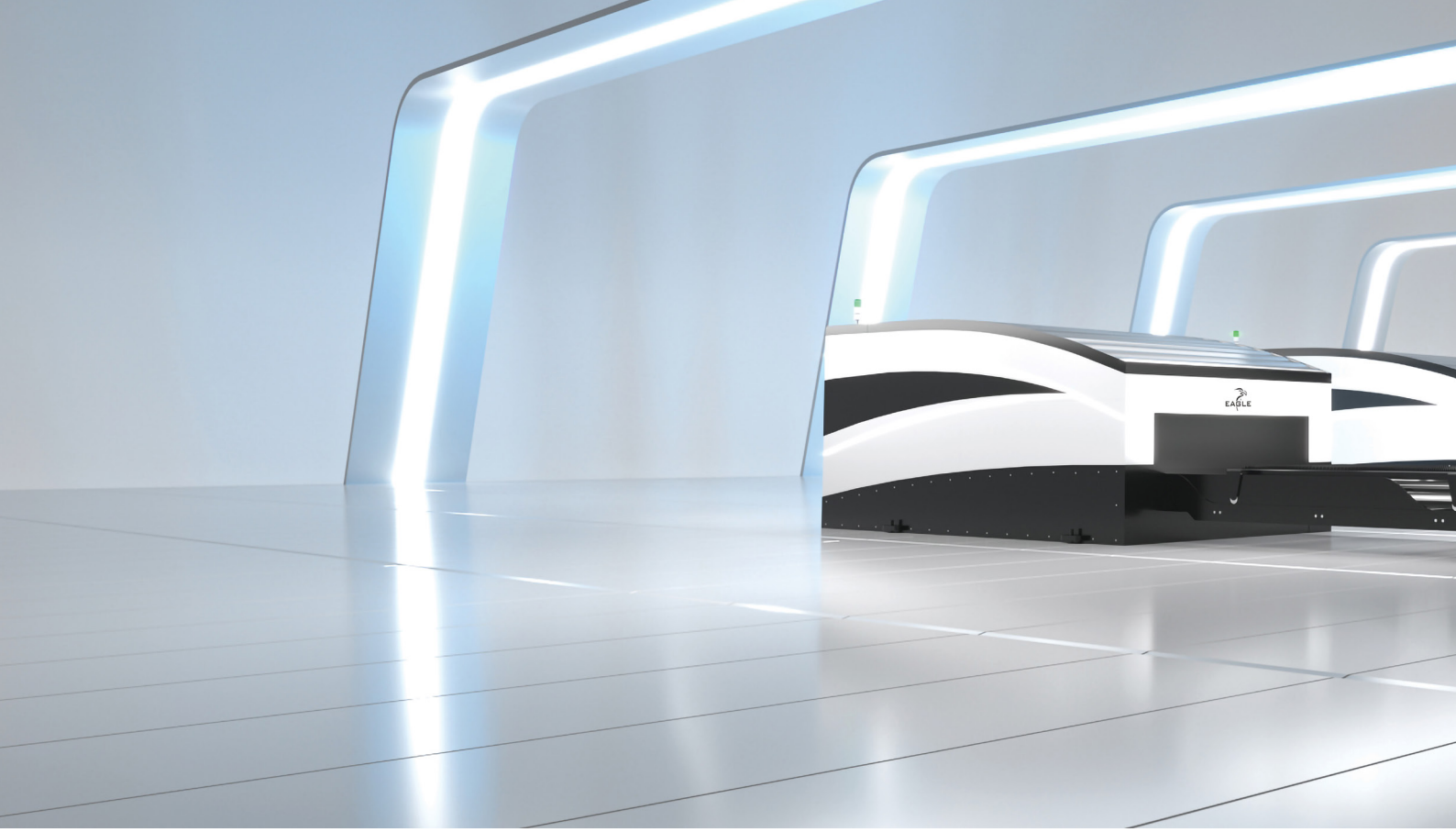
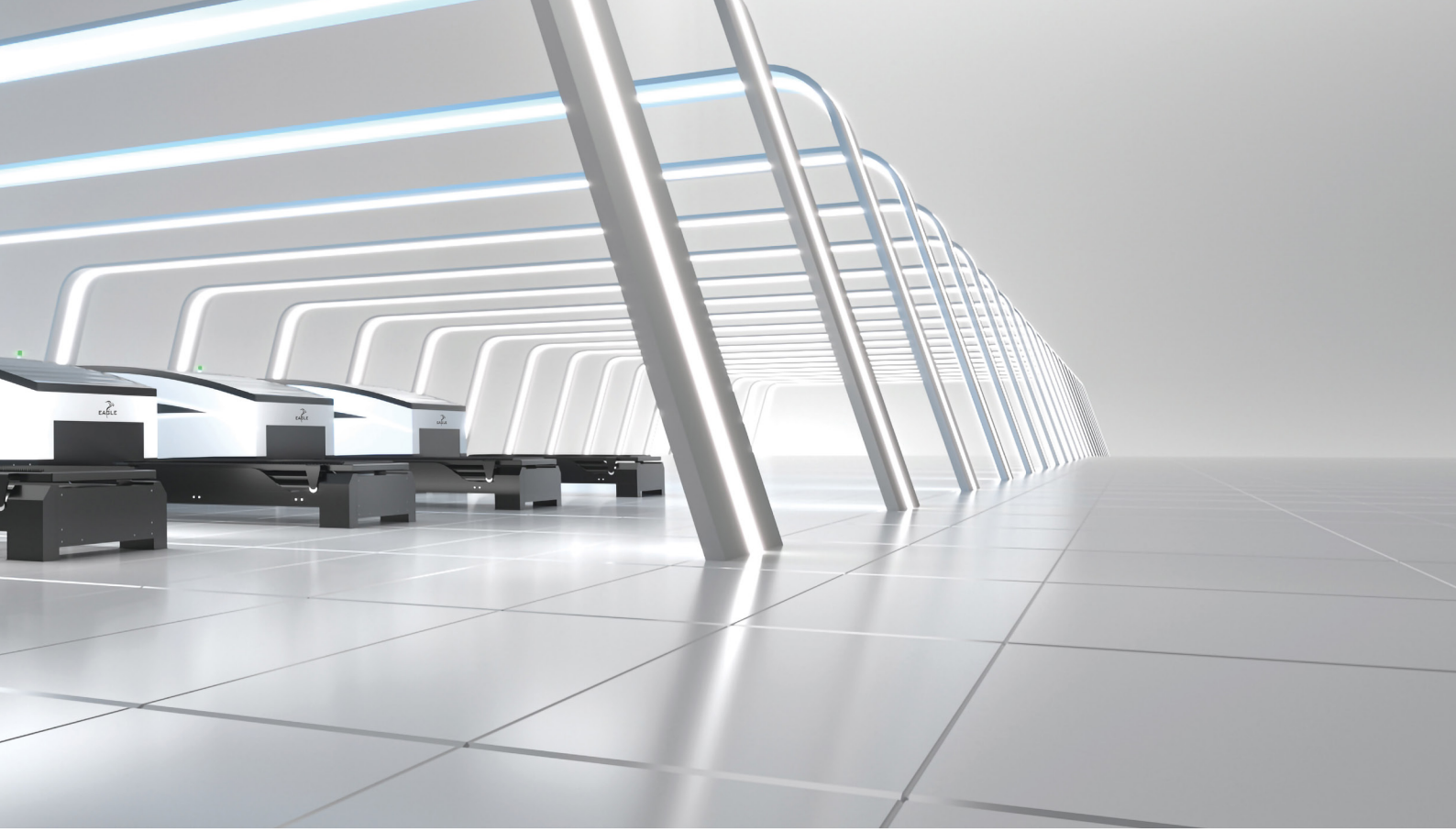
EAGLE®

# FIBER LASER CUTTING SYSTEMS





Eagle Lasers is a global leader and producer of fiber laser technology systems and automation solutions. The combination of higher laser power, unmatched acceleration, and state-of-the-art cutting technology allows our customers worldwide to reach top productivity, efficiency, and quality levels at considerably lower production costs.

Thanks to the partnership with IPG Photonics, the leader in developing and providing fiber laser sources, Eagle Lasers were the first to launch efficient, and award-winning **6kW, 8kW, 10kW, 12kW, 20kW** machines and now the new **30kW** Fiber Laser Cutting System.

**Productivity Through Technology.** We are devoted to developing the ideal fiber laser system, the most productive machine with the fastest laser, highest acceleration, and fully automated material handling.

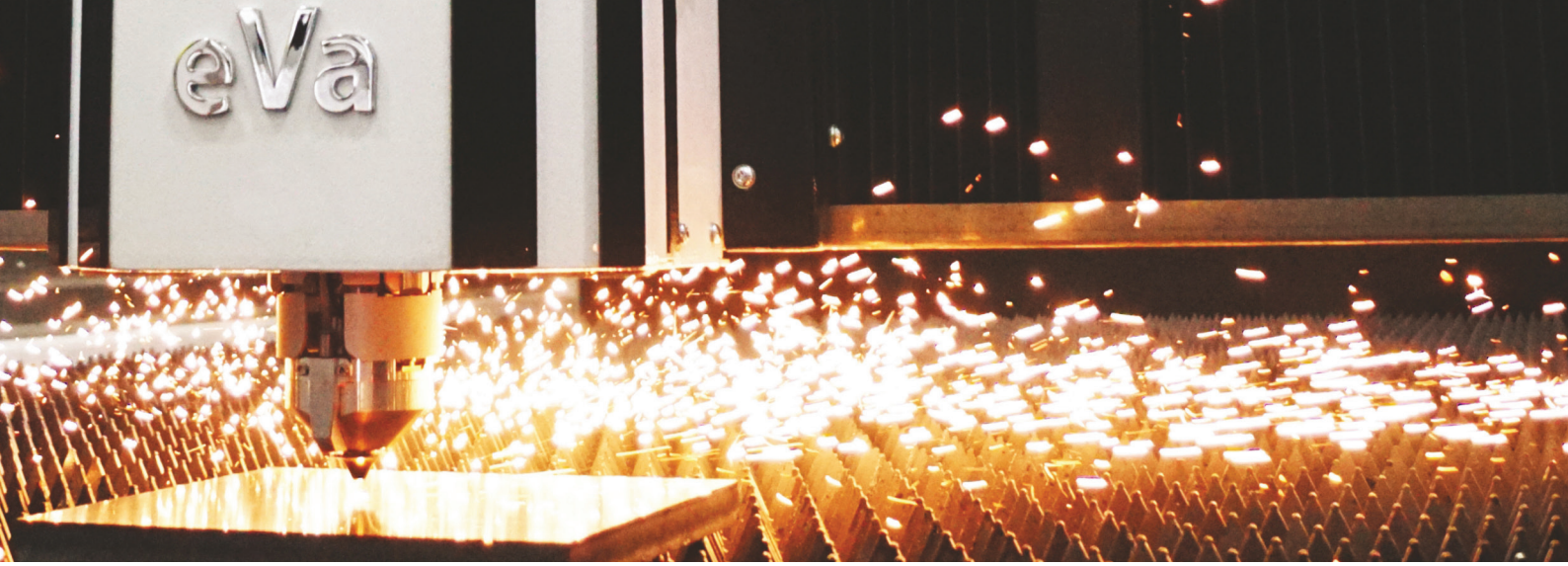
**Reliability Through Refinement.** Although we push the limits in terms of power and speed, we never compromise reliability. Eagle Lasers systems deliver 24/7 production maintaining full quality and accuracy.

