MESSER
Cutting Systems

FIBERBLADE VI
BEYOND EXPECTIONS

Defining of cost savings in production

PRODUCT

FIBERBLADE VI

High-speed and precision fiber laser cutting

+ 7874 ipm, High speed positioning for efficiency.

+ Up to 20kW IPG Rt power supply with Precitec cutting head.

+ Certified class 1 laser enclosure.

+ Automatic nozzle cleaning and calibration (optional).

FIBERBLADE 3015

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Global Connect CNC control designed to improve operator efficiency, eliminate redundancy and to provide more clarity of operations of important production data.

Openable sliding door, convenient for operator to enter and exit.

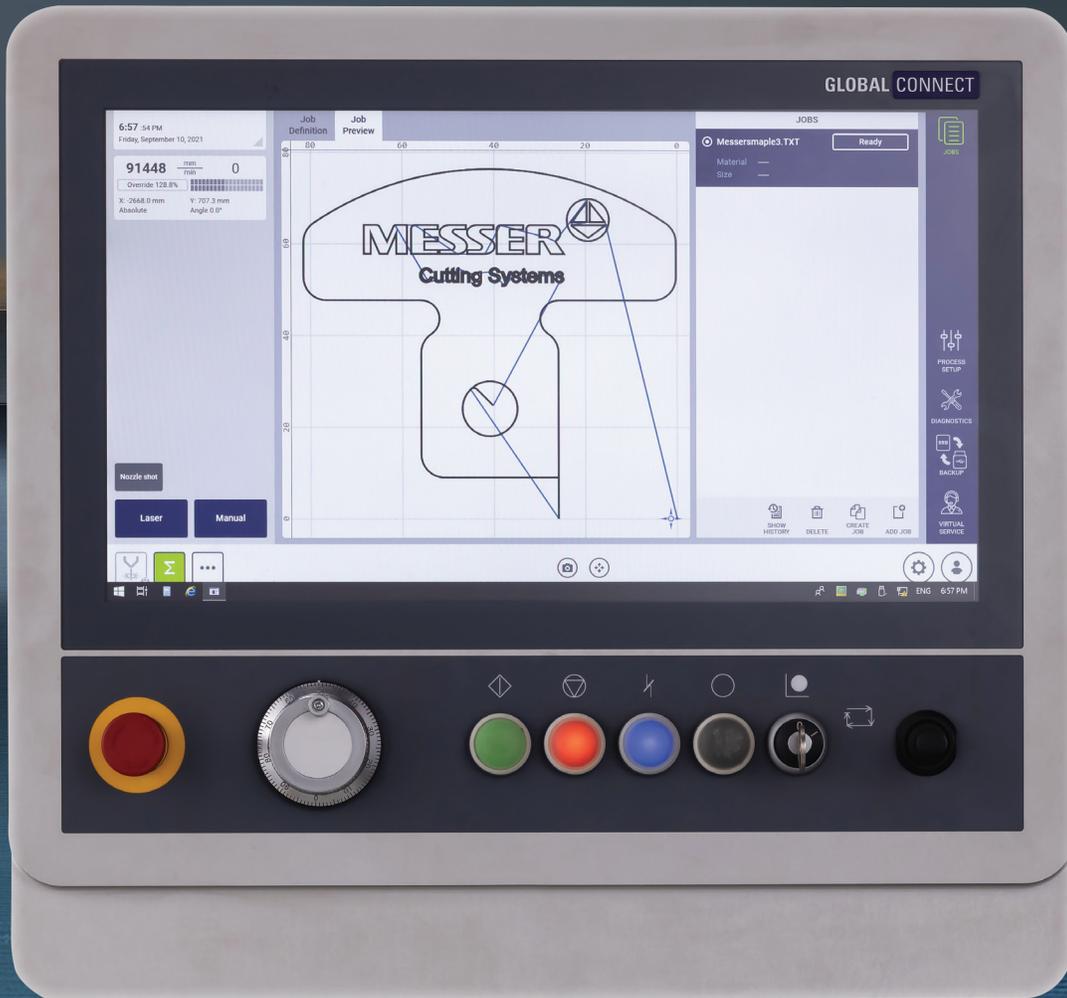Two windows with ACRX -IRI laser glass convenient for operator to observe the cutting process.

