

# FIBERBLADE VI BEYOND EXPECTATIONS

The new definition of cost savings in production



# FIBERBLADE VI

## High-speed and precision fiber laser cutting

- + 200m/min positioning speed – high efficiency
- + Protective enclosure – Avoid the impact of laser radiation on machine
- + Automatic nozzle cleaning, calibration



New Global Connect system:  
Easy operation

Sliding door, visible protective glass, convenient for operator to observe cutting status in real time

Protective enclosure for laser safety

Hydraulic exchange table:  
Heavy duty, Short exchange time

## CONTROL SYSTEM

### The all new GLOBAL CONNECT

The CNC control technology is the crystallization of Messer Cutting System's experience. Specially tailored for the thermal cutting system, powerful expert database, easy to operate, it integrates high performance and high reliability, adopts high-standard industrial PC and electrical components, and fully considers the unique working environment of the cutting machine.



- + 100% Messer developed
- + Precise control of laser power at sub-millisecond level
- + Fast piercing & sharp corner cutting
- + New 18.5" color screen and job based HMI
- + PLC, NC, HMI can be configured according to requirements.
- + Convenient operation through handwheel
- + OPC interface facilitates communication with other devices, can be serviced remotely after networking
- + Perfect and practical cutting database

## PRODUCTION DIGITIZATION

### Your digital workflow



### OmniWin: Programming Nesting software

#### Produce more parts:

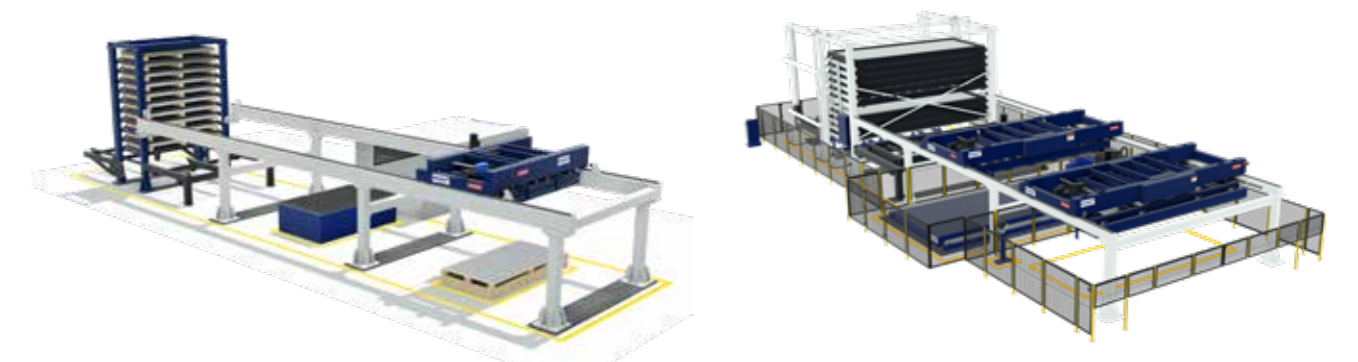
Start with optimized nesting plan, using OmniWin design and nesting software. Combine it with high speed motion control Global Connect System. Gain more efficient cutting paths and produce more parts on the same plate.

#### Speed up:

Process inner contours with the new scan cut function with machine movements as long and linear as possible. The sequence is cut with laser active all the time, speeding up the process considerably.

The software is both effective and economical – for small productions as well as for just-in-time manufacturing with changing quantities in custom cutting operations.

## PRODUCTION EFFICIENCY



### OmniFab: Everything at a glance

With OmniFab, FiberBlade becomes an integral part of digitized production. Manage, control, and monitor in real-time and get transparency for all jobs. Get the best performance out of your machine since all jobs are done on the best suitable machines with optimum utilization.

Gain complete traceability by constant digitized inventory and prompt quality checks. With refined data, you will discover patterns, react quickly, and get a forward-looking production planning without bottlenecks, making the right decisions. Paperless in your complete value chain.



