

FMAN MACHINERY

**FMAN
MACHINERY**



新能源电机

**平衡机
系列产品**

Balance machine series products



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Fman Machinery (Shanghai) Co., Ltd

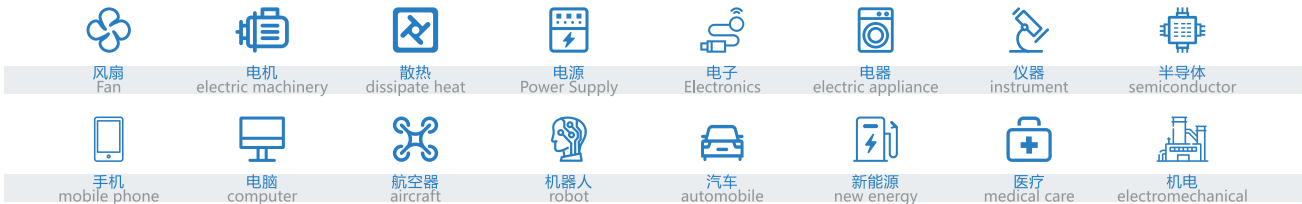
is a high-tech enterprise engaging in full automatic balancing technology and related vibration measurement. The company is a scientific and technological company with the integration of product research & development, product manufacturing, product sales, product agent and technical service. After twenty 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.

Balance machine series products brochure

2026



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



新能源电机

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.

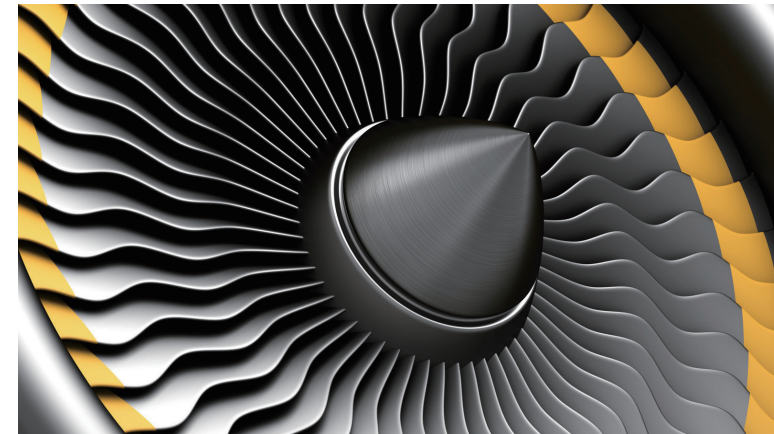
20 年+
技术经验

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.

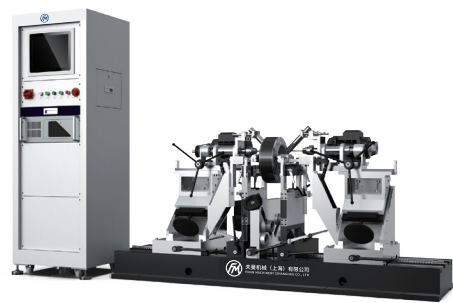


产品简介Product Introduction

主要适用于通用电机转子及滚筒类等产品的动平衡测试。
Mainly suitable for dynamic balance testing of general motor rotors and drum products.

- ▶ **高精度：**合格范围判定，测量精度高。
High precision: Qualified range determination, high measurement accuracy.
- ▶ **操作便捷：**通用性强，调节方便；无需重复标定；模块化结构，升级方便灵活。
Easy to operate: Strong universality and easy adjustment; No need for repeated calibration; Modular structure, easy and flexible upgrade.
- ▶ **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-160/300QM
技术参数Technical parameter

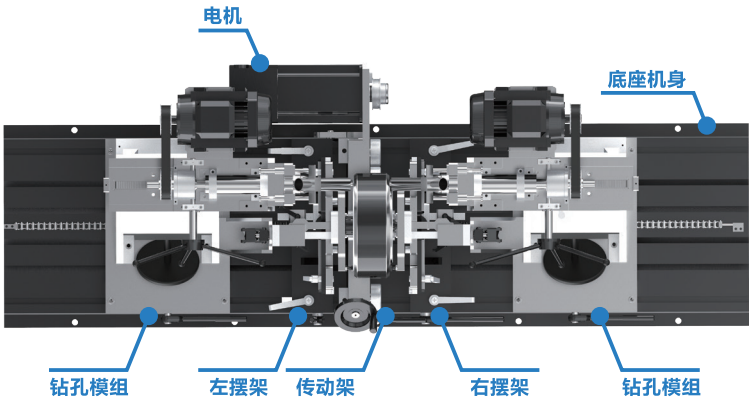


项目明细 Project Details	参数范围 Parameter Range
最大转子重量 Maximum rotor weight	300kg
最大转子直径 Maximum rotor diameter	1200mm
轴颈支承范围 Cross-rod support range	10-70mm
可扩展轴颈支承范围 Expandable cross-rod support range	70-140mm
平衡转速 Balancing speed	220-3800rpm
不平衡量减少率 Reduction rate of unbalance	URR≥95%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤0.5g.mm/kg
驱动方式 Drive mode	皮带驱动 belt transmission
驱动功率 Drive power	3kw
设备供电 Equipment power supply	三相五线380V AC Three phase five wire 380V AC

单工位转子手动去重平衡机
Single station rotor manual de balancing machine
XH-160/300QM



模组示意Module schematic



应用领域Application fields

通用电机转子
Universal motor rotor

滚筒等
Roller, etc

产品简介Product Introduction

主要适用于新能源电机转子的动平衡检测。
Mainly suitable for dynamic balance detection of rotors in new energy motors.

- **高精高效：**满足ISO1940 G1标准；自动/半自动可选择；自动铁屑收集系统；适合大叠厚/长轴类产品，可轴向打孔；适合多品种，大批量生产，换型方便。

High precision and efficiency: Meet the ISO1940 G1 standard; Automatic/semi-automatic selectable; Automatic iron chip collection system; Suitable for large stack thickness/long axis products, capable of axial drilling; Suitable for multiple varieties, large-scale production, and easy changeover.
- **操作便捷：**集动平衡检测、数据存储、合格范围判别、自动去重钻孔、测量结果上传等功能于一体；配有交流伺服电机，机械主轴、电主轴以及电机整机的动平衡都可以在同一台设备上完成。

Easy to operate: Integrating functions such as dynamic balance detection, data storage, qualified range discrimination, automatic de duplication drilling, and measurement result uploading; Equipped with an AC servo motor, the dynamic balancing of the mechanical spindle, electric spindle, and the entire motor can be completed on the same device.