Enclosure is Certifited class 1 to avoid eye damage.

Hydraulic Pallet Table: Heavy duty, quick plal exchange time.

The GLOBAL CONNECT

Messer Cutting Systems' CNC Global Connect control is the result of extensive industry experience. Designed specifically for thermal cutting, it features a powerful expert database and a user-friendly interface. The system combines high performance with exceptional reliability, using high-standard industrial PCs and electrical components. It is also built to withstand the unique demands of the cutting machine's working environment.

+ 100% Messer developed:
  + Realize precise control of laser power at sub-millisecond level.
  + The system integrates piercing monitoring technology and corner power control
  + Realize fast piercing and sharp corner cutting.
+ New 18.5" color screen, new HMI.

+ HMI can be configured according to your requirements.
+ Convenient operator hand-wheel.
+ OPC interface facilitates communication with other devices, including Virtual and Visual remote service.
+ Perfect and practical cutting process database, which can cut every thickness perfectly.

OmniWin:
CAD / CAM Software

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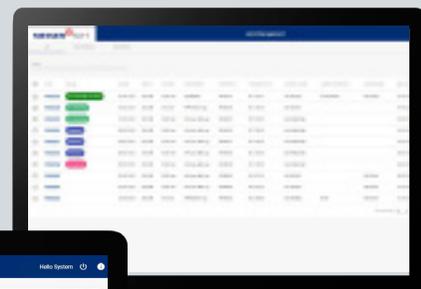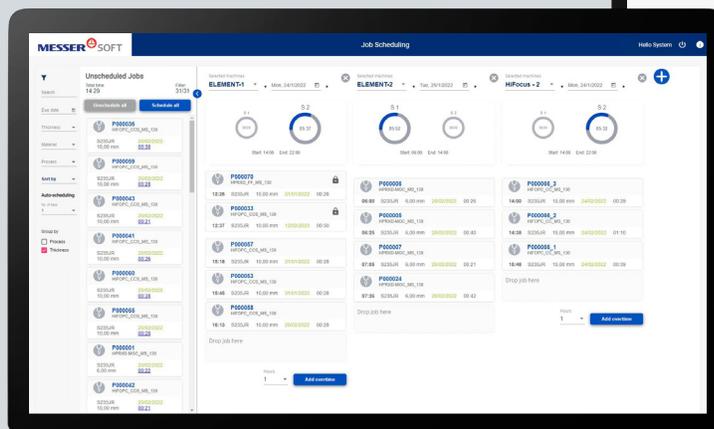
Speed up:
Process inner contours with the new scan cut function with machine movements as long and linear as possible. The sequence is cut with the laser active all the time, speeding up the process considerably.

