

FMAN MACHINERY



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Balance machine series products brochure

**FMAN
MACHINERY**



振动测试机

平衡机
系列产品

Balance machine series products

Fman Machinery (Shanghai) Co., Ltd

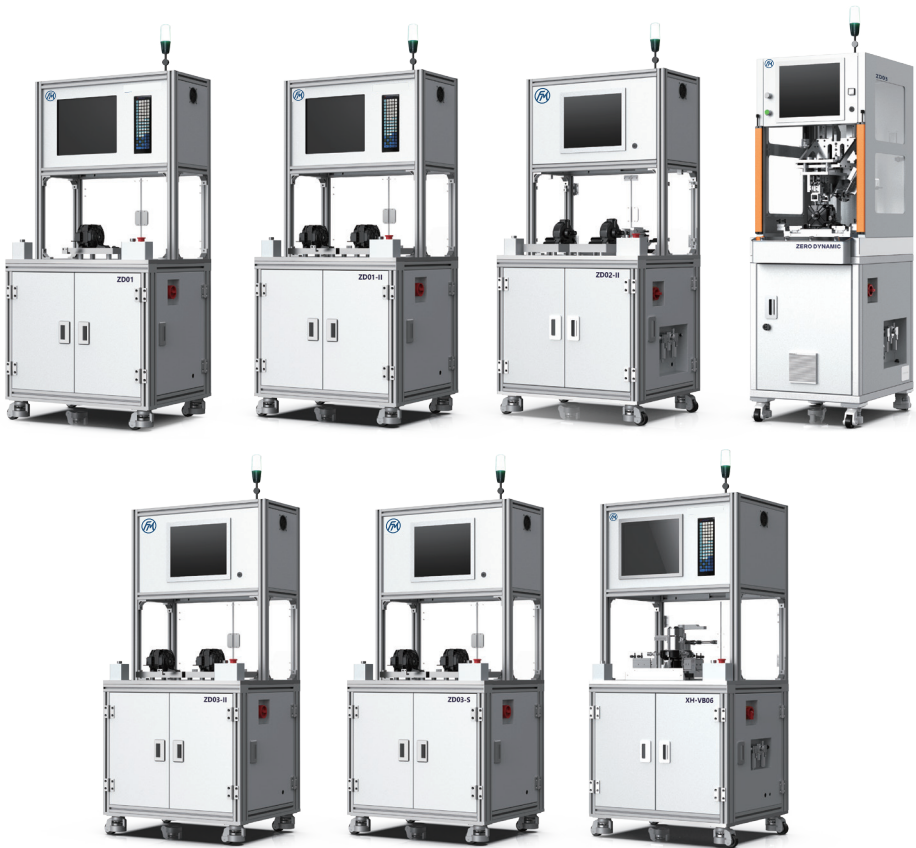
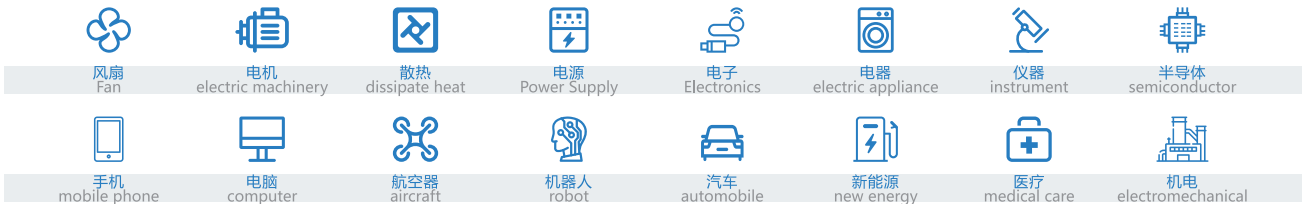
is a high-tech enterprise engaging in full automatic balancing technology and related vibration measurement. The company is a scientific and technological company with the integration of product research & development, product manufacturing, product sales, product agent and technical service. After twenty years of technology accumulation, Zero Dynamic has developed into a comprehensive enterprise integrating balancing machine manufacturing, automation equipment R&D and manufacturing and software development.

