



S144

3.x MW Platform

SUZLON
POWERING A GREENER TOMORROW

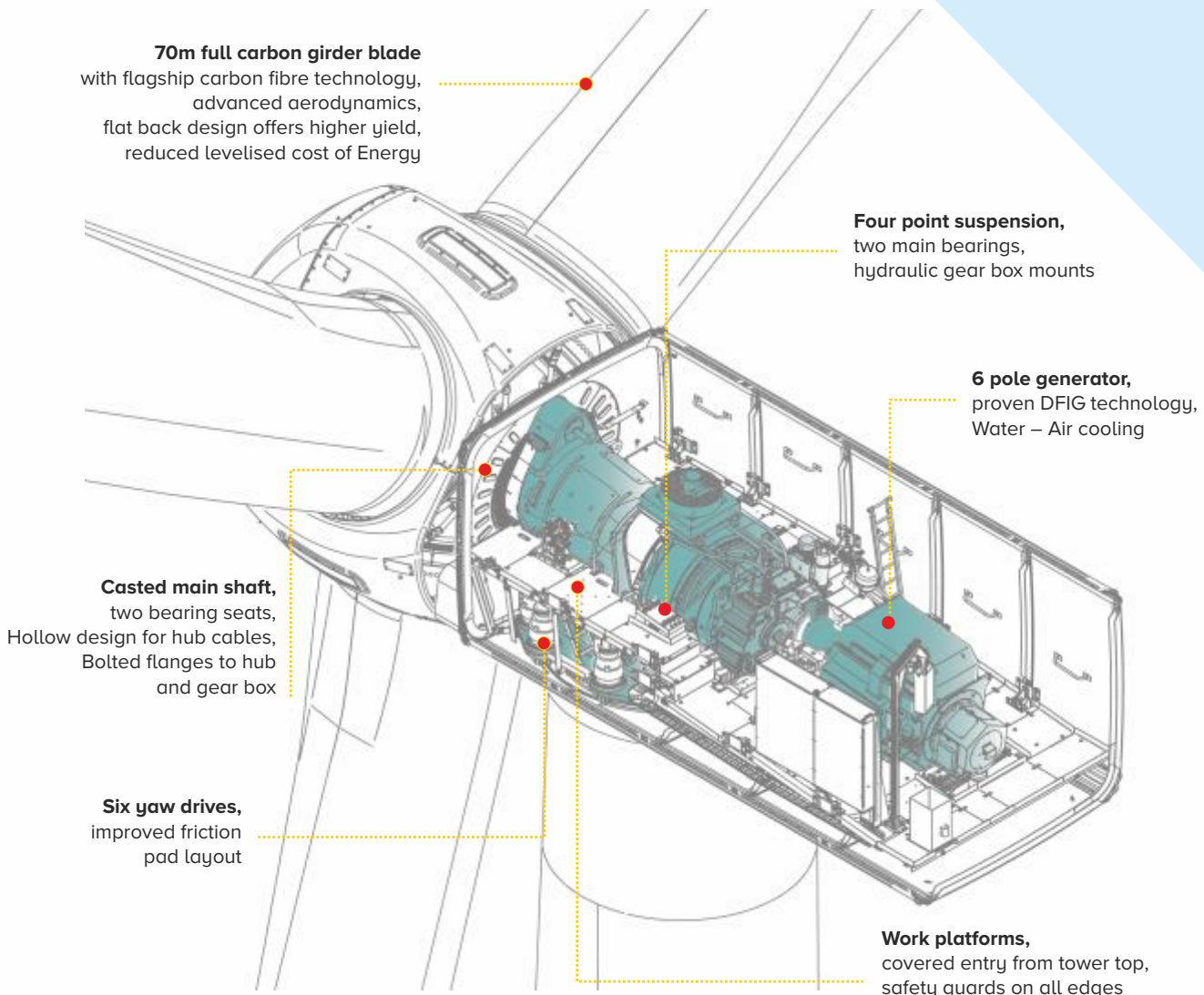
THE SUZLON GROUP

The Suzlon Group is one of the leading renewable energy solutions providers in the world with more than 20 GW of wind energy capacity installed across 17 countries. Headquartered at Suzlon One Earth in Pune, India. A vertically integrated organisation, with in-house research and development (R&D) centers in Germany, the Netherlands, Denmark and India, Suzlon's world-class manufacturing facilities are spread across 14 locations in India. With over 28 years of operational track record, the Group has a diverse workforce of nearly 6,000 employees.

Suzlon is also India's No. 1 wind energy service company with the largest service portfolio of over 14 GW of wind energy assets. The Group has ~6 GW of installed capacity outside India. The 3 MW Series wind turbine technology platform is the latest addition to its comprehensive product portfolio.

KEY DESIGN FEATURES

Data as on 30th June 2023.

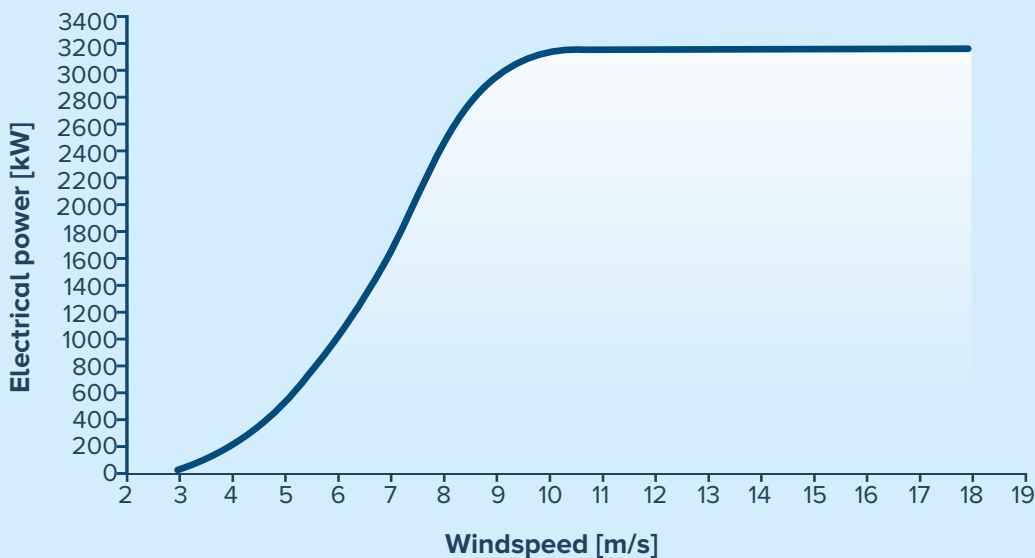


THE S144 ADVANTAGE

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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