The iNspire 1530 F30.0 is the fastest cutting system on the market today, with a controlled 30kW power source, 6G dynamic motion, the updated Eagle eVa cutting head capable of outstanding performances on focus length and precision, a super-light carbon fiber traverse, and the unmatched 9-second pallet changer.

Eagle Lasers' advantages significantly enhance profit and efficiency while reducing energy consumption and maintenance.

It's time to

# POWER YOUR FUTURE!




# BETTER LASER CUTTING TECHNOLOGY

Eagle Lasers deliver the shortest overall project time from art to part. Project time is the sum of programming, material loading, cutting, and part retrieval, therefore, each aspect must be refined and optimized.

**Power you can rely on**

- Highest laser power in the industry
- Up to 30kW reliably delivered
- Patented cutting head technology built to take full advantage of laser power
- Operational 24/7

**Designed for efficiency**

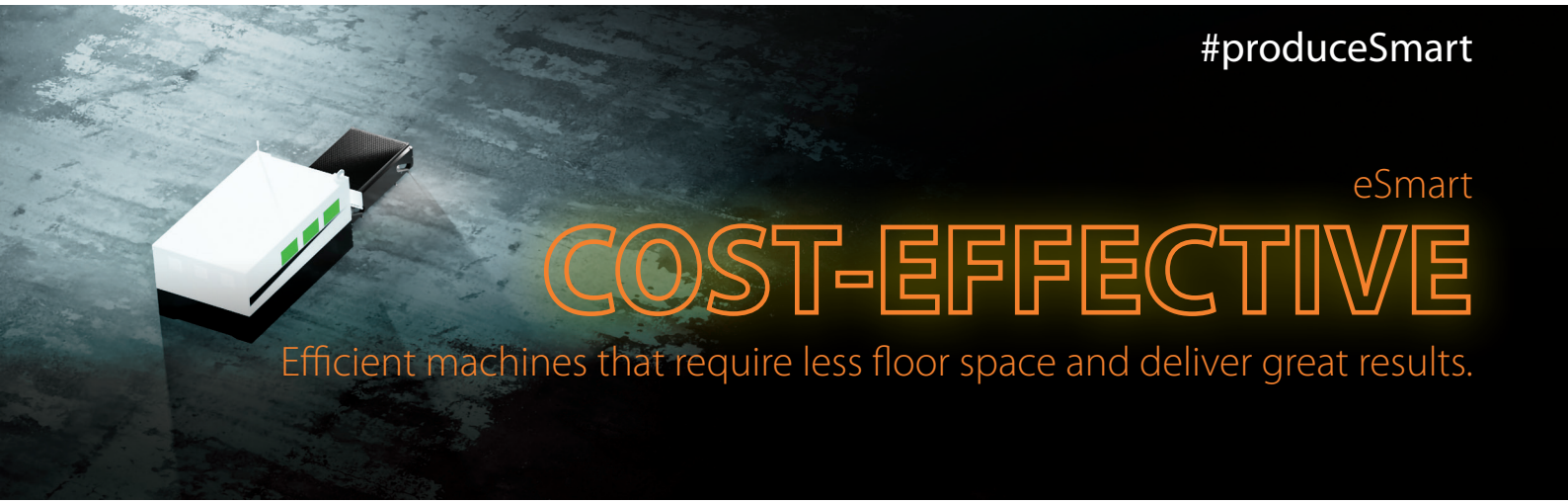
- Designed from the ground up for maximum power and speed
- 6G acceleration (the highest on the market)
- Strong base with lightweight traverse
- Compact structure for floor space optimization
- Most productive machines available

**Best practices for material handling**

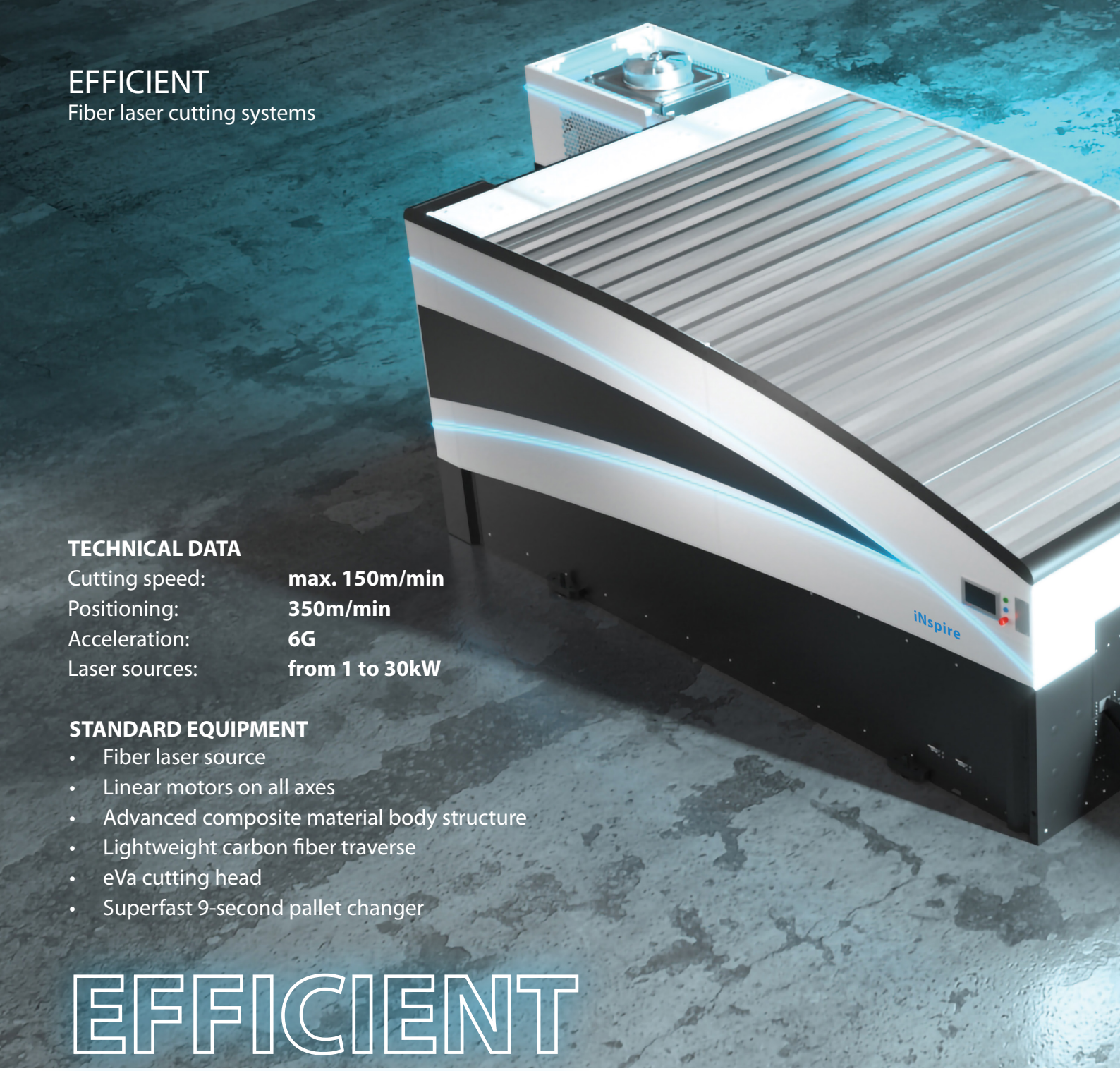
- 9-second pallet exchange
- Conveyor built into machine structure
- Ready for automation

# DISCOVER OUR SERIES OF FIBER LASER CUTTING MACHINES





# EFFICIENT
Fiber laser cutting systems




**TECHNICAL DATA**

| | |
|---|---|
| Cutting speed: | **max. 150m/min** |
| Positioning: | **350m/min** |
| Acceleration: | **6G** |
| Laser sources: | **from 1 to 30kW** |

**STANDARD EQUIPMENT**

- Fiber laser source
- Linear motors on all axes
- Advanced composite material body structure
- Lightweight carbon fiber traverse
- eVa cutting head
- Superfast 9-second pallet changer

# EFFICIENT

Benefits:

- ✓ Made for 24/7 automation
- ✓ Wider range of material thicknesses
- ✓ Highest efficiency and precision
- ✓ Unmatched dynamic acceleration and fast pallet changer
- ✓ Lowest maintenance on the market
- ✓ Reduced energy consumption
- ✓ Intelligent construction and design
- ✓ Lowest cost per part
- ✓ Highest throughput quality and burr-free
- ✓ Best performance and reliability on the market

The iNspire series presents state-of-the-art machines with extremely precise, and exceptionally fast solutions for the most demanding mass production applications where speed, power, and reliability are a must.

With cutting speeds up to **150 m/min**, top positioning speed of **350 m/min**, dynamic acceleration up to **6G**, and fiber laser powers from **1** to **30kW**, they are the fastest and most efficient laser machines in the world.

# iNspire


**MAXIMUM SPEEDS**

| | | |
|---|---|---|
| maximum cutting speed | [m/min] | 150 |
| parallel to the X, Y, Z axes | [m/min] | 250 |
| simultaneously | [m/min] | 350 |

**AXIS PARAMETERS**

| | | |
|---|---|---|
| repetitiveness | [mm] | 0,03 |
| cutting precision | [mm] | 0,05 |
| min. programmable leap | [mm] | 0,001 |

#iNspireTheWorld

## SPECIFICATIONS

| MACHINE MODEL | [um] | 1530 | 2040 | 2060 | 2560 | 2580 | 3080 | 25120 | 30120 | 25160 | 30160 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| X-AXIS | [mm] | 3060 | 4060 | 6060 | 6060 | 8070 | 8070 | 12090 | 12090 | 16110 | 16110 |
| Y-AXIS | [mm] | 1540 | 2040 | 2040 | 2540 | 2598 | 3098 | 2598 | 3098 | 2598 | 3098 |
| Z-AXIS | [mm] | 100 | 100 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 |
| MAX. SHEET WEIGHT | [kg] | 1000 | 1600 | 2400 | 3000 | 9600 | 11520 | 14400 | 17280 | 19200 | 23040 |

| MACHINE MODEL | [um] | 1530 | 2040 | 2060 | 2560 | 2580 | 3080 | 25120 | 30120 | 25160 | 30160 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LENGTH | [mm] | 10000 | 11200 | 14000 | 14000 | 22550 | 22550 | 31330 | 31330 | 41000 | 42000 |
| WIDTH | [mm] | 3080 | 4100 | 4100 | 4750 | 4500 | 5000 | 4500 | 5770 | 4600 | 5900 |
| HEIGHT | [mm] | 3060 | 3060 | 3060 | 3060 | 2700 | 2700 | 2750 | 2850 | 2800 | 2900 |
| WEIGHT | [t] | 18 | 22 | 36 | 39 | 52 | 72 | 81 | 99 | 101 | 124 |

1) Approximate values. The exact parameters are specified in the installation plan.

