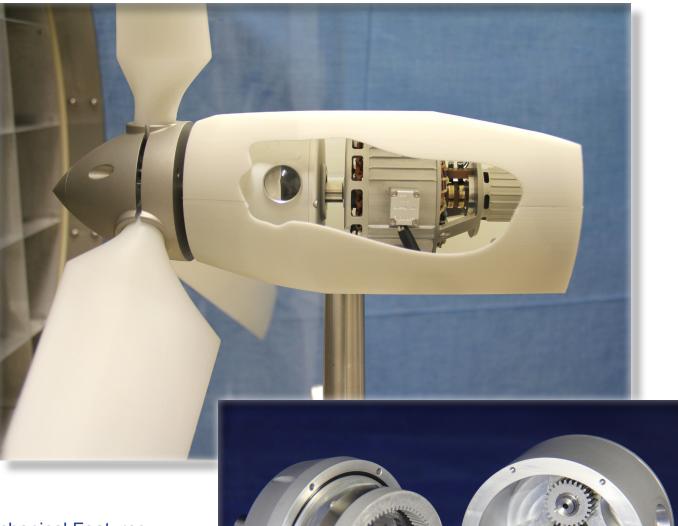
### WindLab<sup>™</sup> Electrical Generation System



#### Educational & Research Features:

- Housed in an Air Flow Wind Tunnel
- Programmable Variable Speed Wind Source
- Custom On-board Instrumentation Created with LabVIEW<sup>™</sup>
- Complete & Ready to Operate

### Aerospace Grade Components . . .



#### **Mechanical Features:**

- All Alloy Planetary Gear Box
- Precision Wire EDM Gears
- Cut-Away Gondola Cover
- Stainless Steel Tower
- ABS Plastic Blades



**Disassembled Planetary Gear Box** 



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# Purpose-Built Electrical GenSet . . .



#### **Electrical Features:**

- Three Phase Generator
- DC Excited Eight Pole Rotor
- Eight Pole Three Phase Stator
- Individual Phase Load Control
- Safe Low-Power Output



Stator During Winding at Turbine Technologies Factory

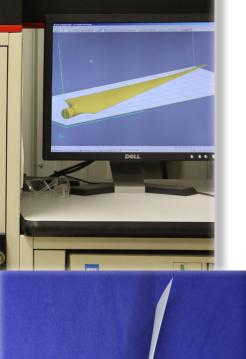


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## Custom Blade Profiles . . .



- · Performance Comparison Testing
- Electronic Solid-Model Blade Files Included
- Manually Adjustable Blade Pitch
- Easy Access Hub for Blade Change-out
- In-House Rapid Prototype Blade Creation Service

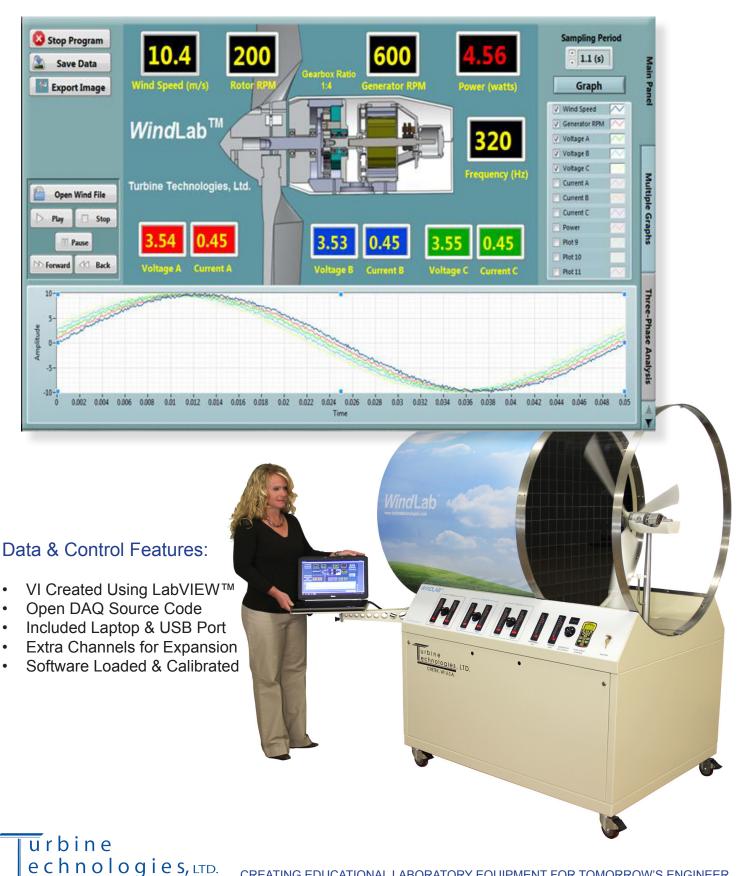


#### <mark>urbine</mark> echnologies, цтр.

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# Programmable Wind Control . . .



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