

YYQ-300 horizontal hard support balancing machine



I. Product Introduction

This series of horizontal hard-support balancing machines uses roller support and loop drag, with data processing by an industrial control computer, real-time display of unbalance values, phase angles, and real-time rotational speed. The bed is integrally cast for good stability. Due to the use of relatively soft flat belts to drag the workpiece, there is no additional unbalance interference, so the measurement accuracy is high and the structure is simple. It is widely used in the industries of electric motors, fans, diesel engines, automotive parts, etc. Balance measurements can be performed on single, double, and multiple calibration surfaces. It is suitable for shafts, disks, and center-of-gravity extending rotors. It has the characteristics of high efficiency, accurate precision, intuitive display, reliable quality, and convenient maintenance. It is the first choice for general dynamic balancing workpieces. The software has two calibration

functions for ordinary workpieces and standard rotors, overcoming the defect that users of other hard-support balancing machine measurement systems have difficulty calibrating the equipment themselves. There are various measurement methods and functions to choose from, including parameter input, preview, test, result storage, printing, and full Chinese menu structure for operation. Human-computer interaction and automatic prompting are available.

二、 Main Technical Parameters

- 1、 Workpiece quality range kg: 5-300
- 2、 Workpiece diameter mm: $\Phi 1200$
- 3、 Distance between two supports mm: 150-1500
- 4、 Axis diameter range mm: $\Phi 20-180$
- 5、 Diameter range of the drag area of the loop belt mm: $\Phi 30-450$
- 6、 Balance speed r/min: 300-1500
- 7、 Minimum achievable residual unbalance gmm/kg: ≤ 0.5
- 8、 Reduction rate of unbalance amount%: ≥ 90
- 9、 Motor power kw: 4

三、 Measuring system

★ Industrial control computer, 19-inch LCD display (touch screen can be equipped according to customer needs), Windows operating platform

★ Equipped with our company's self-developed universal balance measurement system. The universal software features cover all functions of mainstream balance machine software in China, and the operation is fully implemented using Chinese

menu structure with text prompts for operating steps

★ The measuring system has powerful performance: any workpiece calibration, wide measurement speed range starting from 80 rpm, measurement speed block, stable imbalance amplitude and phase, high dewatering rate and separation ratio, high sensitivity

★ The software comes with an imbalance calculator, and the operator only needs to enter the vibration accuracy level, mass, working speed, and radius points of the workpiece to obtain the allowable residual imbalance weight of the workpiece by clicking on the calculation

★ The software is fully developed independently, and software functions can be modified or added according to customer requirements Mechanical part and control

★ Hard or soft support swing frame and casting bed, better equipment stability, wide measurement speed range

★ The swing frame can move along the bed and stop at any position above the bed, so the equipment can balance any length of workpiece.

★ Install synchronous rotation scale markings for easy finding of unbalance angle.

★ Use frequency conversion speed regulation system to adjust the starting time of the equipment motor according to needs, easy to use



V. Confidentiality of Technical Information and Materials

1. This technical solution belongs to our company's technical information, and without permission, the information shall not be disseminated to third parties. Users shall be obligated to keep confidential the technical intelligence and information provided by us. This clause shall remain valid for a long time, regardless of whether this solution is adopted or not;
2. We also have confidentiality obligations for the technical information and materials provided by users.

VI. After-sales Service

The warranty period is one year from the date of acceptance, with lifelong maintenance. Within one year, all services are free of charge, including free on-site installation and debugging of new machines, and free training for operators.

1. The test equipment provided shall comply with the current national standards or industrial standards to ensure the technical progressiveness and reliability of the test

equipment;

2. Supply of required parts and accessories throughout the year;
3. Provide technical support for products all year round, provide solutions for product maintenance within 24 hours, and arrive on site within 48 hours if necessary;
4. The software is free to upgrade for life.

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