# UNIVERSAL
Fiber laser cutting systems


**TECHNICAL DATA**

| | |
|---|---|
| Cutting speed: | **max. 150m/min** |
| Positioning: | **180m/min** |
| Acceleration: | **3G** |
| Laser sources: | **from 1 to 30kW** |

**STANDARD EQUIPMENT**

- Fiber laser source
- Linear motors on all axes
- Advanced composite material body structure
- Rigid steel traverse bridge
- eVa cutting head
- Superfast pallet changer without hydraulics

# UNIVERSAL

Benefits:

- ✓ Made for 24/7 automation
- ✓ Flexible range of material thicknesses
- ✓ Best efficiency and precision
- ✓ Intelligent design to minimize the footprint on the floor space
- ✓ Lowest maintenance on the market
- ✓ Reduced energy consumption
- ✓ Intelligent construction made to last
- ✓ Lowest cost per part
- ✓ Best throughput quality
- ✓ Best performances and reliability on the market

The eVision laser cutting machines are universal and provide the best results for any production. Whether you run large or small batches, cut thin or thick sheets, this series will deliver optimum results 24/7.

With a top cutting speed of **150m/min**, positioning speed of **180m/min**, acceleration up to **3G**, and fiber laser powers from 1 to **30kW**, the eVision systems are ready to take your shop's production to the next level.


# eVision

**MAXIMUM SPEEDS**

| | | |
|---|---|---|
| maximum cutting speed | [m/min] | 150 |
| parallel to the X, Y, Z axes | [m/min] | 150 |
| simultaneously | [m/min] | 180 |

**AXIS PARAMETERS**

| | | |
|---|---|---|
| repetitiveness | [mm] | 0,03 |
| cutting precision | [mm] | 0,1 |
| min. programmable leap | [mm] | 0,001 |

#haveVision

## SPECIFICATIONS

| MACHINE MODEL | [um] | 1530 | 2040 | 2060 | 2560 | 2580 | 3080 | 25120 | 25160 | 30120 | 30160 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| X-AXIS | [mm] | 3060 | 4060 | 6060 | 6060 | 8070 | 8070 | 12090 | 16110 | 12090 | 16110 |
| Y-AXIS | [mm] | 1540 | 2040 | 2040 | 2540 | 2598 | 3098 | 2598 | 2598 | 3098 | 3098 |
| Z-AXIS | [mm] | 100 | 100 | 100 | 100 | 150 | 150 | 150 | 150 | 150 | 150 |
| MAX. SHEET WEIGHT | [kg] | 1000 | 1600 | 2400 | 3000 | 9600 | 11520 | 14400 | 19200 | 17280 | 23040 |

| MACHINE MODEL | [um] | 1530 | 2040 | 2060 | 2560 | 2580 | 3080 | 25120 | 25160 | 30120 | 30160 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LENGTH | [mm] | 10000 | 11200 | 14000 | 14000 | 22550 | 22550 | 31330 | 41000 | 31330 | 42000 |
| WIDTH | [mm] | 3080 | 4100 | 4100 | 4750 | 4500 | 5000 | 4500 | 4600 | 5770 | 5900 |
| HEIGHT | [mm] | 3060 | 3060 | 3060 | 3060 | 2700 | 2700 | 2750 | 2800 | 2850 | 2900 |
| WEIGHT | [t] | 18 | 22 | 36 | 39 | 52 | 72 | 81 | 99 | 101 | 124 |

1) Approximate values. The exact parameters are specified in the installation plan.

# COST-EFFECTIVE

Fiber laser cutting systems


**TECHNICAL DATA**

| | |
|---|---|
| Cutting speed: | **max. 100m/min** |
| Positioning: | **170m/min** |
| Acceleration: | **2G** |
| Laser sources: | **from 1 to 10kW** |

**STANDARD EQUIPMENT**

- Fiber laser source
- Linear motors on all axes
- Advanced composite material body structure
- eVa cutting head
- Fast pallet changer

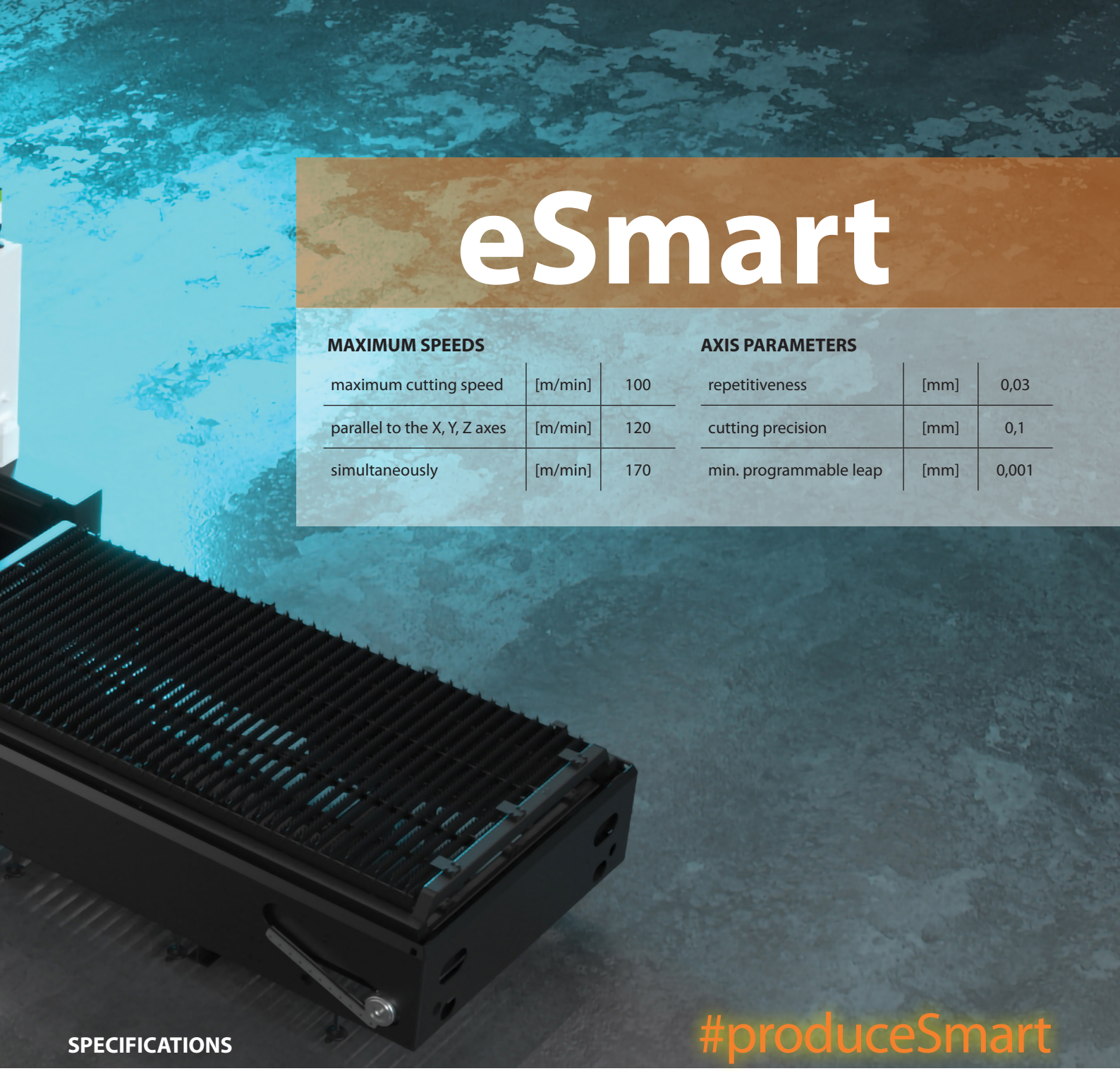
# COST-EFFECTIVE

Benefits:

- ✓ Made for 24/7 automation
- ✓ Flexible range of material thicknesses
- ✓ Cost-efficient technology
- ✓ Intelligent design to minimize footprint on floor space
- ✓ Reduced maintenance and services required
- ✓ Reduced energy consumption
- ✓ Easy to operate
- ✓ Easy and fast turnaround
- ✓ Flexible configurations and options to fit any budget
- ✓ Best performance and reliability on the market

The eSmart series presents the most cost-effective machines, designed with efficiency and reliability at the core. They require little floor space but deliver great results.

With cutting speeds of up to **100m/min**, acceleration up to **2G**, and fiber laser powers of **1** to **10kW**, the eSmart series delivers precision, efficiency, and value.



# eSmart

**MAXIMUM SPEEDS**

| | | |
|---|---|---|
| maximum cutting speed | [m/min] | 100 |
| parallel to the X, Y, Z axes | [m/min] | 120 |
| simultaneously | [m/min] | 170 |

**AXIS PARAMETERS**

| | | |
|---|---|---|
| repetitiveness | [mm] | 0,03 |
| cutting precision | [mm] | 0,1 |
| min. programmable leap | [mm] | 0,001 |

#produceSmart

## SPECIFICATIONS

| MACHINE MODEL | [um] | 1530 | 2040 |
|---|---|---|---|
| X-AXIS | [mm] | 3060 | 4070 |
| Y-AXIS | [mm] | 1540 | 2098 |
| Z-AXIS | [mm] | 100 | 100 |
| MAX. SHEET WEIGHT | [kg] | 1000 | 3200 |

| MACHINE MODEL | [um] | 1530 | 2040 |
|---|---|---|---|
| LENGTH | [mm] | 10000 | 11570 |
| WIDTH | [mm] | 3080 | 3016 |
| HEIGHT | [mm] | 3060 | 2240 |
| WEIGHT | [t] | 18 | 22 |

1) Approximate values. The exact parameters are specified in the installation plan.

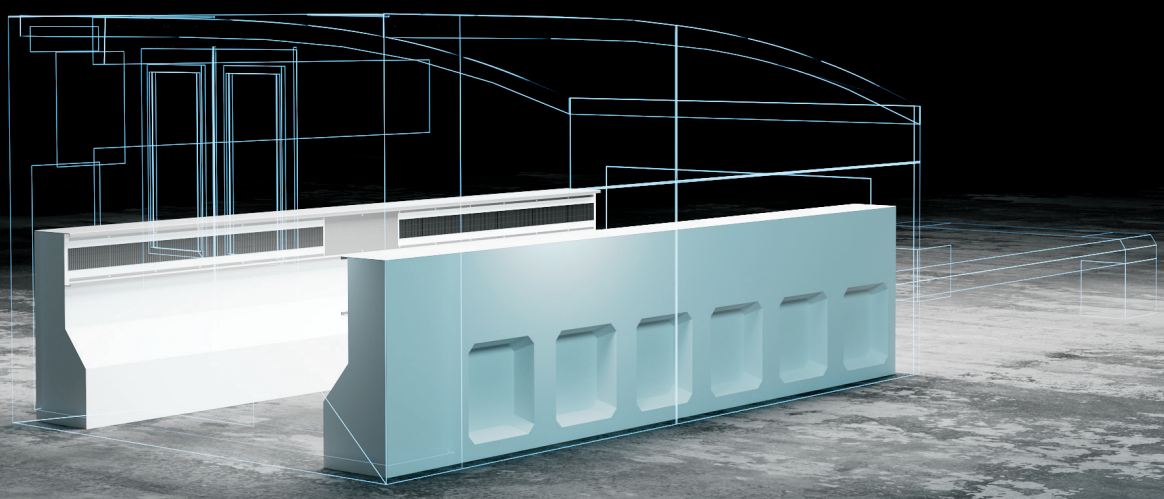
# INNOVATION STARTS FROM INTUITION.

