

致力创新·智造非凡

开启中国电缆智能测量新时代

Committed to Innovation · Intelligent Creation Extraordinary
New Era of Intelligent Cable Measurement



QIPANG SERIES

激光测径仪
Laser Diameter Gauge

Shanghai Qipang Industrial Co., Ltd. has more than 20 years of experience in equipment production. Customers are widely distributed all over the world.

Shanghai Qipang is a leading manufacturer of industrial instrumentation and control equipment. We have been applying advanced science and technology to our products, including laser diameter gauges, ultra-high-speed diameter gauges, spark detectors, high-frequency preheaters, etc.

Shanghai Qipang has a team of dedicated and experienced professionals. Continuous progress, never-ending is our corporate culture. We will unswervingly focus on technology research and development and technological innovation, with excellent service as a strong backing for our new high-quality products.

上海启庞实业有限公司，至今已有20余年设备生产经验。客户广泛分布于世界各地。

上海启庞，在工业仪器仪表及控制设备制造领域居于领先地位。一直以来，我们将先进的科学技术应用于我们的产品，包括激光测径仪、超高速测径仪、火花检测仪、高频预热器等。

上海启庞拥有一支具有奉献精神且经验丰富的专业团队。不断进取、永无止境是我们的企业文化。我们将坚定不移地专注于技术研发与科技创新，用优质的服务作为我们高品质新产品的坚强后盾。





Single Axis Diameter Gauge
(Gray)
单轴测径仪 (灰)



Single Axis Diameter Gauge
单轴测径仪



Double Axis Diameter Gauge
(High Speed)
双轴测径仪 (高速)



Handheld Diameter Gauge
手持测径仪



Display Screen Diameter Gauge
显示屏测径仪



High Frequency Spark Machine
高频火花机



Wire Preheater
导体预热器



Power Frequency Spark Machine
工频火花机



Electrostatic Powder
Coating Machine
静电过粉机

产品应用行业 Application Industry

产品广泛应用于电线电缆光缆光纤行业、漆包线（圆线，扁线）行业、铝塑复合管（塑胶管材）行业，铜带钢带生产设备行业、五金精密加工及工具模具检测行业、微细线拉丝行业、焊丝焊带行业、钢铁冶金行业、3D打印耗材行业以及测量各种圆形及扁平物体的宽度和厚度行业。

This product is widely used in the wire and cable, optical fiber optic cable industry, enameled wire (round wire, flat wire) industry, aluminum-plastic composite pipe (plastic pipe) industry, copper strip, steel strip production equipment industry, hardware precision processing and tool mold inspection industry, micro wire drawing industry, welding wire and weiding tape industry, steel metallurgy industry, 3D printing consumables industry, and the industry that measures the width and thickness of various round and flat objects."

测径仪功能、特点：

1. 1000-1400次测量/秒/轴
2. 测量/控制/监测/预警/报告/存储/追溯
3. 支持串口(RS485/Modbus RTU)、网口(Modbus TCP/Profinet)等
4. 没有运动部件，无磨损
5. 外径反馈控制（选配PID功能）
6. 4路继电器报警输出
7. 支持线速度输入
8. SPC/Statistics数据分析
9. FFT分析

Diameter Gauge Features and Functions:

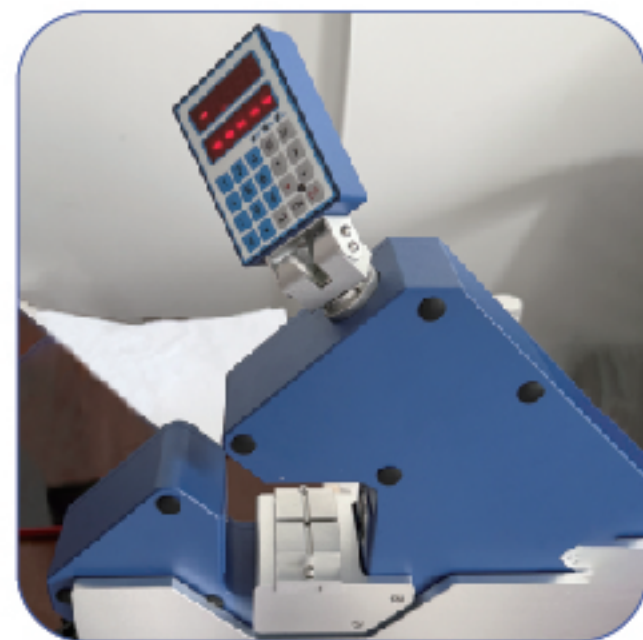
1. 1000-1400 measurements per second per axis
2. Measurement/control/monitoring/alerting/reporting/storage/traceability
3. Supports serial ports (RS485/Modbus RTU), network ports (Modbus TCP/Profinet), etc.
4. No moving parts, no wear and tear
5. Outer diameter feedback control (Optional PID functionality)
6. 4-channel relay alarm output
7. Supports line speed input
8. SPC/Statistics data analysis
9. FFT analysis



新能源行业
New Energy Industry



3D打印耗材行业
3D Printing Consumables Industry



棒材行业
Bar Industry



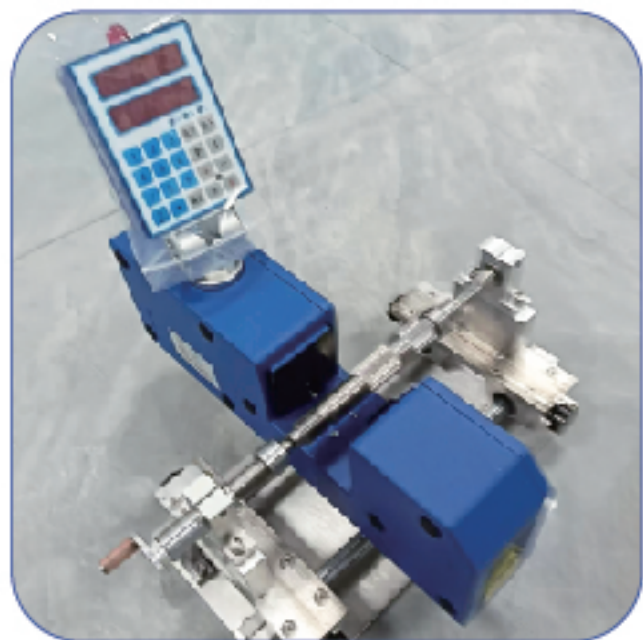
高温行业
High-Temperature Industry



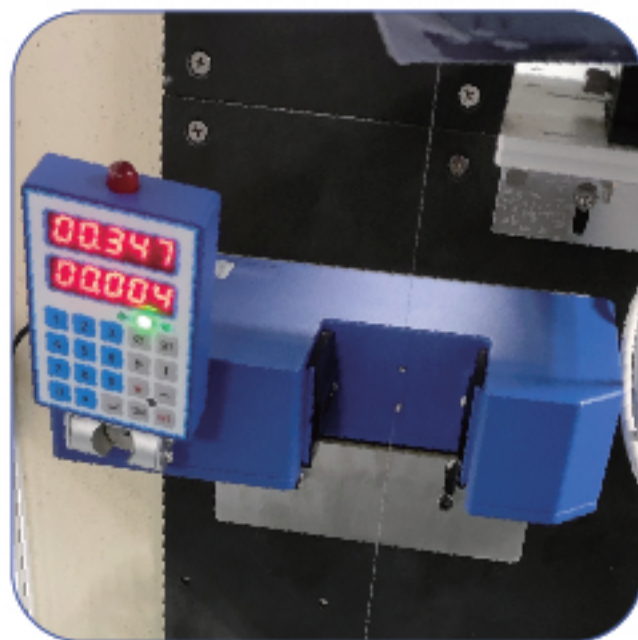
PU管激光计米器
PU Tube laser Measuring
Meter Counter Instrument



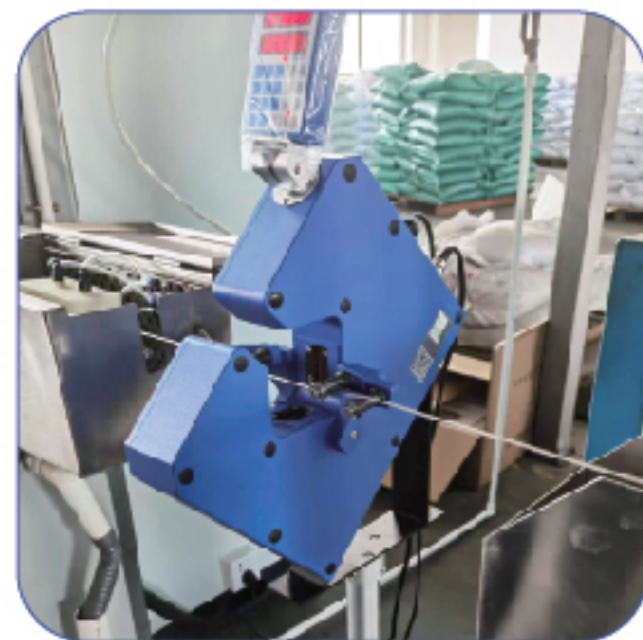
电力电缆行业
Power Cable Industry



高铁交通行业
High-Speed Rail
Transportation Industry



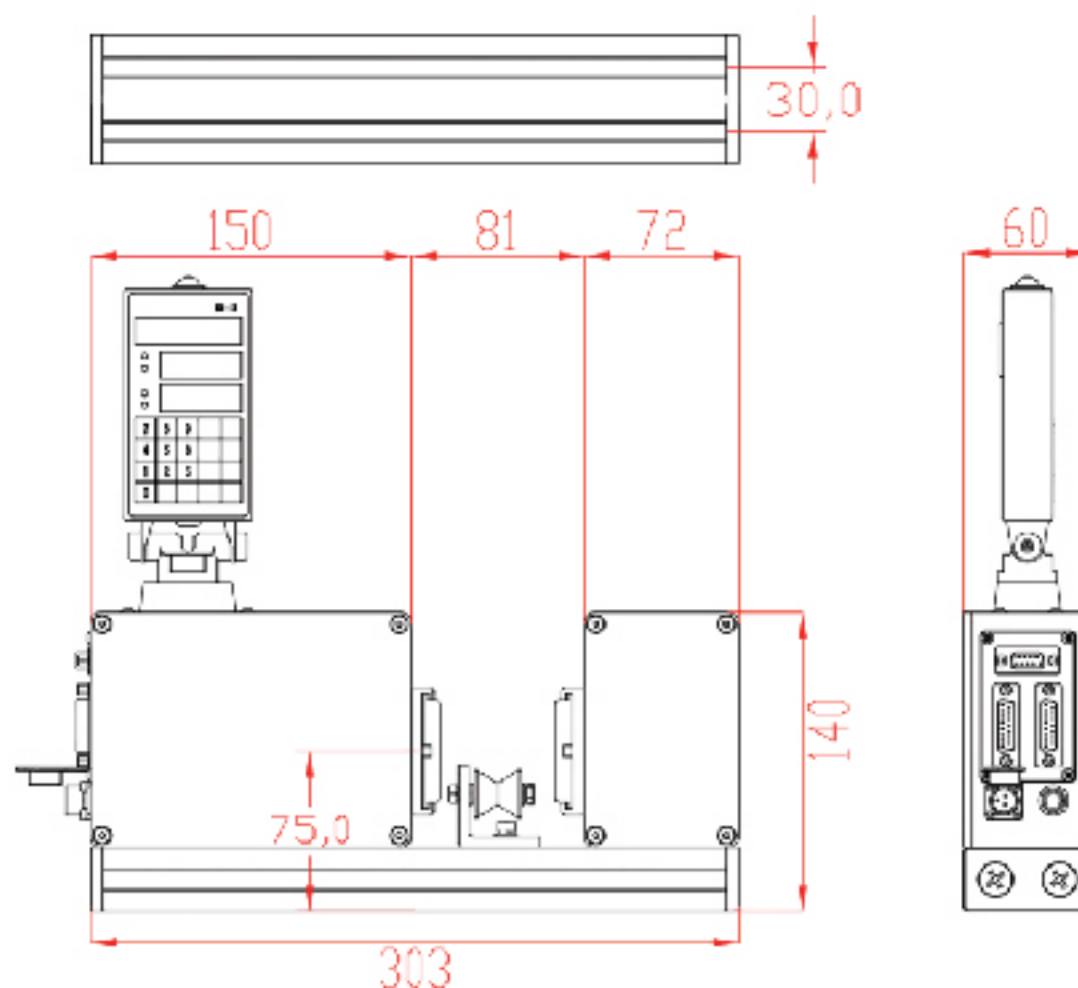
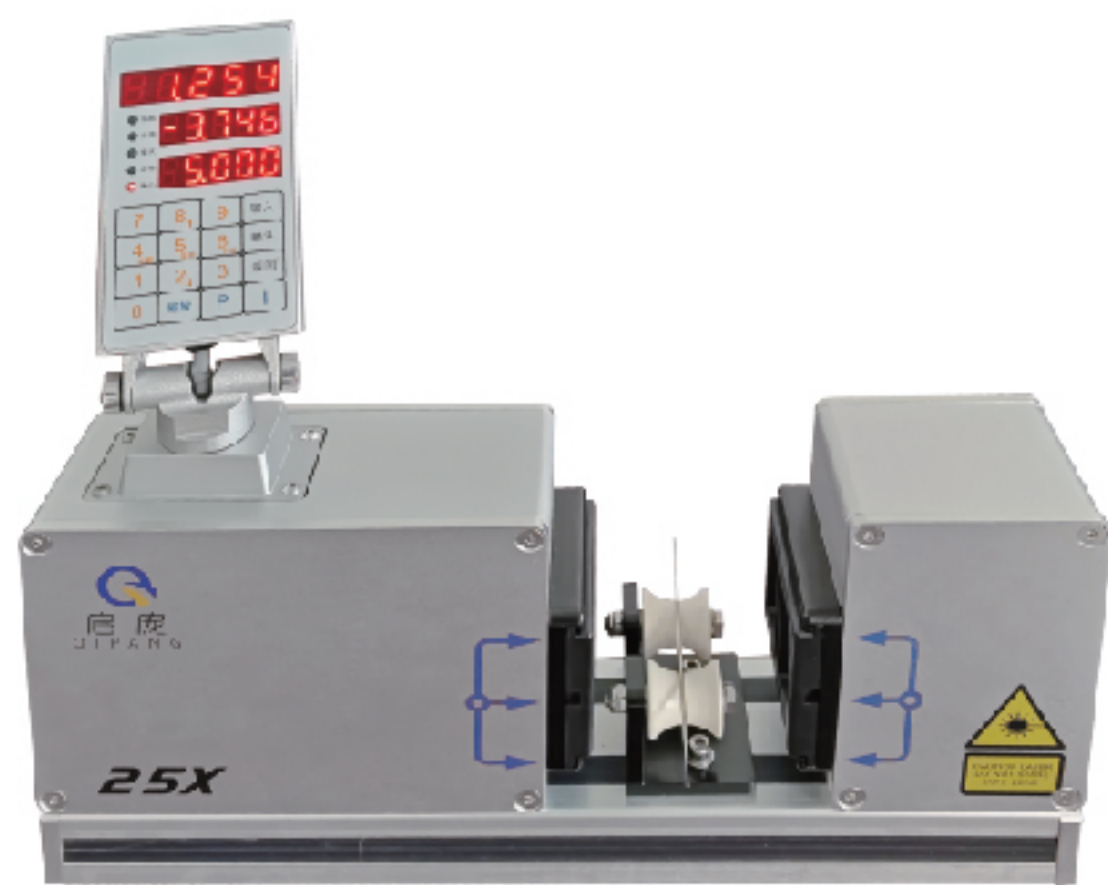
医疗行业
Medical Industry



