

Authenticity of rotor balance accuracy

Verification and judgment of balance accuracy:

1. After the balance process is completed, the true and false balance must be verified by increasing the balance value. And both sides need to be verified.
2. Verify that the universal joint is reversed 180 degrees.
3. Re measure the rotor spindle after 180 ° installation (the spindle is required to have 180 ° double keyway).
4. The belt driven rotor will generally be balanced with high precision. Verification is also required. Move the cursor 180 degrees for verification and transpose left and right for verification.
- 5 according to gbt9239.1 Description: state of the rotor, "unbalance does not change significantly with speed"

Specific operation: after balancing, make the measured speed of the rotor change + / - 10% (20%) to see the magnitude of the change. As a precision reference. This requires the balancing machine to have the speed tracking function of measured data.

The test results of the balancing machine do not fully represent the real results of the rotor. The balance accuracy of a rotor: the first condition is the support accuracy. If the bearing accuracy is 100 microns (concentricity, ellipse, coarseness) and the balance accuracy is 1 micron, the corresponding vibration accuracy of 1 micron can not be reached in the actual working condition. The balance accuracy of 1 micron is the average value of the electrical measurement system.

Rotor accuracy balanced with process mandrel: the accuracy of process shaft is the highest accuracy of rotor balance.