



Surface protection

JIE Total Drive Solutions Provider

www.jie-drives.com

Internal and External Provisions

The perfect blend of internal and external provisions reliably prevents JIE Intelligent drives from damage, e.g.

- Internal treatment and protection of standard components with anti-corrosion treatment
- Top coat with surface protection treatment JS1 to JS4

Standard treatment for	
All products	Regular, detailed processing Breather valves made of rustproof material All flange and shaft connection surfaces and shaft extensions coated with rust-preventing agent All fasteners are rust-proof & the internal surface of the shell is sprayed to prevent oxidation
Anti-corrosion treatment for	
Motors	Any fastening components regularly opened for operation are made of rust-proof material nameplates Internal coating with special enamel Corrosion-resistant alloy material shell Moisture-resistant varnish impregnated windings
IP56 motors	Special bearing design (2 RS on drive-end & non-drive end) Additional condensation drain hole Stator-rotor coating protection 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	
Coating on output shaft extension	Oil seal coated with silicone Great for particularly demanding applications
Output shaft made of stainless steel	Premium quality material Great for particularly demanding applications

Online Support

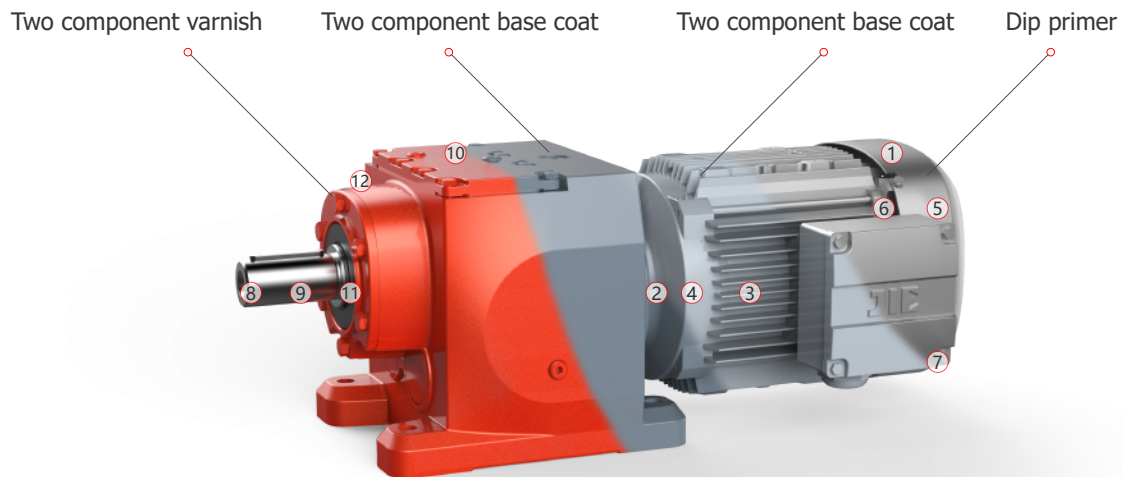
Our basic protection comes as standard on all products and can be customized to meet all your specific requirements.

By choosing the optional JIE drive protection measures customized to fit your specific needs, you can ensure a long-lasting drive when placing your order.



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
- Easy application by airless and conventional air sprayer
- Quick drying
- Gloss: 15-40 degree

Quick-drying polyurethane topcoat

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



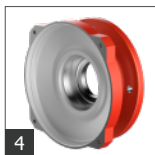
Brakes with pressure plate made of non-corrosive materials



RS bearing for IP56



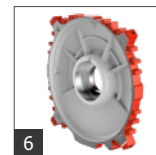
Special interior surface coating



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



Rustproof breath valves

Colors Standards

JIE DRIVE provides a consistent range of standard colors as well as preferred colors that are available globally. We also offer customized solutions that are tailored to your specific requirements, and that perfectly align with you company's branding and corporate design.



