



FiberBlade V

百年品质 未来之光



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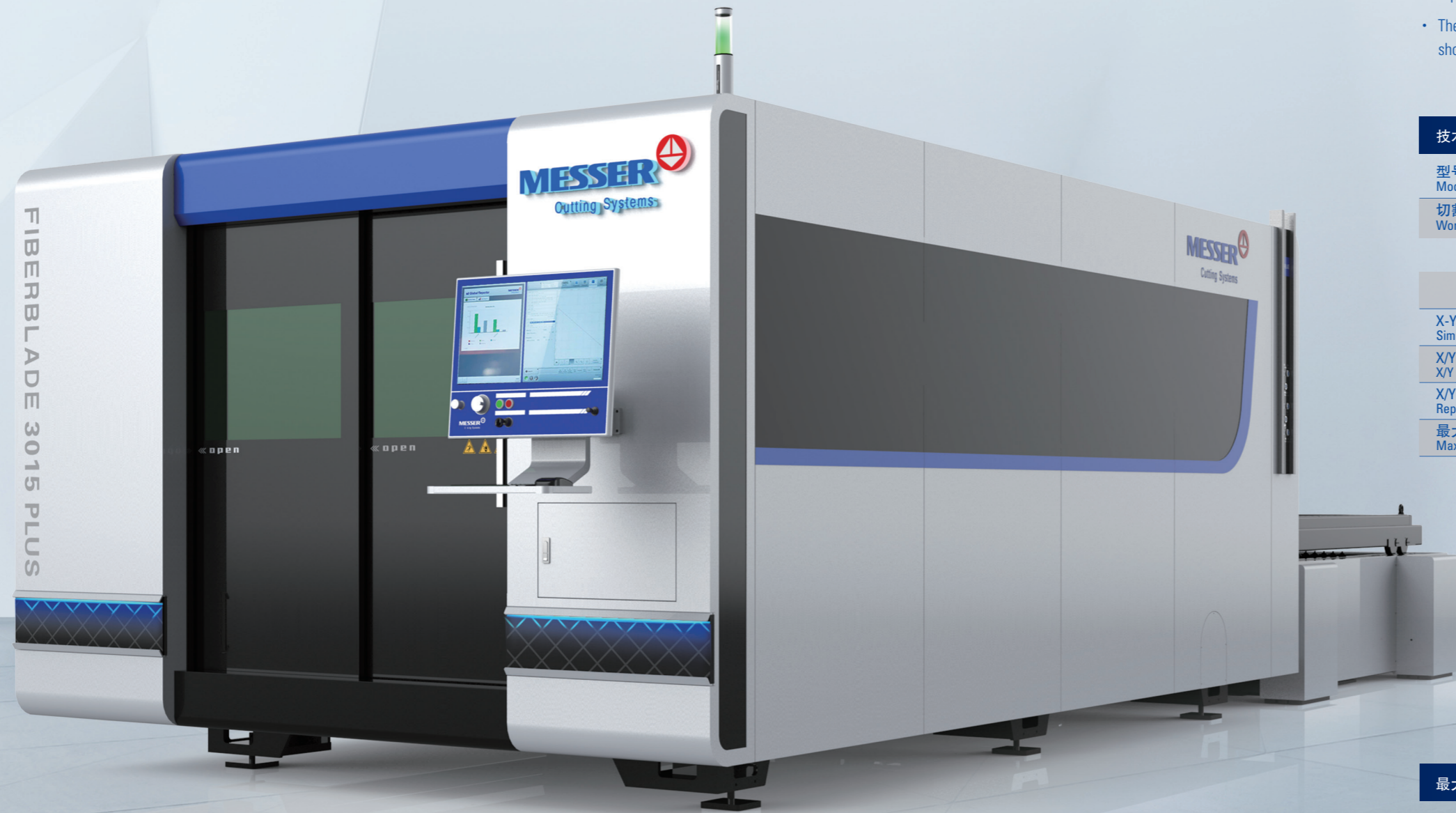