The ideal laser machine is powerful, fast, and reliable. This means it can produce more in less time, with less maintenance and less energy consumption. At Eagle, we reinvented technology through constant research and innovation, which led us to create a better work environment with intelligent, ergonomic design on each part. We select only the highest quality materials for all our components which then work interconnectedly to achieve the best performance. Our goal is to provide our clients with the highest efficiency, faster turnaround, lower cost per part, and maximum flexibility in processes, materials, and thicknesses. All this through state-of-the-art machines that are ready to operate at full accuracy 24/7.

We made our vision a reality.

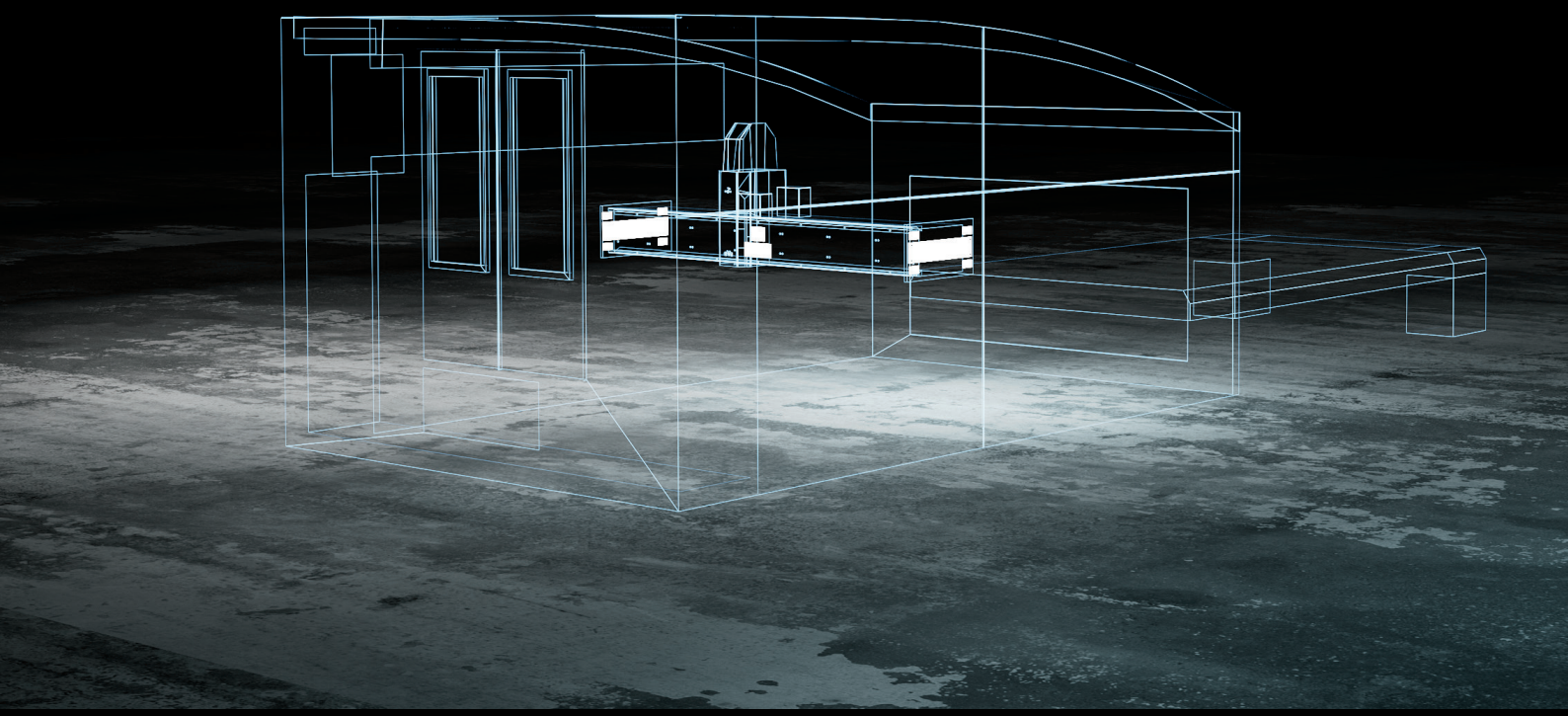
## BODY CONSTRUCTION FOR RELIABILITY

- 100 x higher vibration damping factor than steel
- 10 x lower temperature coefficient
- Made for high dynamics
- Highest stability
- Built through a green process



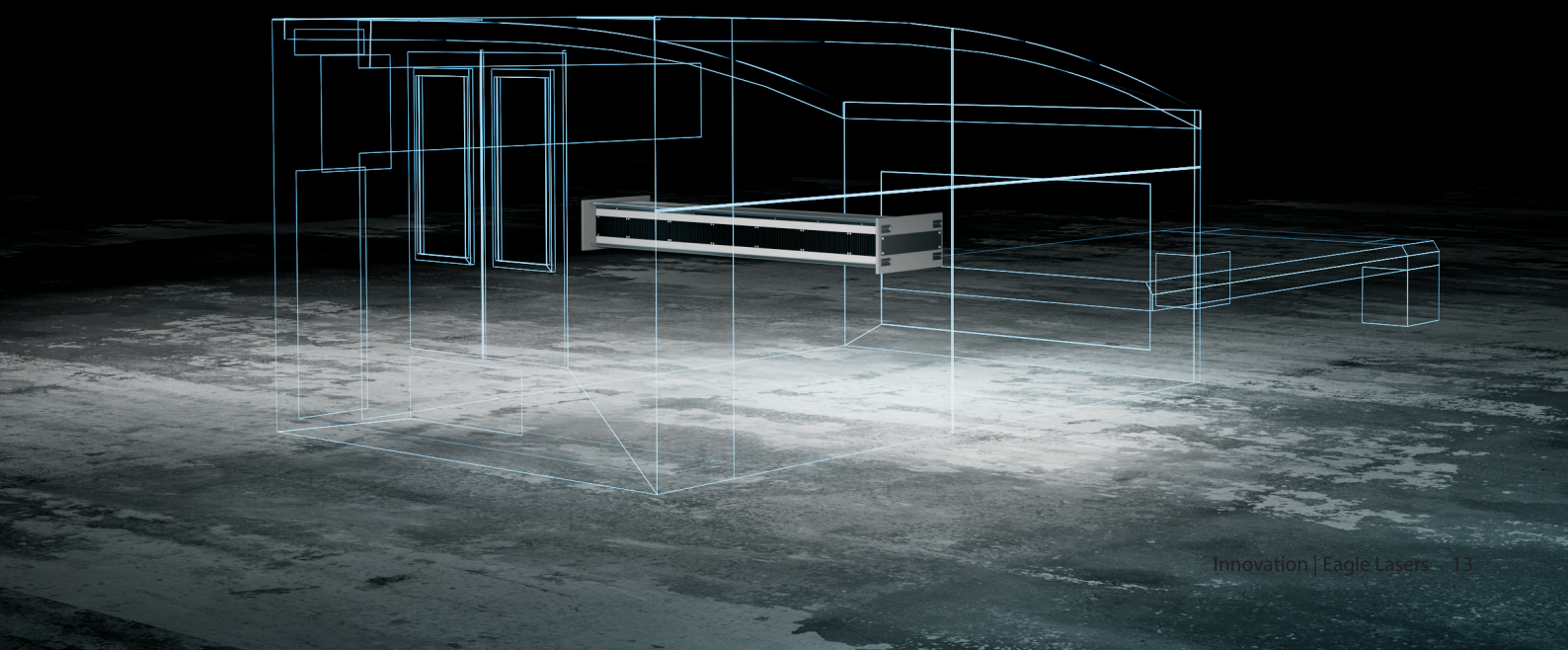
# LINEAR MOTORS ON ALL AXES FOR SPEED

- Reliable 24/7
- Highest acceleration
- Made for precision with 100% stability
- High performances with no frictions
- No maintenance required
- Top accuracy at high speed and power



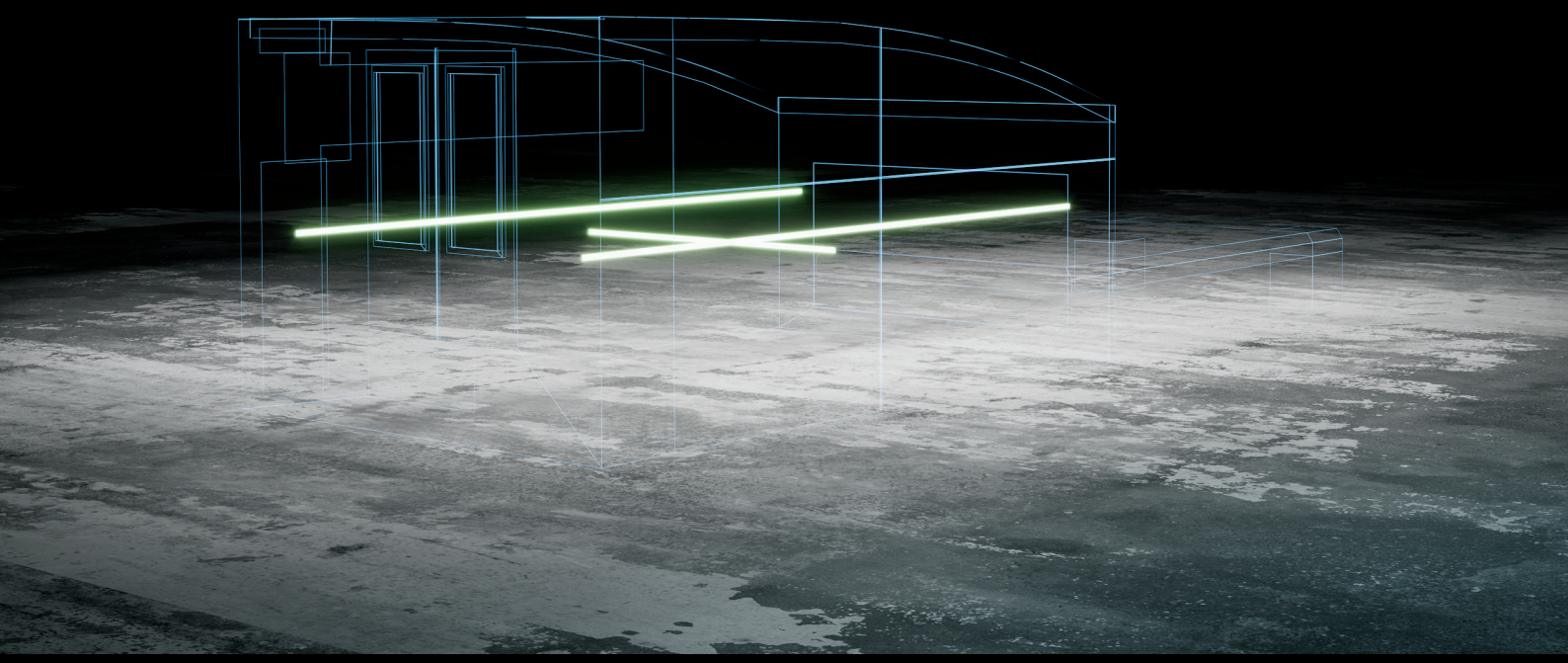
# CARBON FIBER TRAVERSE FOR ACCURACY

- Highest stiffness and strength for great accuracy
- Lightweight construction for the highest speed
- Temperature resistance
- Long-lasting and hard-wearing material
- Vibration damping for stability



