



S144

3.x MW Platform

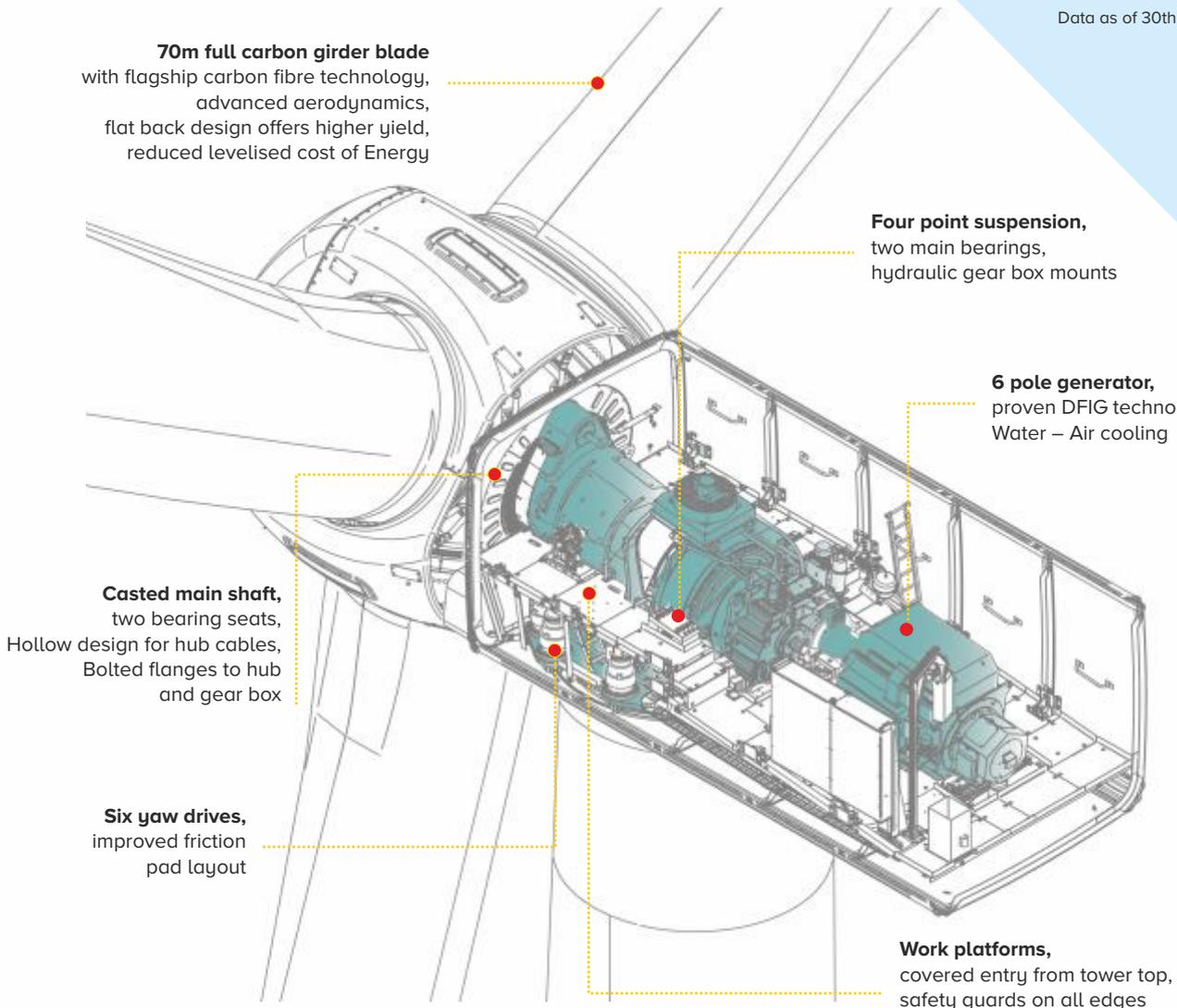
SUZLON
POWERING A GREENER TOMORROW

THE SUZLON GROUP

The Suzlon Group is a leading global renewable energy solutions provider, with approximately 20.9 GW* of wind energy capacity installed across 17 countries. Headquartered at Suzlon One Earth in Pune, India, the Group includes Suzlon Energy Limited and its subsidiaries. A vertically integrated organisation, Suzlon has in-house R&D centres in Germany, the Netherlands, Denmark, and India, and world-class manufacturing facilities across India. With 29 years of operational excellence and a diverse workforce of over 7,700 employees, Suzlon is India's No. 1 Renewable Energy Solutions company, managing 15 GW of assets and an additional 6 GW installed outside India. Its portfolio includes the advanced 2.x MW and 3.x MW series of wind turbines.