橡胶管行业
Rubber Pipe Industry

产品外形及安装尺寸

Product appearance and installation size

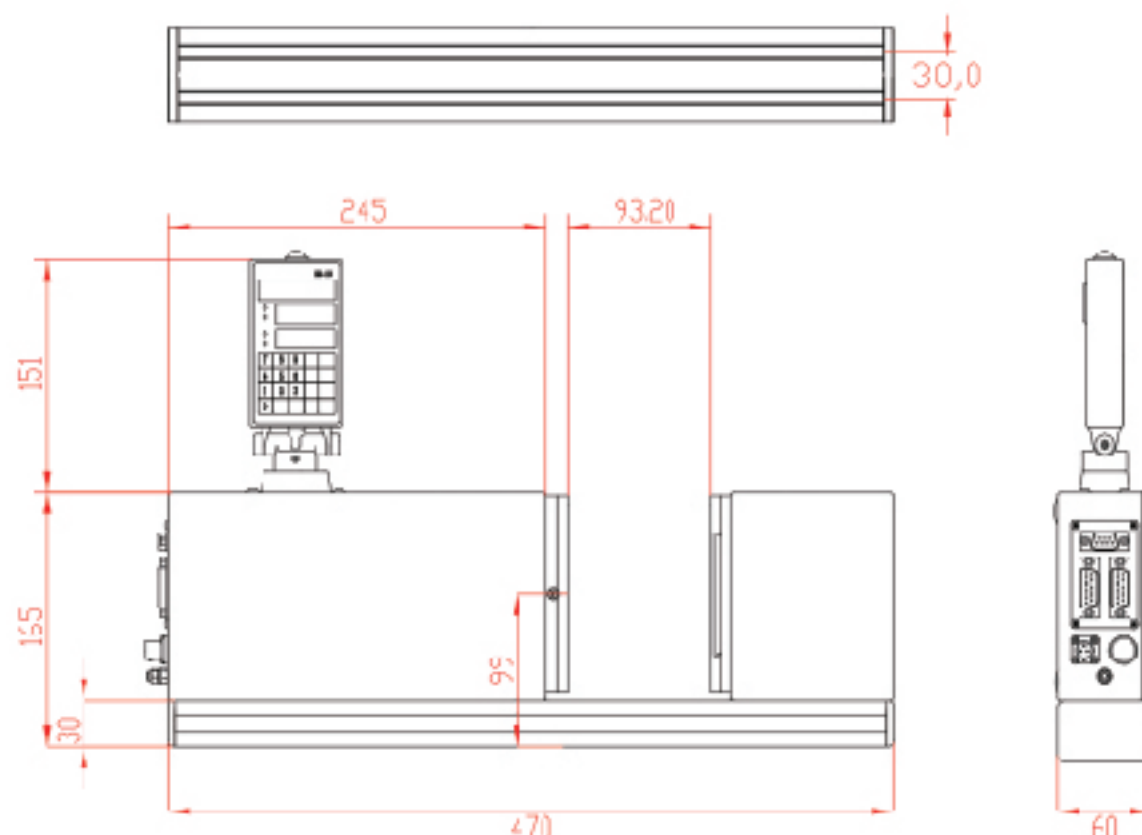
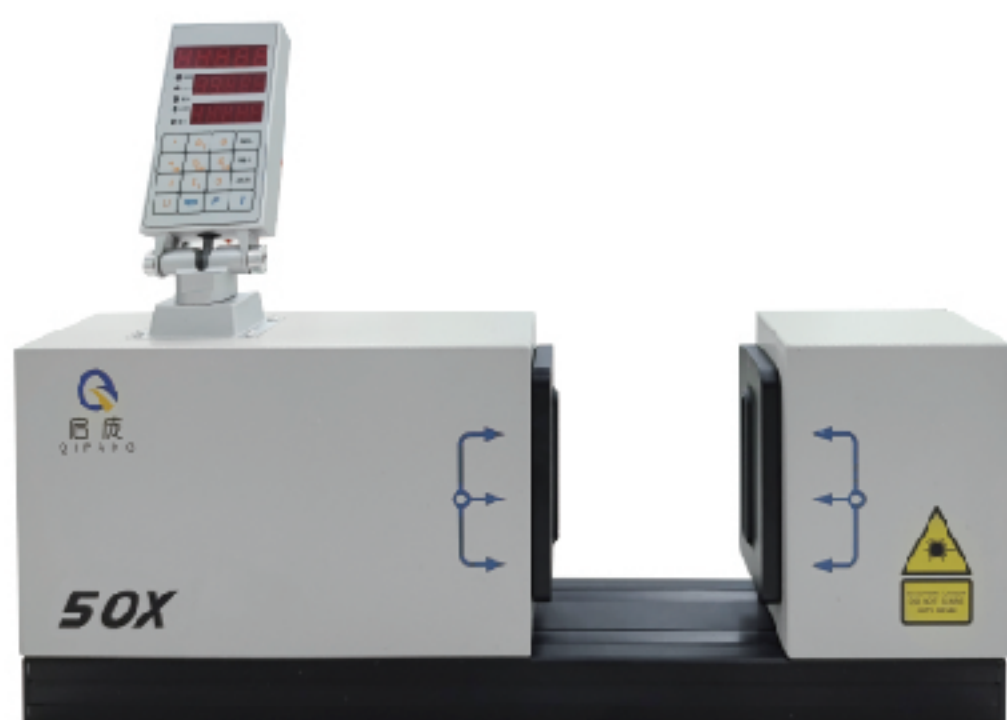


参数表 Parameter Table

型号 Model	25X
测量轴数 Measuring axis number	单轴 Single Axis
测量范围 Measuring range	0.1mm-25mm、1/256"-63/64"
测量精度 Measuring accuracy	$\pm 1\mu\text{m} \pm 0.008\% \times XZ$ (Xz: 标称直径-Xz: nominal diameter)
测径仪扫描速度 Scanning speed of diameter gauge	1400次/秒 1400 times/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ
环境温度 Ambient temperature	-5 ~ 40°C
通讯接口 Communication interface	RS485(Modbus RTU)、可选配网口 (Optional network port: Modbus TCP/Profinet)
可选配件 Optional accessories	支架、串口线、远程控制器、远程显示器 Bracket, serial line, remote controller, remote display
功耗 Power consumption	$\leq 12\text{W}$
重量 Weight	4KG

产品外形及安装尺寸

Product appearance and installation size

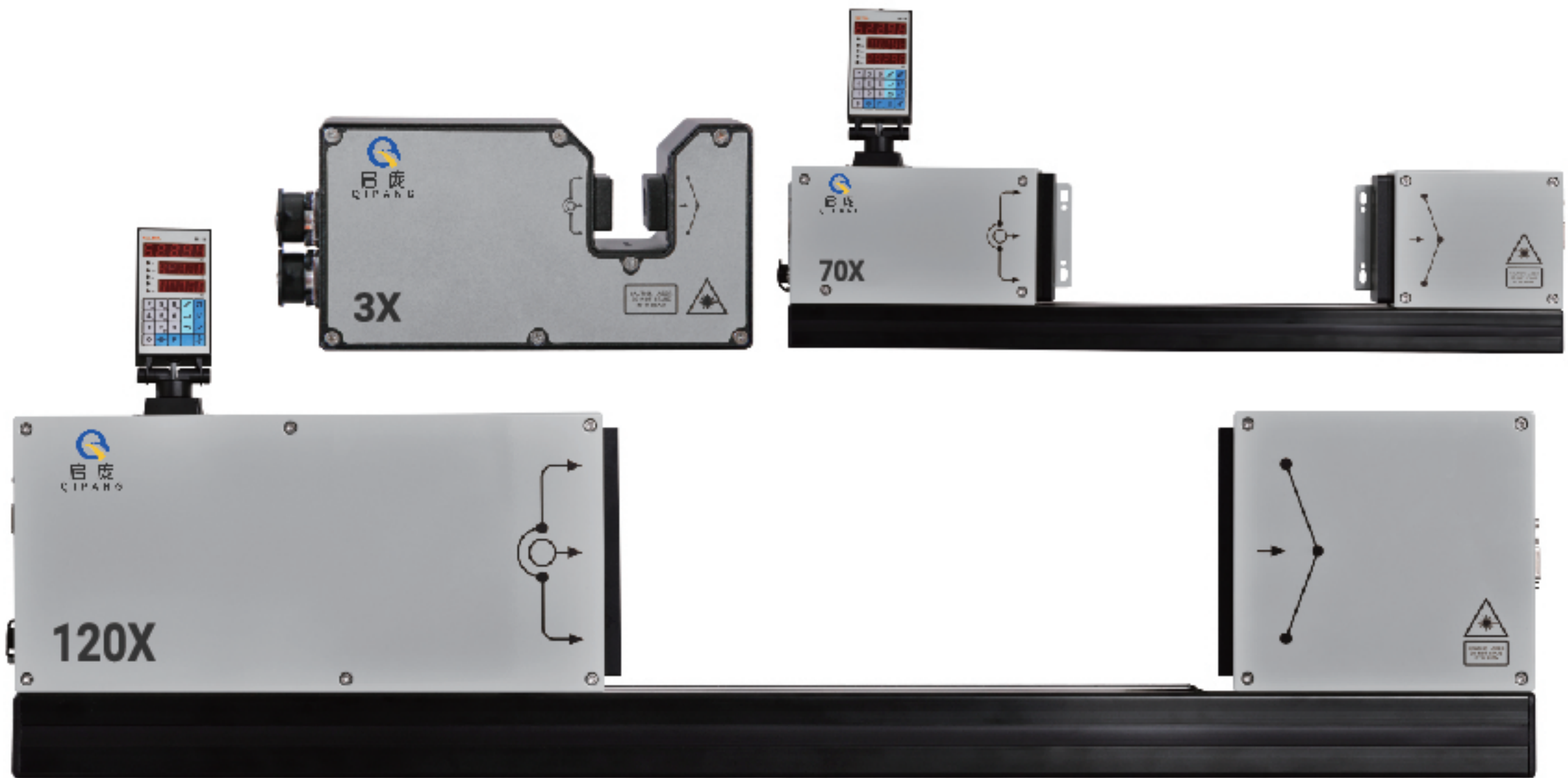


参数表 Parameter Table

型号 Model	50X
测量轴数 Measuring axis number	单轴 Single Axis
测量范围 Measuring range	1-50mm, 1/25"-1 31/32"
测量精度 Measuring accuracy	$\pm 1.5\mu\text{m} \pm 0.008\% \times XZ$ (Xz: 标称直径-Xz: nominal diameter)
测径仪扫描速度 Scanning speed of diameter gauge	1400次/秒 1400 times/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ
环境温度 Ambient temperature	-5 ~ 40°C
通讯接口 Communication interface	RS485(Modbus RTU)、可选配网口 (Optional network port: Modbus TCP/Profinet)
可选配件 Optional accessories	支架、串口线、远程控制器、远程显示器 Bracket, serial line, remote controller, remote display
功耗 Power consumption	$\leq 12\text{W}$
重量 Weight	5.6KG

