



激光·等离子·火焰
物料管理·智能解决方案



梅塞尔手机网站



梅塞尔微信公众号

梅塞尔切割焊接(中国)有限公司

地址: 江苏省昆山市南浜路528号

邮编: 215300

电话: (86) 512 5731 4949

传真: (86) 512 5739 5052

邮箱: messer@messer-cutting.com

网址: www.messer-cs.cn

销售服务热线 400 800 6986

2019年5月 / 内容如有变更, 恕不另行通知

梅塞尔激光切割机

MESSER LASER CUTTING MACHINE



梅塞尔集团简介 About Messer Group

<p>1898</p>  <p>法兰克福梅塞尔 & 齐叶乙炔气体公司创立 Foundation of Frankfurter Acetylen-Gas-Gesellschaft, Höchst am Main</p>	<p>1903</p>  <p>恩斯特·维斯研发成功首件火焰割炬 Ernst Wiss develops the first oxyfuel cutting torch</p>	<p>1908</p>  <p>以“原创梅塞尔”为品牌，氧焊接与切割系列产品上市 Market launch of product range for oxyfuel welding and cutting using the brand name "Original Messer"</p>	<p>1911</p>  <p>梅塞尔有限公司成立，在埃森与纽伦堡开设分公司，同时“梅塞尔费城公司”成立 Messer & Co. GmbH; move into US market</p>	<p>1932</p>  <p>制造出用于电弧焊的压制电焊条 Production of arc welding electrodes</p>	<p>1945</p>  <p>重建毁于战火的“阿道夫·梅塞尔股份有限公司” Rebuilding Adolf Messer GmbH</p>	<p>1946</p>  <p>在欧洲与美国建立控股的合作伙伴关系 Expansion in Europe and the US driven by Adolf Messer</p>	<p>1953</p>  <p>汉斯·梅塞尔从父亲手中接管公司 Dr. Hans Messer assumes control</p>	<p>1965</p>  <p>与克纳普萨克·格里斯海姆股份公司（赫斯特集团成员）合并，成立梅塞尔·格里斯海姆股份有限公司 Merger with Knapsack-Griesheim AG (Hoechst) to form Messer Griesheim GmbH</p>	<p>1970</p>  <p>推出市场上首台数控激光切割机 First CNC and laser cutting system on the market</p>	<p>1978</p>  <p>火焰切割机在北美地区生产与销售 MG Systems & Welding manufactures flame cutting machinery sold in North America</p>	<p>1995</p>  <p>梅塞尔切割与焊接公司在中国成立 Foundation of Messer Cutting & Welding, China</p>	<p>1998</p>  <p>汉斯·梅塞尔之子史蒂芬·梅塞尔被任命为公司执行委员会成员 Stefan Messer becomes member of Executive Board</p>
<p>2000</p>  <p>梅塞尔切割与焊接股份有限公司与卡斯特林集团共同成立 MEC 控股有限公司 Foundation of MEC Holding GmbH by merger of Messer Cutting & Welding GmbH with the Eutectic Castolin Group</p>	<p>2004/05</p>  <p>史蒂芬·梅塞尔领导下的梅塞尔家族收购了公司的所有股份 The Messer family, led by Stefan Messer, acquires all company shares</p>	<p>2007</p>  <p>梅塞尔切割系统开始在巴西投产 Messer Cutting Systems starts off manufacturing in Brazil</p>	<p>2008</p>  <p>梅塞尔软件公司与梅塞尔印度工厂成立 Foundation of MesserSoft and manufacturing site Messer Cutting Systems, India</p>	<p>2011</p>  <p>集团总部搬迁至巴德索登 The entire corporate Head Office moves into Bad Soden</p>	<p>2012</p>  <p>梅塞尔切割系统学院成立 Founding of the Messer Cutting Systems Academy</p>	<p>2013</p>  <p>梅塞尔切割系统印度公司新工厂启用 Messer Cutting Systems India set up their own factory</p>	<p>2015</p>  <p>梅塞尔切割焊接中国有限公司新厂暨激光生产车间竣工投产 Completion of the second building phase in China</p>					