梅塞尔手机网站



梅塞尔微信公众号

FiberBlade V



- 基于近 50 年激光切割机制造经验，开发的全新第五代高速机；
- 得益于梅塞尔专有高速切割技术，机床加工效率达到行业顶尖水准；
- 搭载简洁、易操作的人机界面，短期培训后即可轻松生产高品质零件。

- The brand new fifth-generation high speed laser cutting machine -born based on Messer's nearly 50 years experience in this field ;
- Benefit from Messer's high-speed cutting technology, it achieves the productivity of top level in the industry ;
- The simple and user-friendly HMI helps operator to produce high quality products after short-term training.

技术参数 FiberBlade V Technical Specification

型号 Model		3015	4020	6020
切割范围 Working area	X	3050mm	4050mm	6050mm
	Y	1525mm	2025mm	2025mm
	Z	120mm	120mm	120mm
X-Y 联动速度 Simultaneous		169m/min	169m/min	169m/min
X/Y 轴定位精度 X/Y Positioning accuracy		±0.03mm/m	±0.03mm/m	±0.03mm/m
X/Y 轴重复精度 Repeatability accuracy		±0.01mm/m	±0.01mm/m	±0.01mm/m
最大工件重量 Max. load of worktable		750kg	1300kg	1900kg

最大切割厚度 Max. cutting thickness

光纤激光器功率 Fiber laser power	2400W	3000W	4000W	6000W	8000W	10000W
中碳钢 Mild steel	20mm	22mm	25mm	25mm	25mm	25mm
不锈钢 Stainless steel	10mm	12mm	15mm	20mm	30mm	30mm
铝合金 Aluminum alloy	10mm	12mm	15mm	20mm	30mm	30mm

* 为达到最大切割厚度，机床应处于良好运行保养状态，切割气体纯度、板材质量等均应符合梅塞尔安装前准备要求
To ensure the Max. cutting capacity, the machine should be kept in good condition and maintenance, the assisted gas purity & metal plates quality, etc. should meet Messer's requirements as per the install and user manual.

生产效益的全新定义

New Definition of The Cost Savings in Production

最大生产效益 = 最高加工效率 + 最佳切割质量 + 最低停机时间

Cost savings in production = cost savings from higher productivity + cost savings from optimal cutting quality + cost savings from downtime reductions

极高的加工效率创造更大产能，进而大幅降低单位时间内运行成本

- 梅塞尔专有技术，基于高动态平台开发的高速切割功能，极大提高零件产量；
- 超级蛙跳，极大缩短激光的开光占用时间；
- 标配自动寻边、自动调焦及自动切割气压调节功能；
- 标配Joblist、Datalog功能，实现自动化切割和自动化生成报表。

稳定、优良的加工品质确保加工零件符合检验标准，满足交货期

- 基于国内板材，经测试验证的标准参数数据库；
- 基于用户现场复杂轮廓外形，经测试验证的高质量尖角切割工艺技术（样品对比图）；
- 得益于镜片状态监测技术，极大保障零件加工质量稳定性。

最低停机时间

- 预防性维护保养提示、警告功能，极大压缩停机时间；
- 远程服务，设备联网后可在线诊断排除故障，有效减少停机时间，节省保外服务开支。

The extremely high efficiency leads to greater productivity which significantly reduces running costs.

- Based on the Messer high dynamic control platform, the high speed cutting function can greatly rump up production.
- Ultra jump function shortens positioning time and the cycle start time of laser emission on.
- Offered auto plant alignment, auto optics focusing and auto gas pressure adjustment function.
- Offered Datalog function generate production reports automatically.

Stable and superior processing quality makes products meet inspection standards and lead time.

- Based on local materials, the standard database has been tested and verified
- Based on parts from customer site, the sharp-angle cutting technology has been verified, and achieves good cutting quality
- Benefit from lens condition monitoring technology, stable processing quality is guaranteed.