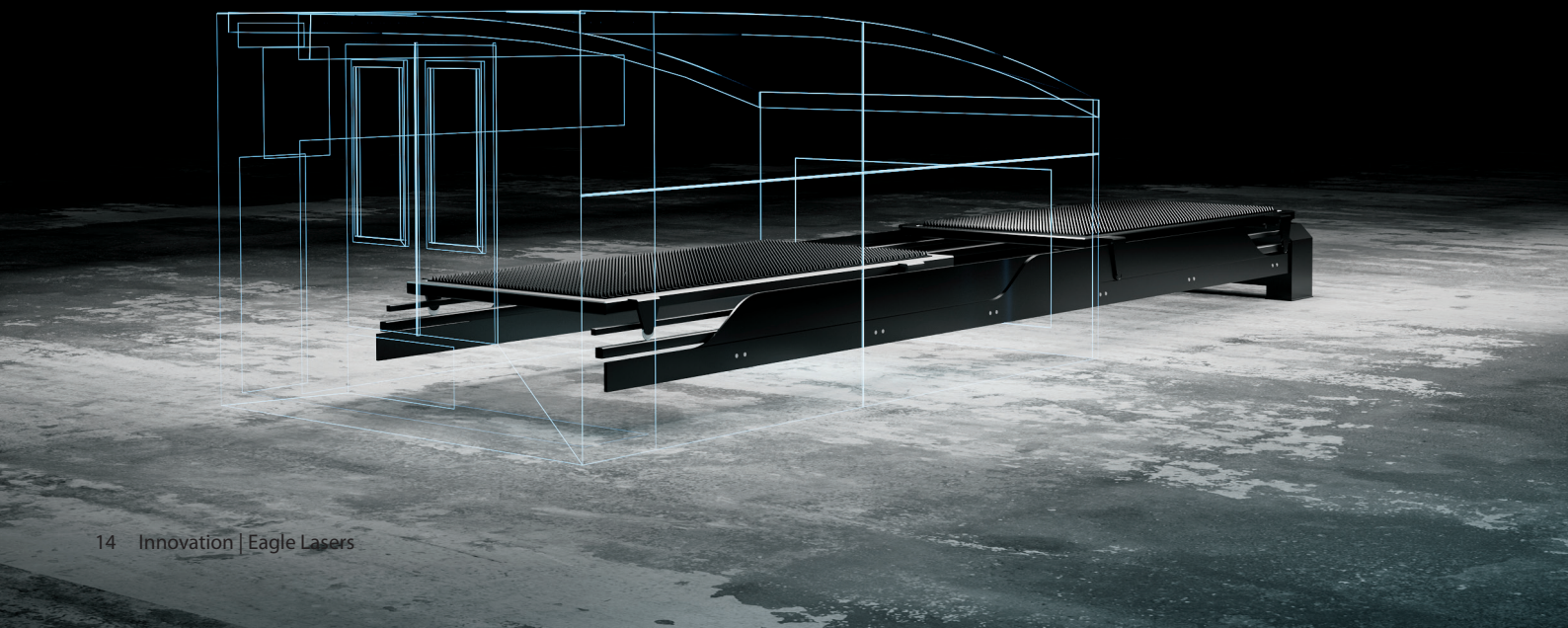
# ENCODERS FOR RAPIDITY

- Immediate start in less than 15 seconds
- Built for speed and acceleration
- 100% control over dynamic motion
- Great accuracy down to 1 nanometer
- High reliability
- Wear-free and contactless



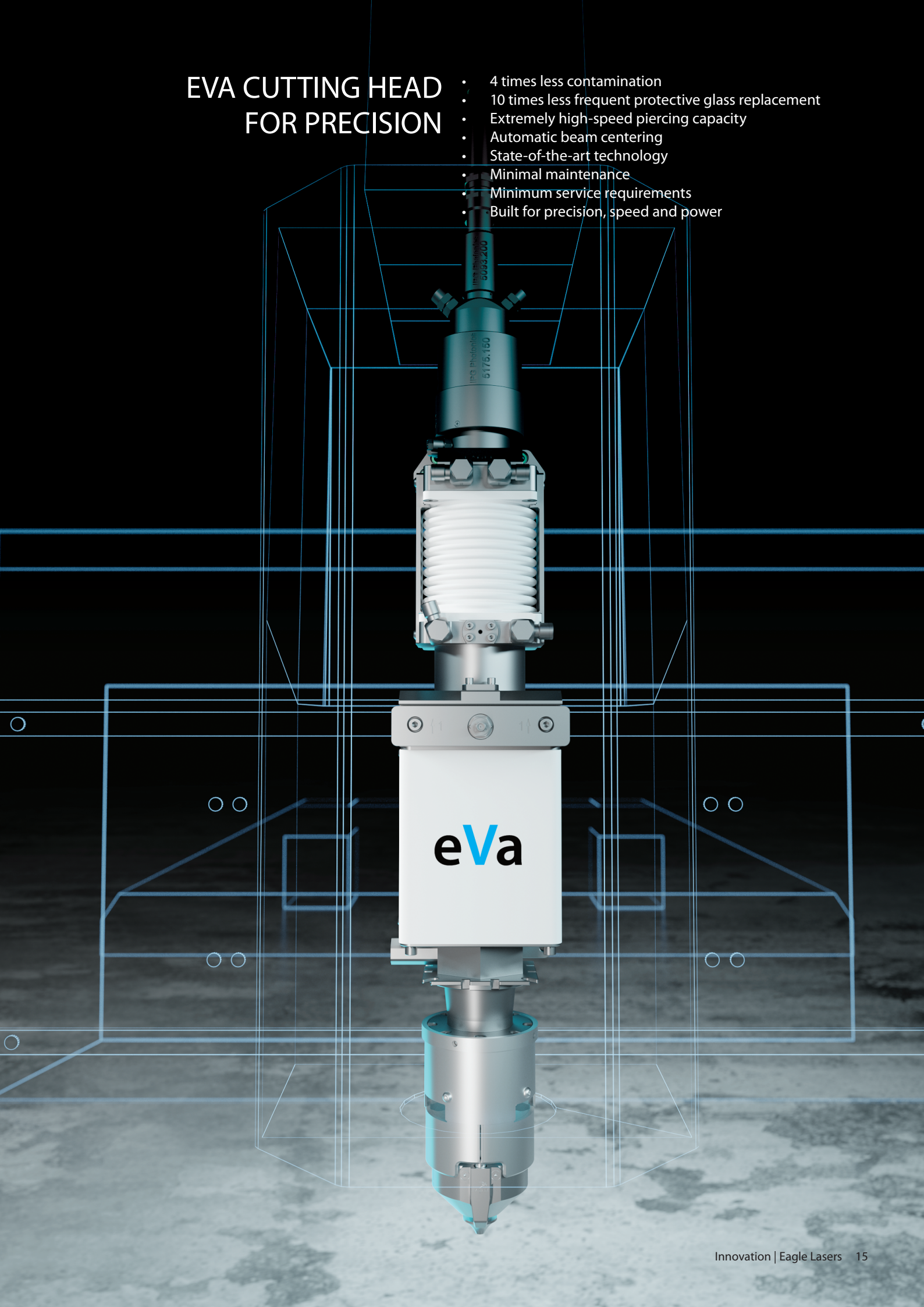
# PALLET CHANGER FOR DYNAMICS

- 9-second pallet exchange
- Made for productivity adding hours of work a week
- Safe and easy 3-side access
- Ergonomic design
- Designed for full automation



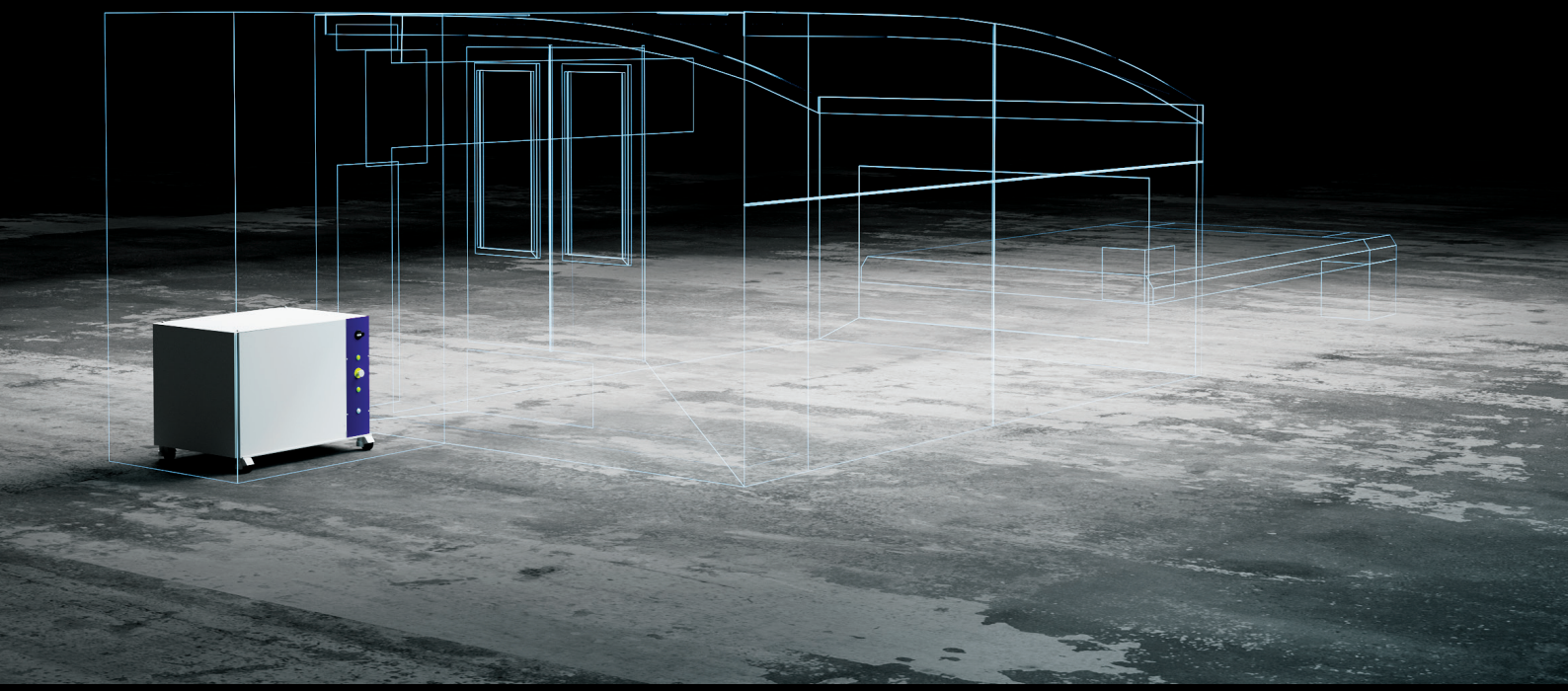
# EVA CUTTING HEAD FOR PRECISION

- 4 times less contamination
- 10 times less frequent protective glass replacement
- Extremely high-speed piercing capacity
- Automatic beam centering
- State-of-the-art technology
- Minimal maintenance
- Minimum service requirements
- Built for precision, speed and power