梅塞尔切割焊接（中国）有限公司是世界著名的德国梅塞尔工业集团于 1995 年在江苏省昆山市建立的独资企业。

自 1898 年阿道夫·梅塞尔在德国创建首家工厂起，经过一百多年的发展，梅塞尔工业集团已经成为专业生产各种工业气体和切割焊接设备与焊材的全球著名的跨国集团公司，在世界各地拥有 150 多家子公司和代表机构，雇员 6000 余人，年均销售额逾 20 亿欧元，其热切割技术与设备代表了当今同行业的顶尖水平。梅塞尔集团的切割系统在全球有五家生产基地，分布于德国、美国、中国、印度与巴西，生产符合行业最高标准的各型金属板材热切割机。

Messer Cutting Systems (China) Ltd., located in Kunshan city of Jiangsu province, was founded in 1995 by world famous Messer Industries GmbH.

Since Adolf Messer set up the first works in Germany in 1898, Messer Industries GmbH has developed into a multinational group company which produces industrial gases, cutting and welding equipments and welding materials. It owns more than 150 subsidiaries and representative offices all over the world, has about 6,000 employees, it's advanced thermal cutting technology and systems represents the highest level in this field. There are 5 manufacturing bases located in Germany, American, China, India and Brazil, producing all types of thermal cutting machines which meet the highest quality standards.

梅塞尔切割焊接（中国）有限公司秉承德国先进切割技术、精密制造工艺与科学管理方法，专业生产销售数控热切割设备。主要产品有：MetalMaster 和 OmniMat 系列等离子 / 火焰数控切割机与 FiberBlade、FiberBevel 系列光纤激光切割机。

我们的客户遍布国内外，我们的产品性能超群、质量稳定，一直在行业内拥有良好声誉。我们致力于在热切割领域为用户提供最优秀的产品和服务，我们的宗旨是：质量第一、用户第一、售后服务第一！

We aims to keep the highest German quality and make the top brand of the cutting machines industry, our major products are: CNC Plasma / Oxyfuel cutting machines of MetalMaster, OmniMat and Fiber laser cutting machines of FiberBlade, FiberBevel, etc.

We have clients worldwide and our products have good fame in home and abroad. We are committed to provide the highest quality products and service. Our mission is "Quality first, Customer first, After-sales service first".



FiberBlade V 生产效益的全新定义

New Definition of The Cost Savings in Production

- 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.

最大切割厚度 Max. cutting thickness

光纤激光器功率 Fiber laser power	2000W	3000W	4000W	6000W	8000W	10000W	12000W
中碳钢 Mild steel	18mm	22mm	25mm	25mm	25mm	30mm	35mm
不锈钢 Stainless steel	8mm	12mm	15mm	25mm	30mm	35mm	40mm
铝合金 Aluminum alloy	8mm	12mm	15mm	25mm	30mm	35mm	40mm

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.

技术参数 Technical specifications

FiberBlade V		3015	4020	6020
切割范围 X	Working area X	3050 mm	4050 mm	6050 mm
Y	Y	1525 mm	2025 mm	2025 mm
Z	Z	120 mm	120 mm	120 mm
X/Y 联动速度	X/Y Simultaneous	169 m/min	169 m/min	169 m/min
X/Y 轴定位精度	X/Y Positioning accuracy	±0.03 mm/m	±0.03 mm/m	±0.03 mm/m
X/Y 轴重复精度	X/Y Repeatability accuracy	±0.01 mm/m	±0.01 mm/m	±0.01 mm/m
最大工件重量	Max. load of worktable	1000 kg	1700 kg	2400 kg
加速度	Acceleration	1.5 G	1.5 G	1.5 G



普通切割方式，转角挂渣
Standard Cutting
Dross around the Corner



GC系统切割方式，转角无挂渣
Cutting with GC Controller
Without Dross around the Corner



不锈钢的切割
SUS Cutting Sample

FiberBlade V 大台面光纤激光切割机

6025 / 8020 / 8025

- 超长无故障工作时间;
- 根据超大规格板材设计, 提供 6m×2.5m, 8m×2m 以及 8m×2.5m 多重选择;
- 低能耗, 低运行成本。

- Working time without failures.
- According to the oversized plate design it offers multiple choices: 6m × 2.5m, 8m × 2m, 8m × 2.5m.
- Low energy consumption, Low running cost.