产品外形

Product appearance

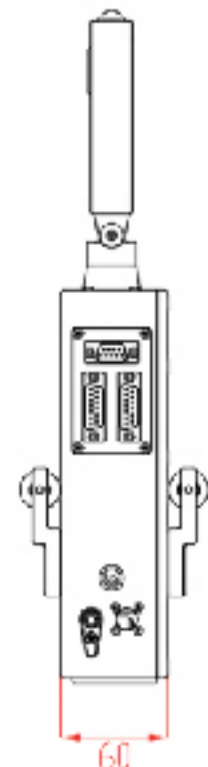
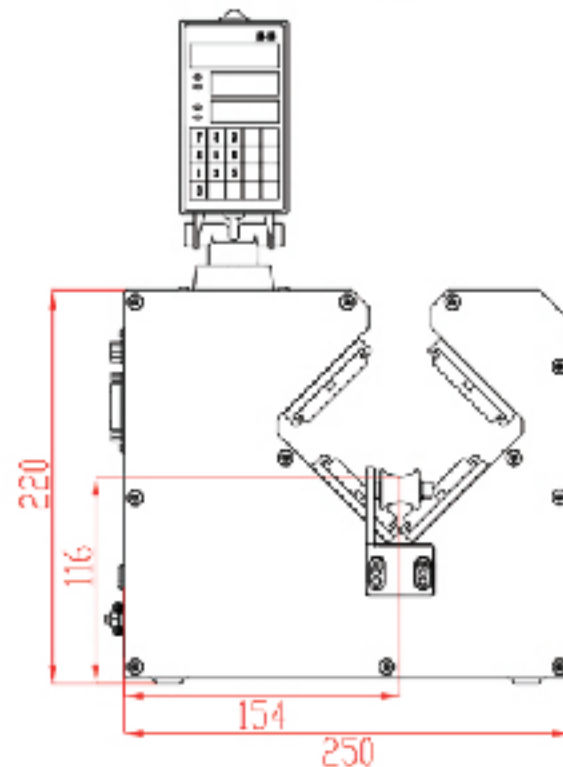
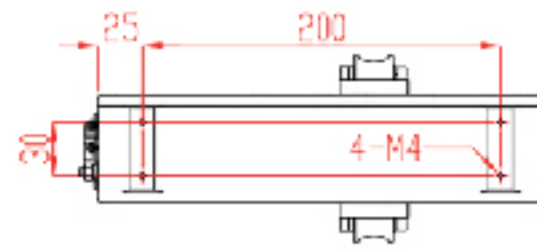


参数表 Parameter Table

型号 Model	3X	70X	120X	170X
测量轴数 Measuring axis number	单轴 Single Axis			
测量范围 Measuring range	0.05-3mm, 0.002"-1/8"	1 ~ 70mm, 1/25"-2 3/4"	1 ~ 120mm, 1/25"-4 23/32"	1 ~ 170mm, 1/25"-6 11/16"
测量精度 Measuring accuracy	$\pm 1\mu\text{m} \pm 0.008\% \times XZ$ $\pm 10\mu\text{m} \pm 0.008\% \times XZ$ (Xz:标称直径-Xz:nominal diameter)			
测径仪扫描速度 Scanning speed of diameter gauge	1400次/秒 1400 times/second			
分辨率 Resolution	0.001mm			
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ			
环境温度 Ambient temperature	-5 ~ 40°C			
通讯接口 Communication interface	RS485(Modbus RTU)、可选配网口 (Optional network port: Modbus TCP/Profinet)			
可选配件 Optional accessories	支架、串口线、远程控制器、远程显示器 Bracket, serial line, remote controller, remote display			
功耗 Power consumption	$\leq 12\text{W}$			
重量 Weight	1KG	9KG	17KG	14KG

产品外形及安装尺寸

Product appearance and installation size

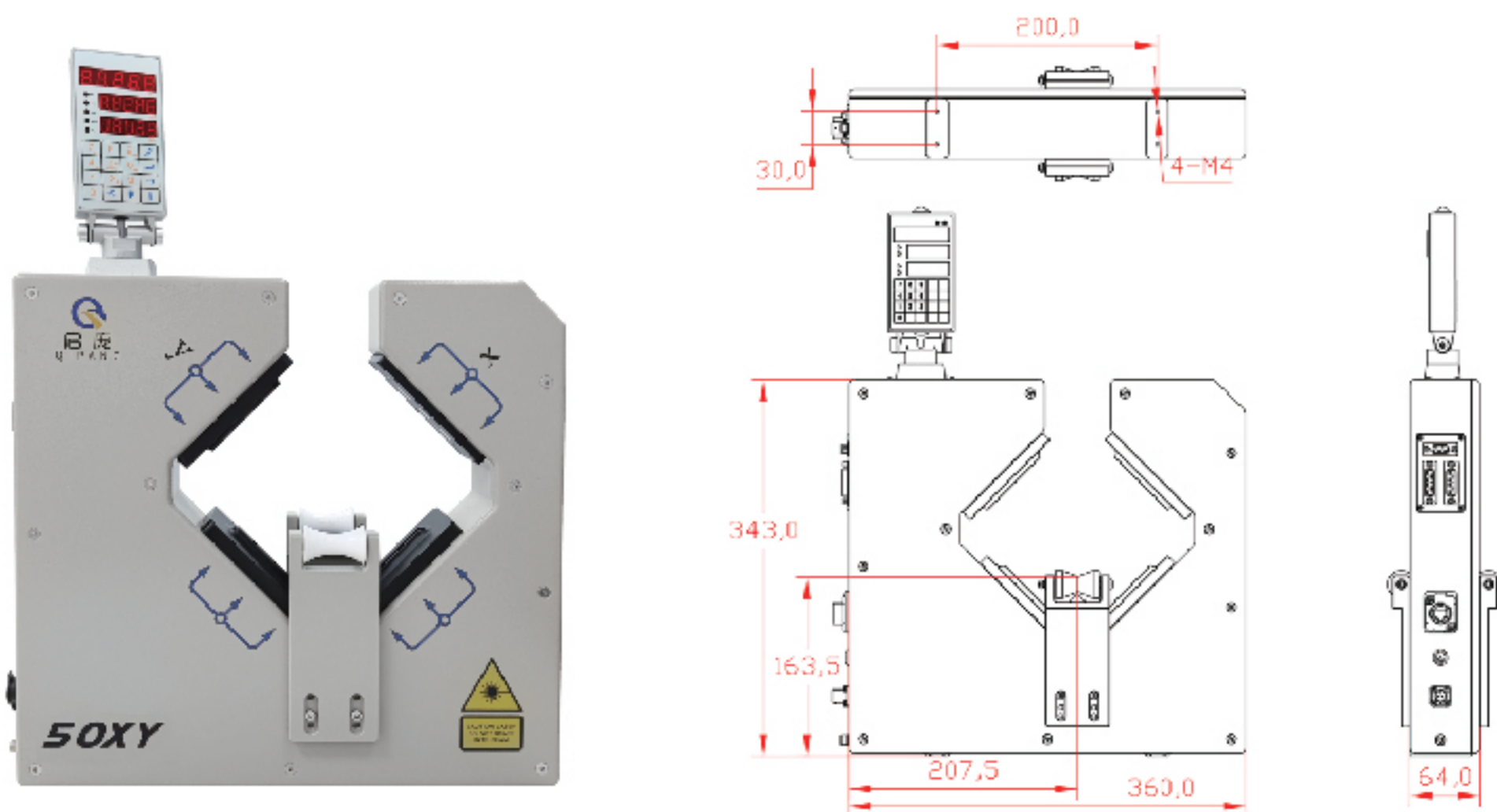


参数表 Parameter Table

型号 Model	25XY
测量轴数 Measuring axis number	双轴 Double Axis
测量范围 Measuring range	0.1mm-25mm、1/256"-63/64"
测量精度 Measuring accuracy	$\pm 1\mu\text{m} \pm 0.008\% \times XZ$ (Xz: 标称直径-Xz: nominal diameter)
测径仪扫描速度 Scanning speed of diameter gauge	1400次/秒 1400 times/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ
环境温度 Ambient temperature	-5 ~ 40°C
通讯接口 Communication interface	RS485(Modbus RTU)、可选配网口 (Optional network port: Modbus TCP/Profinet)
可选配件 Optional accessories	支架、串口线、远程控制器、远程显示器 Bracket, serial line, remote controller, remote display
功耗 Power consumption	$\leq 12\text{W}$
重量 Weight	4.5KG

产品外形及安装尺寸

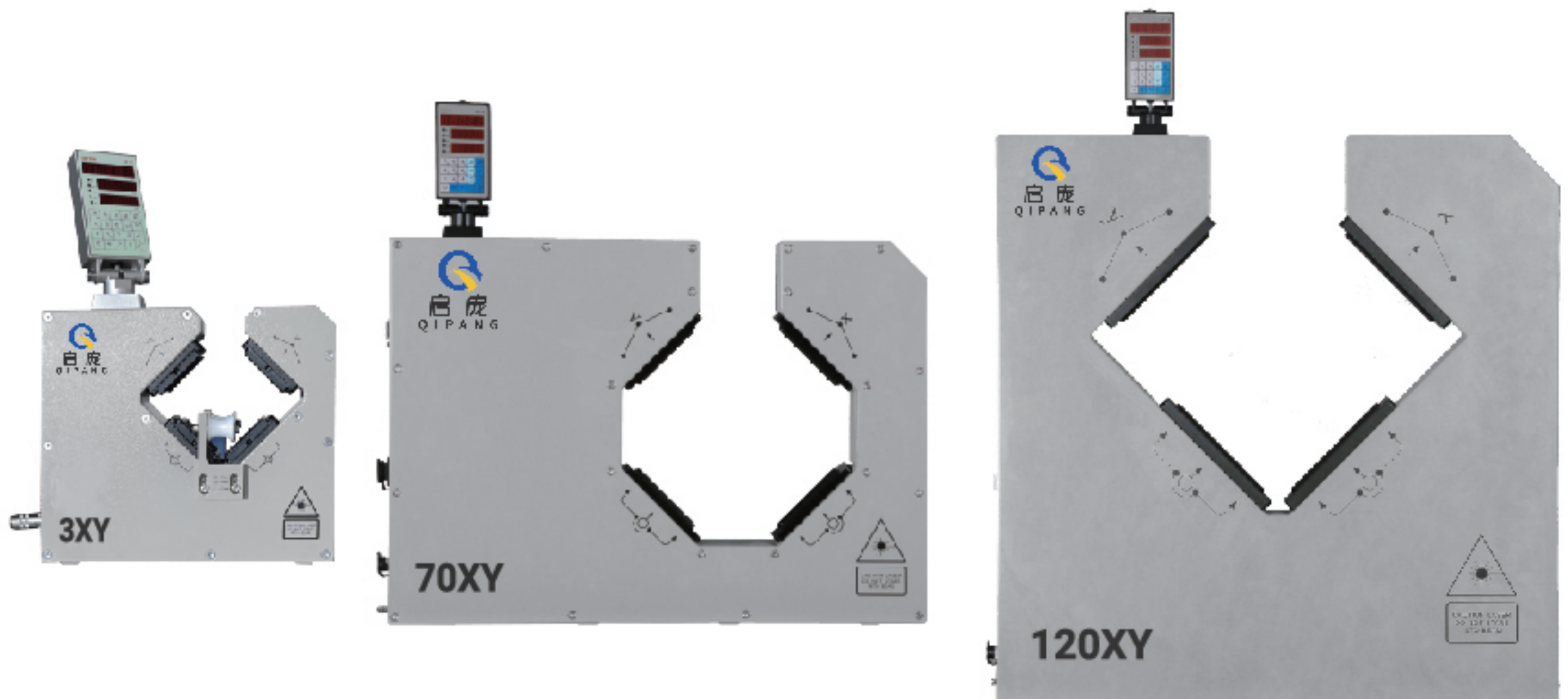
Product appearance and installation size



