

July 1, 2018

Company Profile

1) Company Name
RIAMWIND Co., Ltd.

2) Date Established
April 1st, 2012

3) Headquarter Office
Postal code 814-0006
3-10-19, Momochi, Sawara-ku, Fukuoka-shi, Fukuoka

4) Contact address (laboratory)
Postal code 816-8580
6-1, Kasuga-koen, Kasuga-shi, Fukuoka Prefecture
Kyushu University, GIC (Global Innovation Center) FS502
Phone number
+81 (92) 501-8578 (Tel & Fax)
<http://www.riamwind.co.jp>

5) Officer
President: Yuji Ohya
Director: Koichiro Ichimura
Director: Hideki Nishimura
Contact person: Yuji Ohya

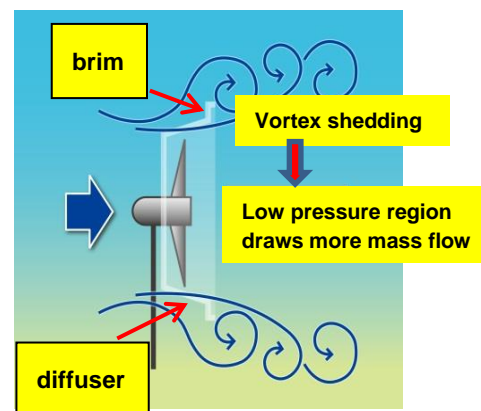
6) Policy

We provide high quality products regarding wind turbine systems using “Wind-Lens Technology”. See the upper figure for the mechanism.

Our business contributes to progress the renewable energy industry and also to the community with a wide variety of manufacturing industries.

7) Contact us

inquiry@riamwind.co.jp



Our products



1kW (RW1K-WA-03)



3kW (RW3K-WA-04)



9kW (RW9K-M-WA-04)

Highly Efficient Wind Turbine System

Concentration of Wind Energy (“Wind-lens” technology)

Two-threefold increase in output power compared to conventional wind turbines due to the concentration of wind energy.

Compact Brimmed Diffuser

Specially designed wind-lens leads to a smaller rotor diameter.

Significant reduction in wind turbine noise

The vortices generated from blade tips are considerably suppressed by the interference with the boundary layer within the diffuser shroud.

Brim-based yaw control

The brim at the exit of diffuser makes the wind turbine rotate following changes in the wind direction.

Electric Stall Regulation

In strong winds, the blade rotation speed is automatically reduced by a stall-control system.

Safety Shroud & Safety Net (Optional)

Reduce the risk of bird strikes, see page 5.

The wind turbine, rotating at a high speed, is shrouded by a structure and is also safe against damage from broken blades.

Lightning

Offer a place to attach lightning conductors.

Beauty

Windlens is quiet, safe and has a beauty that blends into the surrounding landscape.

