearmotors

JRT GEAR UNITS & GEARMOTORS



JRTR
Helical Inline Gearmotors
Size: 09-189
Ratio: 3.37-289.74
Input power: 0.16-340HP
Output torque: 21-499633 lb-in

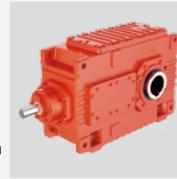


JRTF
Parallel Shaft Helical Gearmotors
Size: 29-169
Ratio: 3.77-281.71
Input power: 0.16-340HP
Output torque: 31-328333 lb-in

JRH INDUSTRIAL GEAR UNITS



JRHH
Parallel Shaft Gear Units
Size: 3-28
Ratio: 1.25-450
Input power: 5.85-14306HP
Output torque: 20341-12381600 lb-in



JRHB
Helical Bevel Gear Units
Size: 4-28
Ratio: 5-400
Input power: 3.81-6677HP
Output torque: 48642-12381600 lb-in

JRP PLANETARY GEAR UNITS



JRP
Planetary Gear Units
Size: 9-36
Ratio: 25-4000
Input power: 0.54-17597HP
Output torque: 194568-229994400 lb-in



JRP
Planetary Gear Units
Size: 01-8
Ratio: 3.08-3460
Input power: 0.03-261HP
Output torque: 8844-114972 lb-in

JRW WORM GEAR UNITS



JRSTD
IEC Worm Gear Units
Size: 25-150
Ratio: 5-100
Input power: 0.08-20HP
Output torque: 115-13716 lb-in



JRWND
NEMA Worm Gear Units
Size: 30-150
Ratio: 5-100
Input power: 0.08-20HP
Output torque: 115-13716 lb-in

JD THREE PHASE ASYNCHRONOUS MOTORS



JDC, JCS Servo Motors & Drives
Power: 0.54-10HP
Output Torque: 11-425 lb-in
Input power: 1AC 220V/3AC 380V
Communication: Pulse, EtherCAT, Profinet



JDL
Asynchronous Servo Motor
Torque: 22-1770N.m
Speed: 1200r/min-3000r/min

JC INTELLIGENT DRIVE SOLUTIONS



JC
Intelligent Drive Solutions
 Industrial Drive Solutions incl Reducers, Motors, Converters, Sensors, Internet of Things, etc.



JCMC VFD Gearmotors
Size: 175-255
Power: 1-7HP
Input Power: 3AC 380-440V
Output Frequency: 0-200Hz
Communication: ModbusRTU, Profinet, ASi

MORE OPTIONS



JRES(R, K)
Stainless Steel Helical Gearmotors
Size: 37-67
Ratio: 3.41-199.81
Input power: 0.24-10HP
Output torque: 106-8048 lb-in



JRES
Stainless Steel Worm Gearmotors
Size: 30-90
Ratio: 7.5-100
Input power: 0.08-5.4HP
Output torque: 23-4053 lb-in



JRGC
Transfer Case
Size: 0401, 1501
Ratio: 0.589, 0.659, 0.756, 0.825
Max. Output Torque(Pump): 12303 lb-in
Max. Output Torque(Working Shift) 353760 lb-in



JN
Agricultural Machinery Gear Units
Ratio: 0.364-2.33
Input Speed: 800r/min
Efficiency: ≥96%



JRTK
Helical-Bevel Gearmotors
Size: 39-189
Ratio: 3.98-197.37
Input power: 0.16-272HP
Output torque: 88-555403 lb-in



JRTS
Helical-Worm Gearmotors
Size: 39-99
Ratio: 3.97-288
Input power: 0.16-30HP
Output torque: 88-43336 lb-in



JRTW
Helical Face Gearmotor
Size: 10-30
Ratio: 6.57-75
Input power: 0.12-1.5HP
Output torque: 221-619 lb-in



JRHD
Bucket Elevator Gear Units
Size: 5-16
Ratio: 25-71
Input power: 21.8-1775HP
Output torque: 97284-1530012 lb-in



JRHO
Palm Oil Gear Units
Size: 310
Ratio: 56, 80
Input power: 144, 191HP
Output torque: 663300 lb-in