技术参数 Technical specifications

FiberBlade V		6025	8020	8025
工作区域	Working area (mm)	6050×2525	8050×2025	8050×2525
定位精度	Positioning accuracy	±0.03 mm/m	±0.03mm/m	±0.03mm/m
重复精度	Repeatability accuracy	±0.01 mm/m	±0.01mm/m	±0.01mm/m
单轴速度	Axis speed	100 m/min	100m/min	100m/min
联动速度	Simultaneous	140 m/min	140m/min	140m/min
加速度	Acceleration	1G	1G	1G
交换工作台	Changeover table	Standard	Standard	Standard
机床重量	Weight of machine	20T	22T	22T
外形尺寸	Dimension (mm) (LxWxH)	15800x4100x2100	19550x3600x2100	19550x3600x2100



10 mm 不锈钢切割
10mm SUS Cutting Samples



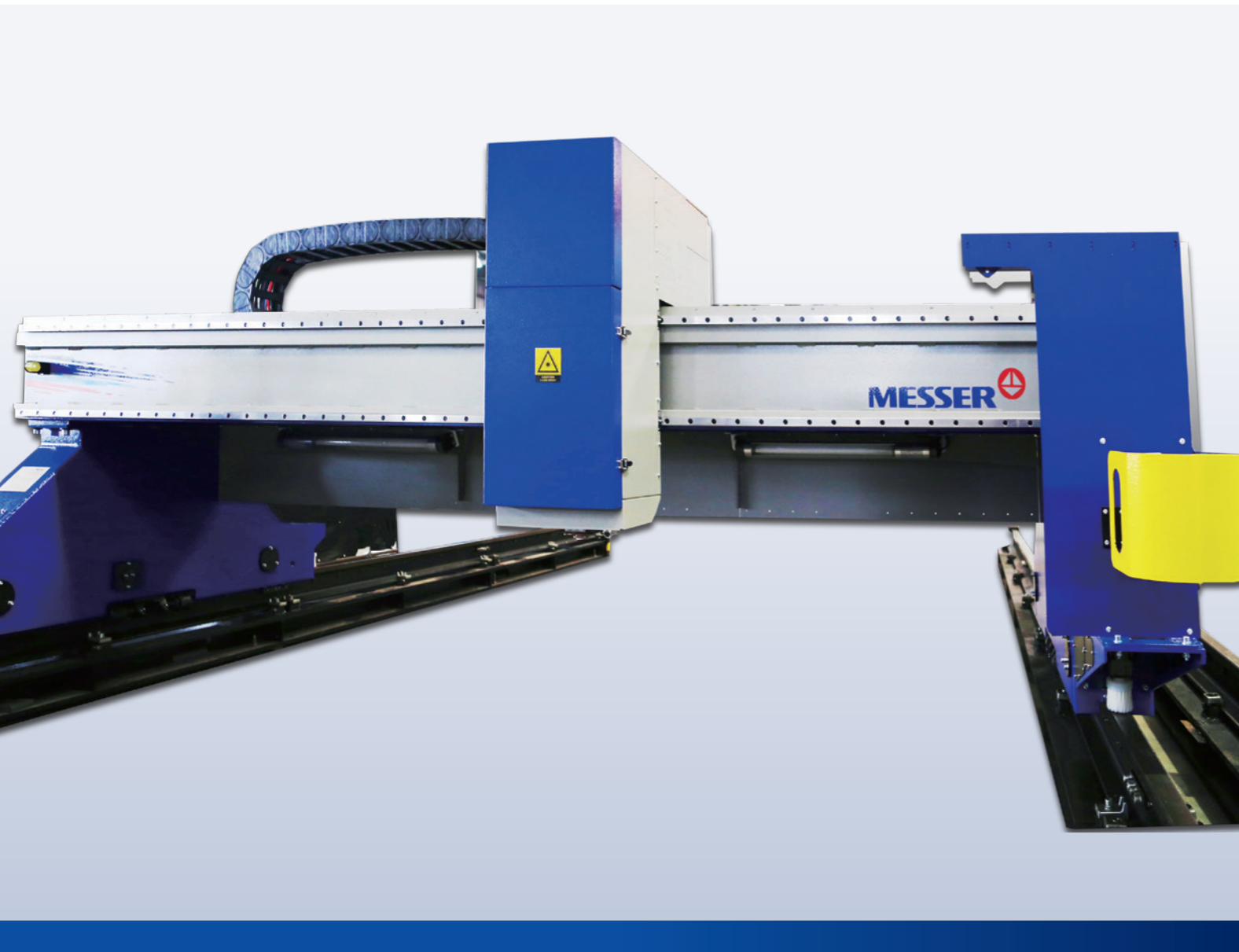
6 mm 不锈钢切割
6 mm SUS Cutting Samples

新一代 Global Control 控制系统 New Generation of The Global Control System

- 德国原装进口, 100%自主知识产权;
- 24英寸彩色触摸屏, 简单友好的人机界面, 有效减少准备时间;
- 分屏设计, 实时监控切割过程;
- 带有简单的已验证数据库, 极大地降低参数修改频率;
- 兼容一些 OEM NC 代码, 输入代码后无需二次编程即可开始快速切割。

- 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.





FiberBlade L 大幅面光纤激光切割机

Large Format Fiber Laser Cutting Machine

L型大幅面光纤激光切割机，继承了台式机工作效率高、维护成本低、超长无故障工作时间的特点，又兼顾到龙门式机器大幅面切割的优势——适用于超大幅面板材高精度切割。

技术参数

- 光纤激光切割系统；
- 达到激光一级防护标准；
- 配置摄像头监控设备实时运行；
- 简洁，人性化操作