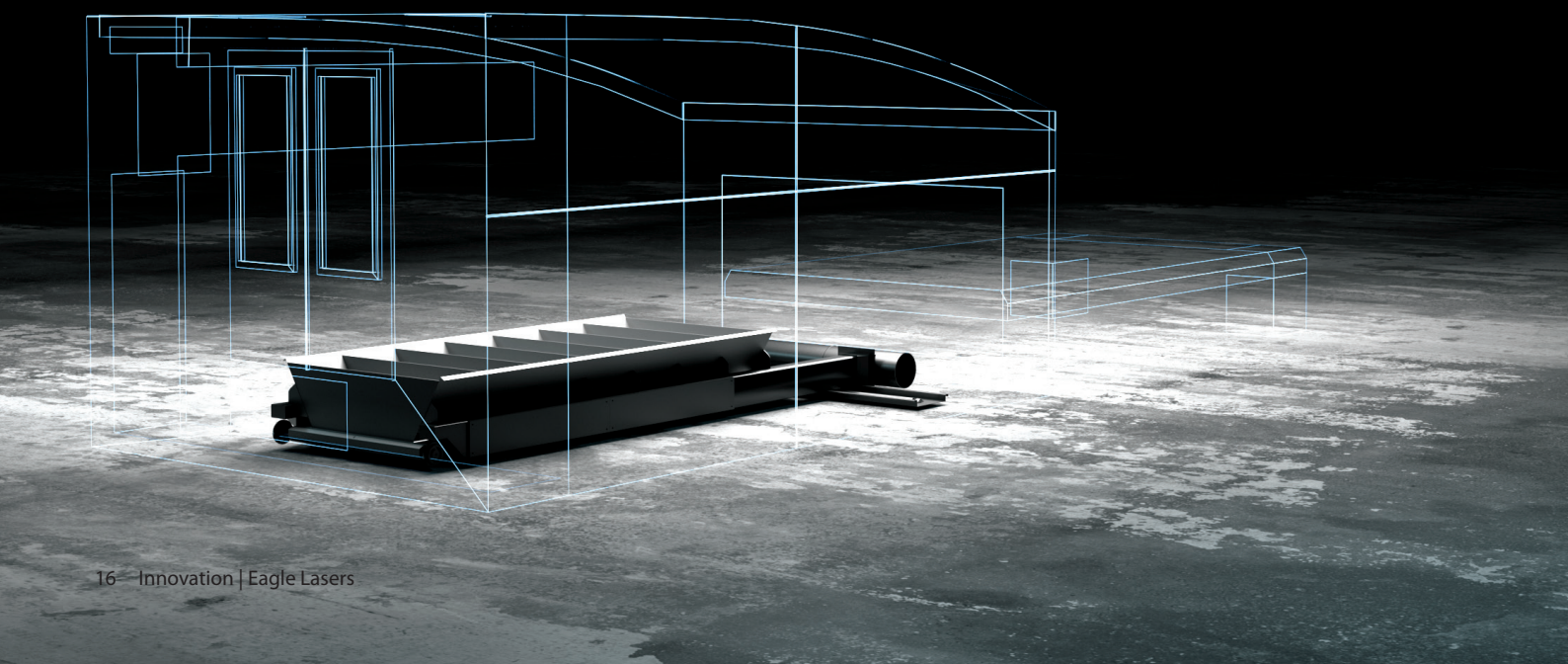
# FIBER LASER SOURCE FOR POWER

- IPG Photonics for low energy consumption
- Flexible workflow for thin to thick material
- Higher accuracy
- Power under control with lightning speed
- Reduced cost per part with the highest quality
- Reduced operating costs
- Higher productivity
- 50% more efficient



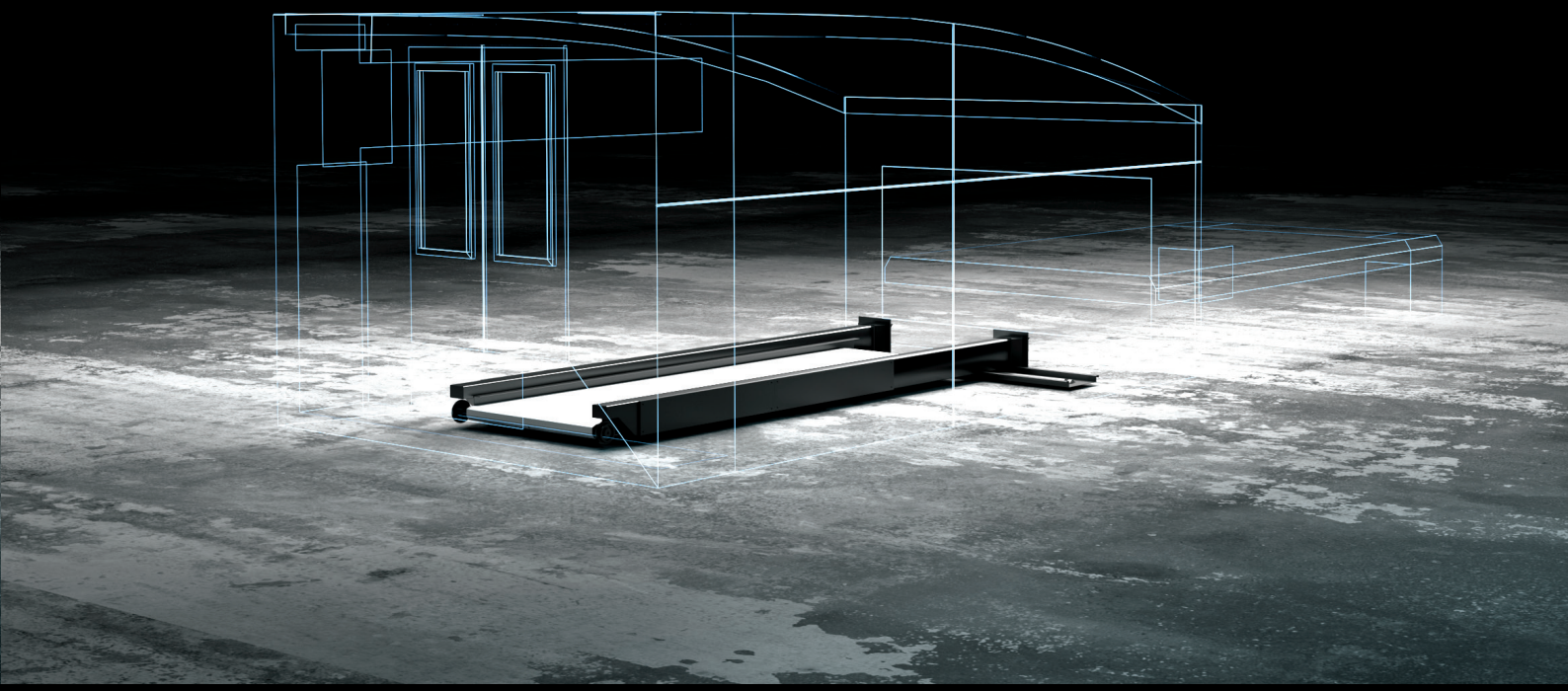
# MULTI-CHAMBER EXTRACTION SYSTEM FOR SECURITY

- Enhanced security and safety for the operator
- Less risk of contamination
- Complete control and easy maintenance
- Improved extraction efficiency
- Fully integrated with the Eagle Lasers control system



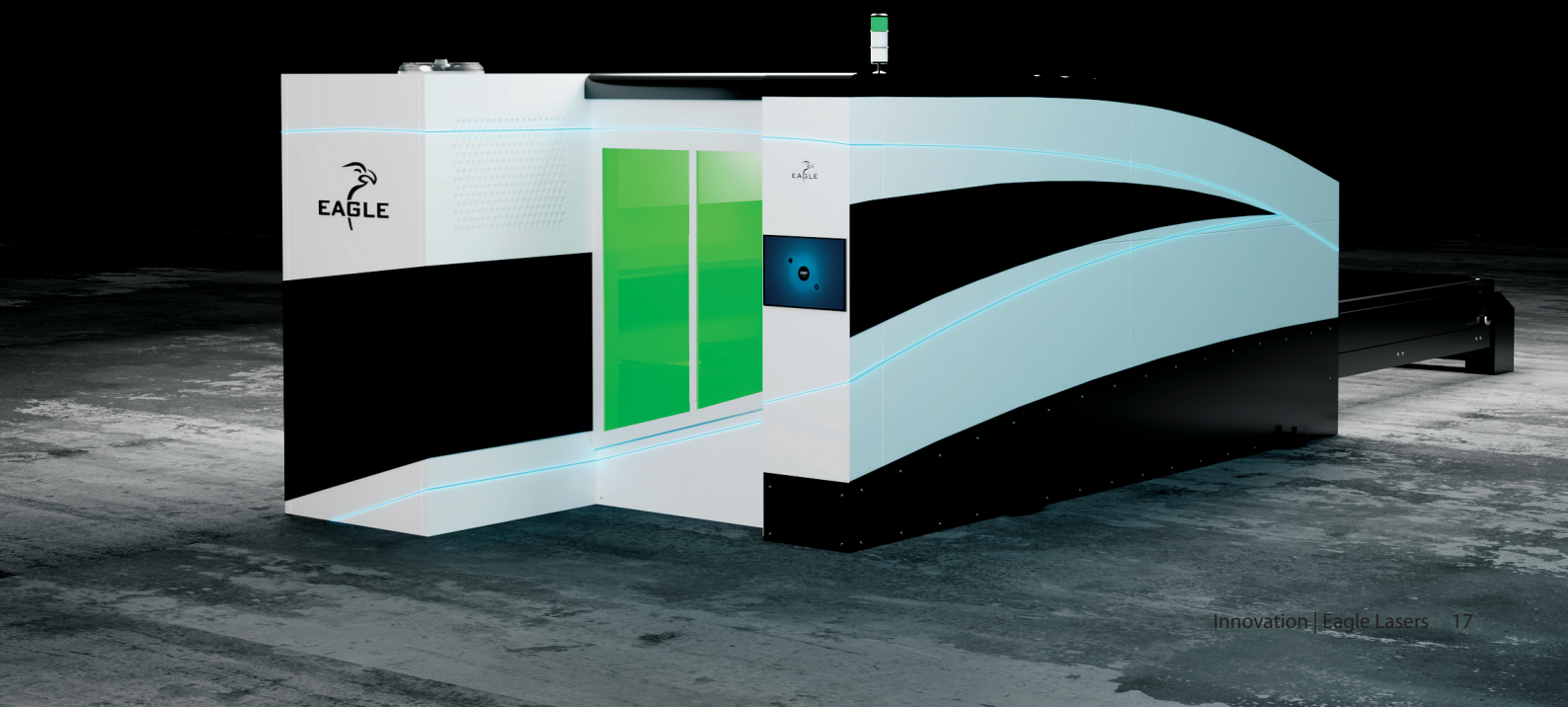
# CONVEYOR BELT TRANSPORTER FOR QUALITY

- Better quality of cut parts
- Greater machine throughput and faster cycle times
- Higher quality with no micro joints
- Higher efficiency
- Reduced downtime



# DESIGN FOR ERGONOMICS

- Intelligent compact design
- Reduced floor space
- Ready for automation
- Easy access for maintenance
- Built with the highest quality components on the market




## ENHANCED EFFICIENCY

Today we deliver the fastest and most reliable fiber laser cutting system on the market. With controlled 30kW power, decreased production time, less energy consumption, and lower cost per part, we provide a new level of productivity and efficiency.

