

SG ONE

矢光智能

Innovation is Drive, Power is Future

高精度切割, 強勁功率

高功率光纤激光切割机

High-Power 2D Fiber Laser

高强度床体

High Strength Machine Bed

更稳定

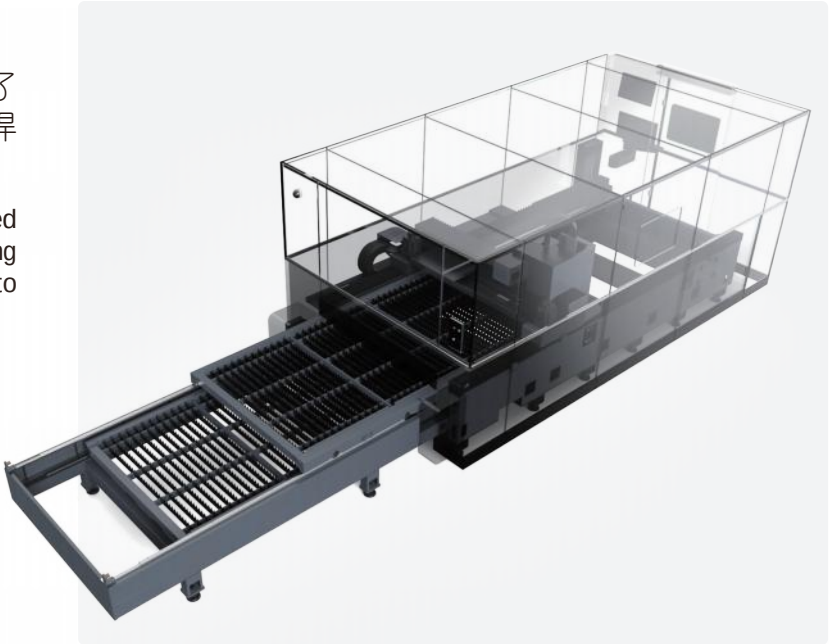
床身采用计算机有限元分析辅助优化设计，增强了刚性和强度。通过去应力退火处理，确保加重型焊接框架结构稳定且不易变形。

This bed uses computer finite element analysis for optimized design, enhancing rigidity and strength. Stress-relief annealing ensures the weighted welded frame is stable and resistant to deformation.

板材焊接床身：一体式结构

高强度钢焊接床身采用坡口焊接，实现等强对接，抗拉强度与母材一致，不易开裂。经过应力退火处理，确保结构耐用且变形极小。

The high-strength steel welded bed uses groove welding for equal-strength butt joints, matching the tensile strength of the base metal without tearing. Stress annealing ensures durability and minimal deformation.



全钢横梁

Cast Steel Gantry

经典龙门结构

Classic Gantry Structure

稳定坚固耐用
Stable, sturdy and durable.

强化工艺

Enhanced Processment

钢制横梁为矩形钢材增加钢筋板焊接而成，然后进行退火去应力后加工而成。
The steel gantry is made of reinforced plates welded onto rectangular steel bars,followed by annealing process to relieve stress.

耐久性强

Strong durability

钢材本身耐腐蚀性强, 全钢横梁使用寿命长。此外, 具有较高的机械强度和承载能力。
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1

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2

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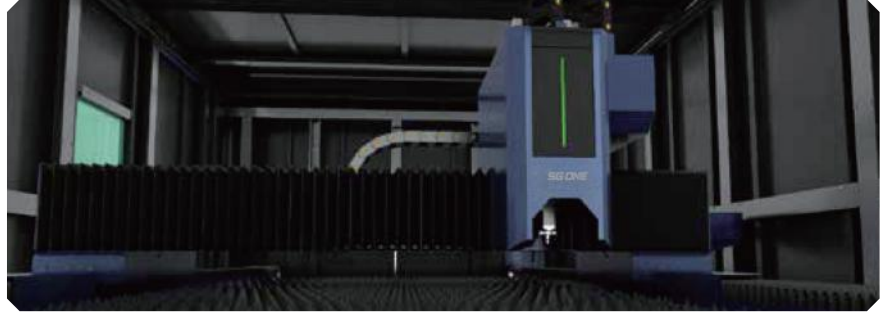


高精度传送系统

High-precision Transmission System

采用日本BETTO齿轮箱及优质元件的高精度传动系统，确保长期耐用性和可靠性。
High-precision transmission system with Japanese BETTO gearboxes and premium components ensures long-term durability and reliability.

搭载双台伺服电机，整机空运行速度200m/min，加速度1.8G
Equipped with dual servo motor, which provides the ultimate dynamic performance with nano-scale precision of movement.



