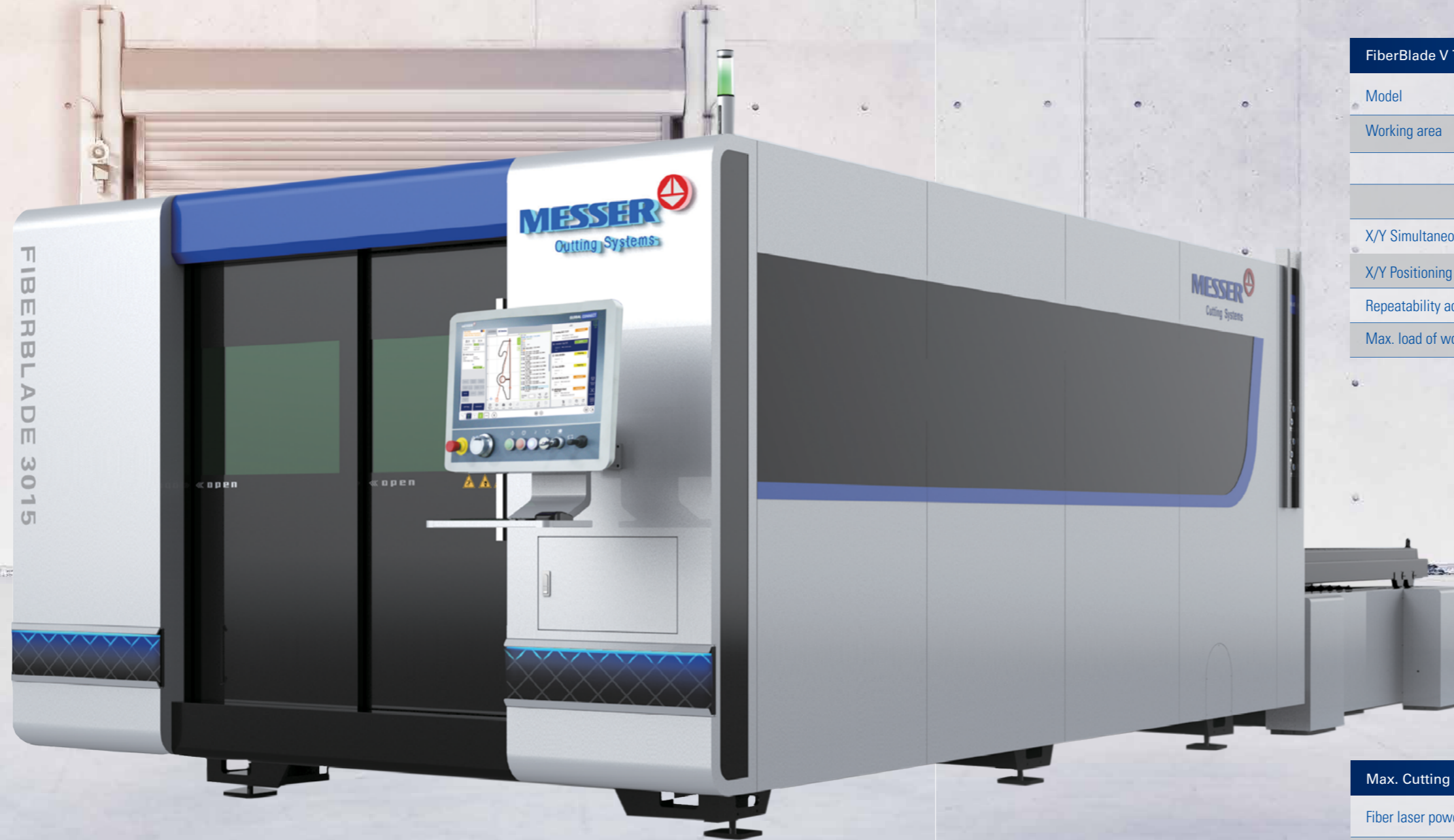


# FiberBlade V

**MESSER**   
Cutting Systems



# FiberBlade V



- The brand new fifth-generation high speed laser cutting machine based on Messer's nearly 50 years of 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.
- CE / CSA standard options available.