XH-8615A
技术参数Technical parameter

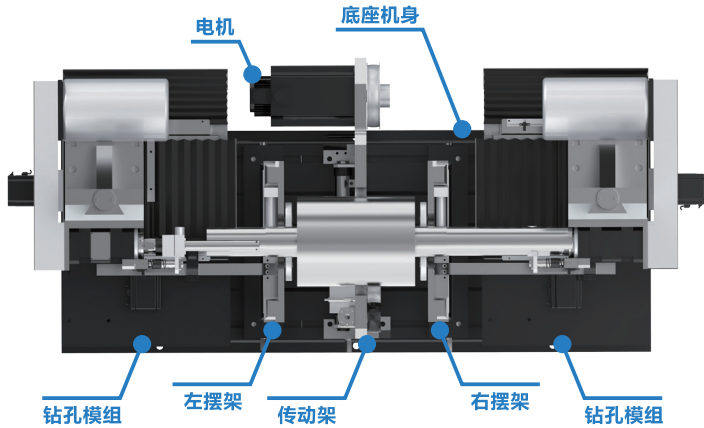
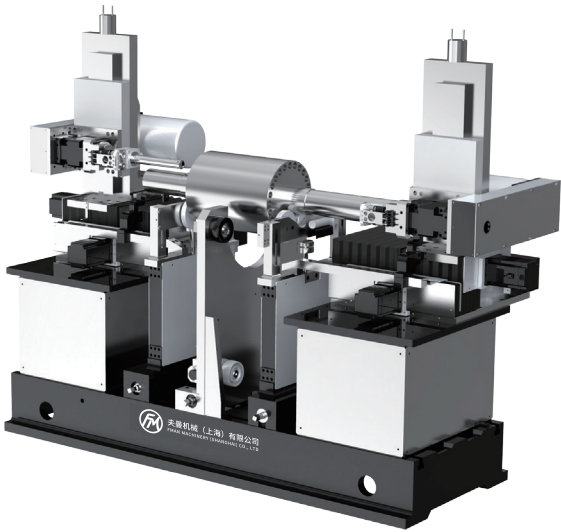


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	2700*1300*1900mm
节拍 Cycle time	90-120s
支架架允许支承轴径范围 Allowable range of supporting shaft diameter for the support frame	Φ20-80mm
允许夹持转子直径范围 Allow clamping of rotor diameter range	Φ130-300mm
允许支承转子总长度 Allow to support the total length of the rotor	≤600mm
支承距离调节范围 Range of support distance adjustment	200-540mm
允许钻孔最大直径 Maximum allowable drilling diameter	Φ16mm
最大转子质量 Maximum rotor mass	≤20kg
平衡转速 Balancing speed	1000-6000rpm
平衡显示精度 Balance display accuracy	0.1mg
不平衡量减少率 Reduction rate of unbalance	URR≥90%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤0.1g.mm/kg
驱动方式 Drive mode	皮带驱动 belt transmission
设备供电 Equipment power supply	三相五线380V AC Three phase five wire 380V AC

单工位转子自动去重平衡机
Single station rotor automatic de balancing machine
XH-8615A



模组示意Module schematic



应用领域Application fields

汽车类产品
Automotive products

电机类产品
Motor products

家电类产品
Home appliances products

环境电类产品
Environmental electrical products

产品简介Product Introduction

主要适用于水泵、变速器转子、洗衣机、电动工具、新能源汽车等电机转子的自动平衡修正。
Mainly suitable for automatic balance correction of motor rotors in water pumps, transmission rotors, washing machines, power tools, new energy vehicles, and other applications.

- **高精度：**软支撑结构设计，高精度测量系统，高抗振性，重复测量精度高。

High precision: Soft support structure design, high-precision measurement system, high seismic resistance, and high repeatability measurement accuracy.
- **高效率：**自动化程度高，无需重新定标，设置简便；铁屑自动收集系统。

High efficiency: high degree of automation, no need for recalibration, easy to set up; Automatic collection system for iron filings.
- **操作便捷：**支持数据MES上传功能；振幅显示功能；支持条形码输入，可追溯性强。

Easy to operate: High degree of automation, no need for recalibration, easy to set up; Support data MES upload function; Amplitude display function; Supports barcode input with strong traceability; Automatic collection system for iron filings.
- **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；出现故障，自动报警停机。

Safe and stable: With independent intellectual property rights and stable equipment performance, special products can support highly customized solutions; Automatic alarm and shutdown in case of malfunction.

XH-8605A II
技术参数Technical parameter

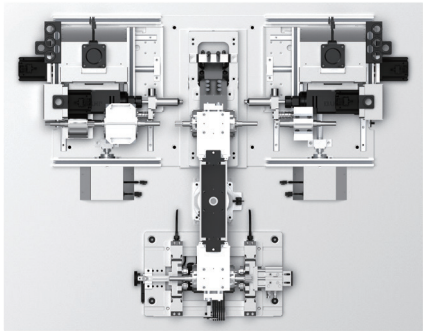


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	1480*1200*1800mm
节拍 Cycle time	40-45s
转子叠厚范围 Range of rotor stack thickness	50-200mm
转子直径范围 Range of rotor diameter	Φ40-120mm
转子质量范围 Range of rotor quality	1-5kg
平衡转速 Balancing speed	1200-3000rpm
动平衡修正方式 Balance correction method	钻孔 Drill hole
平衡显示精度 Balance display accuracy	0.1mg
不平衡量减少率 Reduction rate of unbalance	URR≥95%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤0.1g.mm/kg
驱动方式 Drive mode	皮带驱动 belt transmission
设备供电 Equipment power supply	三相五线380V AC Three phase five wire 380V AC

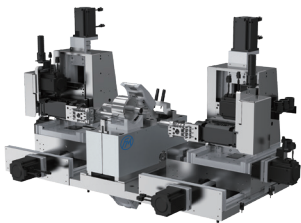
两工位转子自动去重平衡机
Two station rotor automatic de balancing machine
XH-8605A II



