



# **GOLDWIND S48/750**

## **750kW Industrial Wind Turbine (50Hz)**

**Includes:** Tower, Nacelle, Hub, Rotor, Blades and Controller

Complete systems starting from only **\$410,000.00** - FOB



### **Technical Specifications:**

- Rated Power : 750kW
- Rotor Diameter : 50m
- Hub Height : 50m
- Type: Upwind - Stall - Aerodynamic Tip
- Start-Up-Wind Speed : 3.5m/s
- Rated Wind Speed : 14 -15m/s
- Cut-Out Wind Speed : 25m/s
- Survival Wind Speed : 70m/s
- Original Jacobs JE 48/750 design
- Life Expectancy : 20+ years



*Build under license from Jacobs GmbH Germany (now RePower AG Germany)*



**World Wide  
Shipping**



**Immediate  
Availability**



**Installation  
Services**



**Fully Warranted**



**Turnkey Solutions**



**Expert Advice**



**O&M Service**



**Spare Parts Supply**





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## The Manufacturer

Xinjiang **GOLDWIND** Science & Technology Co. Ltd. is one of the largest and fastest growing wind turbine manufacturers in the world with operations in Asia, Australia, Europe, and the Americas employing over 1,500 staff worldwide and has won market growth performance of over 100% for eight consecutive years. **GOLDWIND** ranks among the top four global wind turbine manufacturers in terms of market share in 2010.

To date, over 4,000 units of the **GOLDWIND 750kW** turbine series have been installed worldwide and as of the end of 2010, over 7,800 **GOLDWIND** turbines in total are in operation worldwide, setting a standard of excellence and reliability around the globe.

The **GOLDWIND S48/750** is built under direct manufacturing license from Jacobs GmbH Germany (now RePower AG) in one of **GOLDWIND's** seven ISO9001 Quality Controlled Turbine Assembly Plants in China.

Since the year 2008, **GOLDWIND** also operates an assembly plant in Neunkirchen, Germany where **GOLDWIND's** larger 1.5mW and 2.5mW direct drive turbines are being assembled for Western European and other Oversea markets.



## General Description

The **GOLDWIND S48/750** is a stall regulated IEC Class I wind turbine based on the Danish HAWT (horizontal axis wind turbine) design concept and operates with a three bladed 'upwind' rotor driving an asynchronous 750kW generator. The turbine is built under a direct manufacturing license from Jacobs GmbH, Germany (now **RePower AG** Germany) and its artless design makes the **GOLDWIND S48/750** one of the most reliable and robust wind turbine systems available today.

The **GOLDWIND S48/750** is a rigidly built 750kW turbine providing high yields especially at sites with low to medium wind speeds due to its low Start-Up-Wind Speed rate of only 3.5m/sec. This quality built turbine is also suitable for locations with challenging logistical conditions or space-restricted areas.

The **GOLDWIND S48/750** has full International IEC61400-1 Standard Certification for Wind Turbine Design and is certified by Germanischer Lloyd for compliance on industrial wind turbine designs.

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## **GOLDWIND S48/750**

With the **GOLDWIND S48/750's** highly competitive pricing, you will find it difficult to find a complete wind turbine system of this class with a better \$ to KW ratio anywhere in the market. High ROI (Return on Investment) can be achieved within only 7-8 years depending on wind conditions in your area.

This 'workhorse' turbine is suitable to supply electricity for factories, feeding into your local grid, low cost up-scaling, as an addition to existing wind farms or to feed back to your own business property generating a steady income for you year on year for the next 20+ years.

The key customer benefits of the **GOLDWIND S48/750** are reliability, productivity and 100% grid compatibility.

The **GOLDWIND S48/750** provides a high degree of operational availability and comes with optional warranty packages of either 1 year, 2 years or 3 years. Extended warranty packages up to 5 years as well as a '97% Guaranteed Uptime for the first 2 Years' Warranty Package is also available.

**Complete systems starting from only \$410,000.00 - FOB**

### **Technical Description**

The separated main shaft and gearbox design, gives the **GOLDWIND S48/750** a relatively light weight and makes the turbine very easy and convenient to maintain.

The **GOLDWIND S48/750** comes with a torsion ally stiff backlash-free coupling system fitted between the gearbox and the 750kW generator which gives the **GOLDWIND S48/750** a number of advantages over other conventional wind turbine designs of this class.