采用台湾进口防尘滑块，运行稳定可靠，承载力高，精度高。

Dust-proof slider imported from Taiwan, stable and reliable, with high load-bearing capacity and high precision.



HypCut 控制系统

HypCut Control System

震动抑制

Vibration Suppression

寻边校准

Edge finding Calibration

灵活插单

Flexible job Adding

异常诊断

Faulty Diagnosis

无感穿孔

Smooth Piercing

实现了系统+调高集成方案，使得激光加工也可以 X、Y、Z 三轴无缝联动，随控一体。空移 → 切割，没有停顿感，行云流水。

The integrated system and height adjustment enable seamless XYZ three-axis linkage and control during laser processing.

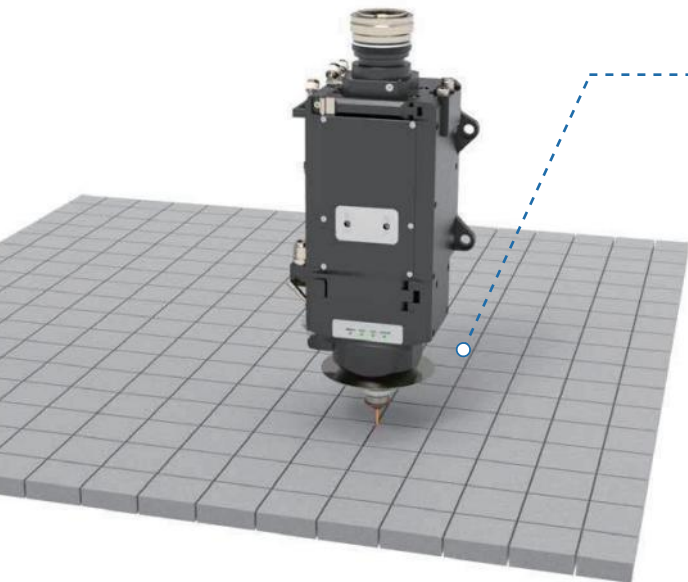
传统算法

Conventional

传统的 S 型加减速算法，加速越猛，减速冲击越大，导致设备磨损加剧，缩短寿命。

The conventional S-curve acceleration/deceleration algorithm with more aggressive acceleration, results in greater deceleration impact, leading to increased equipment wear and shortened life span.





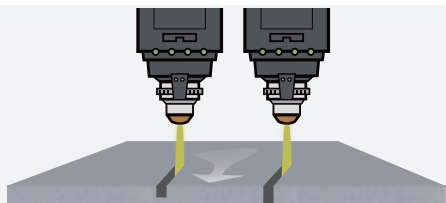
穿孔检测

Piercing detection

智能检测功能可在共边位置判断是否需要穿孔，若板材位置偏移，则执行穿孔操作；若位置准确，则直接切割，从而大幅提升加工效率。

Smart detection checks edge piercing needs, performs piercing for misalignment, and cuts directly for alignment, boosting efficiency.

过程监控 Auto Recut



通过切割头内部传感器实时监控切割过程，当监测到返渣未切透区域则自动回退进行重新切割，实现无人值守的智能加工。

If an part is not cut through, the cutting head will return and cut it again.