### FiberBlade V Technical Specification

Model	3015	4020	6020
Working area X	3050mm	4050mm	6350mm
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
Repeatability accuracy	±0.01mm/m	±0.01mm/m	±0.01mm/m
Max. load of work table	750kg	1300kg	1900kg

### Max. Cutting thickness

Fiber laser power	2000W	3000W	4000W	6000W	8000W	10000W
Mild steel	16mm	22mm	25mm	25mm	25mm	25mm
Stainless steel	8mm	12mm	15mm	20mm	30mm	30mm
Aluminum alloy	8mm	12mm	15mm	20mm	30mm	30mm

\* To ensure the Max. cutting capacity, the machine should be kept in good condition and maintained as per Messer guidelines. The assisted gas purity & metal plates quality, etc. should meet Messer's requirements as per the installation 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 improve production.
- Ultra jump function shortens positioning time and the cycle start time of laser emission on.
- Offered auto plate 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

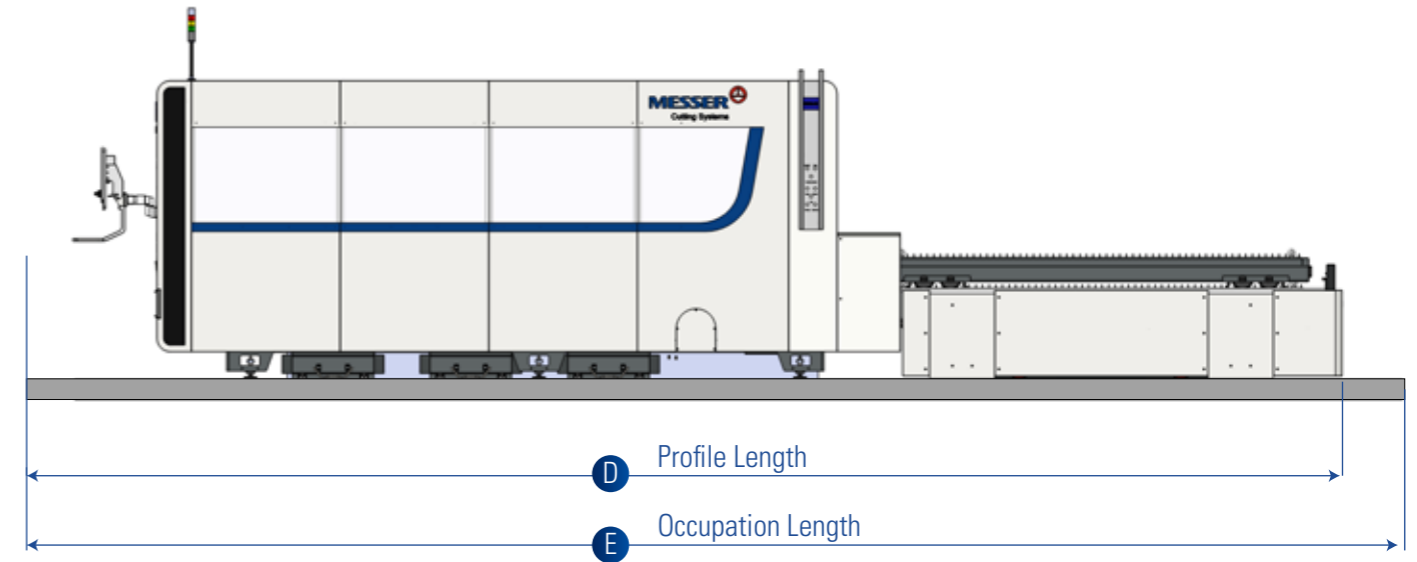
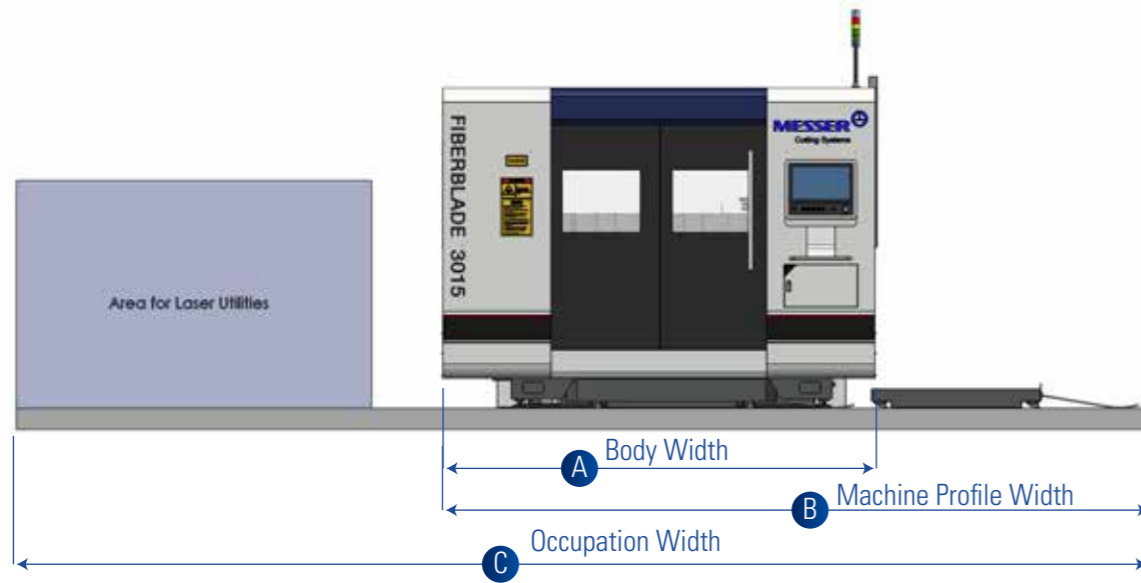
- The preventive maintenance tips and warning function reduces downtime.
- Remote service, online diagnosis and troubleshooting when machine connected with internet, effectively reduces downtime and saves extra-service expenses.



