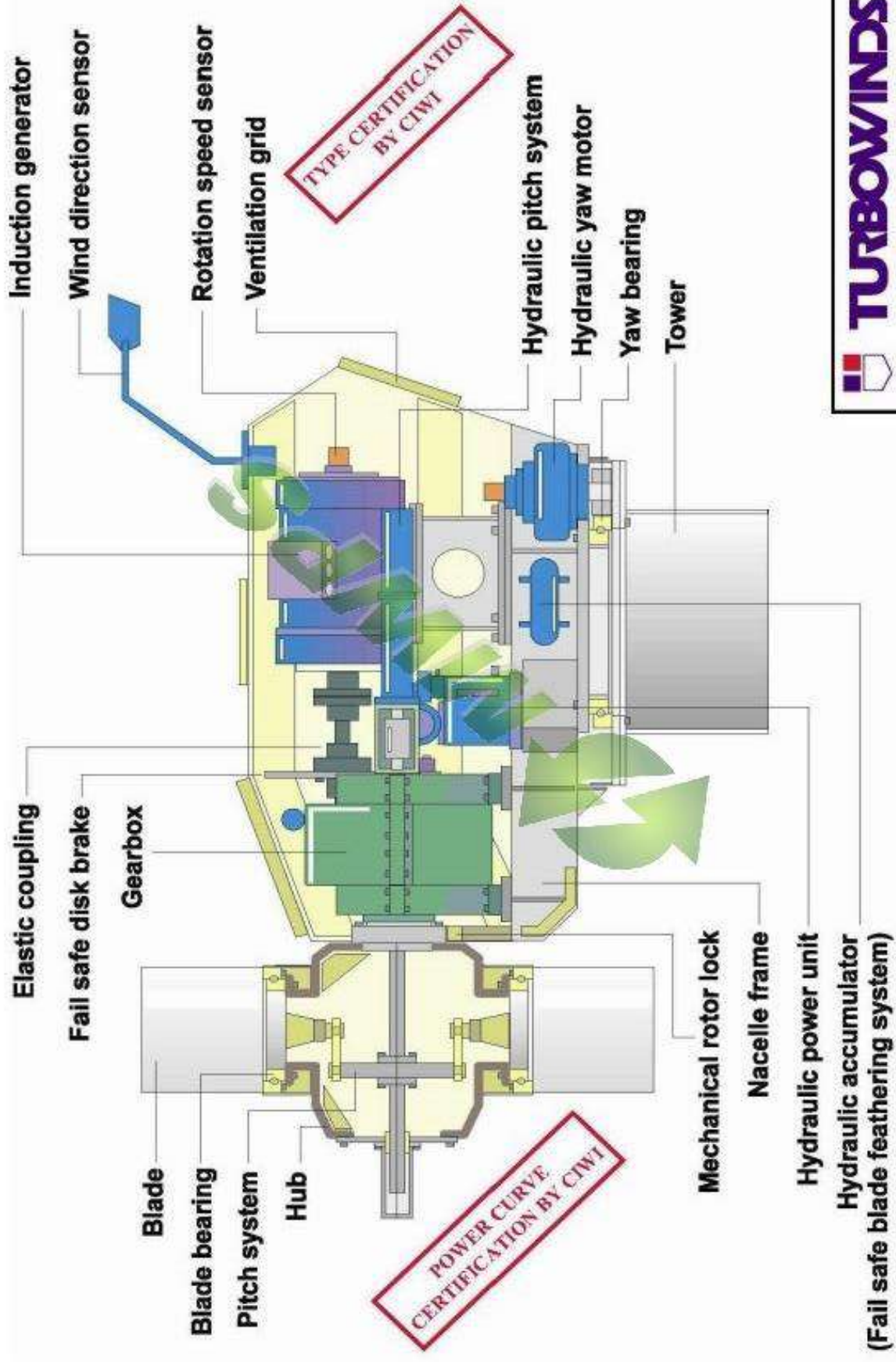


 **TURBOWINDS**
T400-34





TURBOWINDS
T400-34

TECHNICAL SPECIFICATION

Turbine type: T400-34 Dual Speed

General:

Rated Power: 400 kW
 Rotor Diameter: 34 m
 Hub height: 30 / 34 / 50 m

Rotor:

Number of blades: 3
 Rotor speed: 22 / 33 rpm
 Blade construction: Wood-epoxy
 Aerofoil: NASA LS1 (mod)04XX
 Control: Active stall
 Pitch actuation: Hydraulic
 Hub Type: Rigid
 Cone angle: 0°
 Tilt angle: 4°

Transmission: (Gearbox)

Type: 3-stage parallel

Brake:

Type: Hydraulic disk brake
 Position: High speed shaft

Generator:

Type: Induction generator
 Voltage: 690 Volt
 Rotation speed: 1000 / 1500 rpm

Nacelle:

Frame: Welded steel structure
 Housing: Steel or fiberglass

Tower:

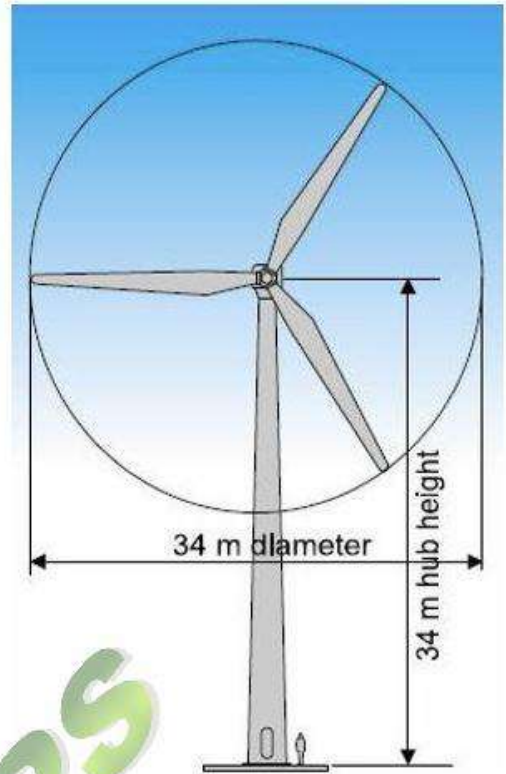
Material: Welded steel
 Type: Polygonal / tapered
 Conservation: Galvanisation / metalisation / paint

Performance:

Rated power: 400 kW
 Rated windspeed: 13,5 m/s
 Cut-in: 3 m/s
 Cut-out: 25 m/s
 Survival: 60 m/s

Weights:

Nacelle including rotor: 18 ton
 Tower: 16 / 24 / 36 ton
 Total turbine: 34 / 42 / 54 ton



FEATURES

Design

- ♦ ECN certified following IEC 61400-1 class II
- ♦ Active stall power control
- ♦ "Utility standard" wind turbine
- ♦ Designed and engineered by professionals
- ♦ All components designed for a service life of at least 20 years

Safety

- ♦ Failsafe blade feathering in the event of grid loss
- ♦ Independent overspeed trips to activate the backup safety system.(Disk brake)

Electrical

- ♦ Utility standard electrical system
- ♦ Specially designed soft starter for smooth startup
- ♦ "Double speed" generator

Control

- ♦ Specially designed microprocessor unit with proven software
- ♦ Optional remote control and monitoring via modem link

Maintenance

- ♦ Enclosed tower and nacelle for safe and comfortable maintenance under any weather condition