Minimum downtime

- The preventive maintenance tips and warning function reduces downtime.
- Remote service, online diagnosis and troubleshooting when machine connect with internet, effectively reducing downtime and saving extra-service expenses.



全新一代 Global Control 数控系统

New Generation of The Global Control System

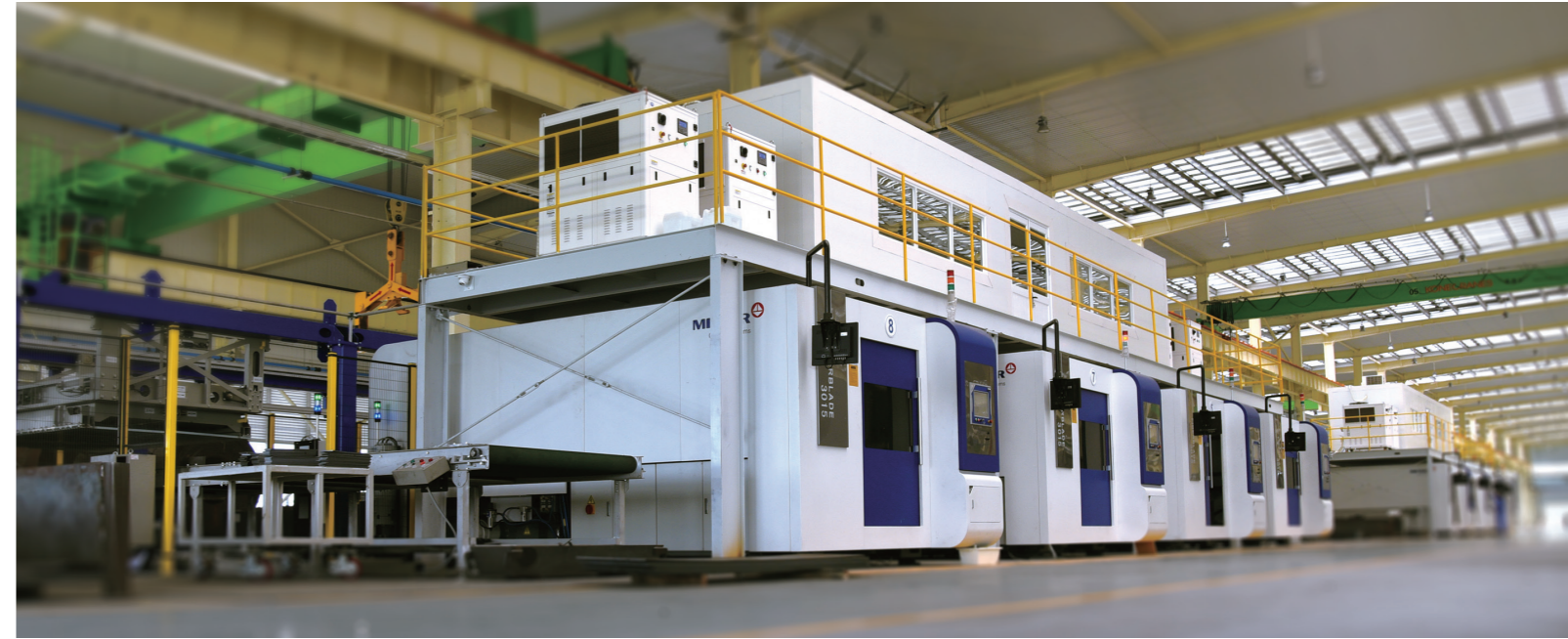
- 德国原装进口，100%自主知识产权；
- 24英寸全彩色触摸屏，操作界面极为简单、直观，有效减少加工准备时间；
- 分屏式设计，实时查看生产报表，监测切割过程；
- 搭载简洁、经测试验证的专家数据库，大幅降低参数修改频次；
- 可兼容部分厂家切割代码，无需二次编程，导入原程序直接开始加工。
- Originally imported from Germany, 100% independent intellectual property rights.
- The 24-inch colorful touch screen makes HMI extremely simple and friendly, effectively reduce preparing time.
- Split screen design, real-time monitoring the cutting process.
- Equipped with a simple, and verified database greatly reduces the frequency of parameter modification.
- Compatible with a few OEM NC code, starting rapid production once import the code without secondary software programming.