参数表 Parameter Table

型号 Model	50XY
测量轴数 Measuring axis number	双轴 Double Axis
测量范围 Measuring range	1-50mm, 1/25"-1 31/32"
测量精度 Measuring accuracy	$\pm 1.5\mu\text{m} \pm 0.008\% \times Xz$ (Xz: 标称直径-Xz: nominal diameter)
测径仪扫描速度 Scanning speed of diameter gauge	1400次/秒 1400 times/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ
环境温度 Ambient temperature	-5 ~ 40°C
通讯接口 Communication interface	RS485(Modbus RTU)、可选配网口 (Optional network port: Modbus TCP/Profinet)
可选配件 Optional accessories	支架、串口线、远程控制器、远程显示器 Bracket, serial line, remote controller, remote display
功耗 Power consumption	$\leq 12\text{W}$
重量 Weight	8.5KG

产品外形 Product appearance



参数表 Parameter Table

型号 Model	3XY	70XY	120XY	170XY
测量轴数 Measuring axis number	双轴 Double Axis			
测量范围 Measuring range	0.05-3mm, 0.002"-1/8"	1 ~ 70mm, 1/25"-2 3/4"	1 ~ 120mm, 1/25"-4 23/32"	1 ~ 170mm, 1/25"-6 11/16"
测量精度 Measuring accuracy	$\pm 1\mu\text{m} \pm 0.008\% \times XZ$ $\pm 10\mu\text{m} \pm 0.008\% \times XZ$ (Xz:标称直径-Xz:nominal diameter)			
测径仪扫描速度 Scanning speed of diameter gauge	1400次/秒 1400 times/second			
分辨率 Resolution	0.001mm			
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ			
环境温度 Ambient temperature	-5 ~ 40°C			
通讯接口 Communication interface	RS485(Modbus RTU)、可选配网口 (Optional network port: Modbus TCP/Profinet)			
可选配件 Optional accessories	支架、串口线、远程控制器、远程显示器 Bracket, serial line, remote controller, remote display			
功耗 Power consumption	$\leq 12\text{W}$			
重量 Weight	5KG	16KG	30KG	27KG



参数表 Parameter Table

型号 Model	特点 Characteristic	测量范围 Measurement range	测量精度 Measurement accuracy	扫描速度 Scanning speed	显示 Display	通讯方式 Communication method	包装尺寸 Packing size (mm)	产品重量 product weight
QP-02X	单维 Single Axis	0.02-2mm (可测到3mm)	±0.0002mm	10000次/秒 10000times/s	触摸+OLED 屏幕双显 Touch + OLED screen dual display	有线、无线通讯 Wireless and wired communication	350×250×150	2KG
QP-02XY	双维 (可测椭圆率) Double Axis (Measurable ellipticity)	0.02 - 2mm (measure up to 3mm)						
QP-20X	单维 Single Axis	0.1-20mm	±0.0005mm	4800次/秒 4800times/s	触摸液晶屏 (触摸单屏) Touch + OLED screen dual display		400×300×200	4KG

产品用途 Product Use

主要用于光纤、漆包线、微拉丝等各类微细线材的外径和椭圆率测量，以及各种小扁线的宽度和厚度测量，在线和离线检测均可。

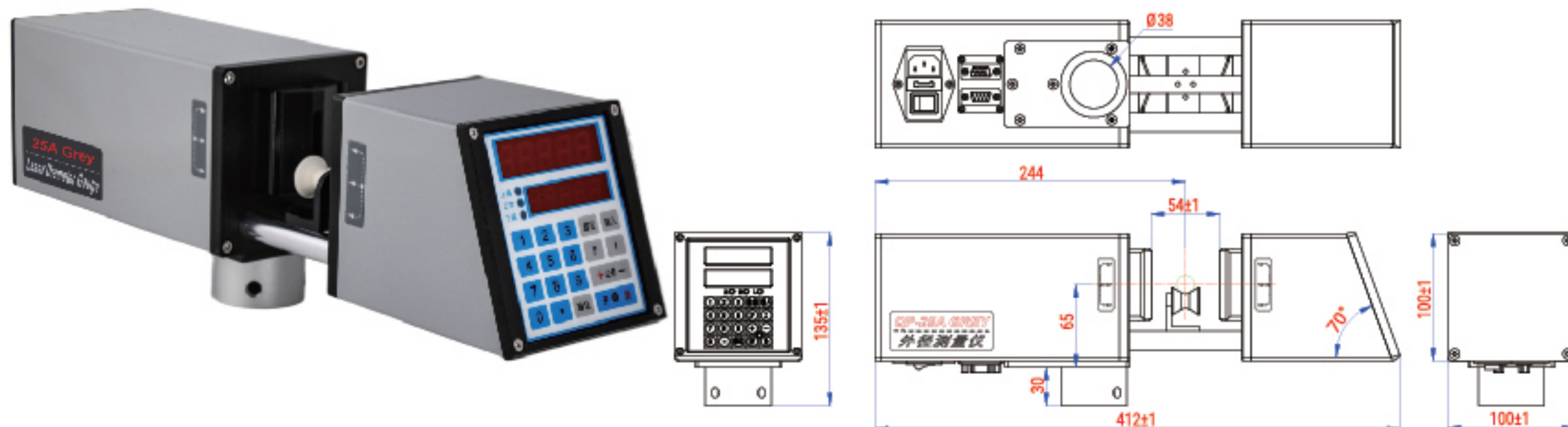
Applicable to the super accurate measurement of outer dimension of various fine wires such as optical fiber, enameled wire, fine drawn wires and fibers etc. It is suitable for the patrol inspectors and can be operated both in-line and off-line.

产品特点 Product Feature

- 采用更加先进的测控技术，透明线材和非透明线材均可准确测量。
- 超大容量数据储存空间，一次性可以储存十万个数据以上，保存数据自动标注有时间、检验员、机台号、线号、盘号等信息，非常便于监督管理和后期查询。
- 通讯和充电接口采用与手机数据线兼容的标准USB接口，具备有线、无线通讯功能，可靠性更高。
- 采用触摸屏操作、菜单式界面，更加符合使用习惯，操作更加方便简捷。
- 采用高效大容量聚合物锂电池，待机时间更长，充满电后可使8小时以上。
- 配备功能完善的上位机统计分析软件，数据可实时无线上传，可后期有线导入。
- Advanced technology provides accurate measurement and control for both transparent and semitransparent wires.
- Super large storage capacity can store more than 10 thousand data which are identified with time and date, inspector, machine number, wire number and bobbin number etc. to facilitate management and query.
- The communication and charge interface is compatible with the same of standard USB of mobile phone and communication in both wire and wireless modes leads to high reliability.
- Operation on touchscreen and menu interface becomes easier and more convenient.
- High efficient polymer lithium battery leads to longer standby time and more than 8 hours work duration.
- Upper stream statistic and analysis software enables real-time wireless upload and data import afterwards.

产品外形及安装尺寸

Product appearance and installation size

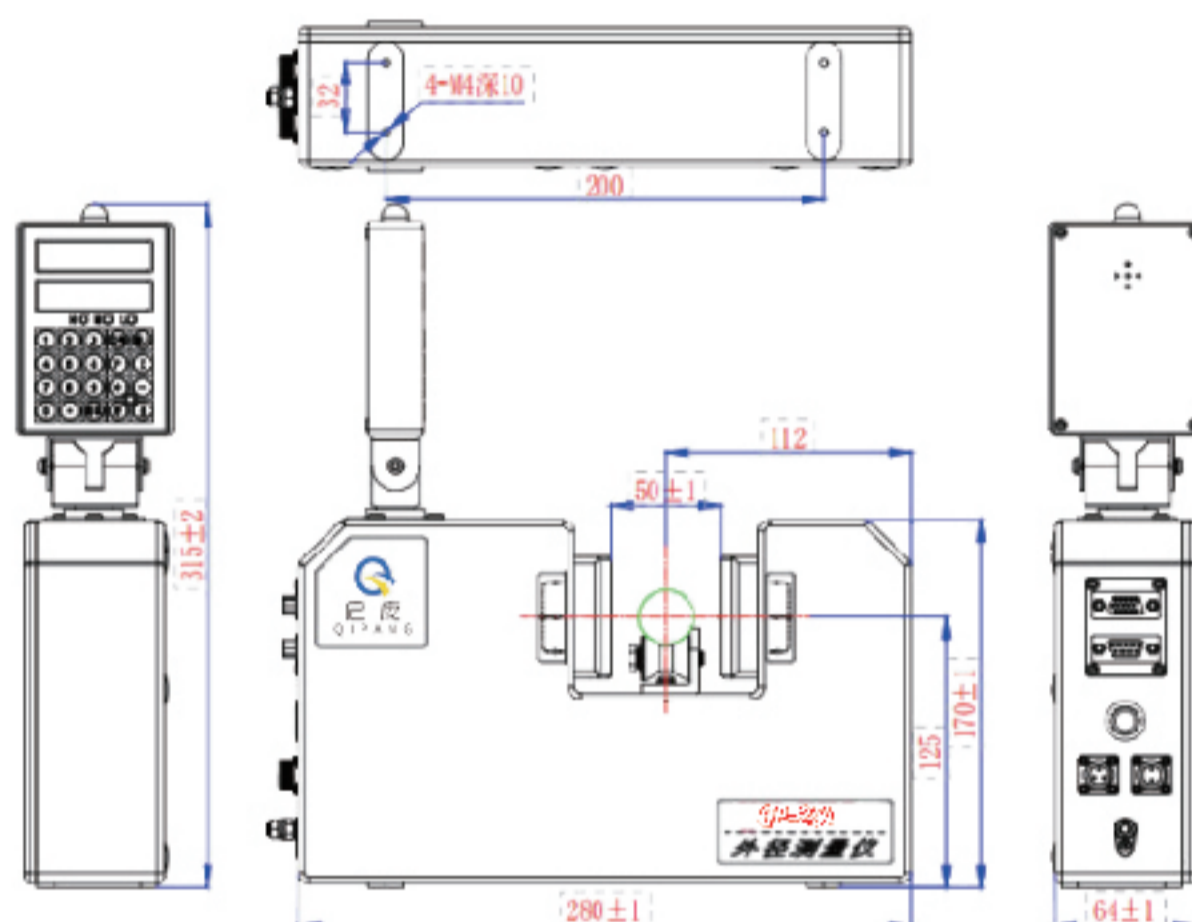


参数表 Parameter Table

型号 Model	25A Grey
测量范围 Measuring range	0.1mm-25mm、1/256"-63/64"
测量精度 Measuring accuracy	$\pm 2\mu\text{m} \pm 0.008\%Dz$ mm ("Dz"为被测物的实际直径大小) ("Dz" is the actual diameter of the measured object)
测径仪扫描速度 Scanning speed of diameter gauge	1000次扫描周期/秒 1000times scanningcycle/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ
环境温度 Ambient temperature	0 ~ 45°C
相对湿度 Relative humidity	$\leq 85\%$ (无冷凝水)(no condensationwater)
显示方式 Display means	双排5位数码管显示 two-row5-digit pipe display
工作频率 Working frequency	50/60Hz
通讯接口 Communication interface	RS485 (support Modbus RTU)
产品尺寸 Product size	412*100*135mm
功耗 Power consumption	$\leq 15W$
重量 Weight	3.6KG

