WORLD OF EXCELLENCE

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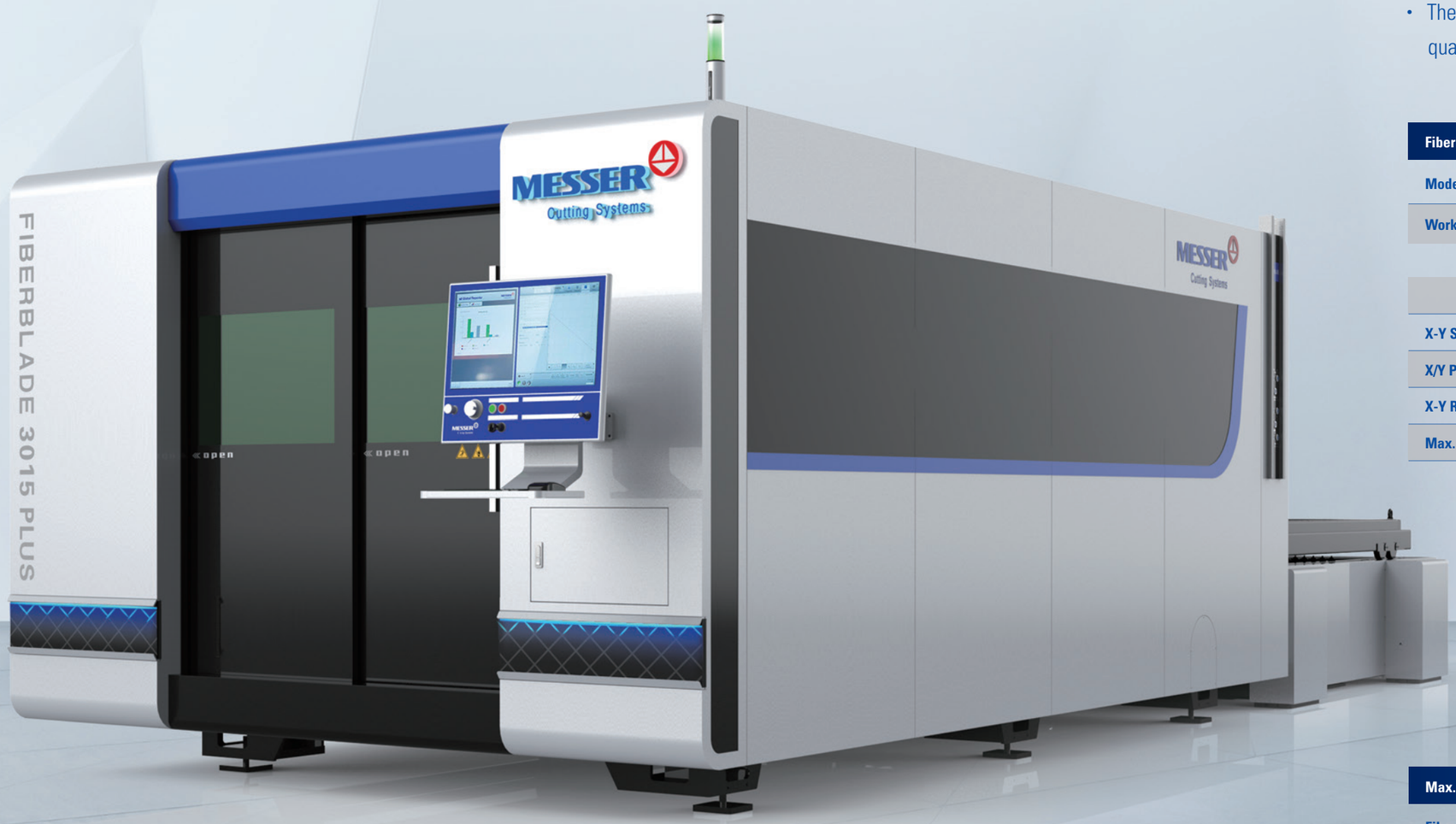
Messer Cutting Systems 04 / 2019

FiberBlade V

Hundred years of history, Light of the future

MESSER Cutting Systems

FiberBlade V



- 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.

FiberBlade V Technical Specification				
Model		**3015**	**4020**	**6020**
Working area	**X**	3050mm	4050mm	6050mm
	Y	1525mm	2025mm	2025mm
	Z	120mm	120mm	120mm
X-Y Simultaneous		169m/min	169m/min	169m/min
X/Y Positioning accuracy		±0.03mm/m	±0.03mm/m	±0.03mm/m
X-Y Repeatability accuracy		±0.02mm/m	±0.02mm/m	±0.02mm/m
Max. load of worktable		750kg	1300kg	1900kg

Max. cutting thickness							
Fiber laser power	2000W	3000W	4000W	6000W	8000W	10000W	12000W
Mild steel	18mm	22mm	25mm	25mm	25mm	30mm	35mm
Stainless steel	8mm	12mm	15mm	20mm	30mm	35mm	40mm
Aluminum alloy	8mm	12mm	15mm	20mm	30mm	35mm	40mm

* 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.