智能化解决方案

Basic Solution Plus Material Handling Systems by IoT

- 梅塞尔根据用户实际需求，切割系统可扩展为全自动激光切割+物料搬运存储生产线；
 - 实现24小时连续不间断生产，实现激光出光率最大化，极大提高生产产能；
 - 自动运行、实时监控，避免人工上、下料存在的安全隐患，极大提高加工过程安全性、可靠性；
 - 中控系统收集所有加工数据，并可生成多种报表，无需人工统计；
 - 中控系统与客户MES系统进行交互，极大提升车间生产运营效率。
- According to the actual demand of customers, FiberBlade V can configure material handling & storage systems.
 - 7days*24hours production, achieving the longest laser emission time, then improve productivity.
 - Full automatic running & real-time monitoring can avoid potential security problems by manual operations, thus greatly improve the safety and reliability of processing
 - The central control system collects all processing data and generate multiple reports without manual statistics
 - The central control system interacts with the customer MES system, greatly increases the operational efficiency of workshop.



- 提高激光切割加工产能
 - 目前行业中速度最快的板材上下料交换时间
 - 免故障生产过程设计
 - 适配各种金属板材
 - 创新、前沿的工业设计
- Increased productivity in laser processing
 - Fastest sheet metal change time on the market
 - Problem free integration into the existing production environment
 - Handling of any metal sheets
 - Innovative, modern industry design

Laser FLEX4.0 全自动激光切割及上下料系统

Laser FLEX4.0 Laser cutting & Material handling system

- 全球运行效率最高的激光切割上下料系统，兼具高可靠性、远程诊断功能；
 - 全球扩展能力最强的激光生产线系统，实现一套物料搬运系统配合四台激光切割机生产；
 - 中控系统可实现：扩容与升级，生产插单，不停机维护；
 - 根据客户需求及发展需要，可持续扩展 LaserFLEX4.0 至多台激光切割机和多个料库。
- Fastest sheet metal change time on the market, equipped with remote diagnosis function.
 - The most expandable & flexible systems on the market, already implement 1 material handling system combined with 4 sets of laser cutting machines in real production
 - The central control system achieve upgrading, programs priority setting, routine maintenance while machine running.
 - Configure more laser cutters and storage towers, in accordance with customer needs.



最大板材参数 Max. cutting material data				
规格 Format	3015	4020	6020	8020
最大板材重量 Max. sheet weight	1000 kg	1700 kg	1000 kg	1000 kg
最大板材尺寸 Max. sheet dimension	3048 × 1524 mm	4064 × 2030 mm	6096 × 2032 mm	8128 × 2032 mm
	120" × 60"	160" × 80"	240" × 80"	320" × 80"
最大板材厚度 Max. sheet thickness	25 mm	25 mm	18 mm	13.5 mm

系统参数 System parameter							
运行参数 Operating parameter	上下料机水平速度 Horizontal speed of the lifter	上下料机升降速度 Lifting speed of the lifter	上料机最大吸附能力 Max. adsorptive capability of the lifter	上下料机运行方式 Operation mode of the lifter	料库层数 Number of layers in tower	料库托盘移动速度 Travelling speed of the tower pallets	装载机升降速度 Lifting speed of the loader
Laser FLEX 4.0	60 m/min	12 m/min	1000 Kgs	分层独立驱动 互不干涉 eparately drives non-interference	15	24 m/min	16 m/min