

tozzi nord, energy made in Italy

Tozzi Nord is a **Tozzi Group** company, specialising in the design, manufacture and marketing of **small wind turbines**.

Since 2006 the company has been among the market leaders in this new field. The small TN535 wind turbine is Tozzi Nord's undisputed showpiece. Its rotor is 13.2 metres long, yet it was designed on the same technological basis as big wind turbines.

The TN535 offers **high efficiency even at low wind speeds**.

To cover all the requirements of Italian and Foreign markets, Tozzi Nord has also designed a "stand alone" version of the TN535 for supplies to users in remote locations. **TN535 marks the start of a new era of wind energy made in Italy that is environmentally friendly and meets all regulatory requirements.**



for an aesthetics of sustainability

Attention to the high quality of the TN535 design is evidence of Tozzi Nord's commitment not only to optimise the product's performance, but also to achieve a highly aesthetic product of sustainability.



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Winning with wind



gruppo tozzi
tozzi nord S.r.l.
wind turbines

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The Company is under the direction and coordination of Tre S.p.a. Tozzi Renewable Energy

gruppo tozzi

tozzi nord

Everyone wins
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need a mini wind energy plant? yes, please!

Among all the different forms of renewable energy, the **Tozzi Nord TN535 small wind turbine** is the innovative solution par excellence for obtaining energy from wind. The TN535 guarantees a long-lasting and profitable investment. Thanks to its technological features, output and design, the TN535 possesses an **outstanding quality profile** which business companies and enterprises can always rely on.



TOP CLASS RESEARCH AND TECHNOLOGY

Fully projected and produced in Italy, in Gruppo Tozzi factories, TN535 is the result of Tozzi Nord research and development in partnership with the most preminent Italian and Foreign Universities. **The TN535 has successfully passing demanding functional tests under conditions of continuous operation.**

TECHNICAL PERFORMANCE

The **TN535** offers high energy outputs even at sites with **low wind speed**, thanks to its aerodynamic and mechanical features like active pitch control and an active yaw system. An advanced remote control system for the entire structure guarantees the plant's maximum safety and durability.

OUR SERVICE, BEYOND THE PRODUCT

With the TN535, Tozzi Nord offers a **high quality service package**. Our clients are supported by a team of experts who are able to assist both in the financing and the choice of the most suitable site for the turbine's installation. Five years warranty.

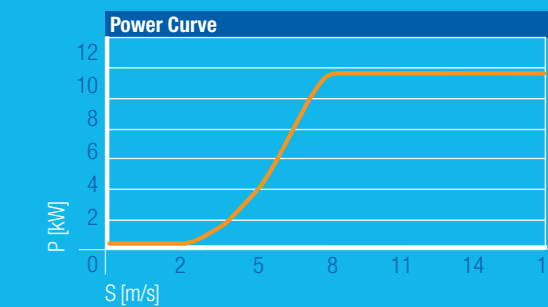
TN535 CERTIFIED QUALITY

TN535 power curve is majored GL Garrad Hassan according to the european standard **IEC 61400-12**. The turbine is also certified MCS to be installed in UK and benefit from feed in tariff. To confirm the high quality reached and to guarantee a safe investment for the customer.



low wind speed, high efficiency

With its experience in the field of wind energy plant, Tozzi Nord has designed the TN535, the only small wind turbine able to produce 37,300kWh at a wind speed of 5m/s, an ideal performance that guarantees a long-lasting and profitable investment. As a silent and highly reliable product, possessing the features of a maxi wind turbine, the TN535 can be installed at holiday farm houses, farms, shopping centres, campsites, small and medium-size companies and at public administration buildings. The stand alone version is particularly suitable for supplying areas not served by the national grid, such as **telecommunication and radio installations, small farms and mountain chalets, pumping stations, water treatment plant and the like.**



Estimated AEP		
Average Annual Wind Speed	Rated Annual Energy Output	
m/s 4.0	mph 8.9	kWh 24,590
m/s 5.0	mph 11.2	kWh 37,360
m/s 6.0	mph 13.4	kWh 47,240
m/s 7.0	mph 15.7	kWh 53,520
m/s 8.0	mph 17.9	kWh 56,390

Specification Sheet		
Rated Power	kW 10	
Nominal Wind Speed	m/s 7.5	mph 16.8
Cut in Wind Speed	m/s 2.5	mph 5.59
Cut out Wind Speed	m/s 16.0	mph 36
Rotor Diameter	m 13.2	ft 43.30
Swept Area	m² 136.7	ft² 1471.47
Hub Height	m 18 - 24	ft 59.1-78.7
Wind Class	IEC61400 class IV	
BWEA Ref. 60m Sound Level	50.1 dBA*	
Area Carbon Saving	18 - 40 t	
Safety System	Centrifugal Brake (patented)	
Grid code	Italy, CEI0-21; UK, G83/2; UK, G59/3	
Electrical Connection	400 Vac 3ph, 50 Hz 230 Vac single phase, 50 Hz	

* new surveys will be available soon.