2026



夫曼机械（上海）有限公司
FMAN MACHINERY (SHANGHAI) CO., LTD

专注解决各类旋转零部件的动平衡问题
Focus on solving dynamic balancing problems of various rotating components



振动测试机

平衡机
系列产品

Balance machine series products

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公司简介 Company Profile



夫曼机械(上海)有限公司位于上海市,专业从事动平衡设备的研发、制造与技术服务。公司长期聚焦转子动平衡检测、平衡修正设备及非标自动化平衡解决方案,产品覆盖通用型平衡机、自动平衡机、重型平衡机、专用定制平衡设备及配套检测系统等多个系列。

公司与南京航空航天大学、江苏大学、华中科技大学等高校及科研单位保持技术合作,结合转子动力学理论、动平衡测试技术及工业现场应用经验,持续开展平衡检测设备、平衡生产自动线及在线测量设备的研发。公司产品注重测量精度、运行稳定性和操作便利性,可根据客户工件特性和工艺要求提供定制化解决方案。

Fman Machinery (Shanghai) Co., Ltd. is located in Shanghai and specializes in the R&D, manufacturing, and technical services of dynamic balancing equipment. The company has long focused on rotor dynamic balancing inspection, balancing correction equipment, and non-standard automated balancing solutions. Its products cover multiple series, including general-purpose balancing machines, automatic balancing machines, heavy-duty balancing machines, customized balancing equipment, and supporting inspection systems.

The company maintains technical cooperation with Nanjing University of Aeronautics and Astronautics, Jiangsu University, Huazhong University of Science and Technology, and other universities and research institutions. By combining rotor dynamics theory, dynamic balancing testing technology, and industrial application experience, the company continues to develop balancing inspection equipment, balancing production lines, and online measurement equipment. Its products emphasize measurement accuracy, operational stability, and ease of operation, and can provide customized solutions according to customers' workpiece characteristics and process requirements.

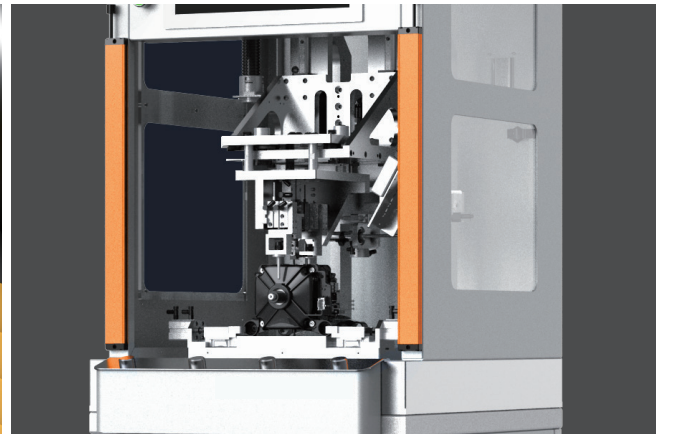
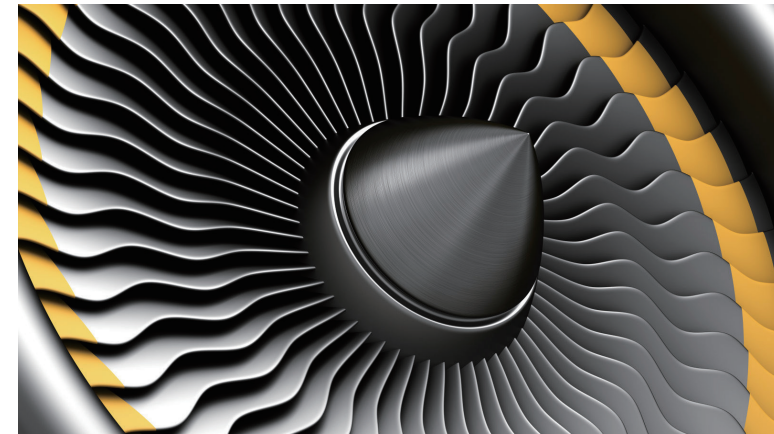
20 年+
技术经验

70 项+
专利荣誉

200 +
产品型号

3000 +
品牌客户

主营业务 Main Business



夫曼机械(上海)有限公司主要经营各类先进的动平衡检测设备、振动检测设备、现场动平衡校正仪、振动计、偏摆仪、各类传感器及配件等,产品主要涉及国家航天、航海、火车、汽车、电机、风机、空调、造纸机械、轻纺、化纤、机床、石化、印刷等行业。

Fman Machinery (Shanghai) Co., Ltd. primarily deals with various advanced dynamic balance testing equipment, vibration testing equipment, on-site dynamic balance calibrators, vibration meters, deflection meters, various sensors, and accessories. Its products are mainly used in industries such as national aerospace, navigation, trains, automobiles, motors, fans, air conditioning, paper machinery, textiles, industries such as chemical fiber, machine tools, petrochemicals, and more.

