

Investigating the loads and performance of a model horizontal axis wind turbine under reproducible IEC extreme operational conditions

- The force balance information is misleading, a clarification of this is necessary.
- For completeness the information about the turbine must be included such as, blades airfoil-shape, twisted? Tapered?
- For a smooth correction, please check that the number of the line that is referred agree with the document, it was really difficult to follow the author's answer, probably it was written and then change something which mismatched all the lines.
- Technical issues, in the writing, were not addressed, such as equation-> Eq. figures -> Fig, etc.

JR3 Multi-Axis Force-Torque Sensor Technical Specifications

Sensor Model:	75E20S4	75E20S4
Mechanical Load Rating:	650 lb	1300 lb
Diameter (in)	7.50	7.50
Thickness (in)	2.00	2.00
Material	15-5PH SS	15-5PH SS
Weight (lb)	15.0	15.0
Nominal Accuracy, all axes (% measuring range)	±0.25	±0.25
Operating Temp. Range, non-condensing (°F)	-40 to +150	-40 to +150
F_x, F_y		
Standard Measurement Range (lb)	±650	±1300
Digital Resolution (lb)	0.081	0.16
Stiffness (lb/in)	0.98e6	1.6e6
Single-axis Overload (lb)	4150	7600
Multi-axis Overload Coefficient, a (lb)	4450	7850
Multi-axis Overload Coefficient, b (lb)	4150	7600
F_z		
Standard Measurement Range (lb)	±1300	±2600
Digital Resolution (lb)	0.16	0.32
Stiffness (lb/in)	7.61e6	12.0e6
Single-axis Overload (lb)	12,500	24,100
Multi-axis Overload Coefficient, c (lb)	12,500	24,100
M_x, M_y		
Standard Measurement Range (in-lb)	±5000	±9800
Digital Resolution (in-lb)	0.63	1.23
Stiffness (in-lb/rad)	38.2e6	64.4e6
Single-axis Overload (in-lb)	19,900	39,500
Multi-axis Overload Coefficient, d (in-lb)	19,900	39,500
M_z		
Standard Measurement Range (in-lb)	±5000	±9800
Digital Resolution (in-lb)	0.63	1.23
Stiffness (in-lb/rad)	11.9e6	21.6e6
Single-axis Overload (in-lb)	17,000	32,300
Multi-axis Overload Coefficient, e (in-lb)	17,000	32,300