

Rotor Balance Data Sheet (Shop Balancing)

The purpose of this form is to convey important information about the balance quality of rotors that are balanced in a balancing machine.

This form to accompany every rotor to be balanced

The recommended standard for general machinery is that of the American Petroleum Institute (API) which states that:

$$U_{MAX} = 4 W/N$$

Where:

U_{MAX} = the maximum allowable unbalance per plane in oz-in.

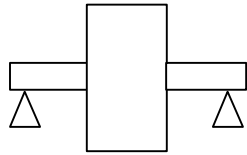
W = static journal load in lbs. (for symmetrical rotors, $\frac{1}{2}$ rotor weight)

N = the maximum continuous rotating speed in RPM

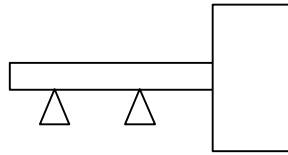
In some special cases a standard of 1 W/N may be requested

Notes:

- i. **Configuration** Items (1.8) ; (1.9)



Centerhung
configuration



Overhung
configuration

- ii. **Journal Load** Items (2.3) ; (2.4)

For symmetrical rotors the journal load is 50% of rotor weight

For Non-symmetrical rotors the individual journal load must be calculated.

