

## SpiralGO

### HIGH SPEED SPIRAL INSULATED DOOR

SpiralGO series high-speed spiral doors---with fast, energy saving, sealing, high efficiency, wind resistance and environmental protection, perform high reliability and practicality. Its operating speed is over 6 times than industrial section doors'.

The door laths are produced by high technology large-scale assembly line. The interior of the door lath is filled with polyurethane industrial insulation material. The design of broken-bridge can effectively block the indoor and outdoor temperature loss, which can effectively save energy. The two ends are connected by hinges, and the door laths are connected by double-sided sealing strips to ensure the sealing and at the same time can effectively resist the strong convection wind pressure.

High-speed spiral doors can prevent the invasion of outsiders and resist the weather change at the same time. It can cut off the indoor and outdoor air convection. It is used in the frequent access and is an ideal choice for industrial energy saving and consumption reduction.



## New Product 2020

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### Specifications

Applicable temp.		-35°C~+40°C
Size	Width	HSD4322 : 1400mm~5000mm
	Height	HSD4322 : 1800mm~5000mm
Speed	Opening	0.8m/s~2m/s ( depending on the door size ) , adjustable
	Closing	0.6m/s , adjustable
Performance	Thermal insulation	$K \leq 0.5 \text{ W ( m}^2 \cdot \text{K )}$ , Up to class3
	Air permeability	$0.62 \text{ m}^3 / ( \text{ m}^2 \cdot \text{h )}$ , Up to class 8
	Water tightness	$\Delta p \geq 700 \text{ pa}$ , Up to the class 6
	Wind resistance	Up to national standard level 3 ( Relative deflection under 0.5kp wind pressure $< L / 180$ )

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### Drive & Control :

<b>Power</b>	230V single phase																		
<b>Motor</b>	<p>3-phase asynchronous motor</p> <table border="1"> <tr> <td>Rated Output</td> <td>1,5 – 2,2 kW</td> </tr> <tr> <td>Duty Cycle</td> <td>S3 – 80%</td> </tr> <tr> <td>Torque</td> <td>30 - 2060 Nm</td> </tr> <tr> <td>Output Speed</td> <td>2.5 - 700 rpm</td> </tr> <tr> <td>Ratio</td> <td>2.55 - 510.07</td> </tr> <tr> <td>Frequency</td> <td>Variable speed with inverter operation</td> </tr> <tr> <td>Number of poles</td> <td>4-pole</td> </tr> <tr> <td>Protection Class</td> <td>IP55</td> </tr> <tr> <td>Mounting</td> <td>Flange mounting</td> </tr> </table>	Rated Output	1,5 – 2,2 kW	Duty Cycle	S3 – 80%	Torque	30 - 2060 Nm	Output Speed	2.5 - 700 rpm	Ratio	2.55 - 510.07	Frequency	Variable speed with inverter operation	Number of poles	4-pole	Protection Class	IP55	Mounting	Flange mounting
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<b>Positioner</b>	<p>Electronic positioning detector Multiturn</p> <p>Latest patented magnetic field technology          Isolated and high protected plastic housing IP65          Contactless measuring method          Rugged against dust, grease, moisture as well as against mechanical shock and vibrations          25 kV ESD protection operating with high speed foil doors          Big range of power supply 10...30 VDC          Minimum current consumption          Memory backup for over 10 years at typical door usage by an integrated Lithium battery          Diagnostic functions in combination with controller          Universal installation possibilities – for high speed motor shaft down to low speed single turn shafts =&gt; up to 16 Bit (65535 Ink) revolutions (multi turn) =&gt; up to 13 Bit (8192 Ink) per revolution (single turn) =&gt; High speed up to 6000 min-1          Temperature range –40 °C up to 70 °C          Standard conformity          Machine EN 12453 / EN 12978 Voltage EN 60335 EMC EN 50081 / EN 50082</p>																		
<b>Control</b>	<p>Single Phase Door Control Unit (110V-240V)</p> <p>Door Operators 1,5 / 2,2 KW (10A-12A)          100%Duty Cycle          24V Power Supply (500mA-3500mA)          IP65          CE/RoHS/WEEE/REACH certified</p> <p>Smooth starting and braking offers maximum material protection and a long product life cycle          Fast startup speeds processes and reduces waiting times          Easy installation due to extensive pre-settings for standard door systems and self-learning automatic configuration          Clearly visible diagnostic display          Model inspected safety conception          Slots for additional modules</p>																		
<b>Emergency opening</b>	In case of power failure, the control system can turn on the motor brake at any time, and can lift the door with the help of the balance system, which can effectively solve the problem that the door cannot be opened due to power failure or fault.																		

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### Safety Device :

Optical safety edge / light curtain	<p>When there is an obstacle under the door, the door remains open; when the door goes down while an object is passing through, the door will go up to the open position, and when there is no obstacle below, the door will delay descent.</p> <p>Full coverage from ground up to 2000 or 2500mm depending on door dimension.</p> <p>EN12-453 / EN 12978 certified</p>
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### Mechanical Structure :

Lifting way		Round spiral, Oval spiral
Guide rail structure	Round spiral	Double spiral guide rail
	Oval spiral	Double spiral guide rail
Guide structure	Hinge shaft	QPQ treatment on the surface can enhance the self lubrication of the shaft and increase the corrosion resistance of the shaft which is 3-5 times of that of the galvanized shaft.
	Shaft sleeve	With PEEK (polyether ether copper) material, there is no molecular change in the temperature range of 200 °C to - 60 °C. The anti-wear degree is 10 times that of copper. It has self-lubricating function and is mainly used in the medical industry.
Door structure	Door lath material	The surface is treated, and the interior is filled with polyurethane (excluding CFC) industrial thermal insulation materials. The internationally advanced bridge breaking thermal insulation treatment scheme is adopted, which meets the domestic 7-level energy-saving door and window standards, and will not damage the ozone layer.
	Door lath size	Opening width (Length ) *220mm ( Height ) *43mm ( Thickness )
	Door lath color	RAL7045 Grey, RAL9006 Silver, RAL9016 White, Aluminum natural color
Transparent window	Material	Aluminum alloy frame with double-layer polycarbonate plate, double-layer structure design
	Size	Opening width (Length ) *220mm ( Height ) *2mm
Column/Head	Material	Galvanized sheet steel
Bearing Shaft		The automatic core adjustment and double needle roller bearing are adopted. The compressive capacity of the bearing is 3 times of that of the ordinary bearing. In the process of daily application, the poor deformation of the building structure will not affect the normal operation of the door. The bearing has self-adjusting function, which can quickly respond to the eccentric core transmission without abnormal noise.
Transmission Shaft		The transmission shaft adopts the retractable spline transmission shaft, which is mostly used in the automobile transmission power, free of maintenance for life, can effectively reduce the noise and apply to the size deviation caused by the change of metal molecules caused by the temperature change.

#### - Opening Modes ( Optional ) :

Motion sensors、 Induction loops、 Remote control、 Pull-cord switch, Interlock

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