

MITSUBISHI WIND TURBINE GENERATOR

MWT-1000A



Technical Data

Operation Data

Rated Power	1000 kW
Hub Height	55 m/60 m/69 m
Power Regulation	Blade-Pitch Control
Cut-in Wind Speed	3.0 m/s
Rated Wind Speed	12.5 m/s
Cut-out Wind Speed	25 m/s (10 min. Ave.), 30 m/s (Instantaneous)
Survival Wind Speed	60 m/s
Yaw System	Active

Rotor

Number of Blades	3
Material	GFRP
Diameter	61.4 m
Swept Area	2,960 m ²
Rotational Speed	19.8 rpm

Gearbox

Type	3 Stage (1 Planetary, 2 Parallel)
Gear Ratio	1:92/1:76 (60 Hz/50 Hz)

Generator

Type	Induction Generator (4 Pole Type)
Voltage	600 V/690 V (60 Hz/50 Hz)
Frequency	60 Hz/50 Hz
Rated Speed	1,800 rpm/1,500 rpm (60 Hz/50 Hz)
Grid Connection of Generator	Soft Starter

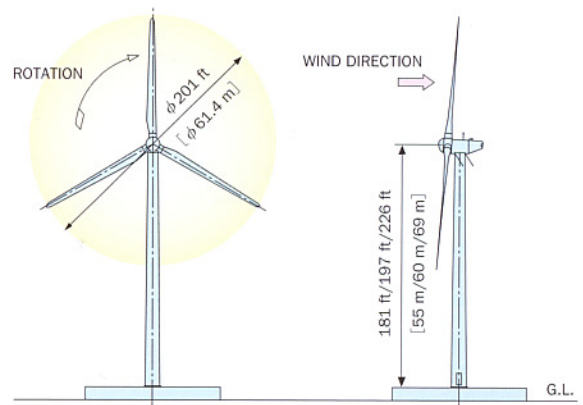
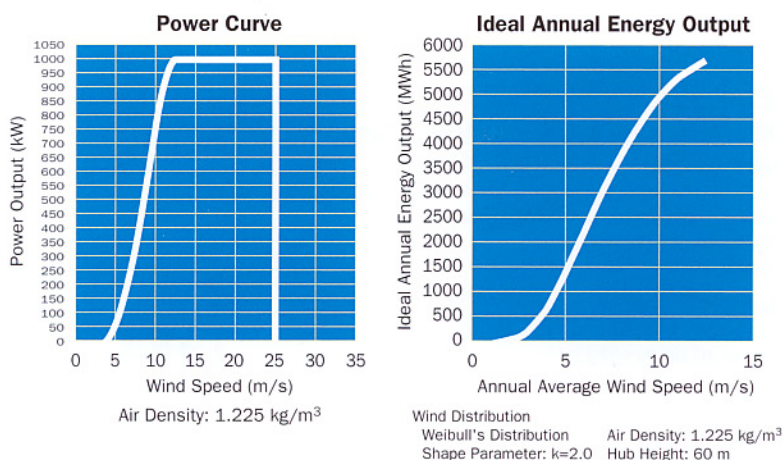
Safety System — Brake

Aerodynamic Brake	Blade Feathering
Mechanical Brake	Disk Brake (High Speed Shaft)

Tower

Type	Taper Monopole	55 m (2 section type) 60 m (3 section type) 69 m (3 section type)
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Impressive Performance