FiberBlade L - Laser cutting machine combines the features of table type: high efficiency, low maintenance, long trouble-free and the features of gantry type: large format cutting. It is predestined for large format plates with high precision cutting.

Technical Data

- Fiber laser cutting system;
- Meet the laser primary protection standard;
- Configure the camera monitoring device to run in real time;
- Concise, user-friendly operation



20mm 中碳钢切割
20mm mild steel



12mm 中碳钢切割
12mm mild steel

技术参数 Technical specifications

轨 距	Track Width (mm)	4000	5000	6000	7500
工作宽度	Working width (mm)	3000	4000	5000	6500
最大速度	Max. speed	24 m/min			
定位精度	Positioning accuracy	±0.1 mm/3m			
切割精度	Cutting accuracy	ISO 9013 232			
激光器功率	Power (kw)	2-12 kW			



PowerBlade® 强劲、灵巧与精准

Powerful, dynamic and Precise

基于现代激光技术、超强的驱动系统、精密的纵横向直线导轨与多面坡口切割头，PowerBlade 为广泛运用而生。

与直线切割一样，坡口切割的最大摆角范围可以在同一切割件中得以体现，例如进行最佳焊缝准备，可以一次加工完成。

技术参数

- 光纤激光切割系统
- 低调试与维护费用
- 低能耗、低运行成本
- 可达到激光一级防护
- 非常简化的运行操作
- 切割防撞保护装置
- 监控设备运行的多方位摄像头
- 无限回转坡口切割
- 加配第二套垂直切割头（可选项）
- 可根据要求加装等离子切割头与钻孔切割装置

With the modern fibre laser technology, extremely powerful drives, precise linear guides in both longitudinal and transverse directions and a multifaceted bevel head, the PowerBlade® is equipped for a wide range of applications.

