

YYW-5000 Hard-bearing Horizontal Dynamic Balancing Machine



一、 Purpose and characteristics

This series is a hard-bearing horizontal dynamic balancing machine, which uses roller support and universal joint drive. The ordinary type is driven by a two-speed motor, while the "A" type is driven by a variable frequency motor and a frequency converter for speed regulation. The data processing is performed by an industrial control computer, and the color screen displays the unbalance value, phase angle, and real-time speed in real time. The bed is made of monolithic casting for good stability. It is widely used in the industries of electric motors, blowers, diesel engines, agricultural machinery, textile machinery, etc. It can be used for balancing measurement on single, double, and

multiple correction surfaces, 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. The software has two calibration functions for ordinary workpieces and standard rotors, which overcome the defect that users of other hard-bearing balancing machine measurement systems have difficulty calibrating the equipment themselves. There are also various measurement methods and functions such as coupling compensation function for selection. Parameter input, preview, test, result storage, printing, operation are all implemented using a Chinese menu structure for human-computer interaction and automatic prompting.

2、 Function

1. Industrial control computer with 19-inch LCD color screen display
2. Widows Chinese and English system dual selection
3. Equipped with GB-2000 universal microcomputer balance measurement system
4. Fully automatic programmable amplification module
5. Arbitrary workpiece calibration function, arbitrary angle fixture compensation and workpiece information storage
6. Display of qualified quantity and adjustment of measurement cycle
7. Automatic signal amplification and manual amplification adjustment, signal self-checking, automatic diagnosis
8. Display vector graphics, waveform and unbalance simultaneously

9. The remaining unbalance g and unbalance torque $g \text{ cm}$, $g \text{ mm}$ can be displayed selectively

Optional Features

1. Automatic tracking function of balance angle
2. Automatic parking positioning function
3. Vector angle decomposition function
4. The bed can be lengthened according to user requirements
5. The support journal can be enlarged according to user requirements

III. Main Parameters

1. Workpiece quality range kg : 200-5000
2. Diameter of workpiece (mm): $\Phi 2400$
3. Distance between two supports mm : 340-2960
4. Shaft diameter range mm : $\Phi 40-180$, $\Phi 180-300$
5. Balanced speed r/min : 110-1170
6. Minimum achievable residual unbalance gmm/kg : ≤ 1
7. Reduction rate of unbalance amount (%) : ≥ 90
8. Motor power kw : 18.5
9. Speed regulation mode: frequency conversion speed regulation + four-speed mechanical transmission

IV 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 and text prompts for operation steps

★ The measuring system has powerful performance: arbitrary 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, and click on the calculation to obtain the grams of allowable residual imbalance of the workpiece

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

Mechanical parts and control

★ Hard or soft support swinging 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 rotating scale marks for easy finding of unbalance angle.

★ Use frequency control 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. Our company bears full responsibility for the quality of the products we provide and implements quality services.

(1) Free warranty period: 12 months

- (2) The free warranty period is calculated from the date of acceptance.
- (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 are subject to lifetime maintenance. During the warranty period, free on-site maintenance is provided and software is upgraded for free for life.

(2) When users encounter performance failures during normal use, they should respond within 2 hours after receiving notification of the equipment failure and provide a solution. If the problem cannot be resolved, a response will be provided within 24 hours, and personnel will arrive on-site within 48 hours to resolve the issue 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) Ensure that all equipment is installed and commissioned within the time specified in the contract, and is available for normal use by the purchaser.

Provide free Chinese instructions and training on the use and management of the equipment. Provide year-round technical support.

3. Services beyond the warranty period



(1) If the equipment's service life exceeds the warranty period, the company will provide lifelong free maintenance, and only charge the cost of replacing 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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