企业荣誉 Enterprise Honor

夫曼依托企业文化建设,增强企业凝聚力,促进企业的管理、形象、服务和环境达到现代化企业的标准,使夫曼在行业内的知名度有了很大的提升,成为行业内备受推崇的供应商。

Fman on the construction of corporate culture, Fman Machinery (Shanghai) Co., Ltd enhances the cohesion of the enterprise, promotes the management, image, service, and environment of the enterprise to meet the standards of modern enterprises, reputation in the industry, becoming a highly respected supplier in the industry.



产品简介

Product Introduction

主要适用于电机的振动测试。
Mainly suitable for vibration testing of motors.

- **高精高效：**模块化设计，结构紧凑；高灵敏度传感器，测量精准。
High precision and efficiency: Modular design, compact structure; High sensitivity sensor for precise measurement.
- **操作便捷：**自主研发测试软件，界面显示直观，可操作性强。
Convenient operation: Independently developed testing software with intuitive interface display and strong operability.
- **安全稳定：**自主知识产权，设备性能稳定，特殊产品可支持高度定制化方案。
Safe and stable: Independent intellectual property rights, stable equipment performance, and support for highly customized solutions for special products.

ZD01

技术参数

Technical parameter



项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	800*660*1680mm
节拍 Cycle time	≤12s(启动时间 7s+测试时 4s)，客户可配置兼容产品型号的测试时间 ≤ 12s (starting time 7s+testing time 4s), customers can configure the testing time for compatible product models
工作温度 Operation temperature	0-45℃
测量频率范围 Measurement frequency range	0-10kHz
量测精度 Measurement accuracy	5% (10-10kHz)
自动停机 automatic shutdown	软件测量结束信号 Software measurement end signal
加速度精密量测 Precision measurement of acceleration	0.000-1.999g, rms
位移精密量测 Precise displacement measurement	0-199.9μm, p-p
速度精密量测 Precision measurement of speed	0.00-19.99mm/s, 0-p
振动显示 Vibration display	加速度值，频谱分析 Acceleration value, spectral analysis
气源 Gas source	0.3-0.4Mpa
设备供电 Equipment power supply	220V/50Hz

一点振动性能测试机

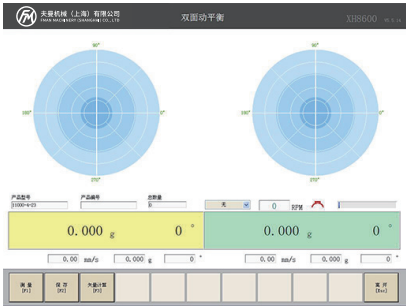
One point vibration performance testing machine

ZD01



软件界面

Software interface

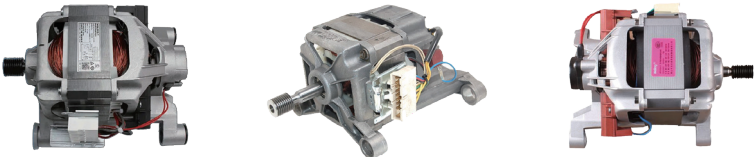


应用领域

Application fields

电机

Motors



产品简介Product Introduction

主要适用于电机的振动测试。
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ZD01-II
技术参数Technical parameter

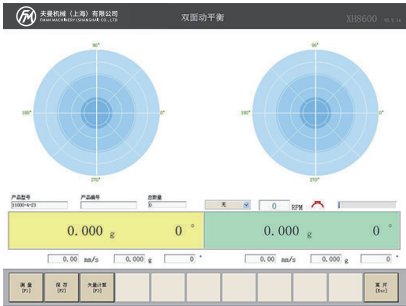


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	800*660*1680mm
节拍 Cycle time	≤12s(启动时间 7s+测试时 4s)，客户可配置兼容产品型号的测试时间 ≤ 12s (starting time 7s+testing time 4s), customers can configure the testing time for compatible product models
工作温度 Operation temperature	0-45℃
测量频率范围 Measurement frequency range	0-10kHz
量测精度 Measurement accuracy	5% (10-10kHz)
自动停机 automatic shutdown	软件测量结束信号 Software measurement end signal
加速度精密量测 Precision measurement of acceleration	0.000-1.999g, rms
位移精密量测 Precise displacement measurement	0-199.9μm, p-p
速度精密量测 Precision measurement of speed	0.00-19.99mm/s, 0-p
振动显示 Vibration display	加速度值，频谱分析 Acceleration value, spectral analysis
气源 Gas source	0.4-0.5Mpa
设备供电 Equipment power supply	220V/50Hz

一点振动性能测试机
One point vibration performance testing machine
ZD01-II



软件界面Software interface



应用领域Application fields

电机

Motors



产品简介Product Introduction

主要适用于电机的振动测试。
Mainly suitable for vibration testing of motors.