As well as vertical cuts, the widest range of bevel cuts can be combined in one part, for example to produce optimum weld seam preparations – and all that in one operation.

Technical Data

- Cutting system with fibre laser
- Low adjustment and maintenance costs
- Low energy consumption, low running costs
- Meet the laser priang protection standard
- Extremely simple operation
- Magnetic holder to protect the cutting head
- Multiple cameras for monitoring the machine and process on screen
- Infinitely rotating bevel head
- Second vertical head (optional)
- On request: combination with plasma and drilling head

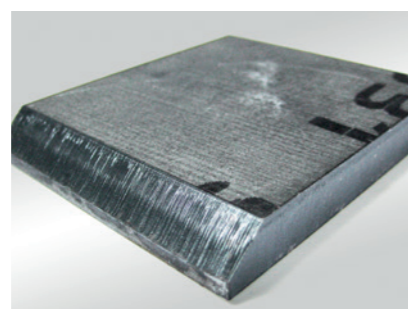
技术参数 Technical specifications (mm)

PowerBlade®		4200	5000	6000	6500
A	轨道宽度 Track widths	4200	5000	6000	6500
B	工作宽度 Working widths	2600	3200	4200	5150
C	整体宽度 Overall width	5780	6580	7610	8110
D	工作台高度 Table height	720	720	720	720
光纤激光功率 Laser Power		可选 Optionally 2 - 6 kW			
E	总高度 Total height	3100	3100	3100	
	总长度 Overall length	可定制 Customization			
F	单轴最大定位速度 X/Y single axis max. positioning speed				100 m/min
	最大加速度 Max. acceleration				7 m/s ²



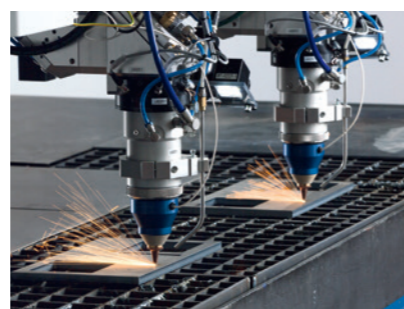
带磁性的无限旋转斜头
防撞保护可实现最大 50° 的斜切

The infinitely rotating bevel head with magnetic collision protection enables bevel cuts up to 50°



Y 焊接准备斜面在 10 毫米低碳钢上，
45°，3 mm 留根

Y weld preparation bevel on 10 mm mild steel,
45° with 3 mm root



两个激光头并联运行
可以使切割输出加倍

Two laser heads operation in parallel make it
possible to double the cutting output



LaserMat® II 顶尖品质 - CO₂激光

The Apex of Quality - CO₂ Laser Cutter

逾4米的工作宽度、最大逾50米的纵向加工长度，该切割系统是大幅面切割的绝配。得益于纵、横向精密直线导轨，整机能加工高精度零件，数控激光切割处理系统提供了高精度切割能力。激光束通过具有100%光路长度补偿的镜片组传导，从而确保整个加工区域的持续性高切割质量。直线切割、坡口切割与恰当的宏程序切割以及最大范围的划线标记等，所有这些功能满足了最高的切割工艺要求。

With working widths of over 4 m and bed lengths up to more than 50 m, the system is predestined for large format plates. The CNC controlled laser processing system offers high part accuracy due to linear guides for longitudinal and transverse motion. The laser beam is guided in the transverse direction via moving mirrors with 100% beam path length compensation and thus ensures a consistently high processing quality over the entire operating area. Vertical cuts, bevel cuts and appropriate transitions (Joints) as well as the widest range of marking processes to meet the highest requirements.

