

OI-ACCURACY

高精度全自动影像测量仪

OI-A CNC OPTICAL MEASURING INSTRUMENT OPTICAL QUALITY ACCURACY



品质特征 (测量工件不动, 龙门架移动)

Quality features (no move of measuring workpiece, move the gantry tower)

- 带您进入三维复合式测量的世界:全自动龙门式大行程复合三次元测量仪。
 - 基座采用大理石(00级)材料,坚固的平台设计,保证拥有极高的稳定性及刚性。
 - 采用研磨级滚珠螺杆和精密线性导轨,配合松下高性能交流伺服系统全闭环控制,高精度,高速度,高稳定性。
 - 采用 SABEN-3D 定制高分辨率彩色工业级高清 CCD, 保证拥有高质量的测量画面,快速的测量速率。
 - 全自动变倍镜头,改变倍率后不需要重新校正。
 - 可编程四环八区 LED 表面冷光源,直轴轮廓冷光源,(选配同轴冷光源)。
 - 开放式贴片光学尺 0.0005mm。
 - 英国 Renishaw 接触式测头组及日本激光测头组。
 - 自主研发功能强大的全自动 3D 测量软件,可编程自动测量。
 - 影像,探针,激光共轴测量,可编程自动测量。
 - 可以选配 Z 轴测量范围:300mm。
- Bring you into a 3D composite measurement world: Automatic gantry big-stroke composite coordinate measuring instrument.
 - The base is made of marble (grade 00) material. With solid design of platform, it is highly stable and rigid.
 - Grinding level ball screw and precise linear guide rail are used. Coordinated with Panasonic high performance AC servo system for closed-loop control, it has high precision, high speed and high stability.
 - High-definition color CCD of industrial level from the SABEN-3D customization is used to ensure high quality measurement screen and rapid measuring rate.
 - Automatic magnification change lens is used, calibration is not required after changing magnification.
 - Programmable 4-ring-and-8-zone LED surface cold light source, with cold light source of straight axle profile (coaxial cold light source is optional).
 - Open-type mounting optical ruler 0.0005mm.
 - Renishaw contact measuring head set from Britain and laser measuring head set from Japan.
 - Self-reliantly developed automatic 3D measuring software with powerful function, enabling programmable automatic measurement.
 - Coaxial measurement of image, probe and laser, enabling programmable automatic measurement.
 - Z-axis measuring range:300mm.

OI-A 系列产品技术规格 Technical specifications of OI-A series of products

H型: 选配点激光测头组
H-type: optional laser measuring head group
M型: 地图导航系统
M-type: Map Navigation System

T型: 选配接触测头组
T-type: optional contact measuring head group
L型: 灯光升降系统
L-type: Lighting Lifting System

X型: 线激光测头组
X-type: laser probe set

仪器参数 Instrument parameter	仪器型号 Instrument model	OI-A 500	OI-A 800	OI-A 1000	OI-A 1200	OI-A 1800	OI-A 2016	OI-A 2216	OI-A 2520
		测量范围 (mm) Measuring range	X	400	600	800	1000	1200	1600
	Y	500	800	1000	1200	1800	2000	2200	2500
	Z	200	200	200	200	200	200	200	200
工作台 (mm) Working table	硬铝合金台面 Duralumin table top	640*680	800*940	1010*1210	1238*1390	1440*2020	1850*2160	1850*2410	2240*2760
	玻璃台面 Glass table top	598*638	790*890	968*1168	1198*1348	1398*1968	1798*2118	1798*2330	2198*2718
	玻璃承重 Glass load-bearing	75	75	75	75	75	75	75	75
	大理石承重 Marble load bearing	150	150	150	150	150	150	150	150

影像及 测量系统 Image and measuring system	测量速度 Measuring speed	MAX:500mm/s
	CCD	SABEN-3D定制高分辨率彩色工业级高清CCD SABEN-3D custom made high-definition color ccd of industrial level
	变焦物镜 Varifocus lens	全自动变倍: 0.7 - 4.5X Full-automatic zoom: 0.7 - 4.5X
	视频放大倍率 Video amplification zoom ratio	40 - 280X (显示器24寸) 40 - 280X (24-inch monitor)
	物方视场 Object space field	10.6 - 1.6mm
	工作距离 Working distance	82mm
	显示分辨率 Display resolution	0.0001mm

运动控制系统: 四轴全闭环控制: 三轴交流伺服马达全闭环控制, 预压线性滑轨与研磨级滚珠螺杆驱动, 伺服马达同轴控制镜头组

Motion control system: four-axis full-close-loop control: three-axis AC servo motor full-close-loop control, pre-pressing linear sliding rail and grinding level ball screw drive, stepping motor coaxial-control lens group.

重复性 Repeatability	2μm								
测量精度(μm) Measuring precision	XY轴 < (2.8+L/200)μm, Z轴(光学测量时) < (5+L/200)μm XY axis < (2.8+L/200) μm, Z-axis (optical measuring) < (5+L/200) μm								
外形尺寸 (mm) Contour dimension	1340*1100*1780	1600*1300*1780	1900*1450*1780	2140*1700*1800	2700*1900*1780	3000*2400*1850	3100*2500*1850	3450*2680*1850	
仪器重量(kg) Instrument weight	1000kg	1800kg	2600kg	3200kg	4200kg	6000kg	7000kg	11000kg	
照明 Lighting	可编程四环八区LED表面光及直轴轮廓冷光源(选配同轴冷光源),亮度可调 Program-controlled four-loop-eight-area LED surface light and direct axis contour cold light source (coaxial cold light source is optional), adjustable brightness								
电源 Power supply	220V±10%(AC) 50HZ 20A								

订货说明:

选配接触测头组①手动旋转测头组MH20I+TP20, ②单向测头PH6+TP20, ③单向经济型测头MCP

Ordering direction:

Contact measuring head sets optional: ①Automatic rotary measuring head set PH10+TP20, ②Semi-automatic rotary measuring head set RTP20+TP20, ③Manual rotary measuring head set MH20I+TP20

