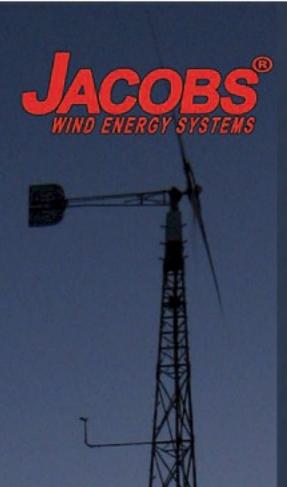


QUALITY U.S. MADE WIND SYSTEMS SINCE 1986



WIND TURBINE INDUSTRIES CORP.

www.windturbine.net



Jacobs 31-20		
Rated Max Output	20,000 watts	
Cut-In Wind Speed	3.5m/s (~8 mph)	
Rated Rotor Speed	175 - 185 rpm	
Survival Wind Speed	120 mph (53.5m/s)	
Height (ft.) (less Rotor)	9 feet (2.7m)	
Weight (lbs.)	2000	

Turbine Rotor

Number of Blades	3	
Orientation	Upwind	
Axis (nominal)	Horizontal	
Rotation	Counter Clockwize	
Blade Material	Fiberglass	
Rotor Diameter	31' (9.5m)	
Swept Area	755 (230m)	
Speed Control	 Centrifugal variable pitch governor 25-30mph (11-13.5m/s) 	
	2. Side furling 40-45mph (18-20m/s)	
Yaw Control	Passive Tailvane	

Generator:

	Brushless, Synchrous, Three phase AC with outbound exciter.
П	with outbound exciter.

Transmission:

ľ	Туре	Offset Hypoid Gear Drive	
ı	Ratio	1:6.1	

Inverter:

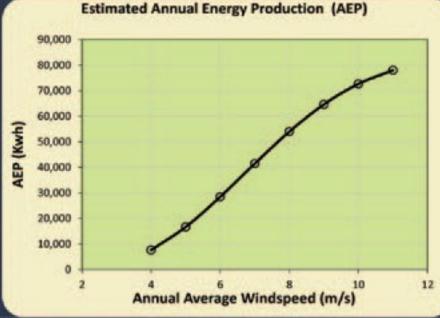
	Nexus Nex 20	UL1741 certified inverter
_		

^{**}Free Standing Towers Available 80'-160' (24.5m-48.5m)

The Jacobs Wind Energy Systems have been providing customers with quality reliable electricity since the dawn of wind powered electric generation.

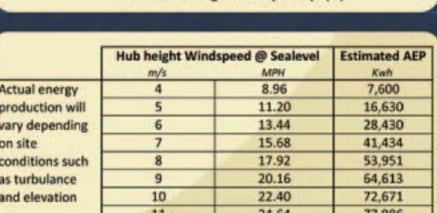
The current configuration of the Jacobs system started in the late 1970's as a 10kw unit and quickly evolved into the 20Kw unit (31-20) now offered by Wind Turbine Industries Corporation.

In 1986 WTIC assumed the responsibilities of production and distribution for this historic brand and has continually been innovating and improving the design.



	Hub height Windspeed @ Sealevel		Estimated AEP
	m/s	MPH	Kwh
Actual energy	4	8.96	7,600
production will	5	11.20	16,630
vary depending	6	13.44	28,430
on site	7	15.68	41,434
conditions such	8	17.92	53,951
as turbulance	9	20.16	64,613
and elevation	10	22.40	72,671
	11	24.64	77,986

When choosing a location for a wind system there are numerous factors to consider; a good starting place is to make sure that the bottom stroke of the rotor will be a minimum of 30' above any obstructions in all directions for 500' feet.



For more information about products from WTIC please visit our website www.windturbine.net or contact us at:

> wtic@windturbine.net (952) 447 - 6064