技术参数

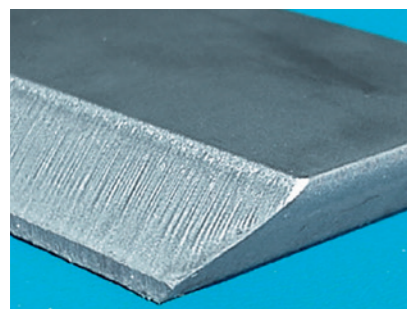
- 使用 CO₂ 激光发生器；
- 高达140m/min 的加工区域内最大定位速度；
- 符合激光防护一级标准；
- 无限回转坡口切割装置（选配）；
- 高动态加速时，提供最大扭矩；
- 上下料行车可通过安全光栅自由进出。

Technical Data

- Cutting system with CO₂ Laser.
- Highest positioning speed over the entire working area of up to 140 m/min.
- Meet the laser primary protection standard
- Infinitely rotating bevel unit (optional).
- Highest force deployment during acceleration.
- Free crane access through on-board safety light barriers.

技术参数 Technical specifications (mm)

LaserMat®		4200	5000	6000
A 轨道宽度	Track widths	4200	5000	6000
B 工作宽度	Working widths	3100	3500	4500
C 整体宽度	Overall width	5780	6580	7610
D 工作台高度	Table height	720	720	720
E 总高度	Total height	3100	3100	3100
总长度	Overall length	可定制 Customization		
激光功率可选	Laser power optional	可选 optionally 4 or 6 kW		



低碳钢的斜面示例；15毫米45°YDS和30°VAS（切割质量取决于材料）

Bevel example in Mild Steel; 15 mm 45° YDS and 30° VAS (cut quality depends upon material)



根据要求，客户空间处理是可能；例如，在一个碟形末端切割

On request customer special processing is possible; e.g. Bevel cutting in a dished end



带有光栅的激光车载保护罩允许直接起重机装载以及在切割操作期间装载和卸载

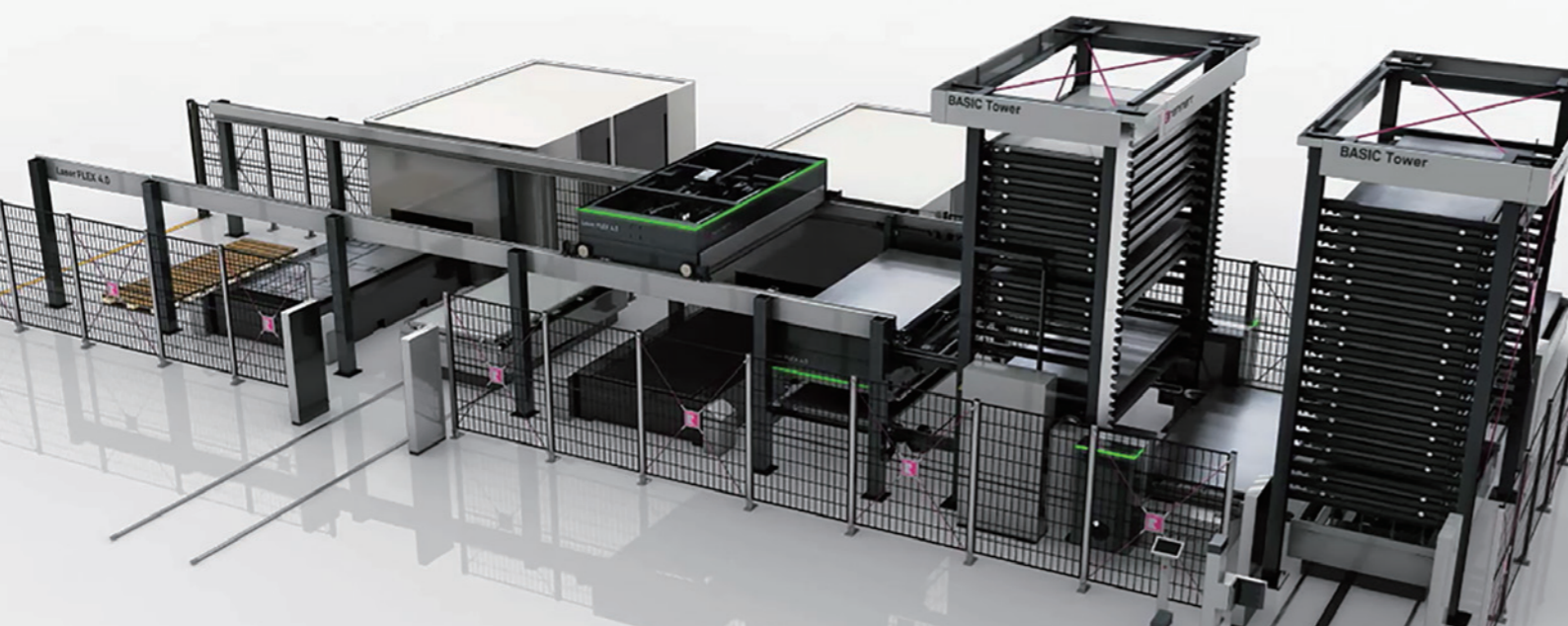
The laser on-board protection hood together with the light barriers allow direct crane loading as well as loading and unloading during the cutting operation