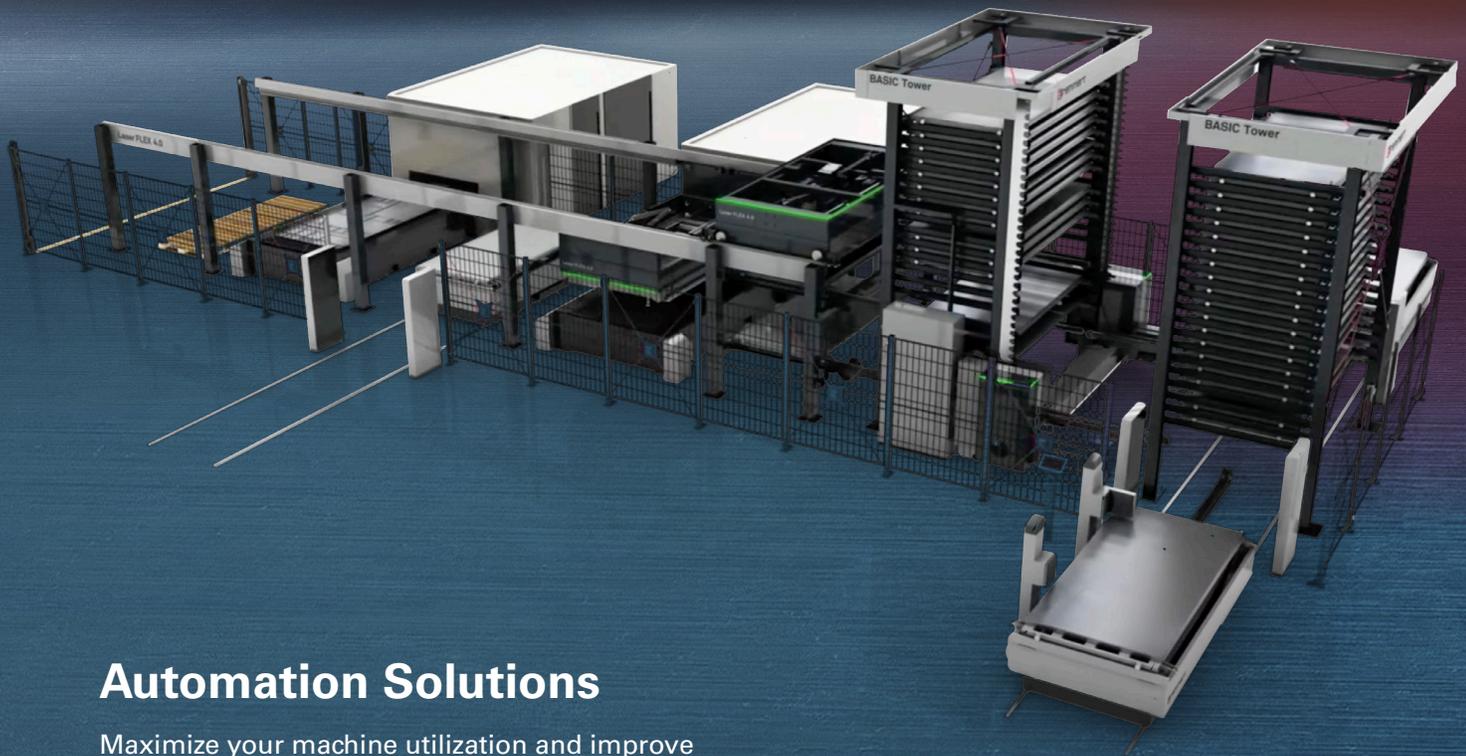# OmniFab:
Digital Transformation

With the OmniFab software suite, your FiberBlade becomes an integral part of your 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.