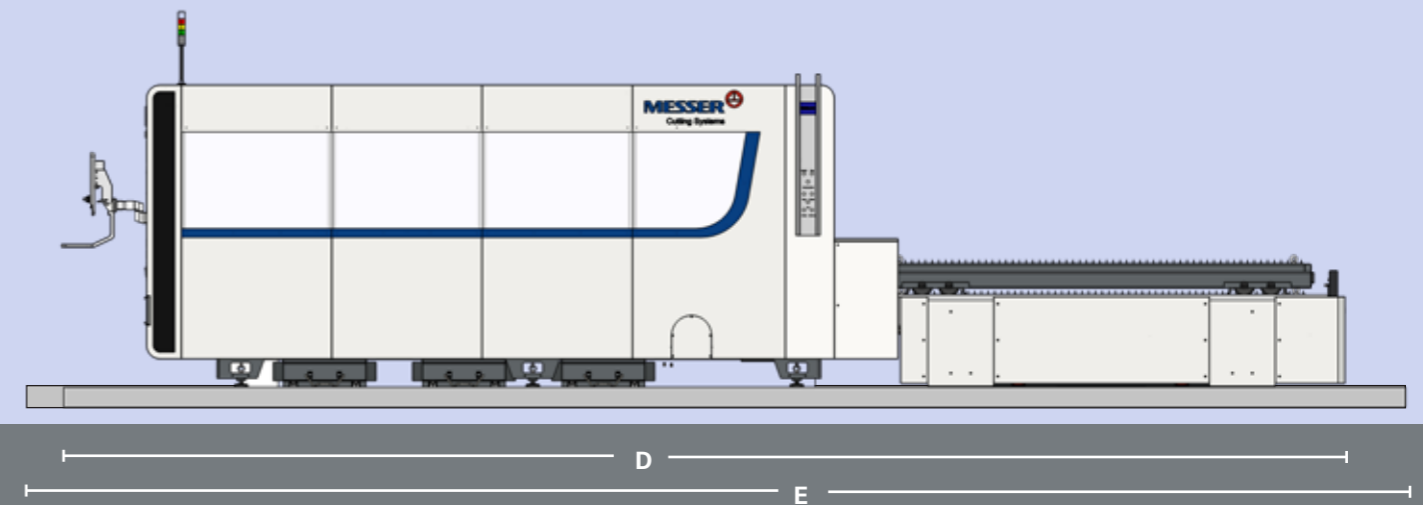
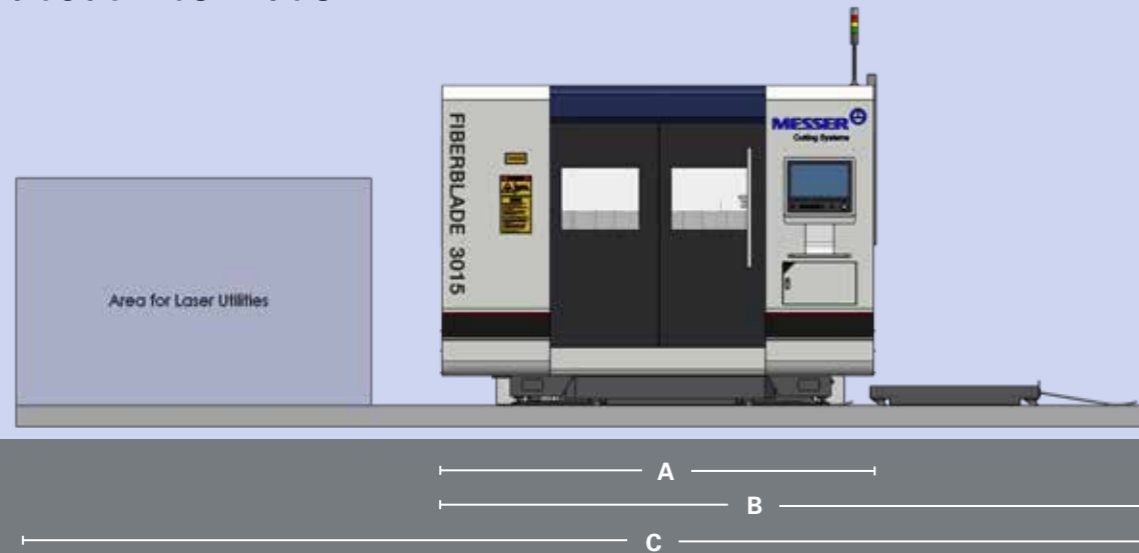
## Messer Intelligent Solutions

**Maximize your machine utilization and improve productivity with our material handling solutions**

- + Suitable for all kinds of metal plates
- + Innovative, leading industrial design
- + According to the actual needs of users, Messer cutting system can be expanded to automatic laser cutting plus material handling and storage production line
- + Achieving 24 hours continuous uninterrupted production and the maximum laser output rate, greatly improved production capacity
- + Automatic operation, real-time monitoring, avoid hidden safety caused by manual loading and unloading, greatly improved the processing safety and reliability
- + Highly efficient loading and unloading system with high reliability and remote diagnosis function
- + The central control system can achieve: capacity expansion and upgrade, production insert order, non-stop maintenance
- + According to customer and development needs, MIS can be continuously expanded to multiple laser cutting machines and multiple material towers.

## FACT & FIGURES

### All about FiberBlade VI



Specification				
Model		3015	4020	6025
Working area	X	3050mm	4050mm	6350mm
	Y	1525mm	2025mm	2525mm
	Z	120mm	120mm	120mm
X/Y Positioning Speed Simultaneous		200m/min		
X/Y Positioning accuracy		±0.03mm/m		
X/Y Repeatability accuracy		±0.01mm/m		

Machine Size	A Body Width	B Machine Profile Width	C Occupation Width	D Profile Length	E Occupation Length
3015	3070	5270	8570	10045	12545
4020	3570	6270	9570	12120	14620
6025	4095	7295	10595	17000	19500

All Dimensions are in mm



Covered guideways  
better cable management



Heat insulation for structure

### 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
- Heat Insulation for high power application

### 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

## Messer Cutting Systems India Pvt Ltd

No. 199/2AB2, 198/2A2A and 198/2A2B  
SNMV College road, Malumichampatti,  
Coimbatore 641 050  
Tamil Nadu, India

Tel: +91 422 672 5501  
Mail: sales.all@messer-cutting.com

[www.messer-cutting.com](http://www.messer-cutting.com)



IM38A0107A23