## LOWEST COST PER PART ON THE MARKET

Your profit is of crucial value. Let the numbers speak for themselves and see how your cost per part decreases to a minimum by increasing efficiency and productivity.

## HIGHEST RETURN ON INVESTMENT

We are changing the industry by providing continuous innovations. Through a system with the highest power and efficiency we have set a new standard in productivity and cost-effectiveness.


### REDUCED PIERCING TIME

Our engineers work every day to improve our technologies. In the 30kW machine, piercing time has been reduced to a minimum in order to ensure the highest effectiveness and uninterrupted operation.

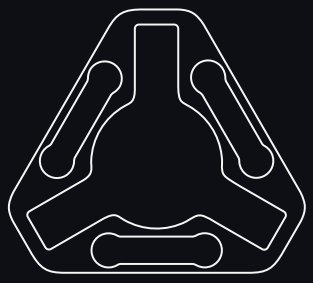
### EXCELLENT CUTTING QUALITY

Our goal is to empower our customers and provide them with high-class standards. Because innovation is in our DNA, we constantly improve and perfect all aspects of our cutting technology.

### BEST CUTTING HEAD IN THE INDUSTRY

Our patented eVa cutting head, built for high powers, can cut different materials and thicknesses with the same accuracy. Its unique construction lowers operating costs and allows the machine to run smoothly throughout the whole production shift.

# TOWER OF POWER



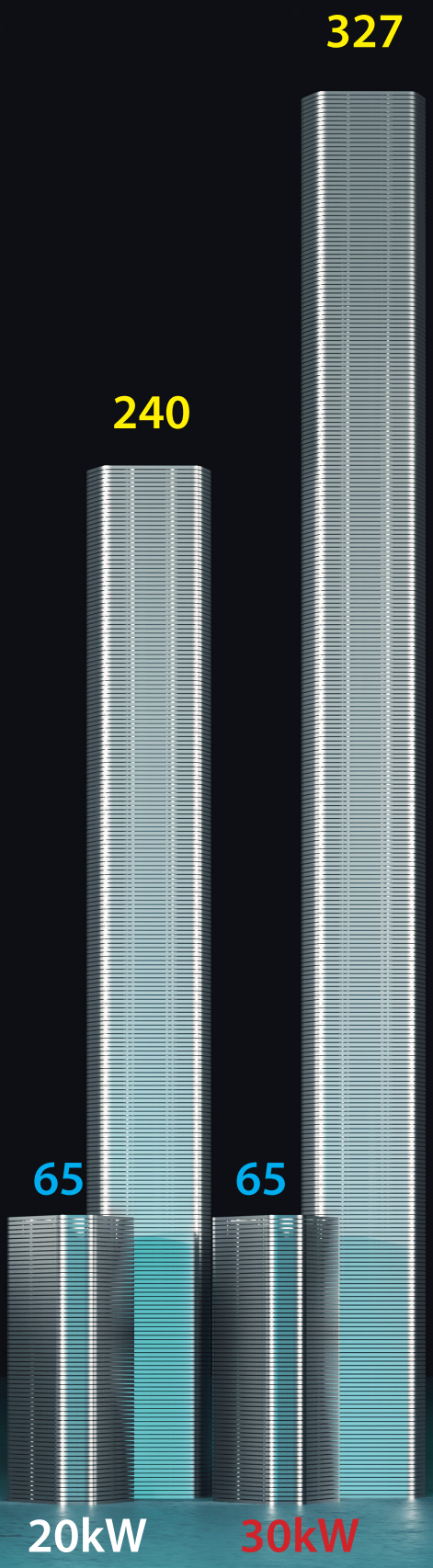
| | |
|---|---|
| MATERIAL | **MILD STEEL** |
| SHEET THICKNESS | **12MM** |
| SIZE | **210MM X 287MM** |
| CUTTING LENGTH | **1975MM** |

number of parts

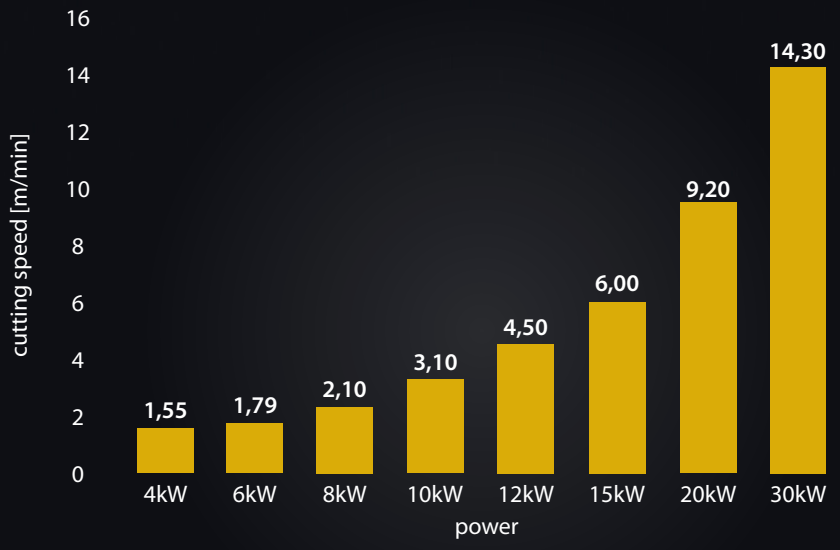
46 O2
56
62
65
90 N2
65
129
65
171

4kW 6kW 8kW 10kW 12kW 15kW

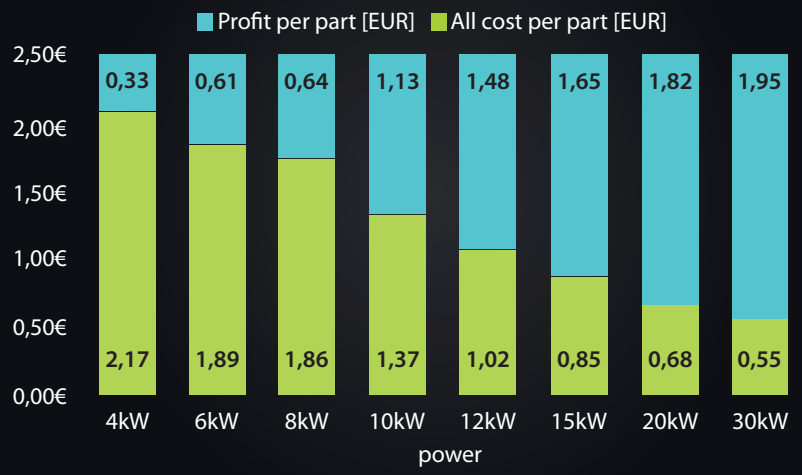
laser power



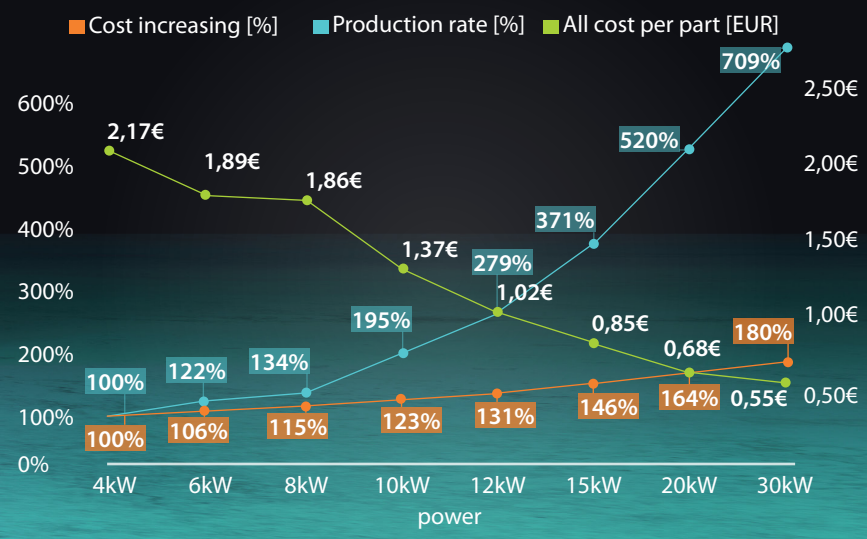

## Production cutting speed




## Profit per part




## Cost per part



# THE FUTURE STARTS NOW!

The benefits of Industry 4.0 are clear: increased efficiency, safety and precision, decreased costs, energy consumption, and waste.

Industry 4.0 translates to intelligent automation and smart networking of machines and processes through information and communication technology. By building this intelligence into the assets that we design and produce, we capture and leverage data to monitor, analyze, optimize and maintain it throughout the lifecycle from design to decommissioning. This allows us to achieve the balancing act between profitability, asset health, and efficiency. At Eagle Lasers, we believe in enhancing productivity through efficiency, creating a better and safer environment for our clients, reducing CO2 emissions and energy consumption because the future starts now!

## MyESOFT

MyESOFT is a CAD/CAM software especially dedicated to sheet metal processing. Its features and intuitiveness allow for effortless operating on a laser cutting machine, plasma, or waterjet. With MyESOFT, programming has never been easier, not to mention its quick cost estimation, real-time production control and planning ability.  By choosing MyESOFT, you can be sure that you are getting the best possible performance and productivity.

## MyERIS

Ergonomic, fast and easy to use, MyERIS is an award-winning HMI (human machine interface) standard in all Eagle fiber laser cutting machines. A whole new level of usability and human interaction, with revolutionary design, great new functionalities and a machine-integrated touchscreen.

## MyERS

MyERS is a modern, cloud-based reporting system that allows unlimited possibilities to optimize your productivity through dynamic, fully customizable reports on every key aspect of production, from technician efficiency to energy and gas consumption, and everything in between. Be in the know from anywhere in the world and create your own best practices.

## MyEDROP

The patented MyEDROP module makes efficient use of material remnants, even when they are irregularly shaped or present several holes and gaps. MyEDROP allows you to quickly produce one part right at the machine using the touchscreen without creating a new NC file.

## MyE2DROP

MyE2DROP offers an identical functionality to that of MyEDROP but for the cabinet pallet outside. Thanks to a second video camera that visualizes the external pallet, it's possible to simultaneously cut a program inside the machine while the operator uses MyE2DROP to place a program on the pallet outside.

## MyEMIX

MyEMIX significantly increases the quality and speed of the cutting technology. A peripheral device developed by Eagle Lasers engineers automatically changes the cutting technology between oxygen, nitrogen, and an oxygen/nitrogen mixture. The results are increased throughput, speed, and reduced burr.

## MyECAT

MyECAT allows achieving the highest quality of cutting on thick stainless and aluminium sheets and exceptionally quick burns on all thick sheets. MyECAT improves quality and accuracy for high thickness on piercing, and cutting small contours in any position. MyECAT enables a 20% increase of thickness with the same laser power, improves thick sheet cycle time by up to 50%, delivers high-quality edge up to 40%, and 80% less burr on aluminium and stainless steel.

## MyEBOOST

MyEBOOST is made for fast cutting of thin and medium sheets. It includes MyEFLY and MyEFAST functions. MyEFLY function keeps constant cutting speed while piercing, reducing part cycle times for repetitive patterns on thickness up to 6mm. MyEFAST function improves cutting and piercing efficiency of thin and medium sheets up to 12 mm by 30%.