保护镜温度检测

Protetive Temperature Monitoring



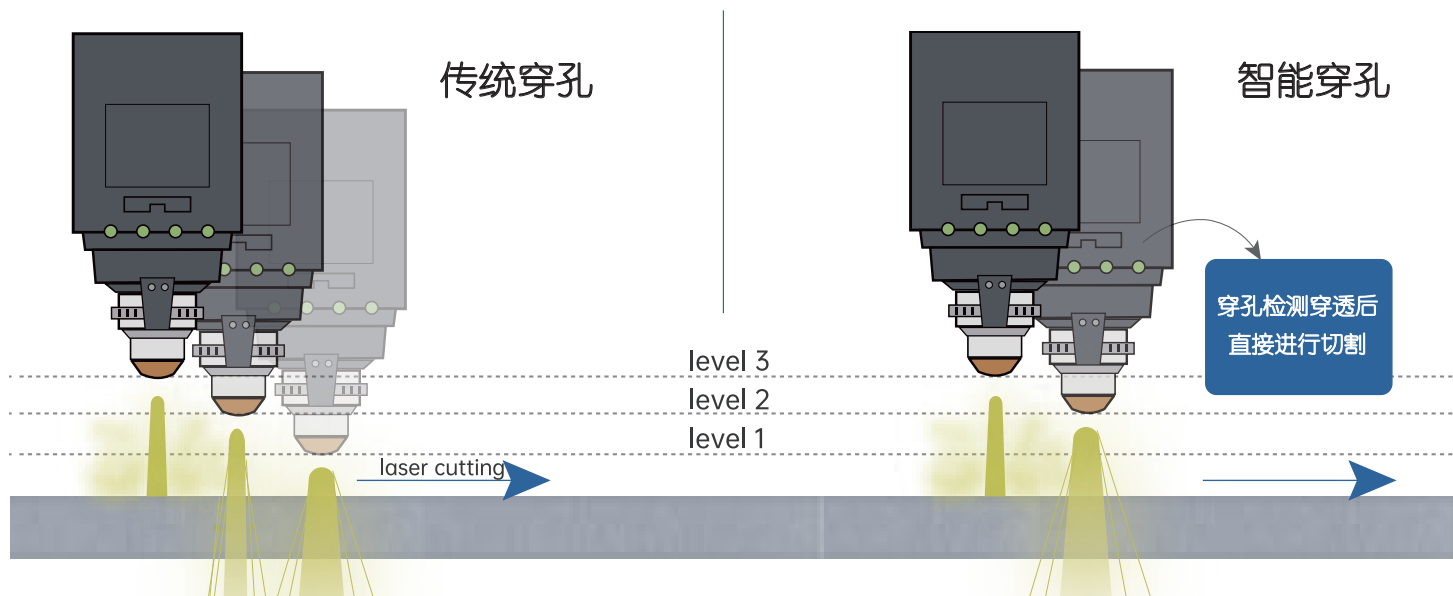
实时监测切割过程中保护镜温度，当保护镜出现污染时，系统及时停光报警，有效降低因保护镜污染照成的切割不良。

Real time temperature monitoring to limit risk of protective window shattering, enhance processing stability.

智能穿孔 Smart Piercing

通过传感器实时监控穿孔过程，孔穿透后立即切割，无需等待，极大提高加工效率，降本增效。

Monitoring the piercing and cut immediately after piercing to improve the efficiency and reduce cost.



GP SERIES

1500W-20000W

交换平台板材光纤激光切割机

Fiber Laser Sheet Cutting Machine with Exchange Platform



全包围式结构

FULL ENCLOSED STRUCTURE

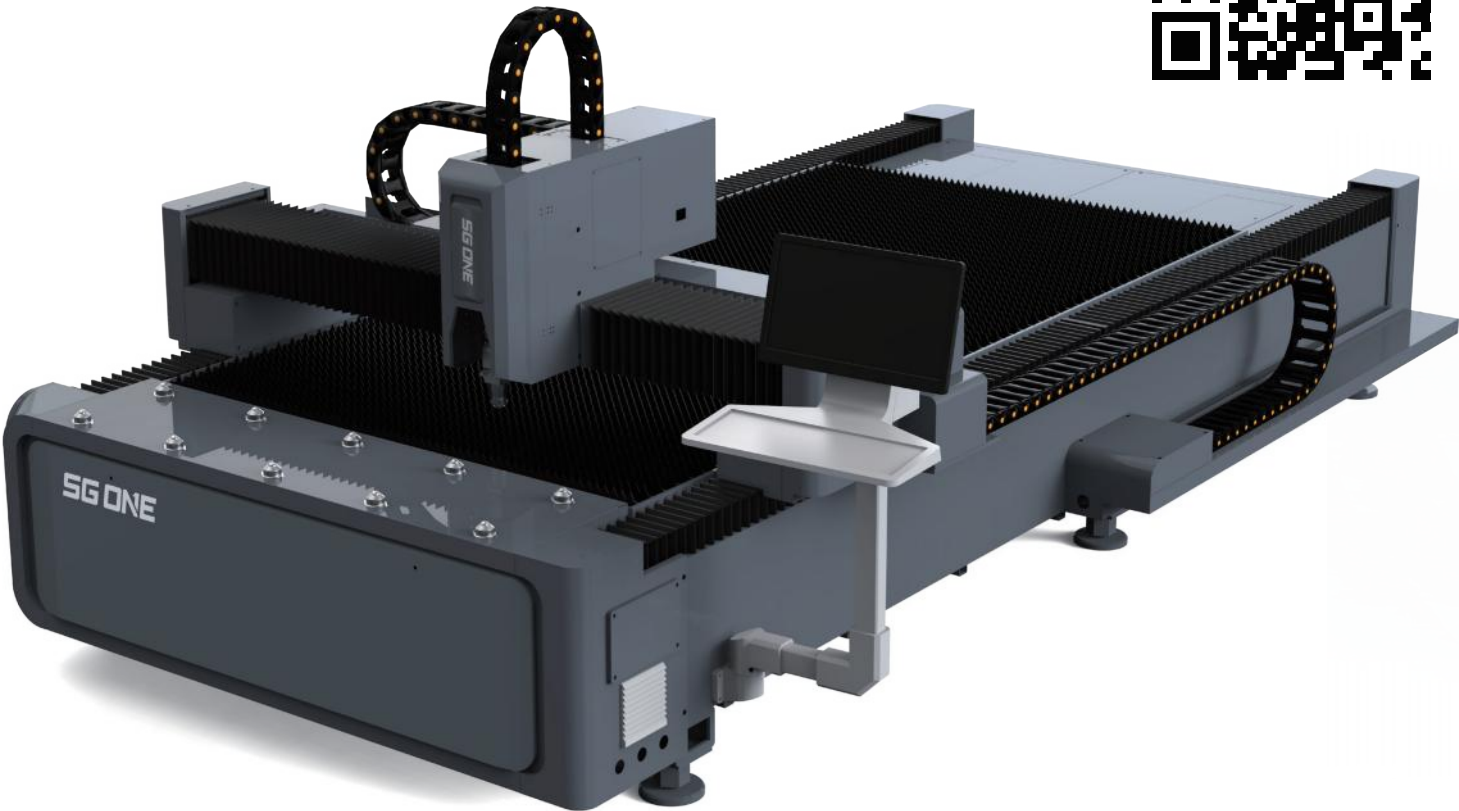
全封闭结构，专属光纤波长可视防护罩，标配分区除尘系统等细节，防尘、防烟、防辐射，让您拥有安全无污染的生产环境。
Fully enclosed structure, exclusive fiber optic wavelength visible protective window, standard partition dust removal system and other details, dust-proof, smoke proof, and radiation proof, allowing you to have a safe and pollution-free production environment.