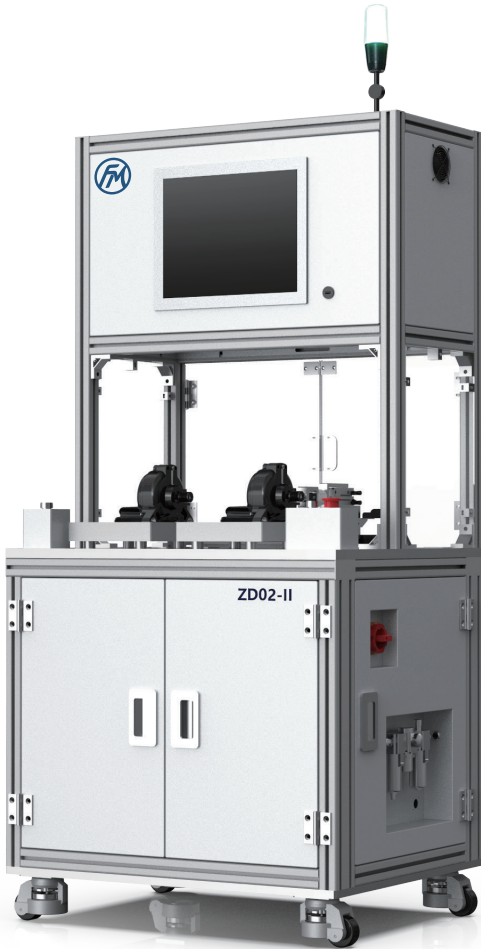
- **高精高效：**模块化设计，结构紧凑；高灵敏度传感器，测量精准。
High precision and efficiency: Modular design, compact structure; High sensitivity sensor for precise measurement.
- **操作便捷：**自主研发测试软件，界面显示直观，可操作性强。
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ZD02-II 技术参数Technical parameter

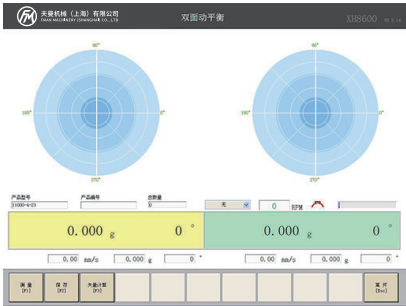


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	800*660*1680mm
节拍 Cycle time	≤12s（启动时间7s+测试时间4s）客户可配置兼容产品型号的测试时间 ≤ 12s (startup time 7s+testing time 4s) Customers can configure the testing time for compatible product models
工作温度 Operation temperature	0-45℃
测量频率范围 Measurement frequency range	0-10kHz
量测精度 Measurement accuracy	5%（10-10kHz）
自动停机 automatic shutdown	软件测量结束信号 Software measurement end signal
加速度精密量测 Precision measurement of acceleration	0.000-1.999g, rms
位移精密量测 Precise displacement measurement	0-199.9μm, p-p
速度精密量测 Precision measurement of speed	0.00-19.99mm/s, 0-p
振动显示 Vibration display	加速度值，频谱分析 Acceleration value, spectral analysis
驱动方式 Drive mode	自驱动（客户自备驱动板） Self driving (customer provided driver board)
频谱分析功能 Spectrum analysis function	1/3倍频谱 1/3 octave spectrum
安全防护 safety protection	半封闭 Half closure
气源 Gas source	0.4-0.5Mpa
设备供电 Equipment power supply	220V/50Hz

两点振动性能测试机
Two point vibration performance testing machine
ZD02-II



软件界面Software interface



应用领域Application fields

电机

Motors



产品简介

Product Introduction

主要适用于电机的振动测试。
Mainly suitable for vibration testing of motors.