产品外形及安装尺寸

Product appearance and installation size

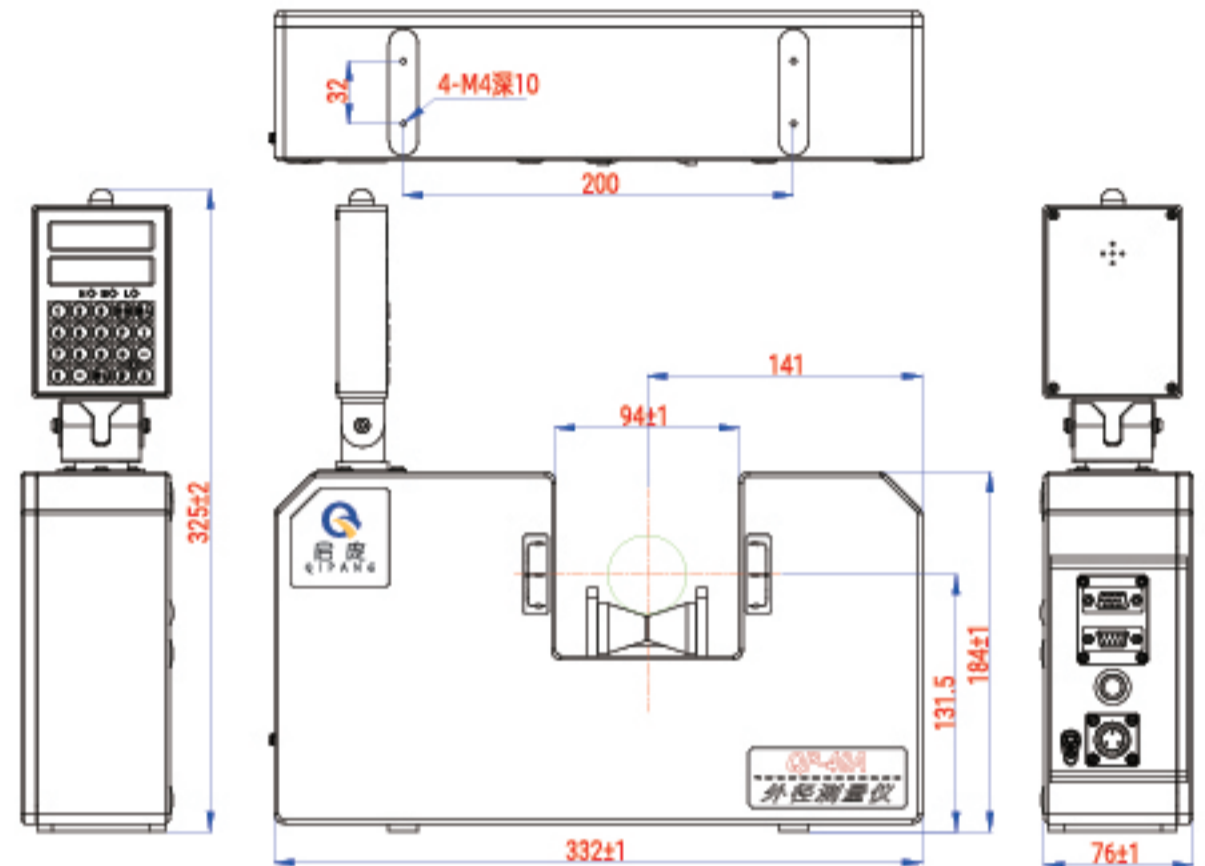


参数表 Parameter Table

型号 Model	QP-25A
测量范围 Measuring range	0.1mm-25mm、1/256"-63/64"
测量精度 Measuring accuracy	$\pm 2\mu\text{m} \pm 0.008\%D_z$ mm ("Dz"为被测物的实际直径大小) ("Dz" is the actual diameter of the measured object)
测径仪扫描速度 Scanning speed of diameter gauge	1000次扫描周期/秒 1000times scanningcycle/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	100~240VAC,1.0A
环境温度 Ambient temperature	0 ~ 45°C
相对湿度 Relative humidity	≤85%(无冷凝水)(no condensationwater)
显示方式 Display means	双排5位数码管显示 two-row5-digit pipe display
工作频率 Working frequency	50/60Hz
通讯接口 Communication interface	RS485 (support Modbus RTU)
产品尺寸 Product size	280*64*315mm
功耗 Power consumption	≤15W(外带适配器+40W)(withadapter+40W)
重量 Weight	3.4KG

产品外形及安装尺寸

Product appearance and installation size



参数表 Parameter Table

型号 Model	QP-40A
测量范围 Measuring range	0.1mm-40mm、1/256"-1 37/64"
测量精度 Measuring accuracy	$\pm 2\mu\text{m} \pm 0.008\% \text{Dz}$ mm ("Dz"为被测物的实际直径大小) ("Dz" is the actual diameter of the measured object)
测径仪扫描速度 Scanning speed of diameter gauge	1000次扫描周期/秒 1000times scanningcycle/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V $\pm 10\%$ 50HZ
环境温度 Ambient temperature	0 ~ 45°C
相对湿度 Relative humidity	$\leq 85\%$ (无冷凝水)(no condensationwater)
显示方式 Display means	双排5位数码管显示 two-row5-digit pipe display
工作频率 Working frequency	50/60Hz
通讯接口 Communication interface	RS485 (support Modbus RTU)
产品尺寸 Product size	332*76*325mm
功耗 Power consumption	$\leq 15\text{W}$
重量 Weight	4.4KG

产品外形 Product appearance

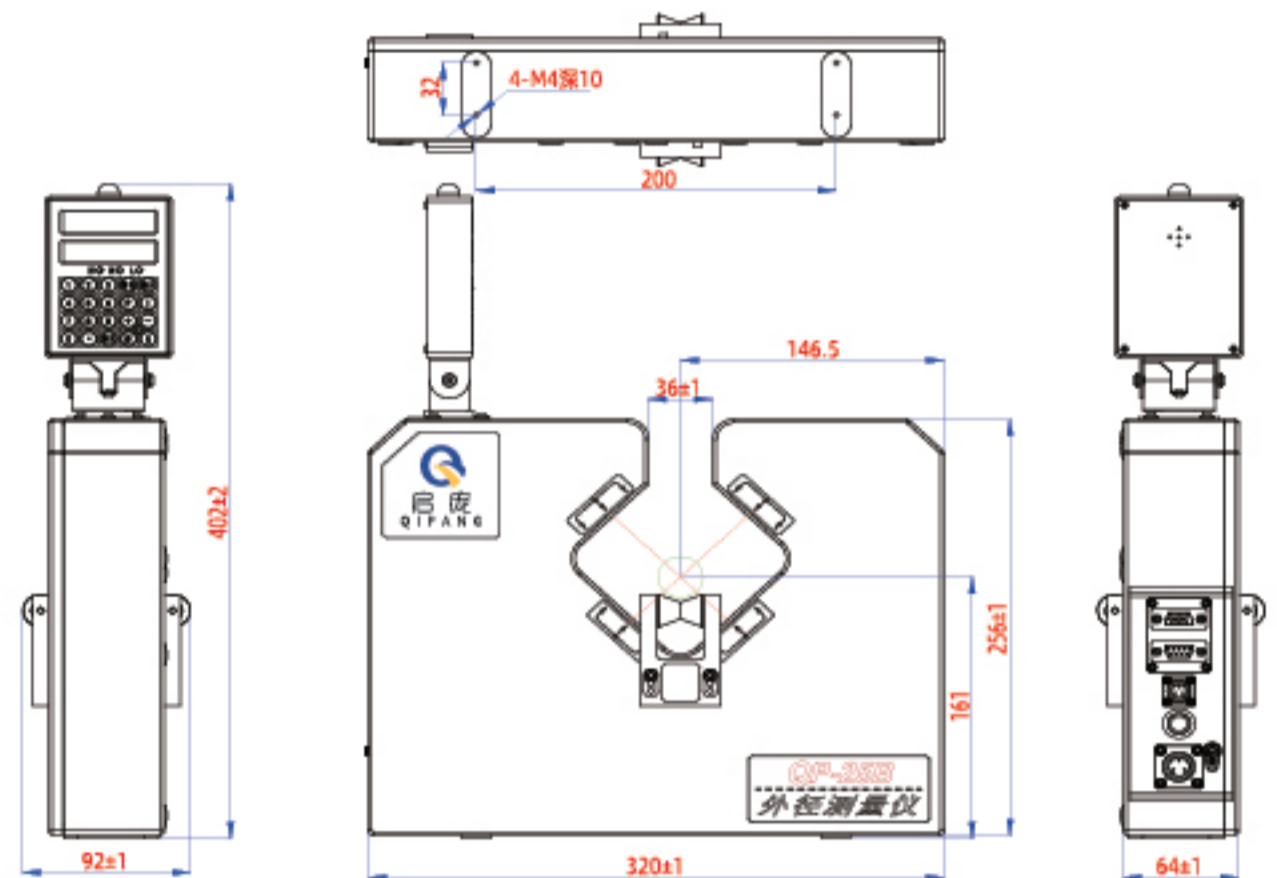
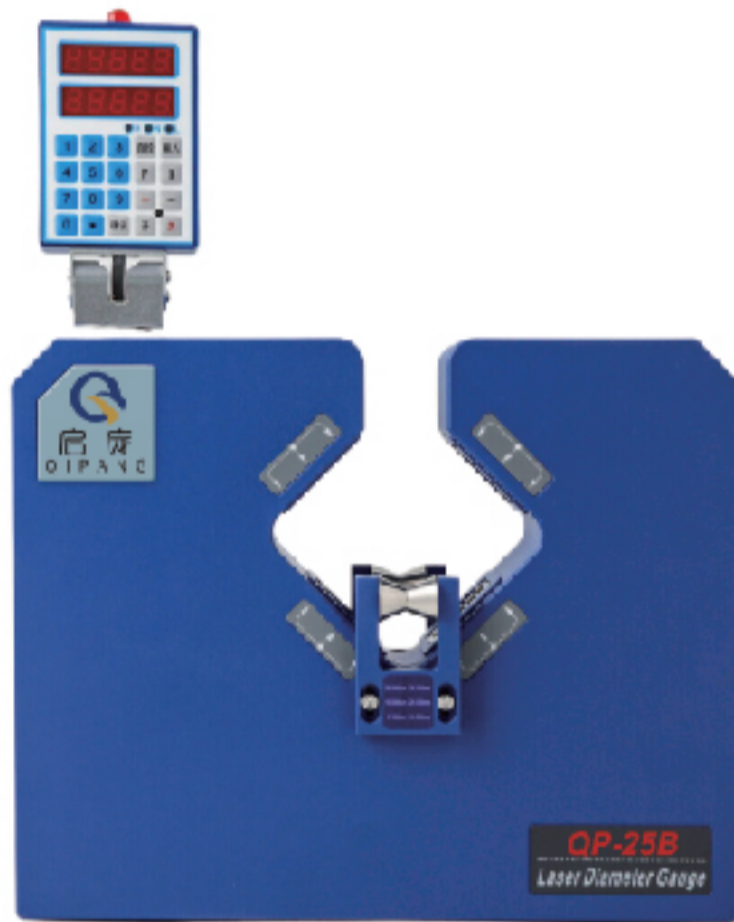


单向大口径参数表 Large caliber single axis Parameter Table

型号 Model	QP-60A	QP-70A	QP-100A	QP-200A
测量范围 Measuring range	0.1mm-60mm、 1/256"-2 3/8"	0.1mm-70mm、 1/256"-2 3/4"	1mm-100mm、 1/25.4"-3 15/16"	1mm-200mm、 1/25.4"-7 7/8"
测量精度 Measuring accuracy	±2μm	±10μm±0.008%Dz mm("Dz"为被测物的实际直径大小) ("Dz" is the actual diameter of the measured object)		
分辨率 Resolution	0.001mm			
产品尺寸(L*W*H) Product size	575*64*354mm	575*64*354mm	575*64*378mm	750*64*465mm
重量 Weight	7.1KG	8KG	10KG	12KG
测径仪扫描速度 Scanning speed of diameter gauge	1000次扫描周期/秒 1000 times scanning cycle/second			
仪器供电电压 Power supply voltage	100-240VAC/10A.50/60Hz			
环境温度 Ambient temperature	0 ~ 45°C			
相对湿度 Relative humidity	≤85%(无冷凝水)(no condensationwater)			
显示方式 Display means	双排5位数码管显示 two-row5-digit pipe display			
通讯接口 Communication interface	RS485 (support Modbus RTU)			
功耗 Power consumption	≤15W(外带适配器+40W)(with adapter+40W)			