JRHA
Cooling Tower Gear Units
Size: 166
Ratio: 14
Input power: 310HP
Output torque: 185724 lb-in



JRPB
Rotary Planetary Gear Units
Size: 08-100
Ratio: 3.4-2000
Input power: 102-340HP
Output torque: 70752-884400 lb-in



JRP RV
Inline Planetary Gear Units
Ratio: 3-100
Backlash: 1-3/3-5/5-7arc-min
Torque: 53-29185 lb-in



JRP RE
Right Angle Planetary Gear Units
Ratio: 3-100
Backlash: 4-9/6-11arc-min
Torque: 106-16980 lb-in



JRWNE
Double Reduction Units
Size: 25/30-63/150
Ratio: 100-5000
Input power: 0.08-2HP
Output torque: 257-23628 lb-in



JRK, JRKB
Hypoid Gear Units
Size: 28-68
Ratio: 7.5-300
Input power: 0.1-15HP
Output torque: 708-6637 lb-in



WPA
Worm Gears
Size: 40-250
Ratio: 10-60
Input power: 0.16-45HP
Output torque: 168-24292 lb-in



JD-IEC
IEC Standard Motors
Size: 63-315
Power: 0.16-272HP
Efficiency: IE3 IE4 IE5



JD-NEMA
NEMA Standard Motors
Size: 56C-365TC
Power: 0.16-30HP
Efficiency: NEMA Premium



JD-B
Explosion-Proof Motors
Size: 80-315
Power: 0.75-272HP
Explosion-Proof Grade: Exib II BT4
Efficiency: IE3 IE4 IE5



JCI Intelligent Monitoring System
Power: AC220V, DC24V
Communication: Wifi, 4G, RS485
Items: Vibration, Temperature, Pressure, Current
Deployment: Public Cloud, Private Cloud



JCME Distributed VFDS
Size: 175-255
Power: 1-7HP
Input power: 3*AC380-440V
Output Frequency: 0-200Hz
Communication: Profinet, ModbusRTU, ASI



JCF VFDS
Size: 175-355
Power: 1-74HP
Input power: 1*AC220/3*AC400V
Communication: Profinet, EtherCAT, CANOPEN



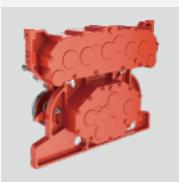
JRTH, JRTR
Front&Rear Roller Gearboxes
Size: 18-60
Ratio: 3-1800
Input power: 0.13-10HP
Output torque: 14-29136 lb-in



JRSS
Screw Lifters
Size: 35-150
Ratio: 5-40
Input power: 0.26-22HP
Lift Capacity: 1102-57431 lb-in



JRTRM
Spiral Bevel Right Angle Units
Size: 2-25
Ratio: 1-5
Input power: 0.019-455HP
Input Speed: 10-1450r/min



JPF
Front&Rear Roller Gearboxes
Size: 1706-2012
Ratio: 3.04-33.568
Input power: 2-4HP
Output torque: 974-2407 lb-in



JEC
Escalator Units
Size: 2-15, 2-25
Ratio: 24.5
Efficiency: ≥96%
Working Life: 146000h
Output torque: 31219-45547 lb-in



JIE Intelligent Drive Solutions Provider
 For more products, please contact JIE.
 (Inch)



JIE JDRIVE

No.1, JIE Road, Hangzhou,
Zhejiang, China
Tel.: +86 571 8299 1111
E-mail: jie@jie.com.cn
Web.: www.jiedrive.com

JIE USA

279 Madsen Drive Ste 101
Bloomington IL 60108
Tel.: +1 630 580 9986
E-mail: info@jie-drives.com
Web.: www.jie-drives.com

JIE CANADA

130 Rue de l'Émissaire Drummondville,
Québec J2E 1S4 Canada
Tel.: +1 819 850 9886
E-mail: info@jie-drives.com
Web.: www.jie-drives.com

JIE EURONORM

Hub van Doorneweg 8, 2171 KZ
Sassenheim, Netherlands
Tel.: +31 252 228 850
E-mail: info@jie-euronorm.com
Web.: www.jie-euronorm.com