- **高精高效：**模块化设计，结构紧凑；高灵敏度传感器，测量精准。

High precision and efficiency: Modular design, compact structure; High sensitivity sensor for precise measurement.
- **操作便捷：**自主研发测试软件，界面显示直观，可操作性强。

Convenient operation: Independently developed testing software with intuitive interface display and strong operability.
- **安全稳定：**自主知识产权，设备性能稳定，特殊产品可支持高度定制化方案。

Safe and stable: Independent intellectual property rights, stable equipment performance, and support for highly customized solutions for special products.

ZD03

技术参数

Technical parameter

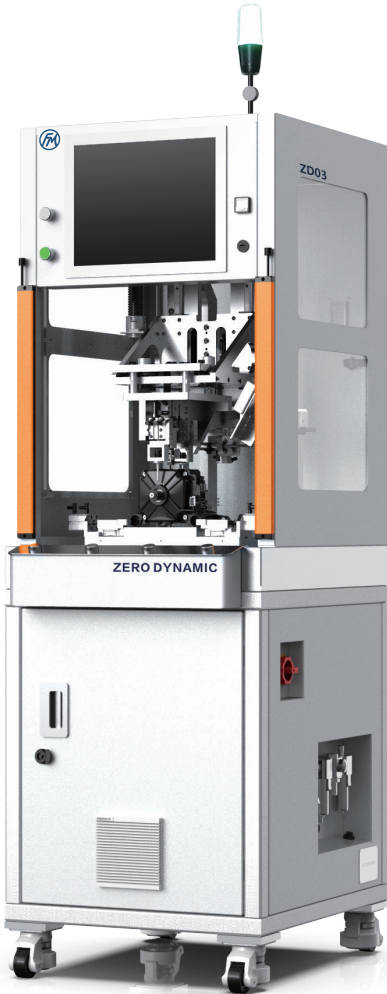


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	600*800*1800mm
节拍 Cycle time	40s
工作温度 Operation temperature	0-45℃
测量频率范围 Measurement frequency range	0-10kHz
量测精度 Measurement accuracy	5% (10-10kHz)
自动停机 automatic shutdown	软件测量结束信号 Software measurement end signal
加速度精密量测 Precision measurement of acceleration	0.000-1.999g, rms
位移精密量测 Precise displacement measurement	0-199.9μm, p-p
速度精密量测 Precision measurement of speed	0.00-19.99mm/s, 0-p
振动显示 Vibration display	加速度值，频谱分析 Acceleration value, spectral analysis
驱动方式 Drive mode	自驱动（客户自备驱动板） Self driving (customer provided driver board)
频谱分析功能 Spectrum analysis function	1/3倍频谱 1/3 octave spectrum
安全防护 safety protection	半封闭 Half closure
气源 Gas source	0.4-0.5Mpa
设备供电 Equipment power supply	220V/50Hz

三点振动性能测试机

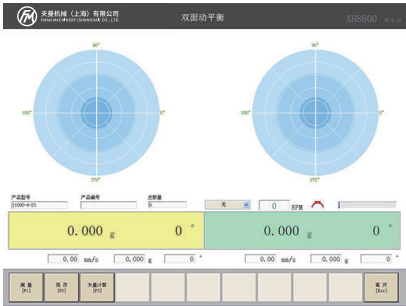
Three point vibration performance testing machine

ZD03



软件界面

Software interface

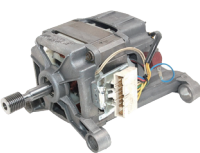
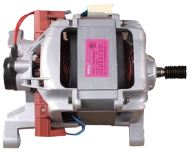


应用领域

Application fields

电机

Motors



产品简介Product Introduction

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ZD03-II
技术参数Technical parameter



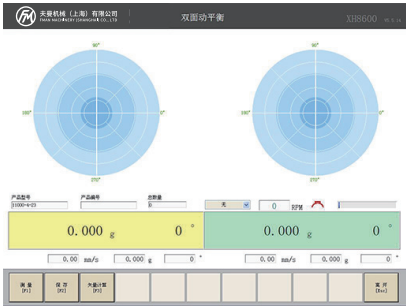
项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	800*660*1680mm
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位移精密量测 Precise displacement measurement	0-199.9μm, p-p
速度精密量测 Precision measurement of speed	0.00-19.99mm/s, 0-p
振动显示 Vibration display	加速度值，频谱分析 Acceleration value, spectral analysis
驱动方式 Drive mode	自驱动（客户自备驱动板） Self driving (customer provided driver board)
频谱分析功能 Spectrum analysis function	1/3倍频谱 1/3 octave spectrum
安全防护 safety protection	半封闭 Half closure
气源 Gas source	0.4-0.5Mpa
设备供电 Equipment power supply	220V/50Hz