New Definition of The Cost Savings in Production

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

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

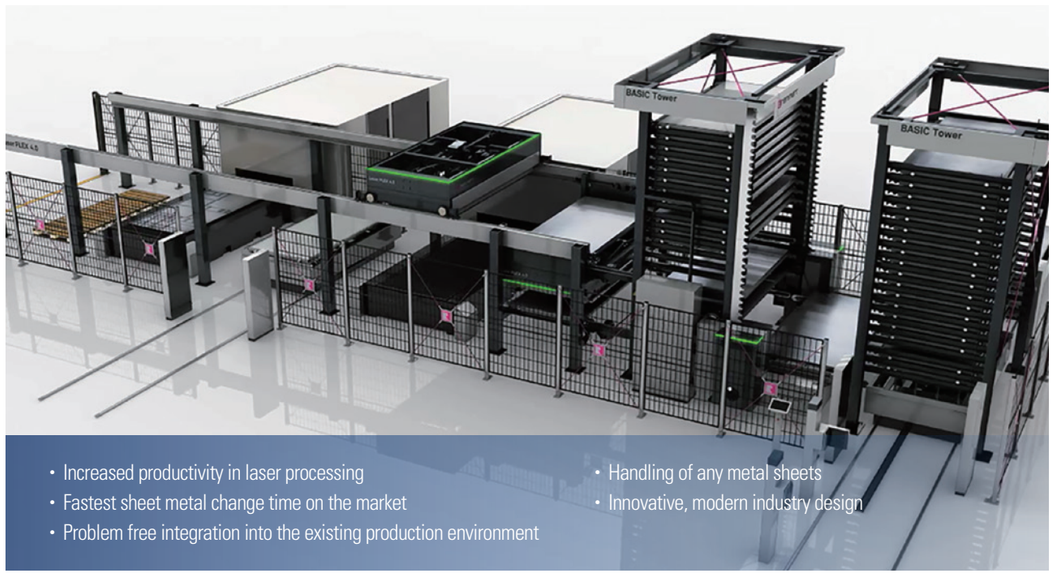
- The preventive maintenance tips and warning function reduces downtime.
- Remote service, online diagnosis and troubleshooting when machine connect with internet, effectively reducing downtime and saving extra-service expenses.

New Generation of The Global Control System

- 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.

Basic Solution Plus Material Handling Systems by IoT

- 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.

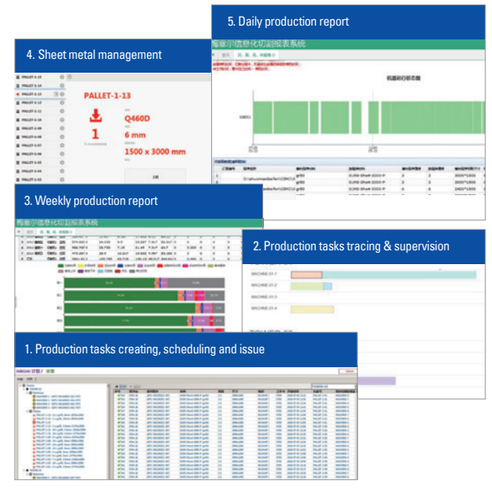


- Increased productivity in laser processing
- Fastest sheet metal change time on the market
- Problem free integration into the existing production environment
- Handling of any metal sheets
- Innovative, modern industry design

Max. cutting material data				
Format	**3015**	**4020**	**6020**	**8020**
Max. sheet weight	1000 kg	1700 kg	1000 kg	1000 kg
Max. sheet dimension	3048 × 1524 mm	4064 × 2030 mm	6096 × 2032 mm	8128 × 2032 mm
	120″ × 60″	160″ × 80″	240″ × 80″	320″ × 80″
Max. sheet thickness	25 mm	25 mm	18 mm	13.5 mm

Laser FLEX4.0 Laser cutting & Material handling system

- 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.



System parameter							
Operating parameter	Horizontal speed of the lifter	Lifting speed of the lifter	Max. adsorptive capability of the lifter	Operation mode of the liter	Number of layers in tower	Travelling speed of the tower pallets	Lifting speed of the loader
Laser FLEX 4.0	60 m/min	12 m/min	1000 Kgs	eparately drives non-interference	15	24 m/min	16 m/min