IoT 智能化解决方案 Basic Solution Plus Material Handling Systems by IoT

- 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

- 梅塞尔根据用户实际需求，切割系统可拓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.



Laser FLEX4.0 全自动激光切割及上下料系统 Laser FLEX4.0 Laser cutting & Material handling system

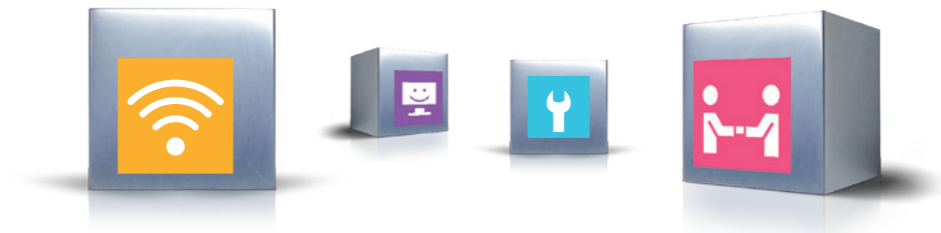
- 全球运行效率极高的激光切割上下料系统，兼具高可靠性、远程诊断功能；
- 全球扩展能力极强的激光生产线系统，实现一套物料搬运系统配合四台激光切割机生产；
- 中控系统可实现：扩容与升级，生产插单，不停机维护；
- 根据客户需求及发展需要，可持续扩展 LaserFLEX4.0 至多台激光切割机和多个料库。

- 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.



梅塞尔360°全面服务

MESSER 360° Service



梅塞尔全面服务 360° Messer service

将您现有的 Messer 机器与 Messer 原厂服务相结合，可以确保机器的最大利用率，从而助力您的业务成功。

凭借 360°Messer 服务理念，我们提供不同级别的服务协议，可以满足您个性化的、灵活的需求：固定价格，固定交期。

Combine your original Messer machine with the original Messer service support and ensure the maximum availability of your system and thus an important part of your business success.

With the 360° Messer service concept we offer you Service Level Agreements, which you can match individually and flexibly to your requirements: For a fixed price, for a fixed duration.

我们永远在您身边 Locally on your premises

如果发生故障，我们可以在需要时当场与您联系。可以确信的是我们的专家始终了解最新的技术状态和您的设备。通过远程访问，我们的支持技术人员可以提前进行可靠的远程诊断并规划需要完成的工作。

In case of a breakdown we can be with you on the spot if required. You may be sure that our specialists are always up to date on the latest state of technology and know your unit well. With remote access our support technicians can already make a reliable remote diagnosis in advance and plan what needs to be done.