- It makes the GOLDWIND S48/750 a '**Single Cardanic Design**'
- Assures that **only angular or axial misalignment** can occur
- It provides extreme **high tensional stiffness** between gearbox and generator
- It gives the **GOLDWIND S48/750** a **very compact design**

The **GOLDWIND S48/750** is fitted with an Active Yawing System and in connection with its *Active Damping Control*, the system controls the turbine with extremely steady and consistent yawing movements under any given weather or wind condition.

With operation under such complex and extreme weather condition in mind, the **GOLDWIND S48/750** was designed to work well not just in low or medium wind speed locations but also under strong gusts, high wind turbulences, high and low temperatures as well as under desert, mountain or coastal areas conditions

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The inside design of the nacelle provides ample and generous space which makes movements inside the nacelle very easy and provides high convenience during any maintenance or service work. The **GOLDWIND S48/750** is also fitted with special lift equipment to lift tools or spare parts up and down the turbine for additional convenience during service or maintenance work.



The **GOLDWIND S48/750** system also includes an 'Extreme Weather Package' which consists of a Lubrication Heating System, a Force to Lubricate System, Air Cooling System as well as a Generator Heating and Cooling System.

Included in the **GOLDWIND S48/750** price package is also a sophisticated remote control enabled system allowing the operator to connect computer equipment to fully monitor and control the turbine from any chosen remote location. The remote control system is controlling safety features such as the fail-safe aerodynamic brake and two mechanical brakes safety systems as well as providing the user with an extensive menu of pre-set reports and data analysis tools. All data acquisition is running automatically in the background and can be accessed from your remote computer system at any time. The remote controlled safety system is operating completely independent from the main on board system.

### SCOPE OF SUPPLY

Description	Dimension (m)	Weight (t)	Quantity	Total(t)
<b>Nacelle</b>	6.7 x 3.1 x 2.4	23	x 1	23.00
<b>Hub</b>	2.41x 2.15x 1.57	4.5	x 1	4.50
<b>Blade</b>	2.35 x 1.44 x 24	3.4	x 3	10.20
<b>Cabinet</b>	2.05 x 0.77 x 2.14	0.8	x 1	0.80
<b>Blade tip</b>	3.5x0.984 x 0.152	0.2	x 3	0.60
<b>Tower(two sections)</b>	23.5 x 2.17 x 2.43	16.21	x 1	16.21
	22 x 2.43 x 3.2	27.65	x 1	27.65
<b>Base ring</b>	1.6 x 3.2 x 3.2	5.33	x 1	5.33



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## Additional Services

Full Turnkey Solutions for the **GOLDWIND S48/750** are available through one of **GOLDWIND's** 100% owned subsidiaries who independently operate as the technical service company for **GOLDWIND** and who are specialized in providing services such as:

- Full Turnkey Solution including O&M
- Site Selection
- Project Management
- Project Permissions & Contract Negotiations
- Project Administration and Consultation
- Wind Measurement, Consultation & Site Planning
- Site Construction
- Installation
- Commissioning
- Wind Farm O&M only
- Comprehensive worldwide Spare Parts Supply Chain
- Training of local staff for basic turbine operation and maintenance

## GOLDWIND S48/750 Wind Turbine (50Hz)

incl. Tower, Nacelle, Hub, Rotor, Blades and Controller

**Only \$410,000.00** – FOB seaport Tianjin

Extras	Unit Price	Terms
<b>1 year Warranty</b>	Starting from \$35,000 up to \$55,000 per unit/per annum	Final price subject to turbine location
<b>2 year Warranty</b>	Starting from \$60,000 up to \$100,000 per unit/for 2 yrs.	Final price subject to turbine location
<b>3 year Warranty</b>	Starting from \$85,000 up to \$145,000 per unit/for 3 yrs.	Final price subject to turbine location
<b>Installation</b>	-	Price subject to number of turbines - quoted on request
<b>Commissioning</b>	-	Price subject to number of turbines - on request
<b>O&amp;M Services</b>	Starting from \$30,000 up to \$50,000 per unit/per annum	Price subject to turbine location
<b>Spare Parts</b>	-	Prices subject to part number - quoted on request
<b>Wind Assessment &amp; Project Management</b>	-	Prices subject to size of project and on request
<b>97% Uptime Guarantee</b>	-	Price subject to length of years required - quoted on request



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**Legal Disclaimers:**

**Above technical data is subject to technical alterations, errors and omissions**

1. Wind turbine installation is highly customized according to location, set-up, seismic conditions, soil, zoning, local restrictions, and many other factors
3. This information should be used for general budgetary reasons only.
4. Pricing and availability is subject to change at any time without notice
6. Please refer to our full terms & conditions.

<http://www.mywindpowersystem.com/products/terms-and-conditions/>

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