



S144

3.x MW Platform

SUZLON
POWERING A GREENER TOMORROW

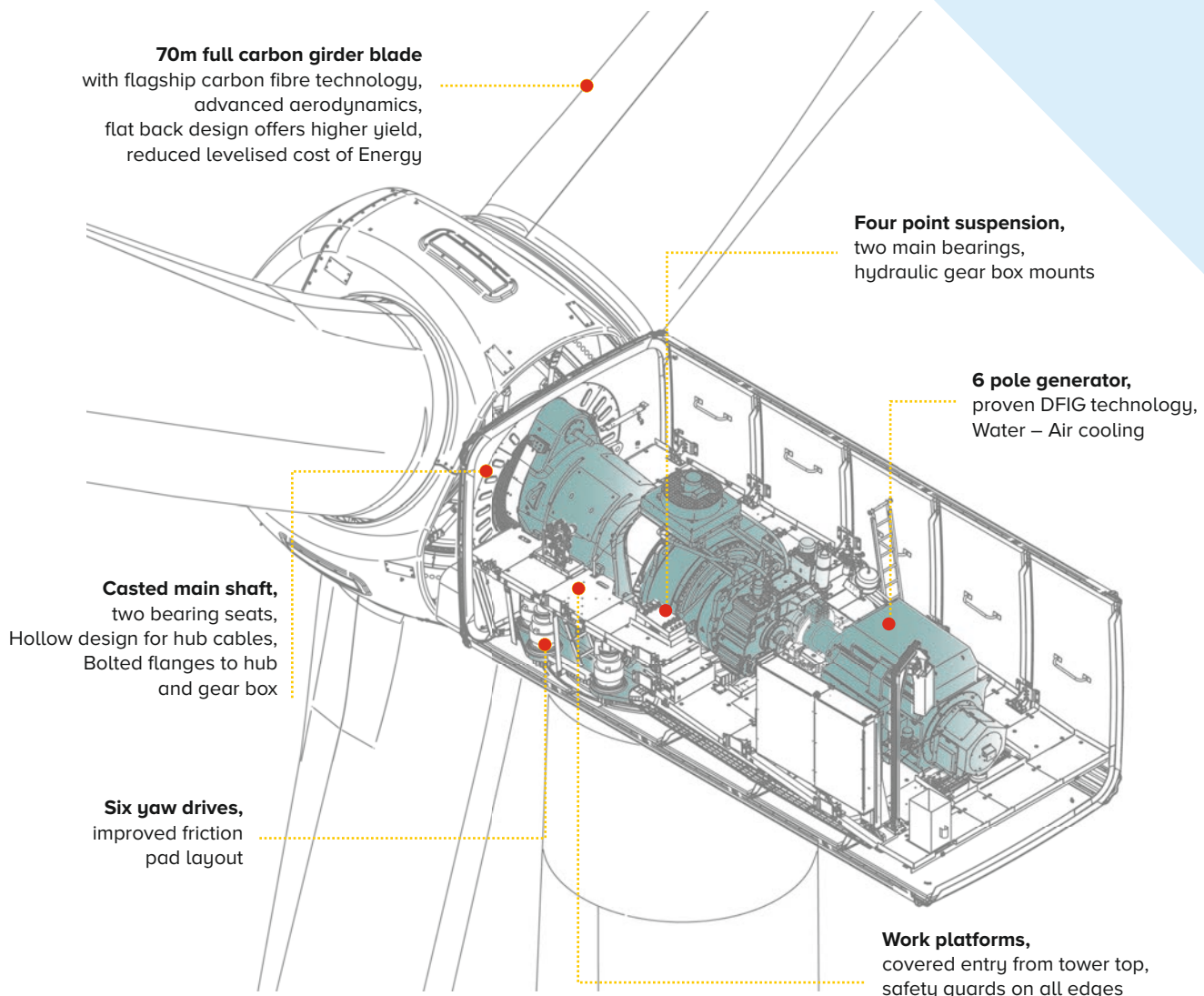
THE SUZLON GROUP

The Suzlon Group is one of the leading renewable energy solutions providers in the world with presence in 17 countries. Headquartered at Suzlon One Earth in Pune, India. A vertically integrated organization, with over twenty-seven years of operational track record, the Group has a cumulative global installation of over 19.7 GW of wind energy capacity, over 5,800 employees with diverse nationalities and world-class manufacturing facilities.

Suzlon is the only Indian wind energy Company with a large in-house Research and Development (R&D) set-up in Germany, the Netherlands, Denmark and India. The Group is the custodian of 13.8 GW of wind energy assets under service in India making it the largest Operations and Maintenance Company in the Indian renewable energy sector. The Group also has 5.9 GW of installed capacity outside India.

KEY DESIGN FEATURES

*Data till 31st December 2022

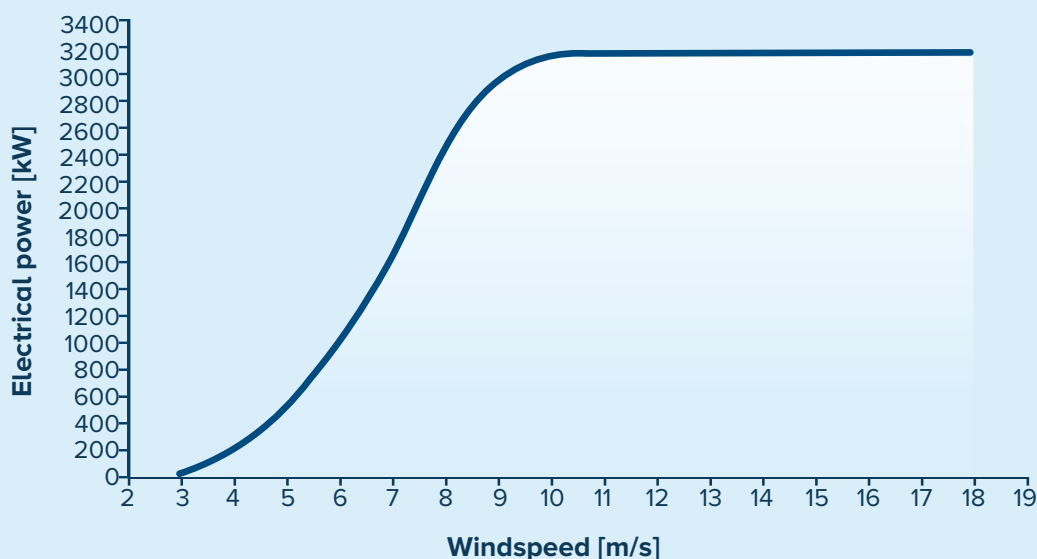


THE S144 ADVANTAGE

Suzlon introduced the 3.x MW platform to unlock unviable sites and to deliver improved energy yield suitable for all wind regimes. The S144 is one of the largest wind turbine generator (WTG) in India. This platform is extendable up to 3.15 MW depending on the site wind conditions. These products offers hub heights up to 160 meters. The fleet delivers 40-43% higher generation over the S120. 10-12% higher generation over S133.

POWER CURVE

The power curve for 3.15 MW at standard air density of 1.225 kg/m^3



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 - $16,618 \text{ m}^2$



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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