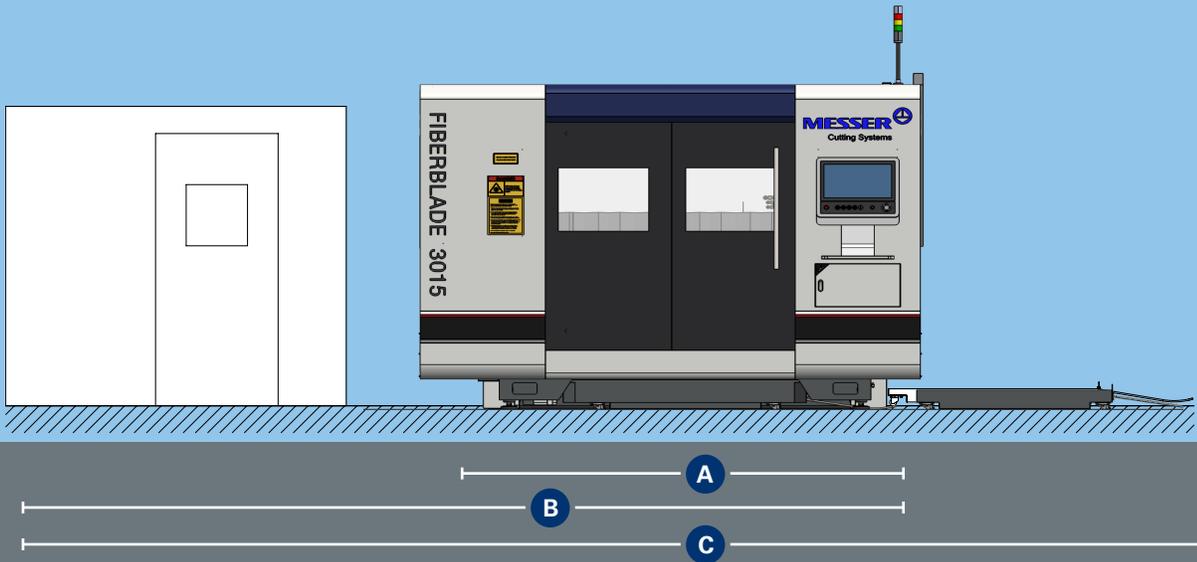**OmniFab**
Job Management

PRODUCTION
AND EFFICIENCY

Automation Solutions

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

+ Suitable for all types of metal plates.

+ Innovative, leading industrial design.

+ Automated material handling and storage solutions.

+ Achieve 24 hours continuous uninterrupted production at the maximum laser output rate, will greatly improved production capacity.

+ Automatic operation, real-time monitoring, avoid safety issues caused by manual loading and unloading, greatly improve the processing safety and reliability.

+ The central control system collects all processing data which can generate a variety of reports, without manual statistics.

+ The central control system interacts with the customer's MES system which greatly improves the production and operation efficiency of the workshop.

+ Highly efficient loading and unloading system with high reliability and remote diagnosis function.

+ The laser production line system with strong expansion ability which can realize the production of one material handling system with four laser cutting machines.

+ The central control system achieves capacity expansions and upgrades, insertion of production orders, non-stop maintenance.

+ LaserFLEX4.0 can be continuously expanded to multiple laser cutting machines and multiple material towers.

All about FiberBlade VI

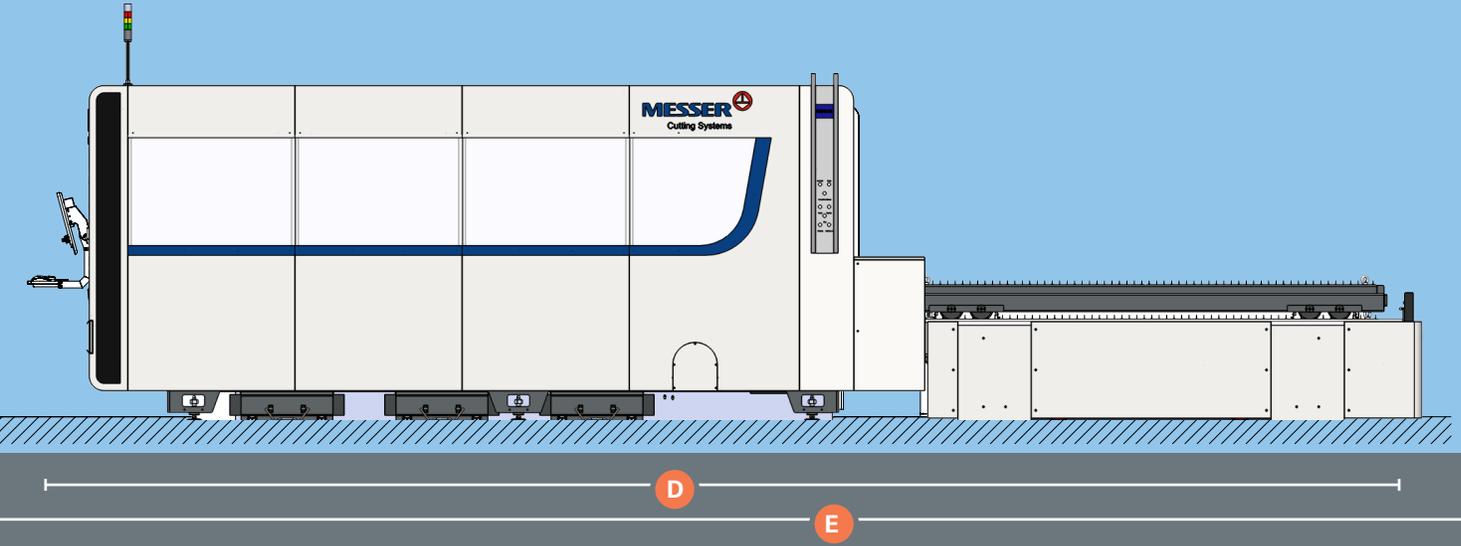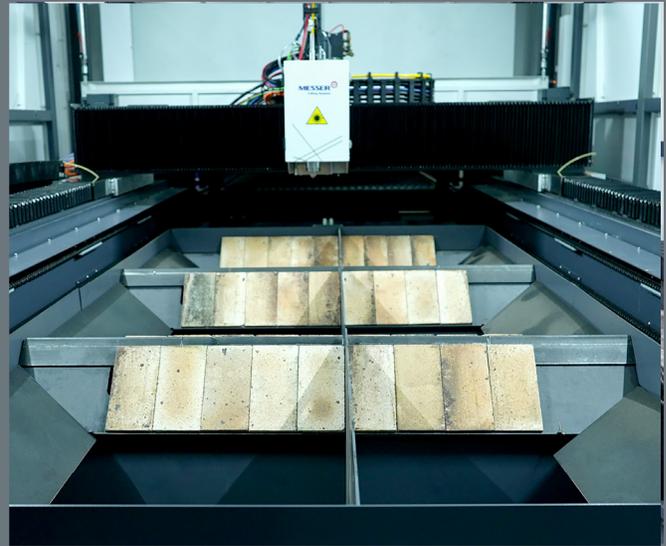|	A	B	C	D	E
	Body Width	**Machine Profile Width**	**Occupation Width**	**Profile Length**	**Occupation Length**
FiberBlade VI 3015	10.07 ft. (3070 mm)	17.29 ft. (5270 mm)	28.11 ft. (8570 mm)	32.96 ft. (10045 mm)	41.16 ft. (12545 mm)
FiberBlade VI 4020	11.71 ft. (3570 mm)	20.57 ft. (6270 mm)	31.40 ft. (9570 mm)	39.76 ft. (12120 mm)	47.96 ft. (14620 mm)
FiberBlade VI 6025	13.43 ft. (4095 mm)	23.93 ft. (7295 mm)	34.76 ft. (10595 mm)	55.77 ft. (17000 mm)	63.98 ft. (19500mm)