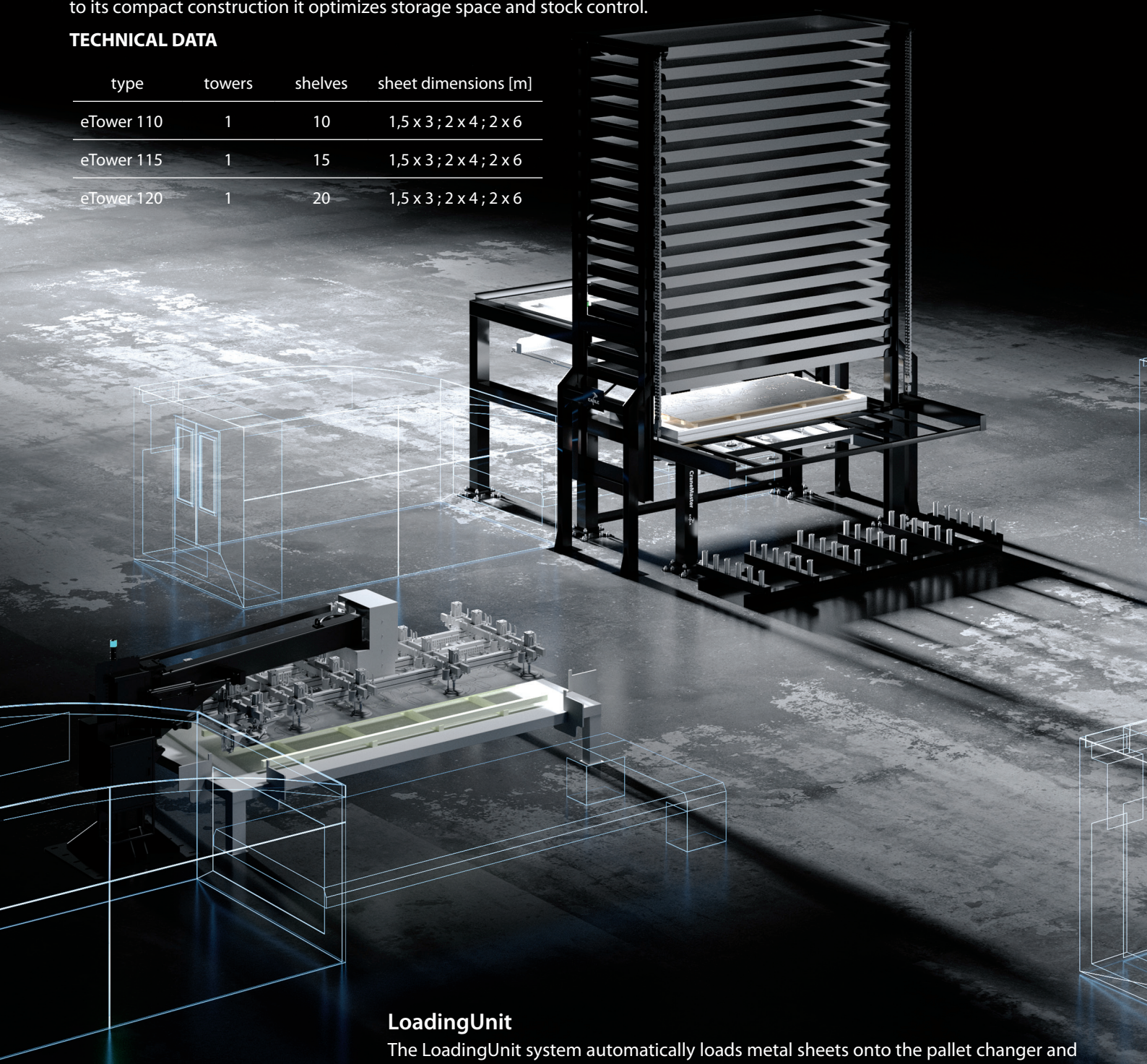
# PRODUCTIVITY
Automation

## eTower 1

A single storage tower equipped with a loading/unloading station and universal shelves that can be used for raw material as well as for cut parts and remnants. Thanks to its compact construction it optimizes storage space and stock control.

**TECHNICAL DATA**

| type | towers | shelves | sheet dimensions [m] |
|---|---|---|---|
| eTower 110 | 1 | 10 | 1,5 x 3 ; 2 x 4 ; 2 x 6 |
| eTower 115 | 1 | 15 | 1,5 x 3 ; 2 x 4 ; 2 x 6 |
| eTower 120 | 1 | 20 | 1,5 x 3 ; 2 x 4 ; 2 x 6 |



## LoadingUnit

The LoadingUnit system automatically loads metal sheets onto the pallet changer and is fully automated and integrated with the machine. A simple solution that significantly optimizes the material handling process while reducing operation time and production costs.

**TECHNICAL DATA**

| | |
|---|---|
| cycle time | from 55s |
| max. sheet size | 5m x 3m; 2m x 4m |
| max. sheet | 25mm |

## eTower 2

The eTower 2 is a two-tower warehouse system which can be equipped with a different number of shelves according to the customer's requirements. It optimizes storage process logistics and material preparation, and guarantees high storage density.

**TECHNICAL DATA**

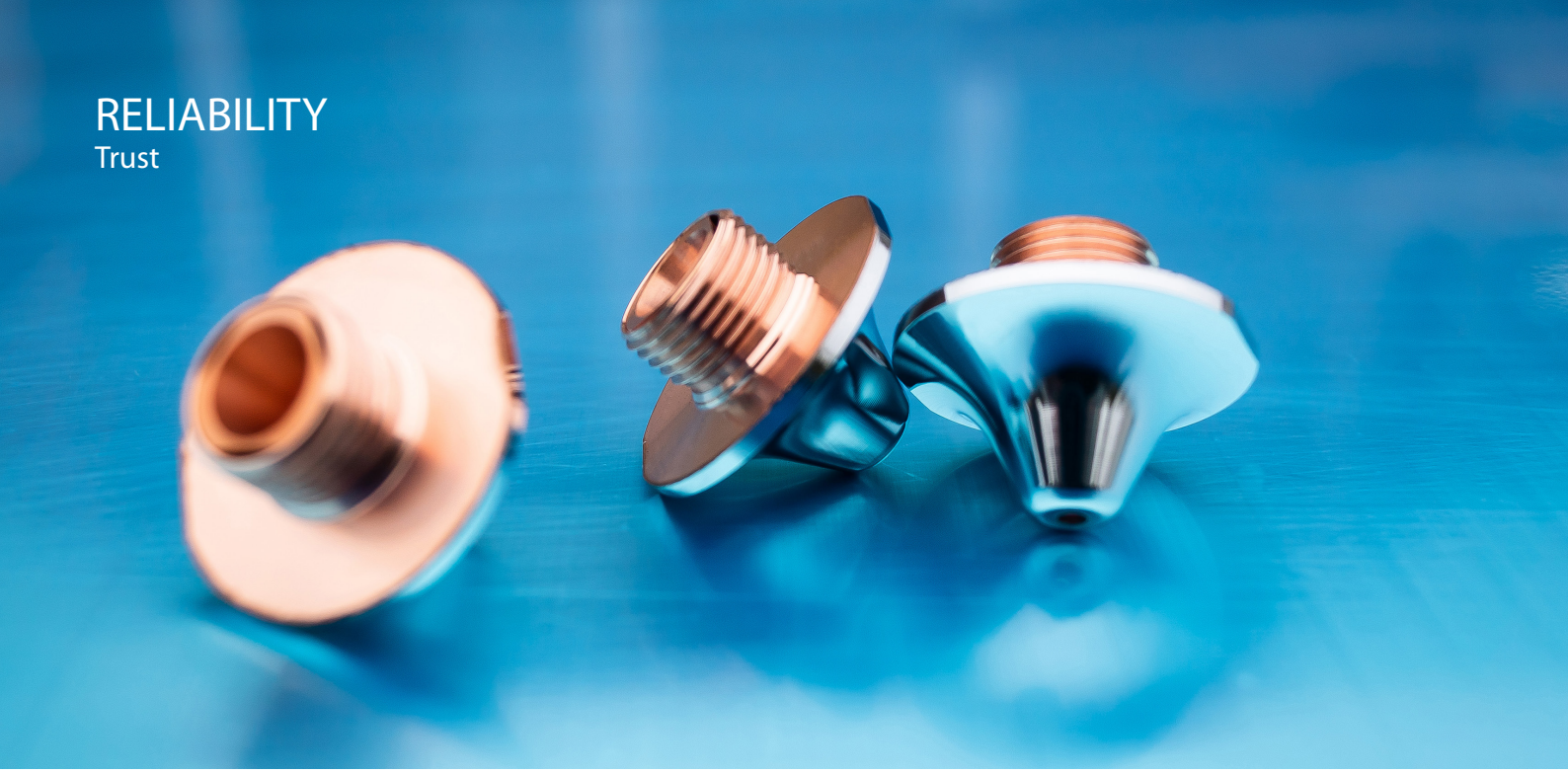
| type | towers | shelves | sheet dimensions [m] |
|---|---|---|---|
| eTower 226 | 2 | 26 | 1,5 x 3 ; 2 x 4 ; 2 x 6 |
| eTower 236 | 2 | 36 | 1,5 x 3 ; 2 x 4 ; 2 x 6 |
| eTower 246 | 2 | 46 | 1,5 x 3 ; 2 x 4 ; 2 x 6 |

## CraneMaster

The CraneMaster system was designed for loading/unloading material and cut parts. Thanks to its highly efficient cycle time and the capacity to simultaneously load and unload material, it secures a constant supply and contributes to the cost-effectiveness of the production process.

**TECHNICAL DATA**

| | |
|---|---|
| cycle time | from 65s |
| max. sheet size | 1,5m x 3m; 2m x 4m; 2m x 6m |
| max. sheet | 25mm |



# ORIGINAL SPARE PARTS

## ORIGINAL SPARE PARTS – ALWAYS ON TIME

We provide our customers with the most efficient laser cutting systems and we know how important it is to maintain the continuity of the production process. To ensure this, our spare parts warehouse is always well-stocked and prepared for unforeseen situations. You can rely on our qualified staff to help you choose the correct part and make sure that it will be delivered quickly so that your Eagle laser cutter can run at peak performance with the least interruptions.


# TECHNICAL SUPPORT

## TECHNICAL SUPPORT – YOUR RELIABLE PARTNER

At Eagle Lasers, your productivity is our priority. We are committed to providing comprehensive service and support in order to maximize your machine's effectiveness.

Our experts will ensure that you select the suitable Eagle laser machine and options to meet your specific needs. Upon machine delivery, we provide fast installation and commissioning. Training your personnel will ensure that you realize the full potential and capabilities of your Eagle laser. Thanks to the design, components, and construction, Eagle Lasers systems require minimal maintenance. Your staff may perform 99% of maintenance procedures without having to call a service technician.

Eagle Lasers offers full service and online diagnostics and remote service assistance for common minor issues.

# WARRANTY SYSTEM

## WARRANTY SYSTEM - SAFETY & FULL MACHINE EFFICIENCY

At Eagle Lasers, we provide you with the highest possible safety when using your laser cutter. We deliver full warranty support and an unlimited number of working hours for all machine components, including laser source, cutting head with optics, and optical fiber. You cut, and we guarantee complete machine efficiency!

## CHOOSE YOUR OPTIMAL PACKAGE

We know that every company is different and has individual needs, which is why we prepared five warranty packages, designed for each type of enterprise. You can select the most suitable one for your requirements.

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