产品外形及安装尺寸

Product appearance and installation size

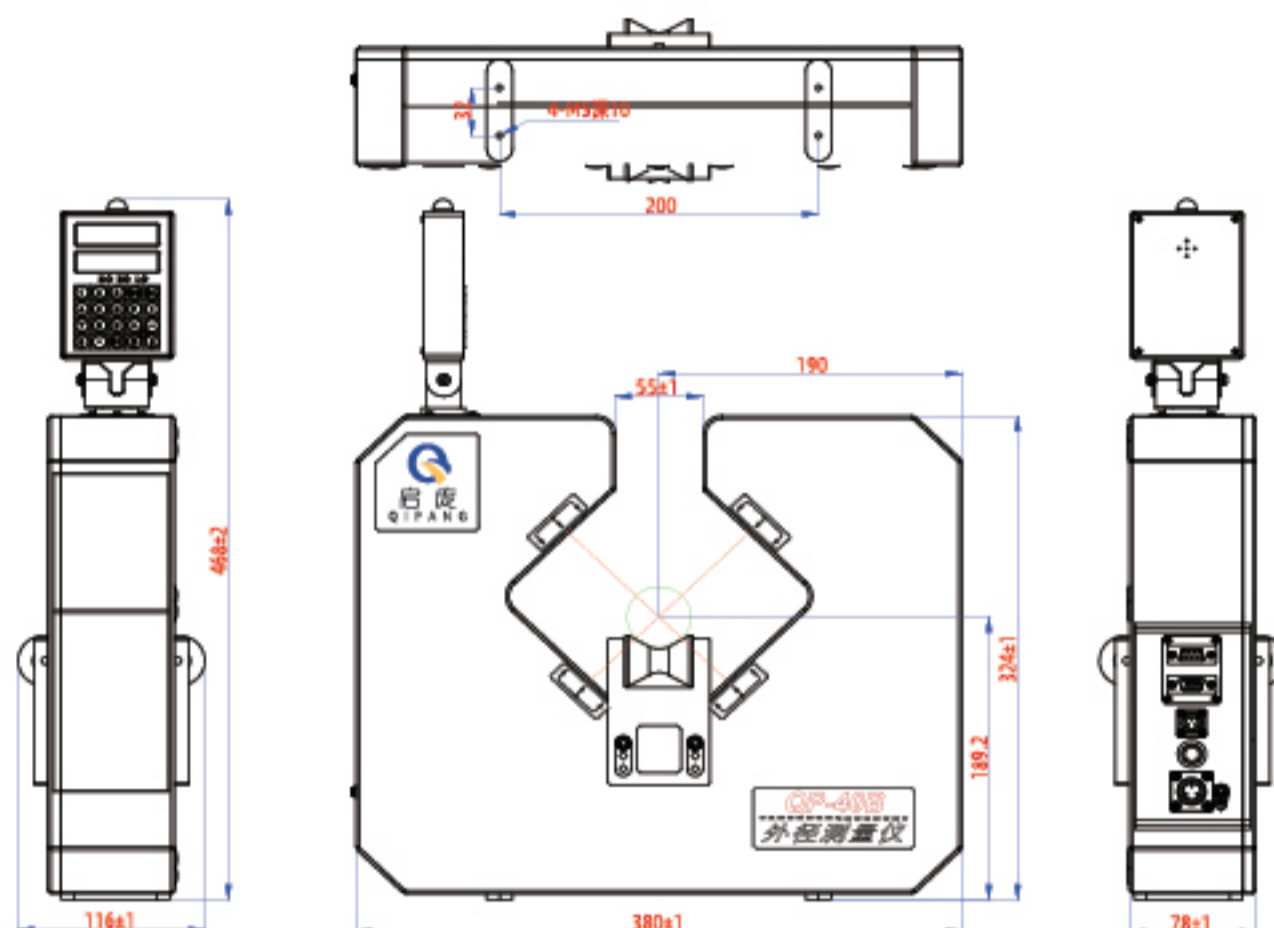
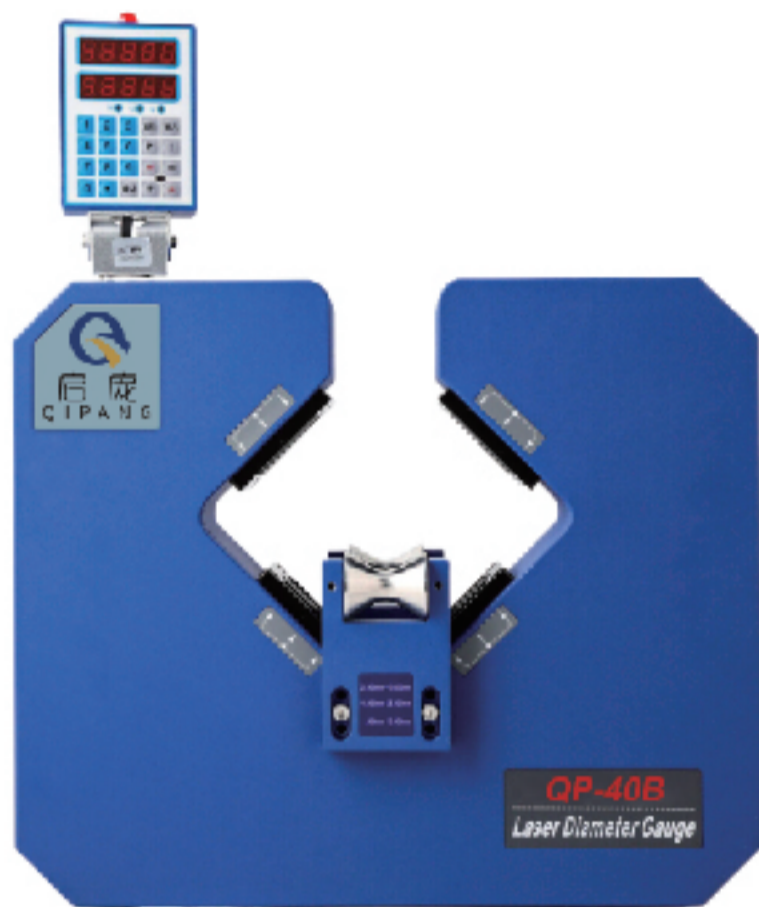


参数表 Parameter Table

型号 Model	QP-25B
测量范围 Measuring range	0.1mm-25mm、1/256"-63/64"
测量精度 Measuring accuracy	$\pm 2\mu\text{m} \pm 0.008\%Dz$ mm ("Dz"为被测物的实际直径大小) ("Dz" is the actual diameter of the measured object)
测径仪扫描速度 Scanning speed of diameter gauge	1000次扫描周期/秒 1000times scanningcycle/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ
环境温度 Ambient temperature	0 ~ 45°C
相对湿度 Relative humidity	$\leq 85\%$ (无冷凝水)(no condensationwater)
显示方式 Display means	双排5位数码管显示 two-row5-digit pipe display
工作频率 Working frequency	50/60Hz
通讯接口 Communication interface	RS485 (support Modbus RTU)
产品尺寸 Product size	320*64*402mm
功耗 Power consumption	$\leq 15\text{W}$
重量 Weight	5.2KG

产品外形及安装尺寸

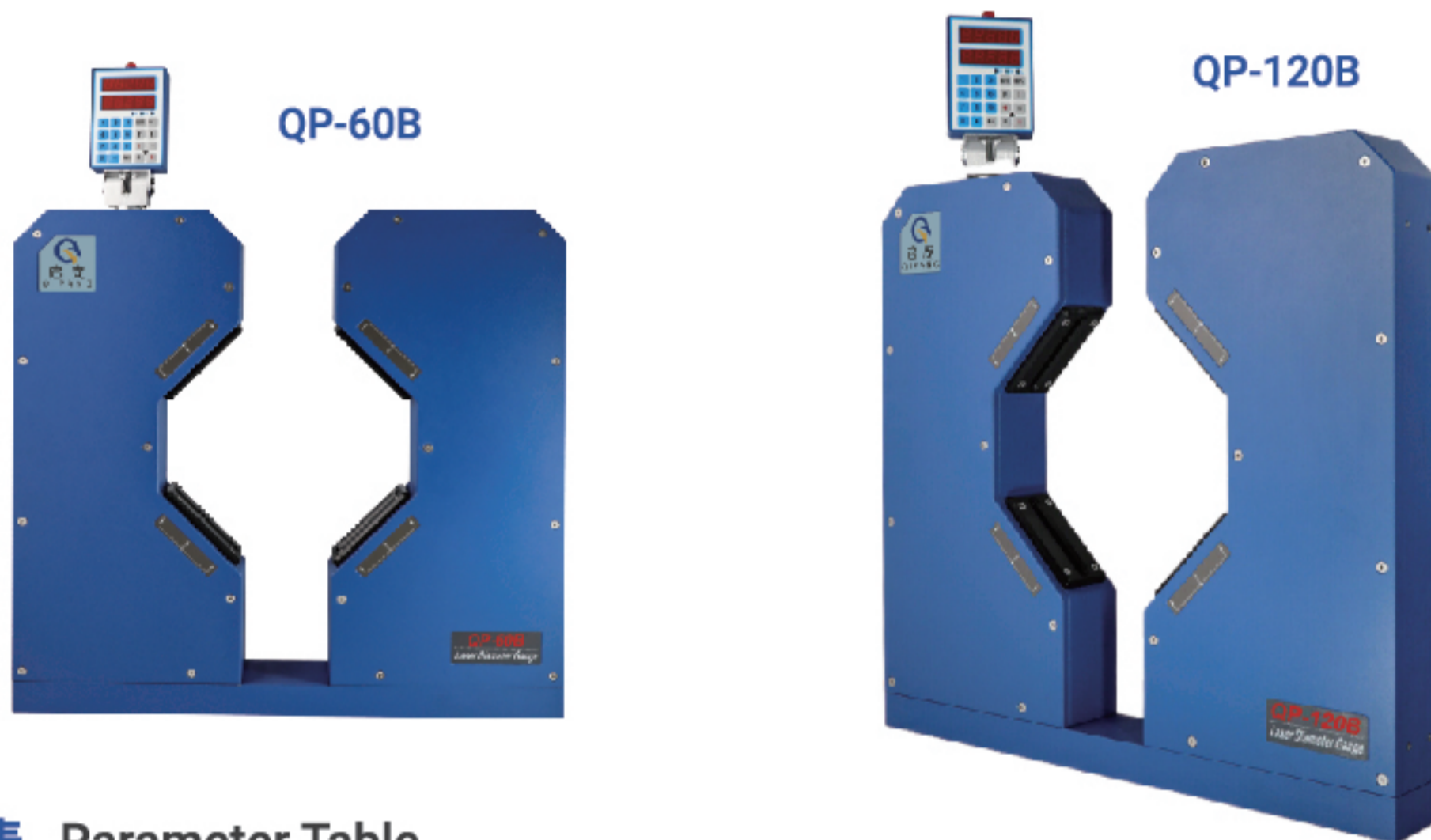
Product appearance and installation size



参数表 Parameter Table

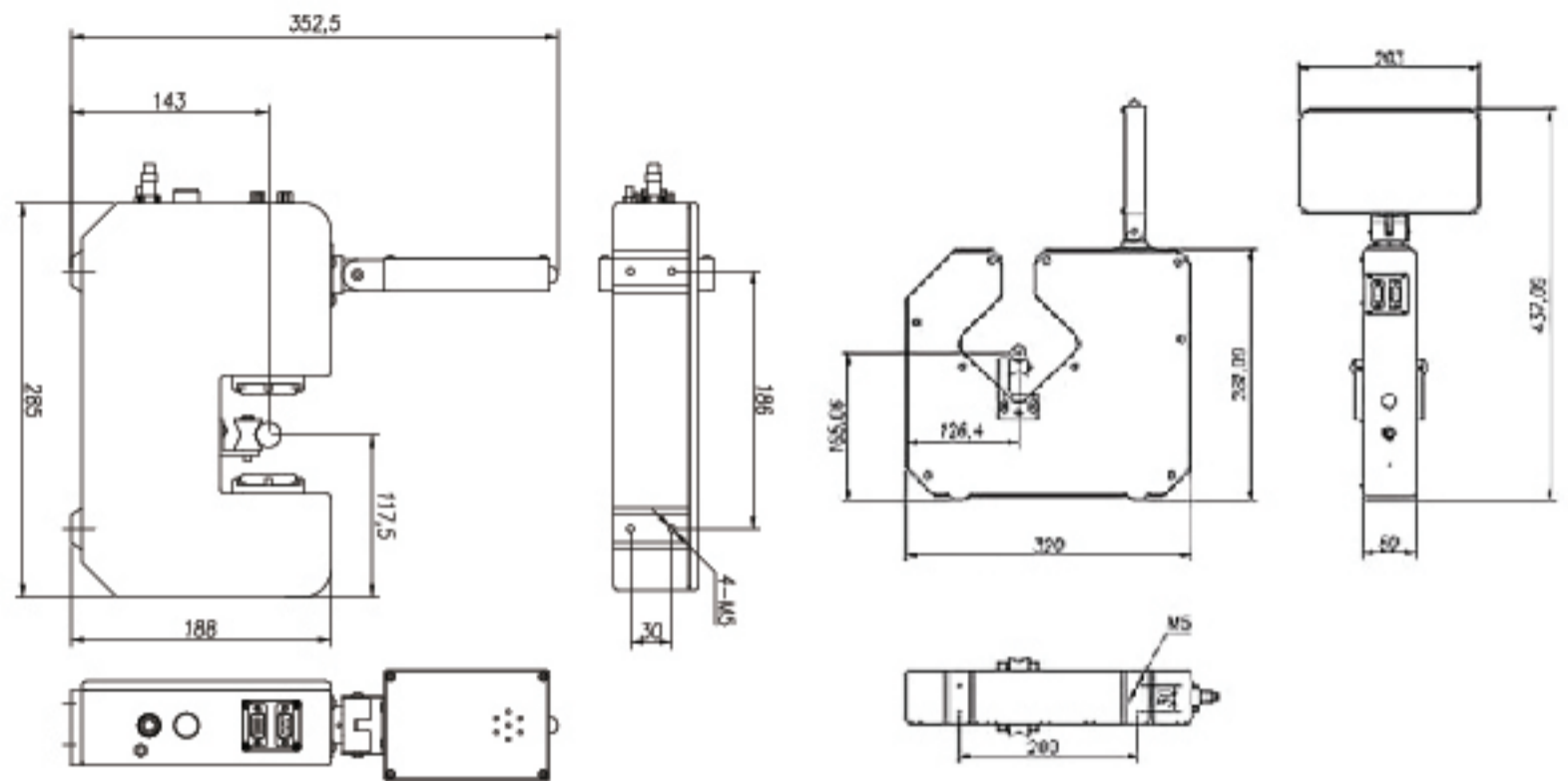
型号 Model	QP-40B
测量范围 Measuring range	0.1mm-40mm、1/256"-1 37/64"
测量精度 Measuring accuracy	$\pm 2\mu\text{m} \pm 0.008\%D_z$ mm ("Dz"为被测物的实际直径大小) ("Dz" is the actual diameter of the measured object)
测径仪扫描速度 Scanning speed of diameter gauge	1000次扫描周期/秒 1000times scanningcycle/second
分辨率 Resolution	0.001mm
仪器供电电压 Power supply voltage	AC220V \pm 10% 50HZ
环境温度 Ambient temperature	0 ~ 45°C
相对湿度 Relative humidity	$\leq 85\%$ (无冷凝水)(no condensationwater)
显示方式 Display means	双排5位数码管显示 two-row5-digit pipe display
工作频率 Working frequency	50/60Hz
通讯接口 Communication interface	RS485 (support Modbus RTU)
产品尺寸 Product size	380*116*468mm
功耗 Power consumption	$\leq 15\text{W}$
重量 Weight	8.3KG

