

YYQ-100 horizontal hard support balancing machine



I. Product Introduction

This series of horizontal hard-support balancing machines uses roller support and ring belt 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 made of solid casting 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 multiple measurement methods and functions to choose from, which can achieve parameter input, preview, test, result storage, printing, operation of all Chinese menu structures, human-computer dialogue, automatic prompts.

二、 Main Technical Parameters

- 1、 Workpiece quality range kg: 2-100
- 2、 Workpiece diameter mm: $\Phi 900$
- 3、 Distance between two supports mm: 80-1000
- 4、 Range of shaft diameter mm: $\Phi 10$ -140
- 5、 Diameter range of the drag area of the loop belt mm: $\Phi 30$ -300
- 6、 Balance speed r/min: 300-1500
- 7、 Minimum achievable residual unbalance gmm/kg: ≤ 0.5
- 8、 Imbalance reduction rate%: ≥ 90
- 9、 Motor power kw: 1.5
- 10、 Bed length: 1.5 m



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 unbalance amplitude and phase, high weight reduction rate and separation ratio, high sensitivity

★ The software has an unbalance calculator, and the operator only needs to enter the

vibration accuracy level, mass, working speed, and radius points of the workpiece, and then click the calculation button to obtain the allowable residual unbalance weight of the workpiece in grams

★ The software is completely self-developed and can be modified or added according to customer requirements

★ 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 marks for easy finding of unbalance angle.

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



IV. After-sales Service

Jinan Hengxu Testing Machine Technology Co., Ltd. adheres to the business philosophy of "people-oriented, honest and trustworthy; service is eternal, sustainable development", always putting the needs of customers first and integrating it into all aspects of product development, production, installation, sales and after-sales service.

1. Equipment quality assurance

Our company guarantees that all equipment is produced by the original factory as indicated in the bidding documents, that all equipment provided is brand new, that it meets national standards and contract requirements, and that it produces high-quality products that satisfy users. We will take full responsibility for the quality of products provided by our company and provide excellent service.

- (1) Free warranty period: 12 months
- (2) The calculation method for the free warranty period: after passing the acceptance inspection
- (3) The time for maintenance personnel to arrive at the scene after receiving the maintenance notice during the free warranty period: 24 hours
- (4) The required parts and accessories are available all year round.

2. Service during the warranty period of the product

(1) All products have a warranty period of 12 months from the date of qualified acceptance and signature, with lifelong maintenance. During the warranty period, free on-site maintenance is provided, and software is upgraded for free for life.

(2) When a user encounters a performance failure during normal use, they should respond within 2 hours after receiving a notification of the equipment failure and

provide a solution. If the problem cannot be resolved, a response will be provided within 24 hours and the issue will be resolved on-site within 48 hours until the equipment is functioning normally.

(3) During the free warranty period, the seller is responsible for all expenses incurred due to equipment quality issues.

(4) Guarantee that all equipment will be installed and commissioned within the time specified in the contract, and provided for the purchaser's normal use. Provide free Chinese instruction manuals and training on equipment use and management. Provide year-round technical support.

3. Service after the warranty period

If the equipment has exceeded the warranty period, the company will provide lifelong free maintenance, and only charge the cost of parts that need to be replaced.

(2) Provide timely and free upgrades of equipment software, provide free information on new features of equipment (such as equipment requiring upgrades), and provide related information technology and follow-up work.

(3) Equipment accessories and consumables are available at a discounted rate of 20% off the regular price all year round.

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