Superior Technology for A Brighter Future

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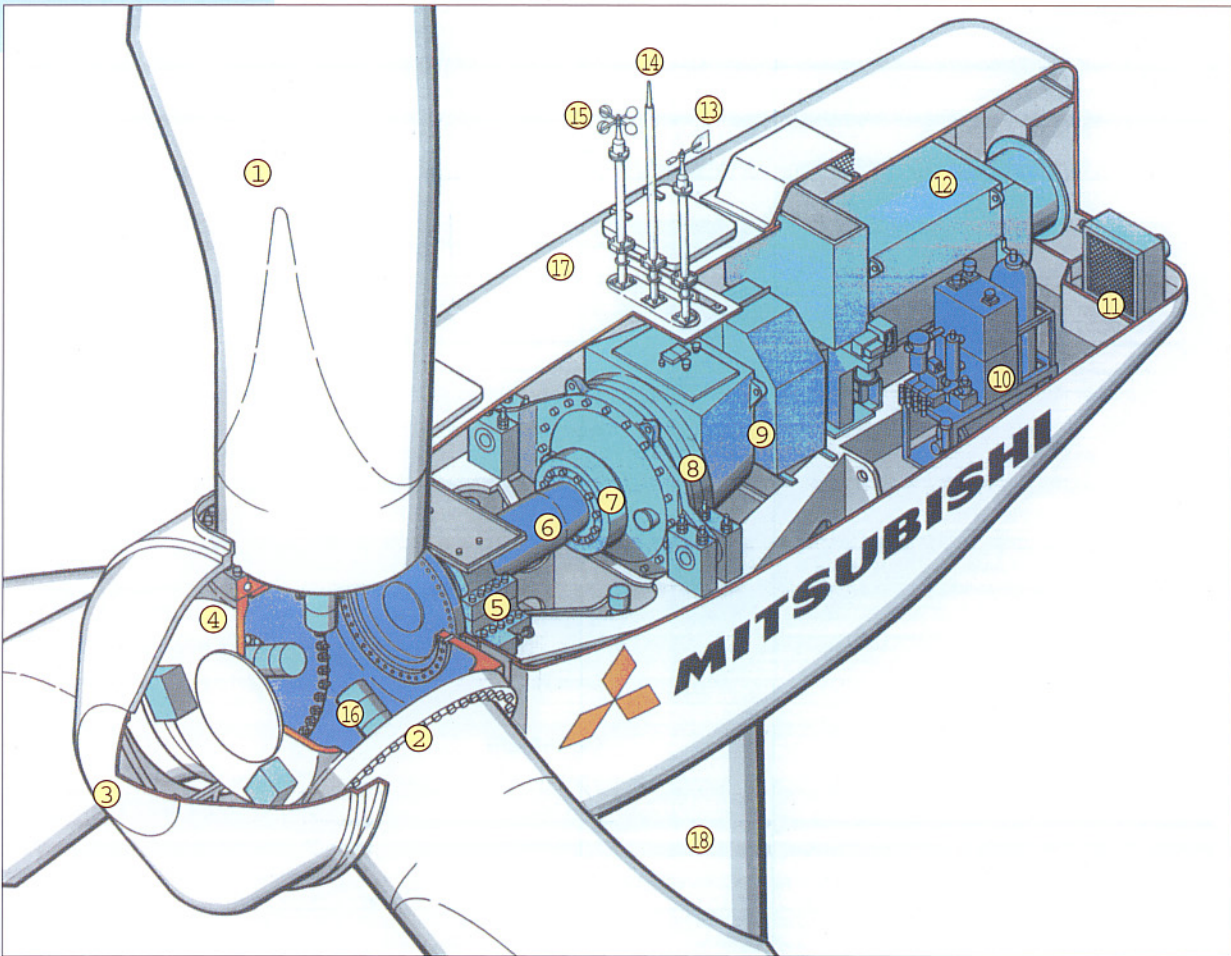
● **Superior Performance**

Extended and Advanced Blade Design

● **Proven Reliability**

High Availability

● **Experience**



Schematic Diagram

- | | | | |
|-----------------|-------------------------|--------------------------|-------------------------------|
| ① Blade | ⑥ Main Shaft | ⑪ L.O. Cooler (with Fan) | ⑮ Hydraulic Pitch Link System |
| ② Blade Bearing | ⑦ Coupling (Low Speed) | ⑫ Generator | ⑯ Nacelle |
| ③ Front Capsule | ⑧ Gear Box | ⑬ Wind Vane | ⑰ Tower |
| ④ Rotor Head | ⑨ Coupling (High Speed) | ⑭ Lightning Rod | |
| ⑤ Main Bearing | ⑩ Hydraulic Unit | ⑰ Anemometer | |

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