

» Technical data

The evolution of the proven offshore platform M5000

M5000-116

General

Rated power	5,000 kW
Cut-in wind speed	4 m/s
Rated wind speed	12,5 m/s
Cut-out wind speed	25 m/s
Design life time	20 years
Type class	GL-TK 1 offshore

Rotor

Rotor diameter	116 m
Number of blades	3
Swept rotor area	10,568 m ²
Rated speed	14.8 min ⁻¹
Rotor axis tilt angle	5°
Cone angle	-2°

Pitch system

Principle	electrical pitch
Power control	blade angle and rotor speed control

Tower

Type	tubular steel tower
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Gearbox

Type	step-planetary gear, helical
Ratio	1:10

Generator and Converter

Generator type	synchronous, permanentmagnet
Rated voltage	3,300 V
Speed range	45.1 – 148.5 min ⁻¹
Cooling	water cooled
Protection class	IP 54
Converter type	full size converter
Power factor (grid)	0.9 inductive – 0.9 capacitive

Masses

Hub incl. Blades	110 t
Total top mass	345 t

M5000-135

General

Rated power	5,000 kW
Cut-in wind speed	3.5 m/s
Rated wind speed	11.4 m/s
Cut-out wind speed	25 m/s
Design life time	20 years
Type class	GL-TK 1 & GL-TK S

Rotor

Rotor diameter	135 m
Number of blades	3
Swept rotor area	14,326 m ²
Rated speed	13.5 min ⁻¹
Rotor axis tilt angle	5°
Cone angle	-3,5°

Pitch system

Principle	electrical pitch
Power control	blade angle and rotor speed control

Tower

Type	tubular steel tower
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Gearbox

Type	step-planetary gear, helical
Ratio	1:10

Generator and Converter

Generator type	synchronous, permanentmagnet
Rated voltage	3,300 V
Speed range	66.1 – 133.5 min ⁻¹ ± 10%
Cooling	water cooled
Protection class	IP 54
Converter type	full size converter
Power factor (grid)	0.9 inductive – 0.9 capacitive

Masses

Hub incl. Blades	140 t
Total top mass	375 t

