

YC-S650

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Aircraft / Aerospace / Shipbuilding / Gas engine / Metallurgy
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【安全质量为本 品质卓越至上】

Safety quality first quality excellence first



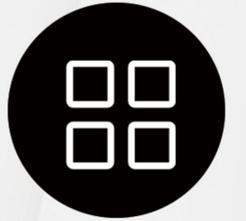
不间断供粉



质量管理



长期高效除尘



自研控制软件

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设备优势 ●●●●

Equipment Advantages

不间断供粉 / Uninterrupted powder delivery

采用上供粉与双刮刀单 / 双向铺粉结合的技术优势，同时引入供粉舱与粉末输送互联的自动化输送理念，形成完善的、稳定的供、铺粉结构。

It adopts the technical advantage of combining the upper powder supply and single/double powder spreading with double scraper, and at the same time introduces the automated conveying concept of interconnecting the powder supply cabin and powder conveying to form a perfect and stable structure of powder supply and spreading.

成形精度把控 / Build accuracy control

高精度的进口光学系统，以及光栅尺与 Z 轴闭环控制的升降结构。

High-precision imported optical system, As well as scale and Z-axis closed-loop control of the elevation structure.

自研设备控制软件 / Self-developed equipment control software

YC-CS，一款具有长周期研发的设备控制软件，已通过多种类设备的极限生产测试，具备设备电气控制与光学控制互联并行的技术优势，支持多种格式的切片数据，能够稳定的控制设备生产与管理，人工交互性强、操作性简易。

YC-CS, an equipment control software with a long period of research and development, has passed the extreme production test of many kinds of equipment, has the technical advantage of interconnecting and parallelizing the electrical control and optical control of the equipment, supports a variety of formats of slicing data, and is able to control the production and management of the equipment in a stable manner, with a strong artificial interactivity and easy operability.

质量管理 / Quality management

设备具有包含成形环境参数、成形工艺参数的成形日志、成形图像采集及粉末自动补铺的功能。

The machine is equipped with a molding log containing molding environment parameters and molding process parameters, molding image acquisition and automatic powder replenishment.

长期高效除尘 / Long-term efficient dust removal

设备具有一套 8 万小时滤芯免更换的高效率循环过滤除尘系统

The equipment has a set of 80,000 hours of cartridge-free replacement of high-efficiency filtration and dust removal system.

YC-S650 技术参数 Technical specifications of YC-S650

成形尺寸	Build Envelope	650mm×650mm×1000mm 设备标准基板厚度为 60mm	650mm×650mm×1000mm The equipment : 60mm
光学配置	Optical Configuration	IPG×4	IPG×4
分层厚度	Variable Layer Thickness	20μm ~ 100μm	20μm ~ 100μm
Z 轴重复定位精度	Z-axis Repeat Positioning Accuracy	±0.005mm	±0.005mm
成形精度	Build Accuracy	全幅面优于 ±0.1mm/ 每 100mm (高度区间)	±0.1mm/ 100mm (height range)
工作气体	Working Gas	氩气 / 氮气, 5bar ~ 7bar	Argon/nitrogen, 5bar ~ 7bar
工作氧含量	Working Oxygen Content	≤100ppm	≤100ppm
光斑直径	Spot Calibre	80μm ~ 120μm	80μm ~ 120μm
激光器光束质量	Laser Beam Quality	M2≤1.1	M2≤1.1
激光波长	Laser Wavelength	1070nm±10nm	1070nm±10nm
最大扫描速度	Maximum Scanning Speed	7m/s	7m/s
成形效率	Build Rate	100cm ³ /h	100cm ³ /h
预热温度	Preheating Temperature	RT+20°C ~ 200°C	RT+20°C ~ 200°C
铺粉机构	Powder Laying Mechanism	单 / 双向铺粉, 上方供粉方式	Single/double layer powder top powder feeding method
成形材料	Build Material	钛合金、铝合金、高温合金、钴铬合金 不锈钢、模具钢、铜合金等	Titanium alloy, aluminum alloy, superalloy, cobalt chromium alloy Stainless steel, die steel, copper alloy, etc
设备尺寸	Equipment Size	4m×1.67m×5.65m (L×W×H, 不含塌台)	4m×1.67m×5.65m (L×W×H, excluding landslide)
设备均衡功耗	Equipment Power Consumption	≤11kW	≤11kW
供电电源	Power Supply	AC380V, 50Hz, 3Ph/N/PE	AC380V, 50Hz, 3Ph/N/PE
设备重量	Equipment Weight	12000kg	12000kg