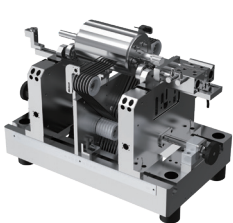
模组示意Module schematic



搬运模组
Transport module

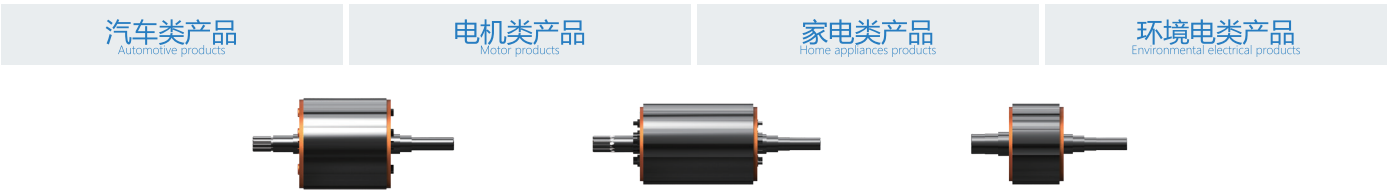


切削模组
Cutting module



测试模组
Test module

应用领域Application fields



产品简介Product Introduction

主要适用于水泵、变速器转子、洗衣机、电动工具、新能源汽车等电机转子的自动平衡修正。
Mainly suitable for automatic balance correction of motor rotors in water pumps, transmission rotors, washing machines, power tools, new energy vehicles, and other applications.

- **高精度：**软支撑结构设计，高精度测量系统，高抗振性，重复测量精度高。
High precision: Soft support structure design, high-precision measurement system, high seismic resistance, and high repeatability measurement accuracy.
- **高效率：**自动化程度高，无需重新定标，设置简便；铁屑自动收集系统。
High efficiency: high degree of automation, no need for recalibration, easy to set up; Automatic collection system for iron filings.
- **操作便捷：**支持数据MES上传功能；振幅显示功能；支持条形码输入，可追溯性强。
Easy to operate: High degree of automation, no need for recalibration, easy to set up; Support data MES upload function; Amplitude display function; Supports barcode input with strong traceability; Automatic collection system for iron filings.
- **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；出现故障，自动报警停机。
Safe and stable: With independent intellectual property rights and stable equipment performance, special products can support highly customized solutions; Automatic alarm and shutdown in case of malfunction.

XH-8610A II
技术参数Technical parameter

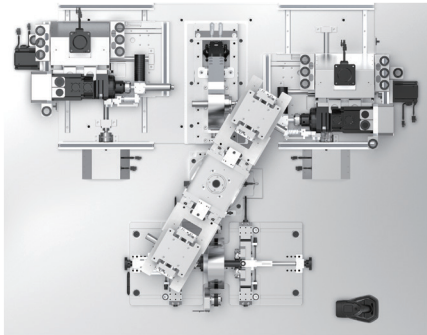


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	1680*1450*1800mm
节拍 Cycle time	40-45s
转子叠厚范围 Range of rotor stack thickness	50-200mm
转子直径范围 Range of rotor diameter	Φ80-240mm
转子质量范围 Range of rotor quality	10-20kg
平衡转速 Balancing speed	1000-2500rpm
动平衡修正方式 Balance correction method	钻孔 Drill hole
平衡显示精度 Balance display accuracy	0.1mg
不平衡量减少率 Reduction rate of unbalance	URR≥95%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤0.2g.mm/kg
驱动方式 Drive mode	皮带驱动 belt transmission
设备供电 Equipment power supply	三相五线380V AC Three phase five wire 380V AC

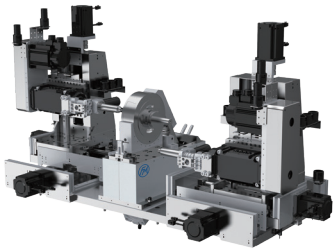
两工位转子自动去重平衡机
Two station rotor automatic de balancing machine
XH-8610A II



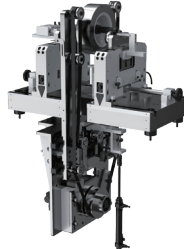
模组示意Module schematic



搬运模组
Transport module

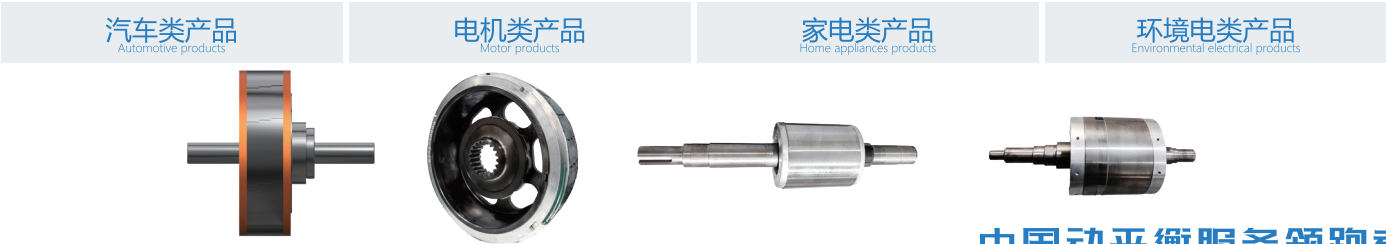


切削模组
Cutting module



测试模组
Test module

应用领域Application fields



产品简介 Product Introduction

主要适用于塑料、铝合金扇叶及转子类的动平衡测试。
Mainly suitable for dynamic balance testing of plastic, aluminum alloy fan blades and rotors.