产品外形 Product appearance



参数表 Parameter Table

型号 Model	QP-60B	QP-70B	QP-100B	QP-120B
测量范围 Measuring range	0.1mm-60mm、 1/256"-2 3/8"	0.1mm-70mm、 1/256"-2 3/4"	1mm-100mm、 1/25.4"-3 15/16"	1mm-120mm、 1/25"-4 23/32"
测量精度 Measuring accuracy	$\pm 5\mu\text{m} \pm 0.008\%$ Dz mm	$\pm 10\mu\text{m} \pm 0.008\%$ Dz mm ("Dz" is the actual diameter of the measured object)		
分辨率 Resolution	0.001mm			
产品尺寸 (L*W*H) Product size	500*64*615mm	500*64*615mm	550*64*665mm	540*78*505mm
重量 Weight	8.3KG	11.8KG	14KG	15.7KG
测径仪扫描速度 Scanning speed of diameter gauge	1000次扫描周期/秒 1000 times scanning cycle/second			
仪器供电电压 Power supply voltage	AC220V $\pm 10\%$ 50Hz			
环境温度 Ambient temperature	0 ~ 45°C			
相对湿度 Relative humidity	$\leq 85\%$ (无冷凝水)(no condensation water)			
显示方式 Display means	双排5位数码管显示 two-row 5-digit pipe display			
工作频率 Working frequency	50/60Hz			
通讯接口 Communication interface	RS485 (support Modbus RTU)			
功耗 Power consumption	$\leq 15\text{W}$			



参数表 Parameter Table

型号 Model	SCR-25AR	SCR-25BR
测量轴数 Measuring axis number	单轴 Single Axis	双轴 Double Axis
测量范围 Measuring range	0.1mm-25mm、1/256"-63/64"	0.1mm-25mm、1/256"-63/64"
测量精度 Measuring accuracy	±0.002mm	±0.002mm
测径仪扫描速度 Scanning speed of diameter gauge	600-1000次/秒 600-1000 times/second	
分辨率 Resolution	0.001mm	
通讯接口 Communication interface	RS485 (support Modbus RTU)	
仪器尺寸 Instrument size(mm)	290*66*170	320*60*280
重量 Weight	5KG	6.5KG

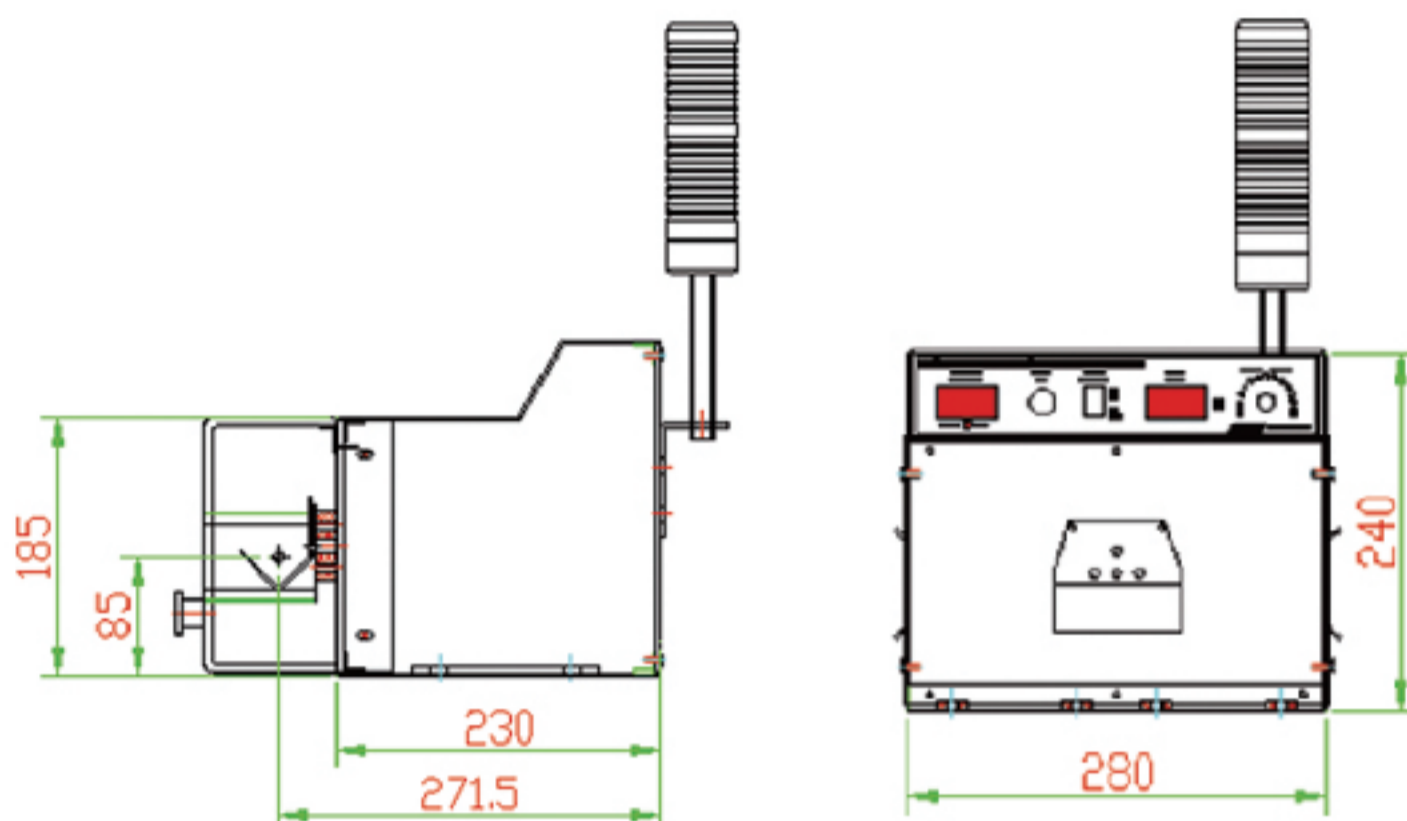
参数表 Parameter Table

型号 Model	SCR-25BYB
测量范围 Measuring range	0.1mm-25mm、1/256"-63/64"
测量精度 Measuring accuracy	±0.002mm
MES系统数据接口、RS485接口、以太网接口 Data interface of MES system, RS485 interface, Ethernet interface	
测量数据实时显示/记录存储 Real-time display and recording storage of measurement data	
记录历史报警数据、报警位置、报警值大小 Record historical alarm data, alarm position, alarm value size	
记录历史测量过程曲线、任意查询 Record historical measurement process curves, and arbitrary query	
数据处理功能:最大值、最小值、平均值 Data processing functions: maximum value, minimum value, average value	
U盘存储和打印支持 USB storage and printing support	
测试软件,PLC,人机触摸显示屏 Test software, PLC, human-machine touch display screen	
控制系统刹车 Brake control system	
摇摆速度和高度可调 Swing speed and height adjustable	
旋转测量头装置 Rotating measurement head device	



产品外形及安装尺寸

Product appearance and installation size



参数表 Parameter Table

型号 Model	SCRO15K
品名 Description	高频火花试验机RS485 (Modbus RTU) High-frequency spark machine RS485(Modbus RTU)
检测电压 Detect voltage	0-10KV
受检线最大外径 The maximum outer diameter of the inspected line	≤φ10mm
检测速度 Detect speed	≤1000m/min
电极尺寸 Electrode size	80mm
电极形式 Electrode form	串珠/铜刷/碳纤维刷/滚轮 Beads/Brass brush/Carbon fiber brush/roller
检测灵敏度 Detection sensitivity	≤0.6mA
最高击穿计数频率 Maximum breakdown counting frequency	10次/秒10 times per second
安全联锁 Safety interlock	开门停机可断电The machine will stop automatically when the door is opened and power is cut off
输出频率 Output frequency	3000HZ
机器尺寸 Machine size	280*280*400mm
重量 Weight	25KG

高频火花机是一种快速而可靠的品检工具，用以在线检测各类电线电缆等导体绝缘层之针孔、破皮、裸铜等外被绝缘不良点的精密仪器。它可以快速的检测出导体外被缺陷而不会破坏外被内的电导体。此高频火花试验机是信赖度很高的品管利器。根据UL1581及CSA标准，施加电线波峰不少于18次。

The high-frequency spark machine is a fast and reliable inspection tool used for online detection of various insulating layer defects such as pinholes, broken skins, exposed copper, etc. on the insulation of conductive wires and cables. It can quickly detect the external defects of the insulation layer of the conductive body without damaging the internal electrical conductors. This high-frequency spark testing machine is a highly reliable quality control tool. According to UL1581 and CSA standards, the wire peak should be applied no less than 18 times.

产品外形

Product appearance



本机优点: 具有数据记录、保存、联网功能。知道每个火花报警点的位置、时间、米数、人员等信息, 能数据追溯, 可工业4.0联网管控, 确保出货的每米电线品质可控, 让品管无死角。

Machine advantages: It has the functions of data recording, storage and networking.

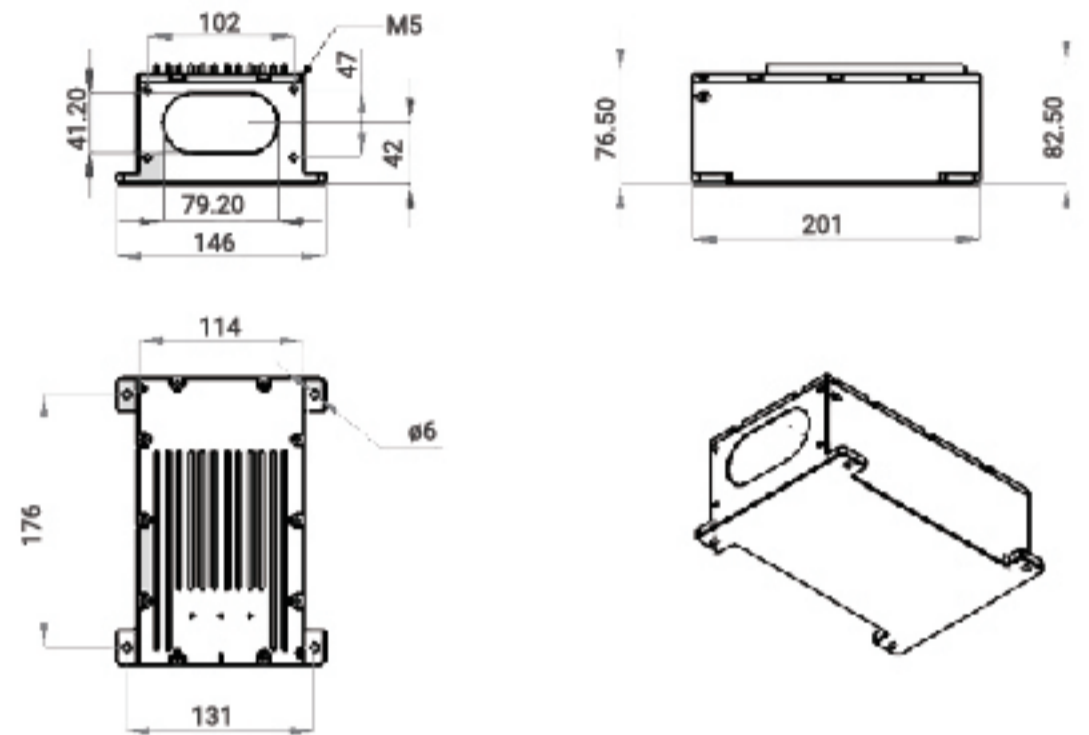
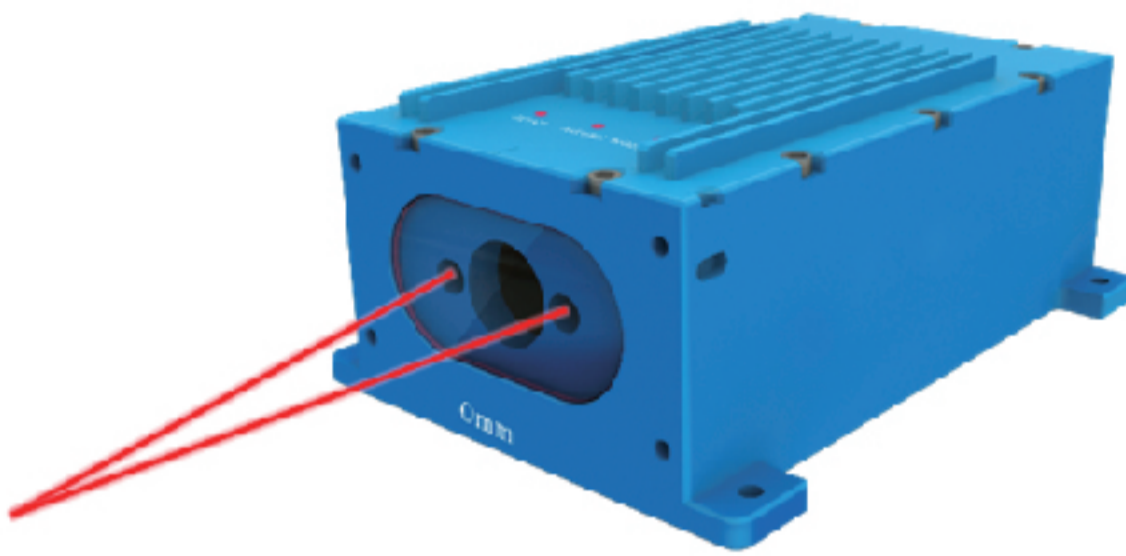
Knowing the location, time, distance and personnel information of each spark alarm point, it enables data traceability. It can be connected to the Industrial 4.0 network for control, ensuring that the quality of each meter of wire produced is controllable, and eliminating any blind spots in quality control.

