

Process guarantee method of high precision rotor dynamic balance

There has been a text that describes the precautions for the spindle rotor.

The highest form of dynamic balance technology is the whole machine running balance.

The rest of the methods are simulated.

The large rotor is driven by universal joint end face. Generally, the effect of universal joint is not considered. It's just a balancing machine

The driving end of the universal joint should be concentric with the rotation horizontal direction of the rotor as far as possible. To avoid the cross error of universal joint

It is the horizontal same frequency component of the support frame, which shows that there is a bad unbalance. After 180 degrees of reversal,

The changes are relatively large.

Small and medium-sized rotors are driven by belt.

The advantage of this method is that there is no need to balance the connecting fixture, and the process speed of single rotor is faster. Suitable for motor rotation

The balance of children. Note is to pay attention to the half key selection. (working half key, not keyway half key)

The limit interference of high precision rotor is also the biggest problem of balancing accuracy higher than g6.3.

Try to make the interference force work at the lowest sensitivity end of the vibration sensor.

Rotor weight W: 200kg working speed n: 10493rpm $g = 1$ R = 210mm
 $m = 9550GW/r/n = 9550 * 1 * 200 / 210 / 10493 = 9095 / 10493 = 0.87g$
Accuracy can be achieved

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