- ▶ **高精度：**数据采集系统，抗干扰性强、稳定性高、测量准确。
High precision: The data acquisition system has strong anti-interference ability, high stability, and accurate measurement.
- ▶ **高效率：**工控机测量系统，通用性强，调节方便。
High efficiency: The industrial computer measurement system has strong universality and easy adjustment.
- ▶ **操作便捷：**通过伺服电机皮带传动进行测量，操作简单易懂。测量传感器采用加速度传感器作为信号源，体积小、线性好、免维护、寿命长。
Easy to operate: Measurement is carried out through servo motor belt transmission, and the operation is simple and easy to understand. The measurement sensor uses an accelerometer as the signal source, which is small in size, has good linearity, is maintenance free, and has a long lifespan.
- ▶ **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-4800
技术参数 Technical parameter

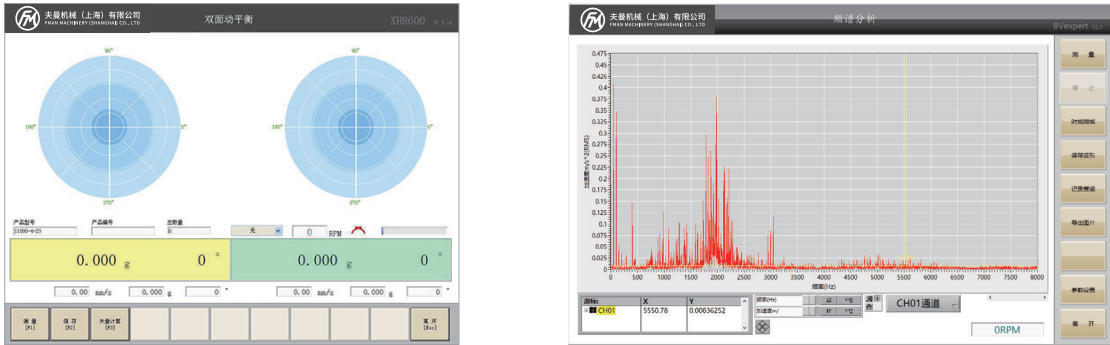


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	500*450*760mm
工件直径范围 Range of workpiece diameter	Φ20-120mm
工件质量范围 Range of workpiece quality	0.2-3kg
两支承间距离 Distance between two supports	60-320mm
滚轮支承轴颈范围 Roller support journal range	Φ6-25mm
不平衡量减少率 Reduction rate of unbalance	URR≥95%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤0.3g.mm/kg
驱动方式 Drive mode	平皮带 Flat belt
设备供电 Equipment power supply	220V/50Hz

高精度双面软支承平衡机
High precision double-sided soft support balancing machine
XH-4800



软件界面 Software interface



应用领域 Application fields

塑料、铝合金扇叶及转子类产品
Various horizontal products



产品简介 Product Introduction

主要适用于各种风机外转子的立式双面自动平衡。
Mainly suitable for vertical double-sided automatic balancing of various fan external rotors.

- **高精高效：**高精度测量系统，高抗振性，重复测量精度高；自动双面钻铣去重、吸尘。
High precision and efficiency: high-precision measurement system, high anti vibration performance, high repeated measurement accuracy; Automatic double-sided drilling and milling for weight removal and vacuuming.
- **操作便捷：**软件具有平衡测试、数据存储及打印、合格判定后的数据统计、频谱分析系统、轴向以及径向振动测试系统、CCD视觉系统、激光校正打标系统、MES数据上传系统等功能。（注：以上所有功能按不同类型产品选择配置）
Easy to operate: The software has functions such as balance testing, data storage and printing, data statistics after qualification judgment, spectrum analysis system, axial and radial vibration testing system, CCD vision system, laser correction marking system, MES data uploading system, etc. (Note: All the above functions are configured according to different types of products)
- **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-7605AL
技术参数 Technical parameter

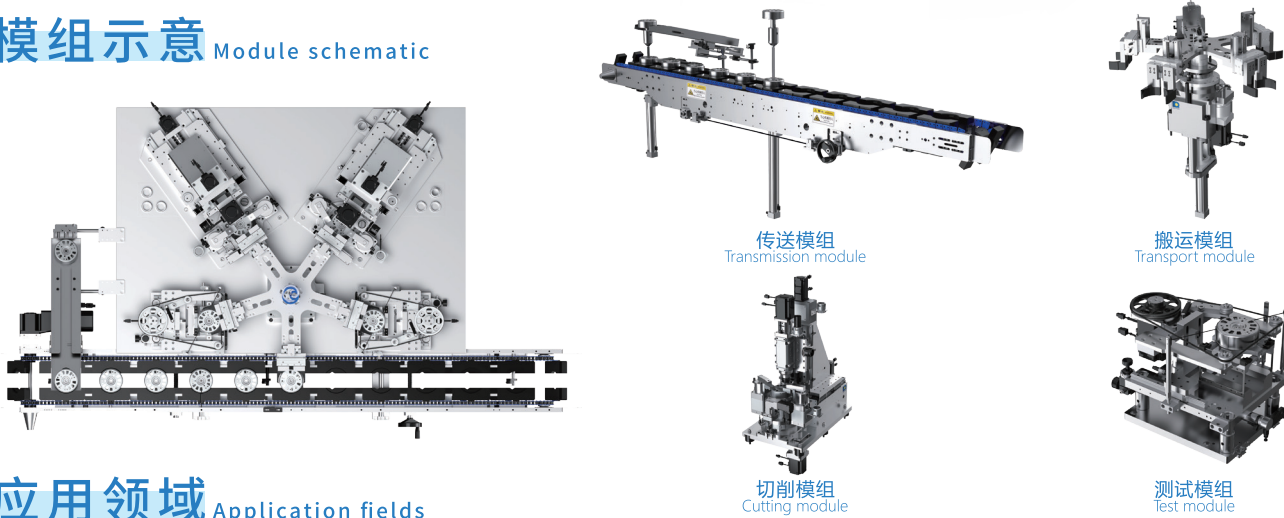


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	2450*1400*1800mm
节拍 Cycle time	≤45s
转子叠厚范围 Range of rotor stack thickness	30-50mm
转子直径范围 Range of rotor diameter	Φ80-130mm
转子质量范围 Range of rotor quality	0.2-1kg
平衡转速 Balancing speed	1200-3200rpm
动平衡修正方式 Balance correction method	环铣 Ring milling
平衡显示精度 Balance display accuracy	1mg
不平衡量减少率 Reduction rate of unbalance	URR≥90%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤1g.mm/kg
驱动方式 Drive mode	皮带驱动 belt transmission
设备供电 Equipment power supply	三相五线380V AC Three phase five wire 380V AC