Technical Specifications

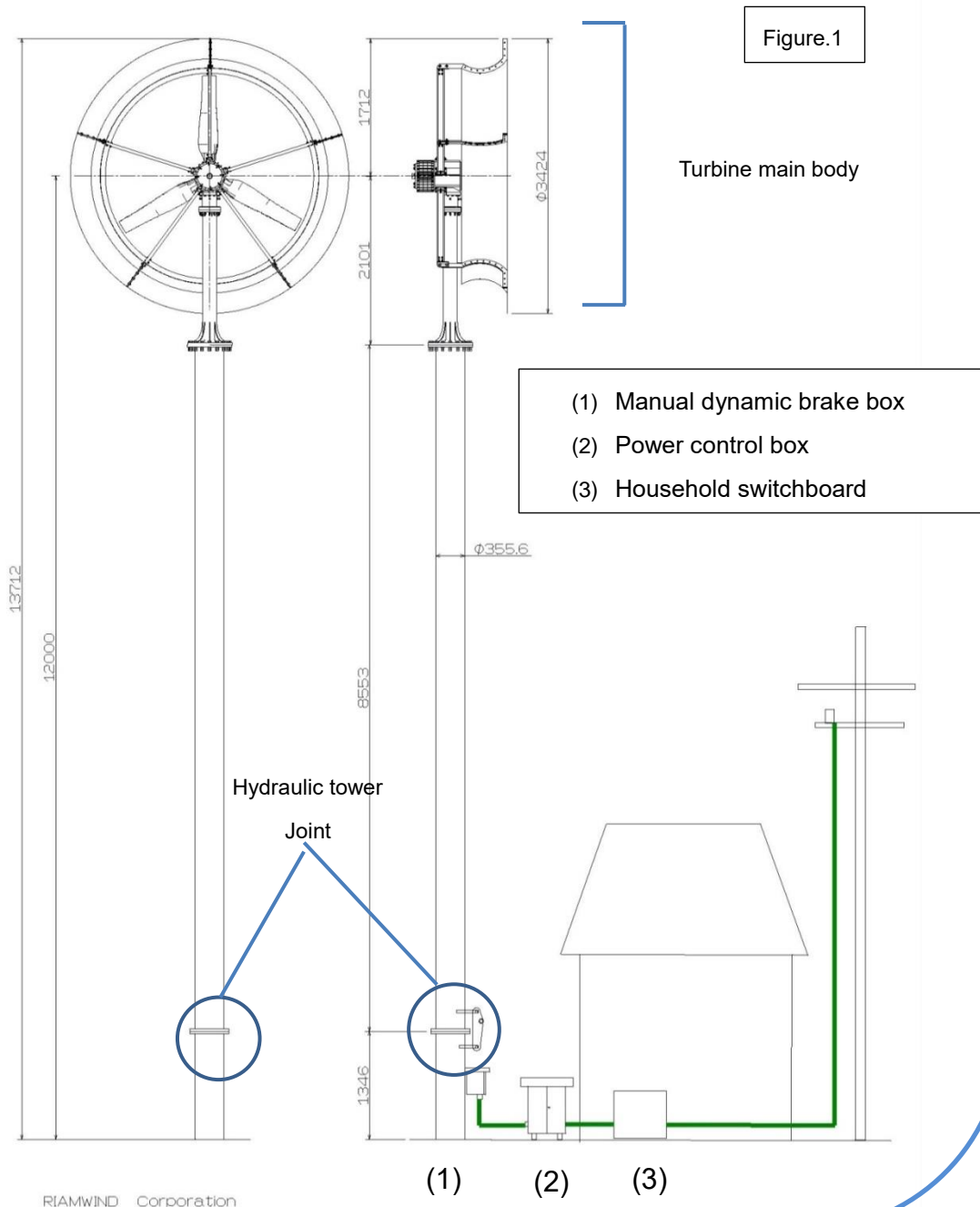
No.	Item	Description (RW3K-WA-04)	Description (RW9K-M-WA-04)
1	Rated power output	3 kW	9 kW
2	Rated wind speed	12.0m/s	12.0 m/s
3	Rotor diameter	2.78m	2.78m (for each unit)
4	Wind-lens diameter	3.64m	8.58m (whole width)
5	Type of wind turbine	Horizontal axis, downwind, shrouded turbine	Horizontal axis, downwind, shrouded turbine
6	Blades	Three blades, fixed angle, CFRP	Three blades x 3units, fixed angle, CFRP
7	Generator	Outer-rotor type, Multipolar, Coreless	Outer-rotor type, Multipolar, Coreless
8	Type of yaw system	Passive yaw system	Passive yaw system
9	Brakes	Electric braking, electric stall control	Electric braking, electric stall control
10	Cut-in wind speed	3.0 m/s	3.0 m/s
11	Cut-out wind speed	16 m/s	16 m/s
12	Extreme wind speed	52.5 m/s	52.5 m/s
13	Power grid connection output voltage and frequency	Single phase 200 V, 50 Hz / 60 Hz	Single phase 200 V, 50 Hz / 60 Hz
14	SWT class	Designed for class II	Designed for class II
15	Compliance	IEC-61400-2 (JIS-C-1400-2)	IEC-61400-2 (JIS-C-1400-2)
16	Turbine main body weight	440 kg	1290 kg
17	Tower type	Straight tower Option (Hydraulic folding tower)	Straight tower Option (Hydraulic folding tower)

Option : Tower can be laid down by hydraulic tower joint

External Appearance

Figure 1 shows a typical diagram of 3kW Wind-lens turbine. The height of the tower is 8.5 m that raises the turbine nacelle 12 m above the ground level. The tower can be laid down by hydraulic system at the joint near the bottom located 1.25 m from the base. This system allows for convenient access to the turbine for installations and occasional maintenances.

We can serve standard straight towers with low cost.



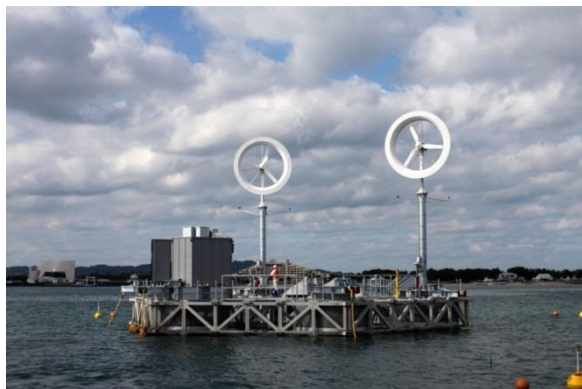
Examples



Bird-striking free



Collaborative development with NHK for Robot Camera System 2012



Hakata Bay, Fukuoka City: 18m Hexagon floating body and two 3kW Wind-Lens Turbines (WLT) and 2.0kW Solar Panels (2011.12.4)



Hibiki-nada, Kita-kyushu City: 9kW Multi-WLT system (2016.3 & 2017.3)