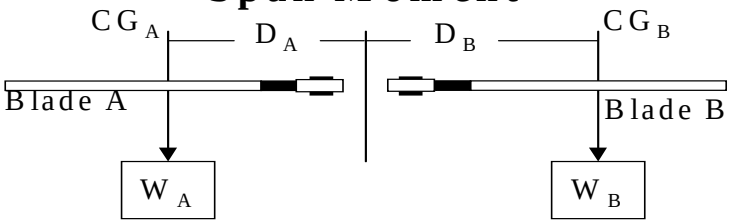
Avion Balance Technology

Span Moment



Span Moment $_A$ = Span Moment $_B$

$$W_A \times D_A = W_B \times D_B$$

where W = Weight, D = Distance

and CG = Center of Gravity

Rotor Blades with the same span moment will fly with little or no vibration. Our objective is to allow evaluation of a rotor blade, compare that blade to the OEM's standard and provide the operator with an easy-to-understand set of corrections that will return the blade to the original manufacturer's specifications. Typically, a rotor blade can be evaluated and balanced in less than one hour – a rotor blade which will become a part of your interchangeable inventory. Thousands of blades have been balance by our customers... and they report significant cost and time savings. Virtually eliminates "blade swapping".

Our balancing equipment utilizes three load cells , selected for the application, to collect weight readings. The system also employs sensors to establish the precise location of the blade relative to the fixture, and, more importantly, relative to the load cells. Those weight readings and positions are processed by the integral computer that calculates the Center of Gravity, Span Moment and Chord Moment of the blade.