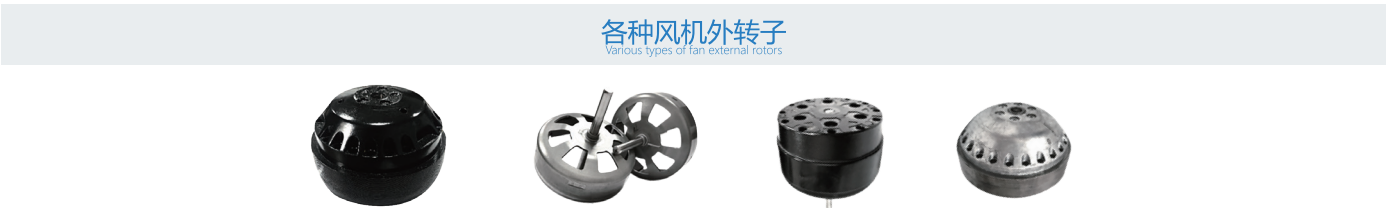
五工位外转子全自动平衡机
Five station external rotor fully automatic balancing machine
XH-7605AL



模组示意 Module schematic



应用领域 Application fields



产品简介Product Introduction

主要适用于各种风机外转子的立式双面自动平衡修正。
Mainly suitable for vertical double-sided automatic balancing correction of various fan external rotors.

- **高精高效：**测量精度高，集双面动平衡检测、去重于一体；可配合产线机器人取放料；自动化程度高，无需重新定标，设置简便；铁屑自动收集系统。
High precision and efficiency: high measurement accuracy, integrating double-sided dynamic balance detection and deduplication; Can cooperate with production line robots to pick up and place materials; High degree of automation, no need for recalibration, easy to set up; Automatic collection system for iron filings
- **操作便捷：**支持数据存储及打印；合格判定后的数据统计、频谱分析系统、轴向以及径向振动测试系统CCD、视觉系统、激光校正打标系统、MES数据上传系统等。
Easy to operate: High degree of automation, no need for recalibration, easy to set up; Support data MES upload function; Amplitude display function; Supports barcode input with strong traceability; Automatic collection system for iron filings.
- **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；出现故障，自动报警停机。
Safe and stable: With independent intellectual property rights and stable equipment performance, special products can support highly customized solutions; Automatic alarm and shutdown in case of malfunction.

XH-8602AG
技术参数Technical parameter

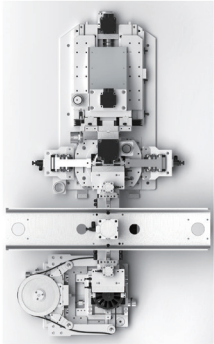


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	850*1350*1850mm
节拍 Cycle time	≤45s
转子叠厚范围 Range of rotor stack thickness	30-50mm
转子直径范围 Range of rotor diameter	Φ80-130mm
转子质量范围 Range of rotor quality	0.2-1kg
平衡转速 Balancing speed	1200-3200rpm
动平衡修正方式 Balance correction method	环铣 Ring milling
平衡显示精度 Balance display accuracy	1mg
不平衡量减少率 Reduction rate of unbalance	URR≥90%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤1g.mm/kg
驱动方式 Drive mode	皮带驱动 belt transmission
设备供电 Equipment power supply	220V/50Hz

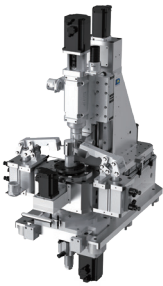
两工位外转子自动平衡机
Two station outerrotor automatic balancing machine
XH-8602AG



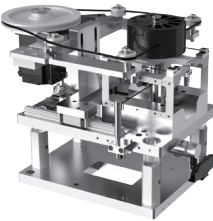
模组示意Module schematic



搬运模组
Transport module



去重模组
De duplication module



测试模组
Test module

应用领域Application fields

各种风机外转子
Various types of fan external rotors



产品简介Product Introduction

主要适用于水泵、变速器转子、洗衣机、电动工具、新能源汽车等电机转子的平衡测试。
Mainly suitable for balance testing of motor rotors such as water pumps, transmission rotors, washing machines, power tools, and new energy vehicles.

- **高精高效：**高精度测量系统，高抗振性，重复测量精度高；自动化程度高。
High precision and efficiency: High-precision measurement system, high anti vibration performance, high repeated measurement accuracy; High degree of automation.
- **操作便捷：**通用性强，调节方便；无需重复标定；模块化结构，升级方便灵活。
Easy to operate: Strong universality and convenient adjustment; No need for repeated calibration; Modular structure, easy and flexible upgrade.
- **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: With independent intellectual property rights and stable equipment performance, special products can support highly customized solutions.

XH-8605B
技术参数Technical parameter

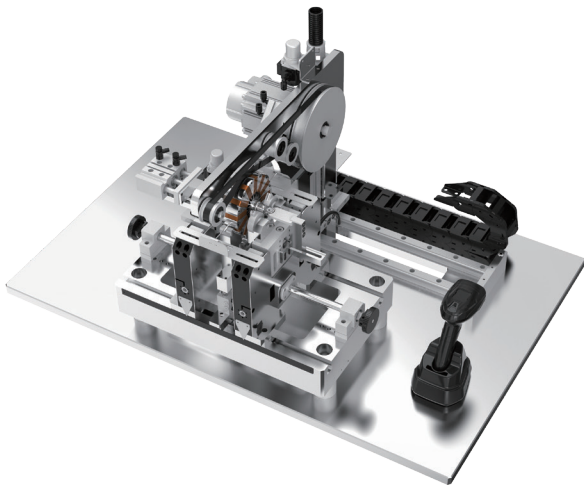
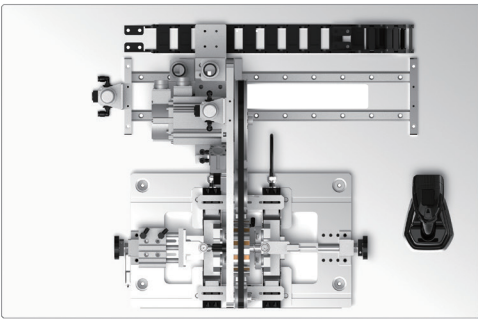


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	1170*850*1800mm
节拍 Cycle time	40-45s
转子叠厚范围 Range of rotor stack thickness	50-200mm
转子直径范围 Range of rotor diameter	Φ40-120mm
转子质量范围 Range of rotor quality	1-5kg
平衡转速 Balancing speed	1200-3000rpm
动平衡修正方式 Balance correction method	钻孔 Drill hole
平衡显示精度 Balance display accuracy	0.1mg
不平衡量减少率 Reduction rate of unbalance	URR≥95%
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤0.1g.mm/kg
驱动方式 Drive mode	皮带驱动 belt transmission
设备供电 Equipment power supply	三相五线380V AC Three phase five wire 380V AC