三点振动性能测试机
Three point vibration performance testing machine
ZD03-II



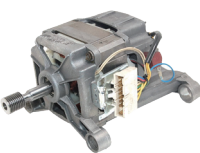
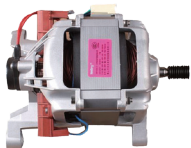
注：设备外观以实际为准
支持高度定制化方案

软件界面Software interface



应用领域Application fields

电机Motors



产品简介Product Introduction

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Mainly suitable for vibration testing of motors.

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ZD03-S
技术参数Technical parameter



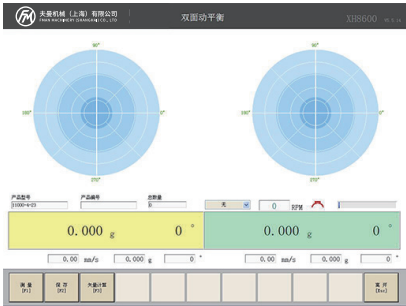
项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	800*660*1680mm
节拍 Cycle time	40s
工作温度 Operation temperature	0-45℃
测量频率范围 Measurement frequency range	0-10kHz
量测精度 Measurement accuracy	5% (10-10kHz)
自动停机 automatic shutdown	软件测量结束信号 Software measurement end signal
加速度精密量测 Precision measurement of acceleration	0.000-1.999g, rms
位移精密量测 Precise displacement measurement	0-199.9μm, p-p
速度精密量测 Precision measurement of speed	0.00-19.99mm/s, 0-p
振动显示 Vibration display	加速度值，频谱分析 Acceleration value, spectral analysis
驱动方式 Drive mode	自驱动（客户自备驱动板） Self driving (customer provided driver board)
频谱分析功能 Spectrum analysis function	1/3倍频谱 1/3 octave spectrum
安全防护 safety protection	半封闭 Half closure
气源 Gas source	0.4-0.5Mpa
设备供电 Equipment power supply	220V/50Hz

风机振动检测仪
Fan vibration detector
ZD03-S



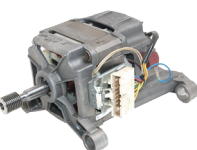
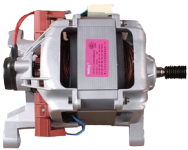
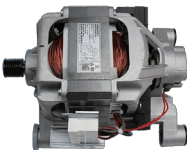
注：设备外观以实际为准
支持高度定制化方案

软件界面Software interface



应用领域Application fields

电机
Motors



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- **操作便捷：** 自主研发测试软件，界面显示直观，可操作性强。
Convenient operation: Independently developed testing software with intuitive interface display and strong operability.
- **安全稳定：** 自主知识产权，设备性能稳定，特殊产品可支持高度定制化方案。
Safe and stable: Independent intellectual property rights, stable equipment performance, and support for highly customized solutions for special products.

XH-VB06
技术参数 Technical parameter

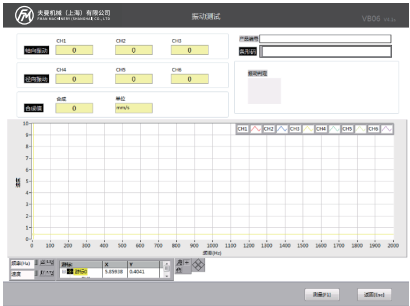


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	800*660*1680mm
输入通道 Input channel	六模拟加速度传感器（最大10V，10mA） Six analog acceleration sensors (maximum 10V, 10mA)
输入参数 Input parameter	10-1000Hz 振动总量×6点 10-1000Hz total vibration x 6 points
FFT频谱分析 FFT spectrum analysis	40kHz, ISO2954
传感器 Sensor	100mV/g 加速度传感器 100mV/g accelerometer
数据采集卡 Data acquisition card	BV expert 八通道集成 BV Expert Eight Channel Integration
安全防护 safety protection	有机玻璃防护门 Organic glass protective door
气源 Gas source	≥0.4Mpa
设备供电 Equipment power supply	220V/50Hz