RAL7031
Blue Grey

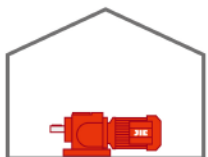
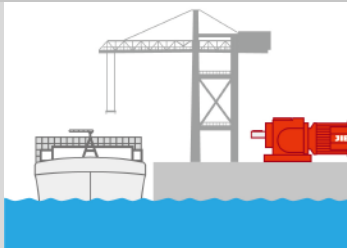
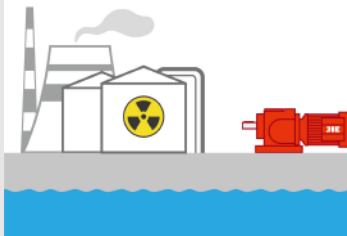


RAL5010
Gentian Blue

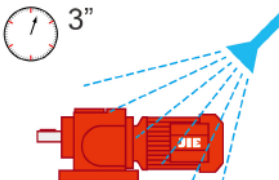
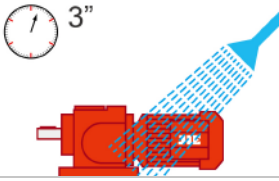
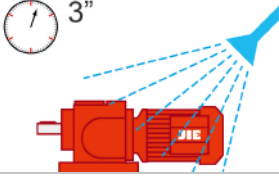
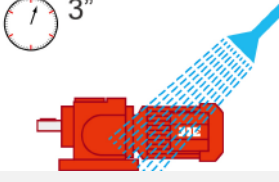


Other options include special colors according to RAL, BS, Munsell, and Pantone.

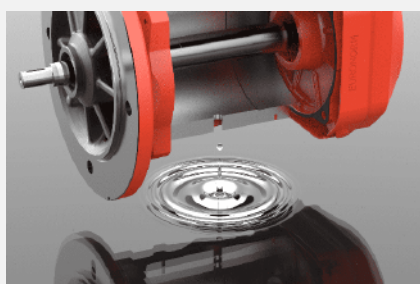
Application Standards

Surface protection	Application Standards	Ambient Conditions Sample Applications
Standard		Standard C1 (Standard) For heated building interiors, clean air, offices, stores, schools, hotels, and more. Comparable to corrosion category: C1 (very low) Sample applications Machines and systems in the automobile industry Conveyor systems in logistics areas Conveyor belts at airports
JS1		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). Sample applications Woodworking machinery
JS2		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) Sample applications Livestock breeding industry
JS3		C4-L(JS3), C4-H(JS3) Suitable for industrial and coastal areas with medium wong salinity (outdoor); chemical plants, swimming pools, coastal ships and shipyards, etc. (outdoor). Comparable to corrosion category: C4 (high) Sample applications Port Cranes
JS4		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) Sample applications Chemical processing plants Beer production lines

Degree Protection

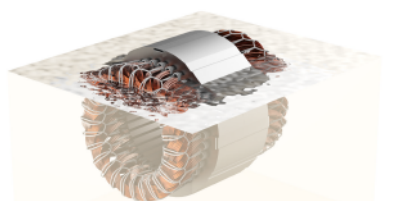
Corrosion protection	Application Standards	Ambient conditions sample applications
IP55		Protection from foreign objects and dust Complete protection against foreign objects. Incomplete protection against dust. Note: the amount of dust intrusion will not affect the normal operation of the appliance. Resistance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

Additional Options



Condensation drain hole(DH)

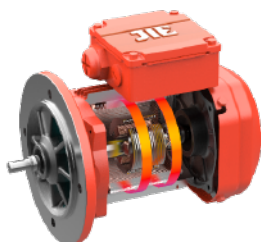
X2



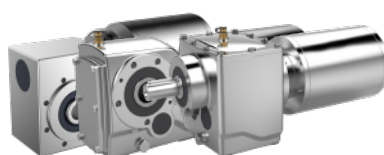
Reinforced winding insulation(RI)



C-Protection cowl(C)



Strip heater(STH)



Stainless steel gearmotors



Copper and Zinc free gearmotors



JIE USA, INC.

Add. : 493, Mission St. Carol Stream IL, 60188, USA
Tel. : +1 630 580 9986
E-mail : info@jie-drives.com
Web. : www.jie-drives.com