参数表 Parameter Table

型号 Model	SCRO15K	SCRO25K
品名 Description	工频火花试验机 Power frequency spark Testing Machine	
检测电压 Detect voltage	0-15KV	0-25KV
受检线最大外径 The maximum outer diameter of the inspected line	≤φ30mm	≤φ40mm
检测速度 Detect speed	150/540m/min(u/GB)	116/420m/min(u/GB)
电极尺寸 Electrode size	450mm	350mm
电极形式 Electrode form	串珠/铜刷/碳纤维刷/滚轮 Beads/Brass brush/Carbon fiber brush/roller	
检测灵敏度 Detection sensitivity	≤0.6mA	
最高击穿计数频率 Maximum breakdown counting frequency	10次/秒10 times per second	
安全联锁 Safety interlock	开门停机可断电The machine will stop automatically when the door is opened and power is cut off	
输出频率 Output frequency	3000HZ	
机器尺寸 Machine size	1100*500*1350mm	1040*590*1300mm
重量 Weight	105KG	130KG

产品外形及安装尺寸

Product appearance and installation size



参数表 Parameter Table

精度 Precision	0.05%
重复性误差 Repeatability error	0.02%
方向 Direction	自动检测（双方向） Automatic detection (in both directions)
最小速度 Minimum speed	0 (双方向) 0.3m/min (单方向) 0 (in both directions) 0.3 meters per minute (in one direction)
最大速度 Maximum speed	20000m/min
允许加速度 Allow acceleration	600m/s ²
供电电压 Power supply voltage	20~28 VDC
功率消耗 Power consumption	<11W
温度范围 Temperature range	-30°C ~ 55°C
抗电磁干扰等级 Anti-electromagnetic interference level	标准四级 Standard Level 4
清零模式 Reset mode	高电平, 低电平, 上升沿, 下降沿 High level, low level, rising edge, falling edge
信号输出 Signal output	AB脉冲, RS422, RS485 AB pulse, RS422, RS485
脉冲参数 Pulse parameters	5v/24v可选 5V/24V options available
脉冲输出 Pulse parameters interference level	可编程 Programmable
工业协议 Industrial protocol	Modbus
采样时间 Signal output	多种选择, 最快0.01ms Multiple options, fastest 0.01ms
防护等级 Protection level	IP66

用途 Usage

适用于各种电缆线, 电源线, 护套线、硅胶线, 芯线绞合的过粉生产过程。
suitable for all kinds of cable, power cord, sheath wire, silicone wirecore wire stranded over powder production process.

工作原理 Working principle

通过喷粉方式, 加注静电使电线表面自动吸附滑石粉。
through the way of powder spraying, adding static electricity to make the wire surface automatically adsorption talc powder

优点 Advantages

- 1.使线材绝缘层表面上粉更均匀, 稳定。
 - 2.可以调控线材上粉的密度(粉量), 适合各种客户的不同要求
 - 3.使用内部循环系统, 减少滑石粉泄漏, 漂浮环境中, 能改良工作环境。
 - 4.自动加粉功能: 缺粉或中途加粉无需人工手动加粉。
 - 5.先进的滤网清洁模式, 保养清洁设备周期更长。
- 1.the wire insulation layer on the surface of powder more uniform, stable.
 - 2.can adjust the density of wire powder (powder amount) , suitable for a variety of customers with diferent requirements.
 - 3.Use internal circulation system, reduce talc leakage, floating environment, can improve the working environment.
 - 4.automatic adding powder function: lack of powder or add powder halfway without manual add powder .
 - 5.advanced net cleaning mode, maintenance and cleaning equipment longer cycle.



参数表 Parameter Table

型号 Model	QP-6A
中心高度 Center height	1000mm(支持1000mm以上定做) 1000mm(support more than 1000mm custom
通过最大线径 Through the maximum line diamete	38mm(38mm以上外径可定做) 38mm(more than 38mm outside diameter can be customized
电源 Power supply	220V AC 50/60HZ
最大功率 Maximum power	2.2KW
气源气压 Air supply pressure	0.5MPa以上(5KG)0.5 mpa or more (5KG)
滑石粉 Talcum powder	800目或以上 800 mesh or above
机台尺寸(mm*mm*mm) Machine size(mm*mm*mm)	长*宽*高860*970*1615 Length*width*height860*970*1615
重量 Weight	325KG

用途 Usage

适用于各种电缆线, 电源线, 硅胶线, 裸铜线等, 过油生产过程。

Suitable for various cable lines, power lines, silicone wires, bare copper wires. etc., in the oil production process.

工作原理 Working principle

通过加压雾化油质喷涂方式, 油路自动循环。

through pressure atomization oil spraying, oil circuit automatic circulation.

优点 Advantages

- 1.使线材绝缘层表面上油更均匀, 油量更稳定。
- 2.可以调整喷头出油大小, 适合各种客户的不同要求。
- 3.使用内部循环系统, 减少油质外漏, 漂浮环境中, 能改良工作环境。
- 4.缺油, 缺气报警提示。

- 1.so that the wire insulation layer on the surface of oil more uniform. more stable oil.
- 2.can adjust the size of the nozzle oil, suitable for a variety of customers with different requirements.
- 3.Use internal circulation system, reduce oil leakage, floating environment can improve the working environment.
- 4.lack of oil, gas alarm tips.



参数表 Parameter Table

型号 Model	QP-B2
中心高度 Center height	1000mm(支持1000mm以上定做) 1000mm(support more than 1000mm custom)
通过最大线径 Through the maximum line diamete	35mm(35mm以上外径可定做) 35mm(more than 35mm outside diameter can be customized)
线速 Line speed	0-500M/min
电源 Power supply	220V AC 50/60HZ
最大功率 Maximum power	2.2KW
气源气压 Air supply pressure	0.5MPa以上(5KG)0.5 mpa or more (5KG)
机台尺寸(mm*mm*mm) Machine size(mm*mm*mm)	长*宽*高760*800*1600 Length*width*height760*800*1600
重量 Weight	200KG

产品外形 Product appearance



参数表 Parameter Table

型号 Model	QP20-1	QP20	QP21	QP22	QP23	QP25	QP26
款式 Type	标准款 Standard	标准款 Standard	新款(安全型) New Safety Type	中型加大 Medium Enlarged	标准加大 Standard Enlarged	柜式加大 Cabinet-style Enlarged	铁丝专用 Specialized for iron wire
功率 Power	6KVA	10KVA	10KVA	12KVA	16KVA	16KVA	8KVA
铜轮直径 Copper wheel diameter	200mm	200mm	200mm	250mm	310mm	310mm	160mm
预热温度 Preheating temperature	动态 Dynamic 0-200°C		静态 Static 0-400°C				
适用导体直径 Applicable conductor diameter	绞合 Stranded wire 0.5-2mm	绞合 Stranded wire 0.5-3mm	绞合 Stranded wire 0.5-3mm	绞合 Stranded wire 0.5-4mm	绞合 Stranded wire 0.5-5mm	绞合 Stranded wire 0.5-5mm	双支 Double-wire 0.3-0.7mm
	单支 Single wire 0.5-1.5	单支 Single wire 0.5-1.7mm	单支 Single wire 0.5-1.7mm	单支 Single wire 0.5-2.3mm	单支 Single wire 0.5-3mm	单支 Single wire 0.5-3mm	单支 Single wire 0.3-1mm
适用材质 Applicable materials	铜线 Copper wire						铁线 Iron wire
适用最高线速 Applicable maximum speed	0-350m/min	0-450m/min	0-450m/min	0-300m/min	0-300m/min	0-300m/min	0-250m/min
电源 Power supply	AC220V	AC220V	AC220V	AC220V	AC220/380V	AC220/380V	AC220V
工作频率 Power consumption	50Hz						
工作方式 Operating mode	连续 Continuous						
适用环境 Applicable environment	≤45°C						
长*宽*高 Length*width*height	560*600*1300mm			700*650*1400mm			560*600*1300mm
机器重量 Machine weight	145KG	173KG	180KG	195KG	215KG	235KG	135KG
机器颜色 Machine color	蓝, 绿, 白 Blue, Green, White						

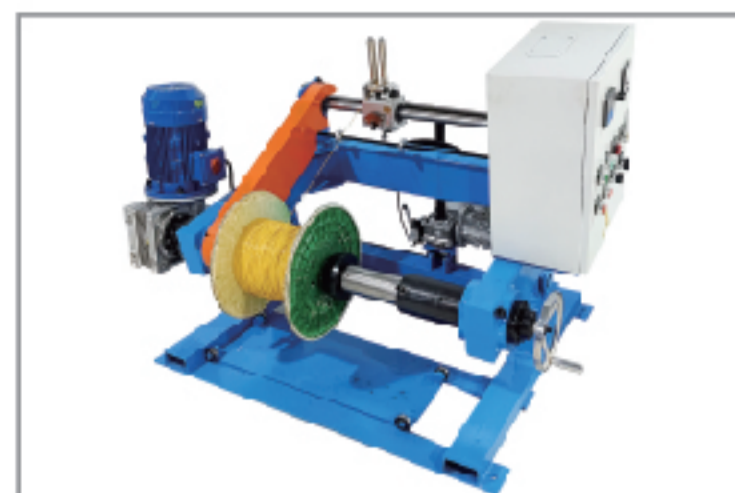
复绕机汇总 Rewinding Machine Summary



QP400 复绕机
QP400 Rewinding Machine



QP500收线机
QP500 Take-up



QP630-1400无轴收线机
QP630-1400 Shaftless Take-up



QP1200-2500端轴收线机
QP1200-2500 End-Shaft Type



QP1600-3150龙门收线机
QP1600-3150 Gantry Type



成圈机
Coil Take-up Machine
(inner hole: 120-200mm)



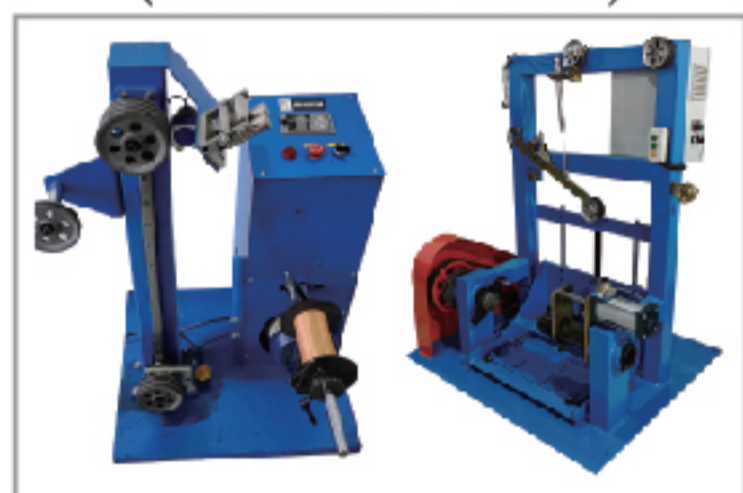
大截面成圈机
Coil Take-up Machine
(inner hole: 300-400mm)



日式放线架
Japanese Style Pay-off Rack
(400-630/630-800mm)



QP630-1400无轴被动放线机
QP630-1400 Shaftless Passive Pay-off Machine



QP400-630主动放储一体机
QP630 Active Pay-off Machine



伺服收线机
Servo Precision Take-up Machine



QP630-1400无轴主动放线机
Shaftless Active Pay-off Machine



梅花落通桶机
Plum Blossom Barrel Take-up Machine



摇盘包膜机
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