

Freen OÜ Launches New 15kW Horizontal Axis Small Wind Turbine

New Freen 15kW horizontal axis wind turbine is now available for order, with a lead time of 12 weeks.

IDA-VIRU, ESTONIA, March 14, 2025 /EINPresswire.com/ -- Freen OÜ, a leader in small wind turbine solutions, is proud to announce the expansion of its product portfolio with the launch of its first horizontal axis small wind turbine. This new addition complements the company's existing flagship models, the Freen-20 and Freen-6, both vertical axis wind turbines known for their durability, low noise, and urban-friendly design.

Recognizing the diverse needs of customers, Freen OÜ now introduces a horizontal axis option for those who seek higher efficiency and can accommodate taller installations. This small wind turbine is designed to maximize energy output, making it ideal for locations where wind conditions favor traditional horizontal designs.

“This is a huge step towards our vision of making wind energy accessible in places where it was previously not viable,” said Andrey Khimenkov, CEO of Freen OÜ. “By offering both vertical and horizontal axis solutions, we ensure that more customers can benefit from sustainable and reliable wind power.”

Freen-H15
Horizontal Small Wind Turbine

- High Return on Investment**
Competitive pricing combined with excellent annual energy production (AEP) ensures a cost-effective solution.
- Quiet & Efficient**
Operates at a low rotation speed, minimizing noise and ensuring a smooth energy supply.
- Low Maintenance & Easy Servicing**
Requires only a simple service check every two years, reducing operational costs.
- Advanced Safety Features**
Equipped with a fail-safe tip brake and a spring-applied electromagnetic rotor brake for reliable operation.

The Freen-H15 is built for durability and efficiency, making it an excellent choice for those looking to invest in sustainable, long-term wind energy.

The Freen-H15 is a 15 kW Class II horizontal-axis small wind turbine.
Designed for households, farms, and small businesses seeking a reliable renewable energy solution, it efficiently harnesses wind power to deliver strong energy yields.

freen – your wind, your power, your way

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Freen-H15 horizontal axis small wind turbine

FREEN-H15 15 kW Wind Turbine

Technical specifications		Annual Energy Production		Drawing and Description	
Rated power, (kW)	15	3.5	13100	<p>The main parts of the wind turbine are foundation, tower and nacelle with rotor and tail, electric panels and cables necessary for energy transfer and turbine control.</p> <p>Wind turbine has free yaw with tail. The turbine rotation speed is constant.</p> <p>For safe operation blade tip-brakes will activate with rotor over speed and mechanical rotor brake is used to stop the rotor. All these methods allow for safe operation and control of the turbine.</p> <p>Simple maintenance of greasing the bearings and visual inspection yearly. Simple gearbox oil change every two years.</p>	
Cut-out wind speed, (m/s)	no cut-out	4	18100		
Rated rotation speed (rpm)	71	4.5	23300		
Wind class	IEC II	5	28600		
Swept area, (m ²)	95	5.5	33900		
Blades	3, fixed angle, upwind	6	39000		
Rotor diameter, (m)	11	6.5	43900		
Tower	Monopole, 18-22 m	7	48600		
Generator	Asynchronous, planetary gearbox	7.5	53000		
Brakes	Stall, electro mechanic failsafe rotor brake, tip-brakes	8	57100		
Grid connection	Direct with reactive power compensation	8.5	60900		
Standard	IEC 61400-2:2013 – Small wind turbines	9	64400		
Operating temperatures, (°C)	-25 to +60	9.5	67700		
Remote monitoring	4G or Ethernet (Scada)	10	70600		
Lifetime, (years)	20				

Technical specifications

- Rated power, (kW): 15
- Cut-out wind speed, (m/s): no cut-out
- Rated rotation speed (rpm): 71
- Wind class: IEC II
- Swept area, (m²): 95
- Blades: 3, fixed angle, upwind
- Rotor diameter, (m): 11
- Tower: Monopole, 18-22 m
- Generator: Asynchronous, planetary gearbox
- Brakes: Stall, electro mechanic failsafe rotor brake, tip-brakes
- Grid connection: Direct with reactive power compensation
- Standard: IEC 61400-2:2013 – Small wind turbines
- Operating temperatures, (°C): -25 to +60
- Remote monitoring: 4G or Ethernet (Scada)
- Lifetime, (years): 20

Annual Energy Production

Wind speed (m/s)	AEP (kWh)
3.5	13100
4	18100
4.5	23300
5	28600
5.5	33900
6	39000
6.5	43900
7	48600
7.5	53000
8	57100
8.5	60900
9	64400
9.5	67700
10	70600

Drawing and Description

The main parts of the wind turbine are foundation, tower and nacelle with rotor and tail, electric panels and cables necessary for energy transfer and turbine control.

Wind turbine has free yaw with tail. The turbine rotation speed is constant.

For safe operation blade tip-brakes will activate with rotor over speed and mechanical rotor brake is used to stop the rotor. All these methods allow for safe operation and control of the turbine.

Simple maintenance of greasing the bearings and visual inspection yearly. Simple gearbox oil change every two years.

Contact us

1 AEP is based on a Rayleigh wind speed distribution, K=2, t=15°C, P=1013 mbar, ρ=1.225 kg/m³

2 The product specifications are provisional and subject to change at any time due to improvements or other reasons.

Freen-H15 horizontal axis small wind turbine

Key Specifications of the New [Freen-H15 Horizontal Axis Wind Turbine](#):

- Rated Power: 15 kW
- Rotor Diameter: 11 meters
- Tower Height: 18 meters
- Generator: asynchronous with direct grid connection
- Efficiency: 28,6 MWh annual energy production at 5 m/s average wind speed

The horizontal axis wind turbine is now available for order, with a lead time of 12 weeks. For more information, visit [Freen website](#).

The new wind turbine is engineered for optimal energy conversion, easy installation, and long-term reliability. With this latest innovation, Freen OÜ continues its commitment to delivering cutting-edge solutions that empower businesses and communities with clean energy.

About Freen OÜ

Freen OÜ is an Estonian-based manufacturer specializing in full-cycle metal manufacturing and [renewable energy solutions](#). The company is dedicated to producing high-quality, small wind turbines for industrial and off-grid applications, helping customers achieve energy independence through innovative wind power technology.

Freen

Freen OÜ

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