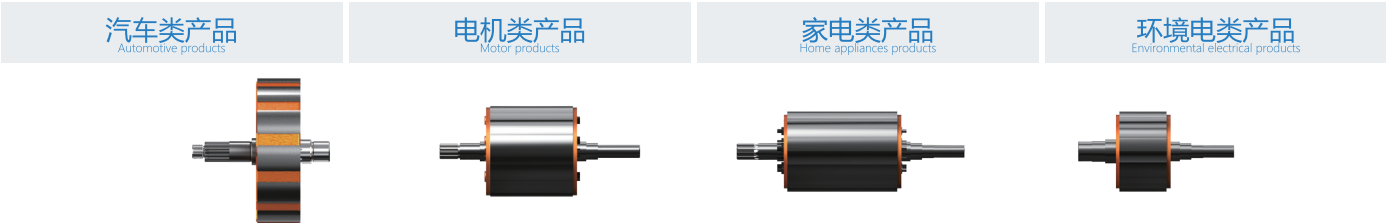
新能源转子测试机
New energy rotor testing machine
SDK-8605B



模组示意Module schematic



应用领域Application fields



产品简介Product Introduction

主要适用于飞轮、皮带轮、制动鼓、齿轮、离合器、法兰、行星架、差速器壳、刹车盘、水泵叶轮、法兰盘、拽引轮等盘类转子的自动平衡修正。

Mainly suitable for automatic balance correction of disc rotors such as flywheels, pulleys, brake drums, gears, clutches, flanges, planetary carriers, differential housings, brake discs, water pump impellers, flanges, and pulleys.

- 高精高效：

自主研发精密内涨式主轴，定位准确，重复性高；可选铣削、垂直钻孔、水平钻孔去重模式。

High precision and efficiency: Independently developed precision internal expansion spindle, accurate positioning, high repeatability; Optional milling, vertical drilling, and horizontal drilling deduplication modes.
- 操作便捷：

数据自动保存，自动上传MES系统，支持数据导出；自动启停，铁屑收集；机械手取放料接口。

Easy to operate: Automatic data saving, automatic uploading to MES system, supporting data export; Automatic start stop, iron chip collection; Mechanical arm material handling interface.
- 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.

DLX系列技术参数Technical parameter

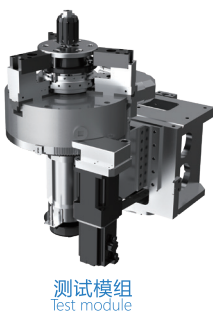
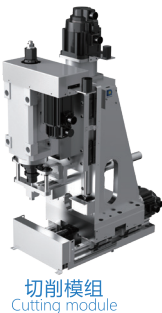
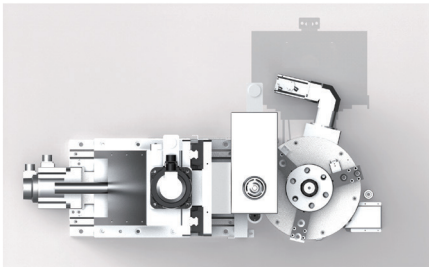


项目明细 Project Details	DLX3	DLX5	DLX10	DLX16	DLX30	DLX42
设备外观尺寸(mm) Equipment appearance dimensions	800*1400*1700	900*1450*1800	1400*1050*1850		1700*1250*1950	
节拍(s) Cycle time	≤50s（圆弧切削） ≤ 50s (arc cutting)			60-80s一次铣削（二次铣削不大于2min） 60-80s one-time milling (secondary milling not exceeding 2 minutes)		
工件最大质量(kg) Maximum mass of workpiece	3	5	10	16	35	42
工件外径范围或铣削直径(mm) Outer diameter range of workpiece or milling diameter	Φ35-120	Φ60-250	Φ60-250	Φ100-350	Φ180-450	Φ250-550
工件最大高度(mm) Maximum height of workpiece	≤80	≤120	≤160	≤200		≤300
铣削最大深度(mm) Maximum milling depth	≤10					
动平衡修正方式 Dynamic balance correction method	圆弧铣削/轴向钻孔/径向钻孔 Arc milling/axial drilling/radial drilling					
平衡转速(rpm) Balancing speed	≤2400			≤1800	≤1200	
平衡电机功率(kw) Balance motor power	2					
激光雕刻机功率(w) Laser engraving machine power	50					
最小可达剩余不平衡度(g.mm/kg) Minimum attainable residual imbalance	≤1					
不平衡率减少率(%) Unbalance rate reduction rate	90					

立式全自动平衡机Vertical fully automatic balancing machineDLX系列



模组示意Module schematic



应用领域Application fields

飞轮Flywheel	皮带轮Belt pulley	制动鼓Brake drum	齿轮Gear	离合器Clutch	法兰Flange
行星架Planetary shelf	差速器壳Differential carrier	刹车盘Brake disc	水泵叶轮Water pump impeller	法兰盘Flange plate	拽引轮Pulling wheel

产品简介Product Introduction

主要适用于单面盘类产品的自动平衡修正。
Mainly suitable for automatic balance correction of single-sided disc products.

- **高精度：**测试系统精度高，集自动检测、搬运、钻铣孔校正功能于一体；根据系统显示的不平衡数值及角度直接进行自动定位、钻孔去重。

High precision: The testing system has high precision and integrates automatic detection, handling, drilling and milling hole correction functions; Based on the imbalance values and angles displayed by the system, automatically locate and drill holes to remove weight.
- **高效率：**生产工时节拍短，效率高，可联接生产线实现自动化流水线生产。数据存储及打印、合格判定后数据统计等，采集输出显示全过程数据等功能。

High efficiency: Short production time cycle, high efficiency, can be connected to production lines to achieve automated assembly line production. Functions such as data storage and printing, data statistics after qualification judgment, and collection, output, and display of data throughout the entire process.
- **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。

