



Micon

M700 refurbished Wind Turbine

Rebuilding of Micon M700

Turbine Complete: Nacelle, Blades, Controllers & Tower

Delivery: From Green Energy Wind to Client site

System Specification:

Tower

- Height: 30m
- Hub Height: 30m
- Material: Hot dip-galvanized steel, painted.
- Safety: Nacelle reached by inside tower ladder; lockable door

Generator

- Rate generator power; 250 kW at 14 m/s
- RPM's: 1515 Rotor Speed 37.7rpm
- Type: Double wound Asynchronous 415 V; 3-phase; 50Hz

Component Weight

- Nacelle: 9,000 kg
- Blades: 2,900 kg
- Tower: 11,000 kg

Operational Data

- Cut-in wind speed: 3.6 m/s
- Cut-off wind speed: 25 m/s,
- Max operating Wind Speed: 54 m/s

Rotor

- 3 stall blades
- 29.6m diameter
- Upwind Orientation, Clockwise

Blades

- Fiberglass reinforced polyester
- 700 m² swept area

Miscellaneous

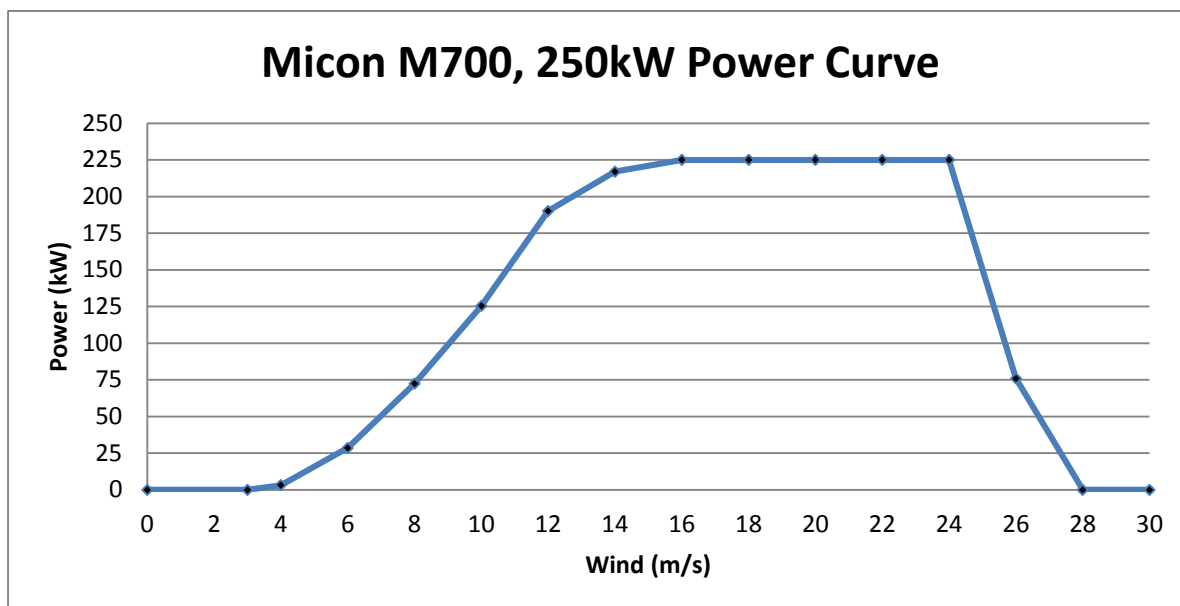
- Control panel mounted safely inside tower.
- Remote system monitoring and controls via internet connection. (Available)
- For more information on this turbine, contact us. E: info@greenenergywind.co.uk

Safety

- All turbines purchased include the following approved safety equipment, which is packed within the turbine load at the time of shipment.
 - Safety climbing harness with shock absorber strap
 - Climbing lanyards
 - Slip grips
 - Safety instructions manual

NOTE: All personnel working in, on or around a turbine installation should wear a hard hat at all times.

Output and Production



Wind Speed (m/s)	Power Output (kW)
0	0
3	0
4	3.2
6	28.6
8	72.4
10	125.4
12	190.1
14	250.0
16	250.0
18	250.0
20	250.0
22	250.0
24	250.0
26	76.0
28	0.0
30	0.0



Estimated annual production, based on hub height of 30m and wind speed averages:
 6 m/s = 473,000 kWh, 7 m/s = 542,000 kWh, 8 m/s = 600,000 kWh

Estimated Return on Investment

High Estimate

Turbine	7.0m/s	NIROC Income	100 % Export	Total
Micon M700 250kw	657,000	£118,260	£36,135	£115,4395

Expected

Turbine	6.5m/s	NIROC Income	100 % Export	Total
Micon M700 250kw	569,400	£102,492	£31,317	£133,809

Low Estimate

Turbine	6.0m/s	NIROC Income	100 % Export	Total
V Micon M700 250kw	492,750	£88,695	£27,101.25	£115,796.25

Reconditioning Process

- **Turbine Nacelle:** stripped down to main chassis. Refinished
- **Gearbox:** Inspect gearbox, check endplay, replace all seals, Bearings & gear oil.
- **Brake unit:** Test magnetic brake unit & Meg electric motor.
- **Yaw System:** Meg yaw motor. Inspect yaw bearing & adjust yaw pinion gear to yaw ring.
- **Generator:** Meg Large generator. Replace bearings and seals. Varnish and bake
- **Main Shaft:** Replace main shaft bearing & seals
- **Anemometer:** Test RPM sensor, anemometer & wind vane.
- **Controller:** Check & test controller & set parameters by manufacturer guidelines.
- **Blades:** Refinish blades, balance & match set.

Cost

Dependent on availability, order date location and purchase price of second hand machine

Shipping

- All our prices include shipping from Europe and delivery Green Energy Wind Workshop. Delivery to client site and all lifting and handling

Warranty

- Turbines are warranted for a period of two years.
- Replacement parts are available.

- O & M Package available

Installation

- Manuals and blueprints provided.
- Foundation drawings available.
- 2 yr. dial up tech support included.

Design Advantages

- Low visual impact tubular towers.
- Easy access to controller and nacelle via internal tower ladder with dual lockable doors.
- Ease of service and maintenance during inclement conditions.

Notes

1. Prices and delivery dates are subject to availability and change. We do offer price discounts for multiple system purchases. Contact us for additional information and a price quote.
2. Please confirm with us: email: info@greenenergywind.co.uk
3. Annual electrical production in kilowatt-hours will vary dependent upon your wind speed averages. We would be glad to assist you in calculating your annual production upon request.