KEY DESIGN FEATURES

*Global installations of Suzlon manufactured wind turbine generators.
Data as of 30th September 2024

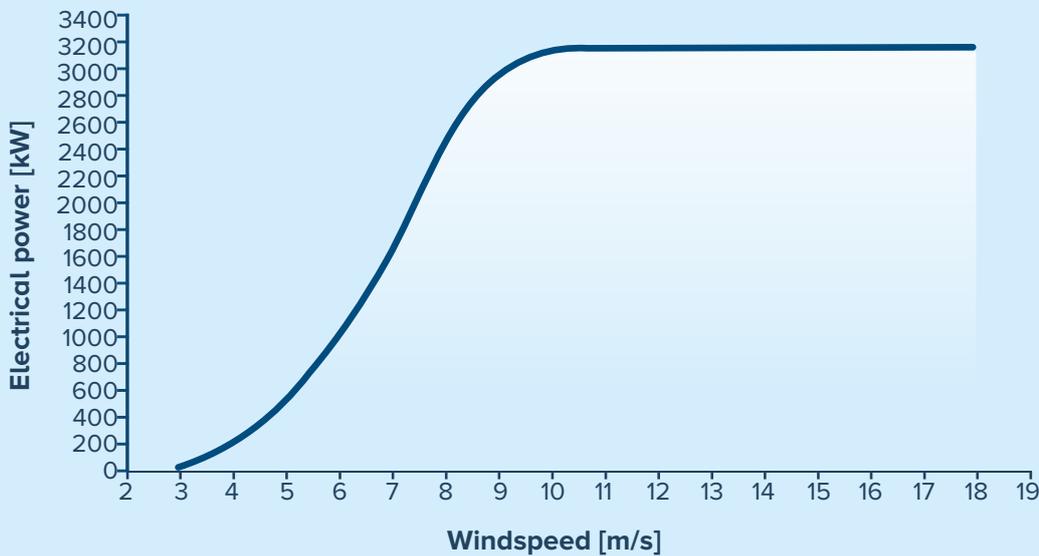


THE S144 ADVANTAGE

Suzlon introduced the new 3 MW series to unlock unviable sites and to deliver improved energy yield suitable for all wind regimes. The S144 wind turbine generator is one of the largest in India, extendable up to 3.15 MW, depending on site wind conditions, available at a hub height of 140 meters going up to 160 meters by its serial launch. At 160 meters hub height the S144 will also be India's tallest wind turbine. Suzlon's S144 fleet will deliver a remarkable 40-43% higher generation over Suzlon's current model, the S120 – 2.1 MW wind turbine, showcasing its ability to optimize wind resources at higher altitudes and make low-wind sites viable.

POWER CURVE

The power curve for 3.15 MW at standard air density of 1.225 kg/m³



TECHNICAL SPECIFICATIONS



OPERATING DATA:

Wind class - IEC S
Rated power - 3.00 MW
Cut-in wind speed - 3.0m/s
Rated wind speed - 9.2m/s
Cut-out wind speed - 18m/s



ROTOR:

Rotor diameter - 144m
Swept area - 16,618m²



GENERATOR:

Frequency - 50Hz
Proven DFIG technology
Water – Air cooling



TOWER:

Hub heights - Up to 160m
Type - Modular Hybrid
Lattice Tower



BLADE:

Make - Suzlon SB70
(Carbon girder, Flatback
and metal root inserts)

* The power curve has been created according to IEC 61400-12 guidelines. The actual power curve on specific sites varies due to site-specific conditions.

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