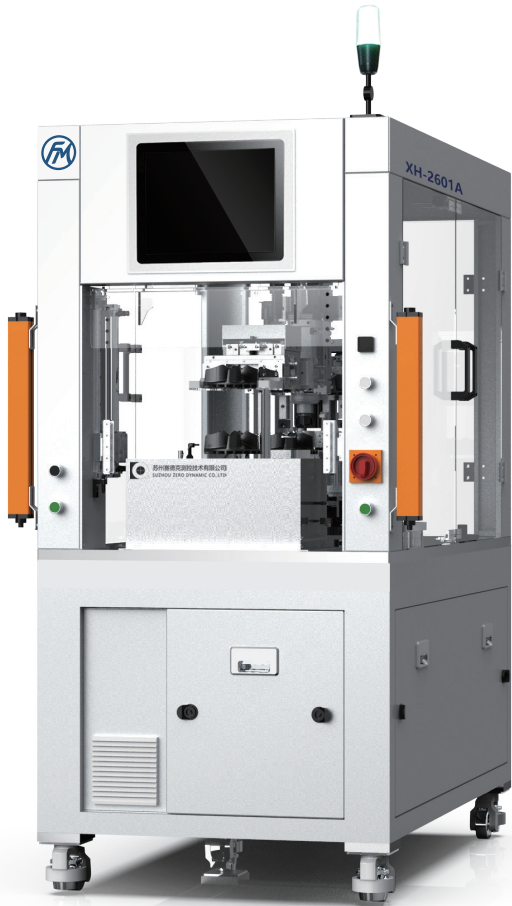
Safe and stable: Independent intellectual property rights, stable equipment performance, and support for highly customized solutions for special products.

XH-2601A
技术参数Technical parameter

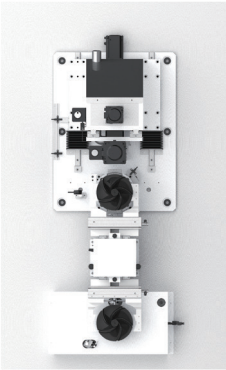


项目明细 Project Details	参数范围 Parameter Range
设备外观尺寸 Equipment appearance dimensions	830*1300*1700mm
节拍 Cycle time	10-15s（以3孔为准） 10-15 seconds (based on 3 holes)
工件质量范围 Range of workpiece quality	0.1-1kg
转子直径范围 Range of rotor diameter	Φ20-150mm
工件最大高度 Maximum height of workpiece	≤120mm
平衡转速 Balancing speed	1000-4800rpm
动平衡修正方式 Dynamic balance correction method	铣刀/钻头切削 Milling cutter/drill bit cutting
平衡显示精度 Balance display accuracy	0.1mg
最小可达剩余不平衡度 Minimum attainable residual imbalance	≤0.2g.mm/kg
不平衡率减少率 Unbalance rate reduction rate	URR≥95%
驱动方式 Drive mode	伺服驱动 Servo drive
电源供应 Power supply	220V/50HZ

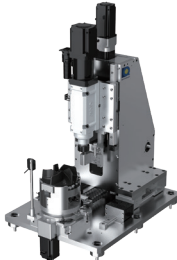
立式全自动平衡机
Vertical fully automatic balancing machine
XH-2601A



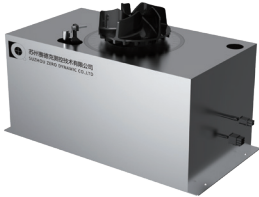
模组示意Module schematic



搬运模组
Transport module



切削模组
Cutting module



测试模组
Test module

应用领域Application fields

单面盘类产品
Single sided disc products



产品简介Product Introduction

主要适用于通用电机转子及滚筒类等产品的动平衡测试。
Mainly suitable for dynamic balance testing of general motor rotors and drum products.

- ▶ **高精度：**合格范围判定，测量精度高。
High precision: Qualified range determination, high measurement accuracy.
- ▶ **操作便捷：**通用性强，调节方便；无需重复标定；模块化结构，升级方便灵活。
Easy to operate: Strong universality and easy adjustment; No need for repeated calibration; Modular structure, easy and flexible upgrade.
- ▶ **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-16Q
技术参数Technical parameter



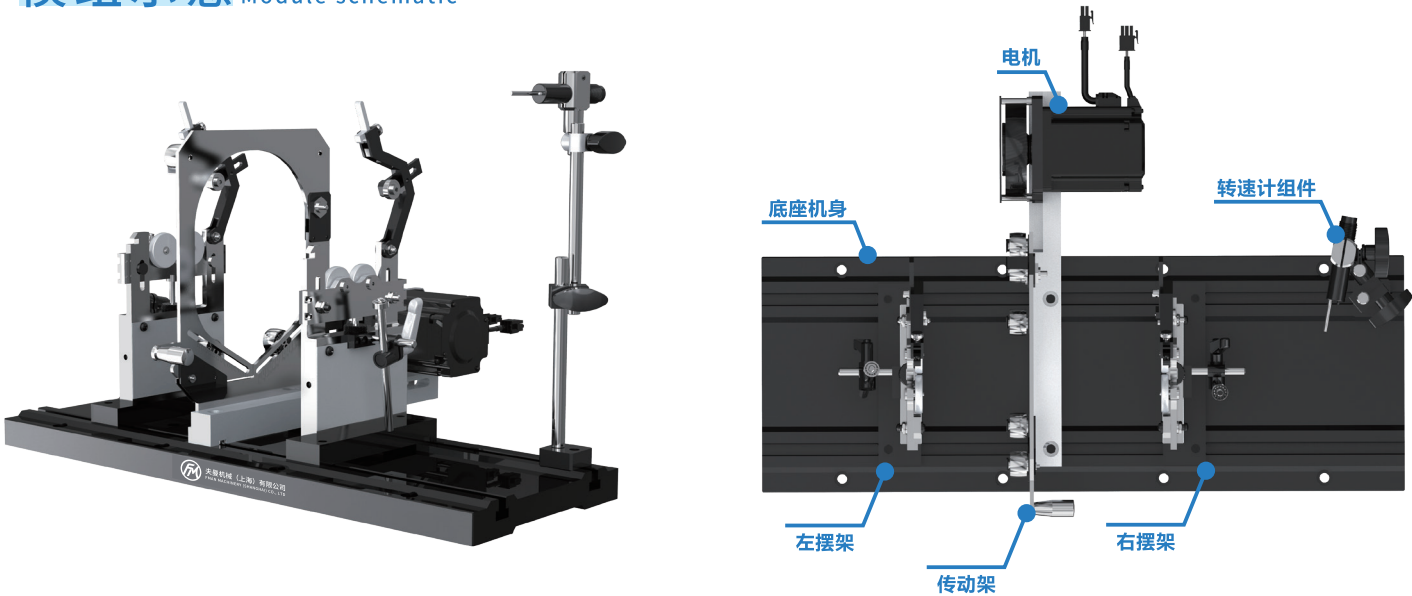
项目明细 Project Details	参数范围 Parameter Range
最大转子重量 Maximum rotor weight	16kg
最大转子直径 Maximum rotor diameter	360mm
轴颈支承范围 Cross-rod support range	5-25mm
可扩展轴颈支承范围 Expandable cross-rod support range	22-50mm
最小可达剩余不平衡度 Minimum attainable residual imbalance	0.2g.mm/kg
不平衡量减少率 Reduction rate of unbalance	95%
机器床身长度 Machine bed length	500mm
两支承最大距离 Maximum distance between two supports	450mm
驱动装置在两支承摆架中间时最小距离 The minimum distance between the driving device and the two supporting swing frames	50mm
驱动功率 Drive power	0.37kw
圈带传动处驱动直径 Drive diameter at the belt drive	10-150mm
平衡转速 Balancing speed	800-4500rpm
当皮带驱动直径为 When the diameter of the belt drive is	50mm