## Global Connect New Generation of The Global Control System

- Originally imported from Germany, 100% independent intellectual property rights.
- The 18.5 inch colorful multi touch screen makes the HMI extremely simple, friendly, and effectively reduces preparation time.
- Split screen design, real-time monitoring the cutting process.
- Equipped with a simple, and verified database greatly reduces the frequency of parameter modification.
- Flexible job-centric environment makes earlier preparation of jobs easier.





## Basic Solution Plus Material Handling Systems by IoT

- According to the actual demand of customers, FiberBlade V can be configured with material handling & storage systems.
- 24hours\*7days production, achieving the longest laser emission time, hence improved productivity.
- Fully 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. material handling data			
Size	3015	4020	6020
Max sheet weight	1000 kg	1700 kg	1800 kg
Max sheet dimension	3048 x 1524 mm	4064 x 2030 mm	6300 x 2032 mm
Max sheet thickness	25 mm	25 mm	18 mm

Machine Size	A Body Width	B Machine Profile Width	C Occupation Width	D Profile Length	E Occupation Length
3015	3040	4920	6500	9520	10000
4020	3540	5920	9200	11960	12300
6020	3540	5960	9200	16700	17150

All Dimensions are in mm

### Standard Features

- Global control system, based on windows, easy to use operation interface
- Exchange cutting table
- Automatic nozzle cleaning
- Automatic Height calibration system
- Double side suction system
- Predefined cutting parameters
- Choice of IPG or Max Photonics laser
- Laser safe enclosure

### Optional Features

- Dust collection system
- Material handling system
- Cutting viewing
- CE, CSA compliance available
- Light barrier safety in shuttle area
- Electrical utilities – Stabilizer, UPS
- Ultra isolation transformer for laser safety



# CREATING SOLUTIONS BEYOND MACHINES

## What we stand for

Messer Cutting Systems is a global supplier of cutting edge technology for the metalworking industry.

With over 900 employees worldwide in over 50 countries, we maintain a constant dialogue with our customers to achieve sustainable user-oriented innovation.

Our portfolio embraces the themes PRODUCT, DIGITAL, SERVICES, AUTOMATION and KNOW-HOW. We will live up to our claim "creating solutions beyond machines" not just with the most modern cutting systems and solutions for oxyfuel technology.

Appropriate services and training, our own software applications as well as the integration of solutions from our technology partners, e. g. in the field of automation, complete the machine to give forward-looking total solutions.

Our know-how combined with our customer-oriented attitude and actions have made us the worldwide partner of choice for innovative total solutions on all aspects of cutting systems for over 120 years.

PRODUCT

AUTOMATION

DIGITAL

SERVICES

KNOW-HOW

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