Dimensions are in ft. and mm

Standard Features

+ IPG Laser.

+ Running accuracy +/-0.03MM.

+ Repeatability accuracy +/-0.01MM (in the range of 1830MM).

+ Maximum acceleration 2G.

+ The maximum positioning speed 7874 ipm.

+ The cutting enclosure for operator saftey.

+ Back-end double layer pallet shuttle table.

+ Dual side suction system in the cutting area.

+ Automatic nozzle cleaning.

+ Cutting nozzle automatic calibration.

+ Automatic clamping for the material frame in the cutting area.

+ Global Connect, Windows based, easy-to-use operation interface.

+ Digital camaras and process viewing monitor.

+ Rotating console for operator comfort.

+ Virtual Service remote support.

+ ISO8206 and ISO9013 compliant.

D

E

Protected cutting head and guideways

Heat protection for higher laser powers

Optional Features

+ Dust collection system.

+ Gas mixing systems.

+ Air booster system.

+ Oxygen booster system.

+ Material handling system.

+ Programming and nesting software.

CREATING SOLUTIONS
BEYOND MACHINES

PRODUCT

AUTOMATION

DIGITAL

SERVICES

KNOW-HOW

What we stand for

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

Our portfolio is built on the pillars of PRODUCT, DIGITAL, SERVICES,
AUTOMATION and KNOW-HOW. With over 900 employees worldwide
in over 50 countries, we maintain a constant dialogue with our customers.
Through these partnerships, we achieve customer-oriented innovation and
focus on "creating solutions beyond machines".

We deliver not just modern cutting systems and solutions for
plasma, laser, and oxyfuel technology, but appropriate services,
training, our own software applications, and the integration of
solutions from our technology partners in the field of automation.
A network encompassing the machine, providing total solutions.

Our know-how combined with our customer-oriented attitude
and actions have made us the worldwide partner of choice, delivering
innovative solutions to the plate processing industry for over 125 years.

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