六点振动性能测试机
Six point vibration performance testing machine
XH-VB06



软件界面 Software interface



应用领域 Application fields

电机
Motors



合作伙伴Cooperative partner



定制化解决方案Customized solutions

夫曼机械(上海)有限公司始终坚守“聚焦动平衡服务”这一宗旨,具备高水平的专业研发团队,承接各种动平衡机的改造升级以及定制化设计,有能力也有意愿为客户提供合理化平衡振动技术方案。至今已与国内外超过3000家客户达成合作,凭借卓越品质赢得全球客户的信赖。

Fman Machinery (Shanghai) Co., Ltd. always adheres to the principle of "focusing on dynamic balancing services", has a high-level professional R&D team, undertakes the transformation and upgrading of various dynamic balancing machines and customized design, and has the ability and willingness to provide customers with rational balancing vibration technology solutions. Up to now, we have established partnerships with over 3000 customers both domestically and internationally, earning the trust of global customers with outstanding quality.

定制服务流程Customized service process

动平衡全面解决方案一站式服务。

秉持“以客户为中心”的经营理念,致力于为客户提供人员培训、设备调试、配件供应、定期维护、软件升级以及故障维修等全方位服务。

Comprehensive solution for dynamic balancing, one-stop service.

Adhering to the business philosophy of "customer-centric", we are committed to providing customers with comprehensive services such as personnel training, equipment debugging, parts supply, regular maintenance, software upgrades, and troubleshooting.



技术服务优势 Technical service advantages

公司拥有高水平的技术团队,包含高专业水平的平衡技术及振动分析工程人员、自动化设备研发工程师、优秀的售后服务工程师等，承接各种动平衡机的改造及升级，开展振动相关业务咨询、提供合理化平衡振动技术方案，为客户提供复杂工件的现场平衡与振动分析等。

The company has a high level technical team, including professional balancing technology and vibration analysis engineers, automatic equipment R&D engineers, excellent after-sales service engineers, etc. The company also can undertake the transformation and upgrading of various dynamic balancing machines, carry out vibration-related business consulting, provide balancing and vibration technology solutions, and provide customers with field balancing and vibration analysis of complex workpieces, etc.

掌握多项核心技术
Master multiple core technologies

研发团队占比超三分之一
The R&D team accounts for over one-third

多项发明和实用新型专利及软件著作权
Multiple invention and utility model patents, as well as software copyrights

及时解决关键问题
Timely resolution of key issues

技术服务团队与研发团队深度配合
Deep cooperation between technical service team and R&D team

满足客户定制化需求
Meet customer customization needs

提供整套解决方案
Provide a complete solution

与各大供应商建立广泛且紧密的合作关系
Establish extensive and close cooperative relationships with major suppliers

全力保障设备配给
Fully guarantee equipment allocation

7×24小时服务
24/7 service

快速响应，7×24小时远程技术服务
Quick response, 7 × 24-hour remote technical service

保障客户生产节点
Ensure customer production milestones

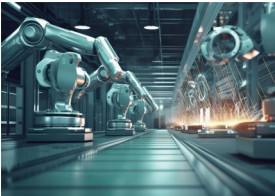
行业案例 Industry Cases



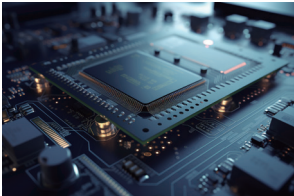
汽车发电机



智能家电



工业机电



半导体



高铁动车

二十年持续聚焦动平衡领域

20 years of continuous focus on the field of dynamic balance

行业领先的动平衡测试制程解决方案供应商

Industry leading supplier of dynamic balance testing process solutions

夫曼机械（上海）有限公司
FMAN MACHINERY (SHANGHAI) CO., LTD

专注动平衡技术 / 解决各类动平衡问题 / 提供合理化平衡振动技术方案
Focus on dynamic balancing technology/solve various dynamic balancing problems/provide rational balancing vibration technology solutions

振动测试机全套方案供应商

A complete solution provider for vibration testing machine



专注高速平衡 深耕细分领域

行业解决方案
Industry Solutions

风扇
Fan

电机
electric machinery

散热
dissipate heat

电源
Power Supply

电子
Electronics

电器
electric appliance

仪器
instrument

半导体
semiconductor

手机
mobile phone

电脑
computer

航空器
aircraft

机器人
robot

汽车
automobile

新能源
new energy

医疗
medical care

机电
electromechanical