技术参数	GP-3015	GP-4020	GP-6025	GP-8025
工作幅面	3050*1530mm	4000*2000mm	6100*2550mm	8000*2500mm
最大联动速度	130m/min	130m/min	150m/min	150m/min
最大加速度	1.2G	1.2G	1.5G	1.5G
X/Y轴定位精度	±0.03mm/m	±0.03mm/m	±0.05mm/m	±0.05mm/m
X/Y轴重复定位精度	±0.02mm/m	±0.02mm/m	±0.04mm/m	±0.04mm/m
设备尺寸(mm)	9100*3000*2200	11100*3600*2200	15350*4050*2400	19950*4050*2400

GA SERIES 1500W-12000W

单台面板材光纤激光切割机

Single Platform Fiber Laser Sheet Cutting Machine



飞行切割 智能防撞

FAST CUTTING INTELLIGENT ANTI-COLLISION

采用飞行快速切割，极速穿孔工艺，内置智能防撞系统，批量切割板材质量稳定效率高。
It adopts flying fast cutting, extremely fast perforation process, built-intelligent anto-collision system,
and batch cutting of plates Stable quali-tyand high efficiency.

技术参数	GA-3015	GA-4020	GA-6025	GA-14032	GA-25032
工作幅面(mm)	3050*1530	4000*2000	6000*2500	14000*3200	25000*3200
最大联动速度	100m/min	100m/min	120m/min	120m/min	120m/min
最大加速度	0.8G	0.8G	1.0G	1.0G	1.0G
X/Y轴定位精度	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.05mm/m	±0.05mm/m
X/Y轴重复定位精度	±0.02mm/m	±0.02mm/m	±0.02mm/m	±0.04mm/m	±0.04mm/m
设备尺寸(mm)	4800*2400*1900	6000*3300*1950	8000*3900*2000	19000*4200*1900	29000*4200*1950

GL SERIES 6000W-120000W

龙门式板材光纤激光切割机

Gantry Type Fiber Laser Cutting Machine



龙门式结构，可根据需求定制尺寸

Gantry type, Custom sizes available upon request.

坡口角度范围0-45°，坡口切割材料厚度30mm-80mm，支持坡口切割类型：V型、X型、Y型等不同类型坡口。

Bevel angle range 0°-45 bevel cutting material thickness 30mm supportbevel cutting type V,X,Y and other different types of bevel.

技术参数	GL13035	GL14035	GL16045	GL25040
工作幅面	13000*3500mm	14000*3500mm	16000*4500mm	25000*4000mm
最大联动速度	80m/min	80m/min	80m/min	80m/min
最大加速度	0.6G	0.6G	0.6G	0.6G
X/Y轴定位精度	±0.05mm/m	±0.05mm/m	±0.05mm/m	±0.05mm/m
X/Y轴重复定位精度	±0.04mm/m	±0.04mm/m	±0.04mm/m	±0.04mm/m

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*产品不断更新中, 参数如有更改, 不另行通知; 图片仅供参考, 以实际产品为准