服务承诺

- 4 小时内响应并提供初步解决方案
- 24 小时配件及服务人员到达现场
- 48 小时解决问题

由服务部门协调

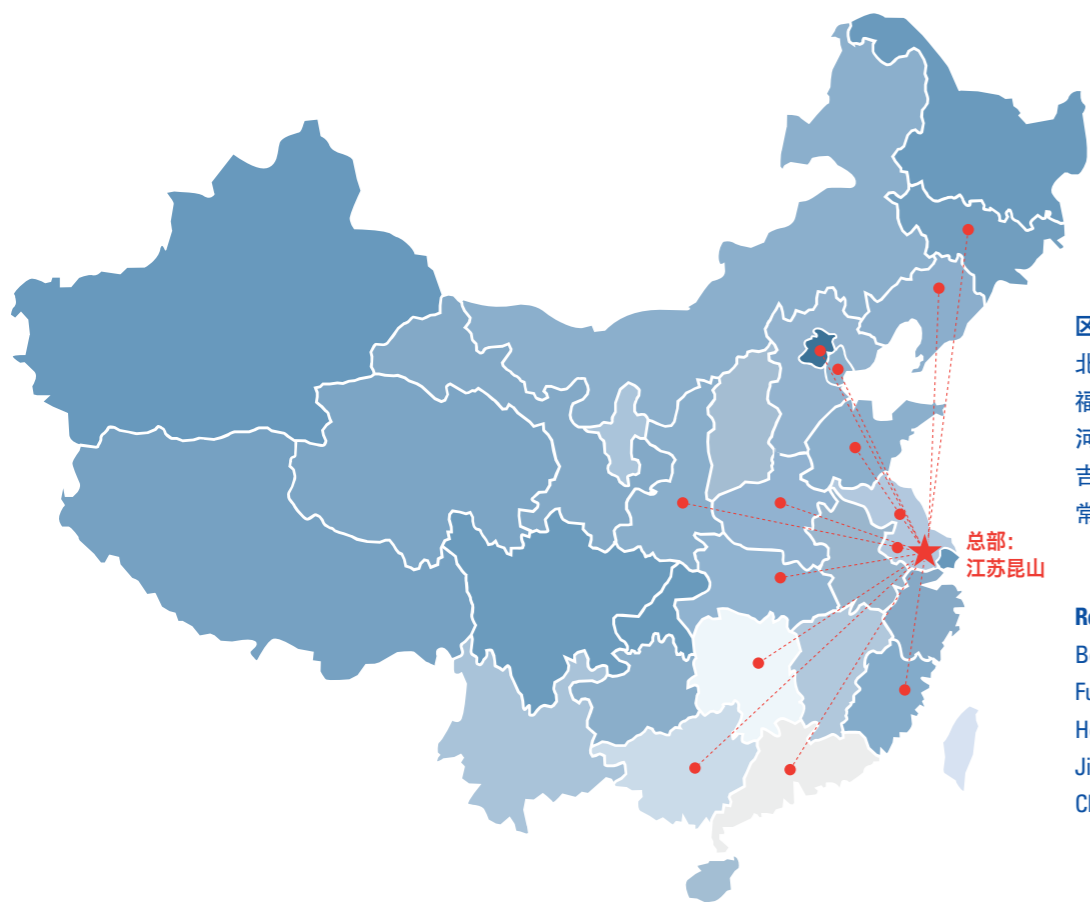
- 服务本地化和支持服务全国各地的问题

Service Promise

- 4H: response and providing initial solutions
- 24H: spare parts or service engineer on site
- 48H: solving problems

Coordinated by Service department

- Service localized and supporting Service issues nation wide



区域服务中心：

- 北京、天津、广东、福建、湖南、山东、河南、陕西、徐州、吉林、辽宁、江苏、常州、广西

Regional Service Center :

- Beijing, Tianjin, Guangdong, Fujian, Hunan, Shandong, Henan, Shanxi, Xuzhou, Jilin, Liaoning, Jiangsu, Changzhou, Guangxi

我们是首选的切割系统合作伙伴，也是我们全球客户的顾问。

We are the Cutting Systems Partner of choice and are consultants for our customers - worldwide.

我们的任务：

- 善用我们拥有的无限机会。
- 为客户的利益创造价值。
- 开放，多维度思考。

Our Mission:

- To use the unlimited opportunities we have.
- To create value for the benefit of our customers.
- To open up, to think multidimensionally.