注：
根据工件的结构，可以选择上置式/下置式皮带驱动，或万向节驱动。机器床身上方可允许最大回转直径，可根据转子需求进行调整。
表中规格为标准机型，对规格参数有特殊要求的请另行协商。

圈带驱动小型硬支承平衡机
Ring belt driven small-sized hard support balancing machine
XH-16Q



模组示意Module schematic



应用领域Application fields

- 通用电机转子
Universal motor rotor
- 滚筒等
Roller, etc

产品简介

Product Introduction

主要适用于通用电机转子及滚筒类等产品的动平衡测试。
Mainly suitable for dynamic balance testing of general motor rotors and drum products.

- **高精度：**合格范围判定，测量精度高。
High precision: Qualified range determination, high measurement accuracy.
- **操作便捷：**通用性强，调节方便；无需重复标定；模块化结构，升级方便灵活。
Easy to operate: Strong universality and easy adjustment; No need for repeated calibration; Modular structure, easy and flexible upgrade.
- **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-500Q

技术参数

Technical parameter



项目明细 Project Details	参数范围 Parameter Range
最大转子重量 Maximum rotor weight	500kg
最大转子直径 Maximum rotor diameter	1500mm
轴颈支承范围 Cross-rod support range	10-140mm
可扩展轴颈支承范围 Expandable cross-rod support range	70-140mm
最小可达剩余不平衡度 Minimum attainable residual imbalance	0.5g.mm/kg
不平衡量减少率 Reduction rate of unbalance	URR≥95%
机器床身长度 Machine bed length	1500mm
两支承最大距离 Maximum distance between two supports	1350mm
驱动装置在两支承摆架中间时最小距离 The minimum distance between the driving device and the two supporting swing frames	150mm
驱动功率 Drive power	3kw
圈带传动处驱动直径 Drive diameter at the belt drive	20-450mm
平衡转速 Balancing speed	220-3800rpm
当皮带驱动直径为 When the diameter of the belt drive is	100mm

注：
根据工件的结构，可以选择上置式/下置式皮带驱动，或万向节驱动。机器床身上方可允许最大回转直径，可根据转子需求进行调整。
表中规格为标准机型，对规格参数有特殊要求的请另行协商。

圈带驱动中型硬支承平衡机

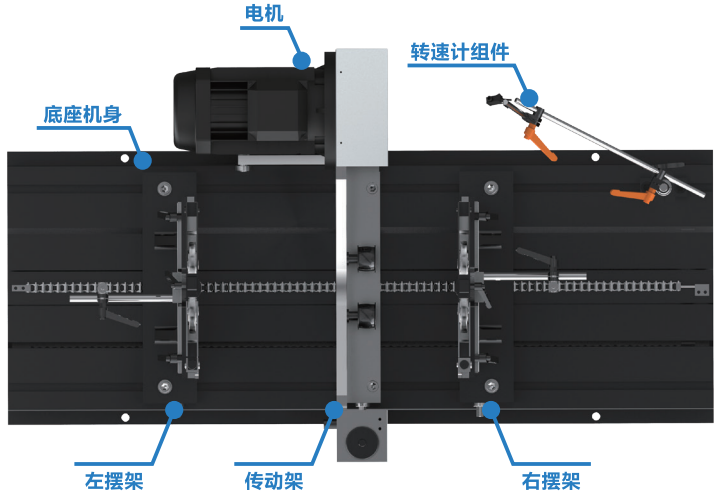
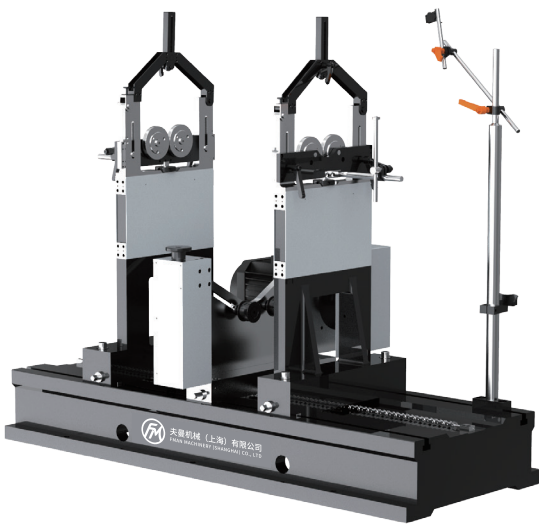
Ring belt driven medium-sized hard support balancing machine

XH-500Q



模组示意

Module schematic



应用领域

Application fields

- 通用电机转子
Universal motor rotor
- 滚筒等
Roller, etc

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.



技术服务优势 Technical service advantages

掌握多项核心技术
Master multiple core technologies

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

提供整套解决方案
Provide a complete solution

7×24小时服务
24/7 service

行业案例 Industry Cases



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

新能源电机平衡机全套方案供应商
A complete solution provider for new energy motor balancing machine



专注高速平衡 深耕细分领域

行业解决方案
Industry Solutions

