



FIBER LASER CUTTING SYSTEMS

30kW

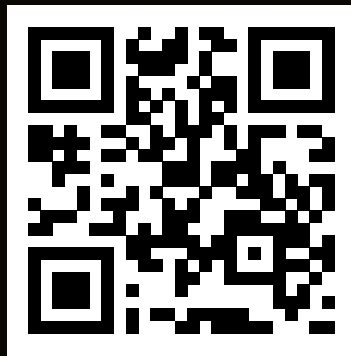




EAGLE

LASERS

FIBER LASER CUTTING TECHNOLOGY



www.eaglelasers.com



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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.

In 2021 Eagle Lasers celebrated its 15th anniversary. Thanks to the partnership with IPG Photonics, the leader in developing and providing fiber laser sources, Eagle Lasers have been the earlier launcher on the market of efficient and awards-winning **6kW**, **8kW**, **10kW**, **12kW**, **20kW**, and now the new **30kW** Laser Cutting System.

Productivity Through Technology. We are devoted to developing our ideal fiber laser system to be the most productive machine tool with the fastest laser, acceleration, and material handling.

Reliability Through Refinement. Although we push the development of fiber laser technology, we never compromise reliability. Eagle Lasers systems deliver 24/7 production.

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

Eagle Lasers advantages are straightforward on profit and efficiency while reducing energy consumption and maintenance.

It's time to #iNspiretheworld.

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 parts retrieval. Therefore, each aspect must be refined and optimized.

The power you can rely on

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

Designed for efficiency

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

Best practices for material handling

- 9 seconds pallet exchange
- Conveyor built into machine structure
- Ready for Automation

DISCOVER OUR SERIES OF FIBER LASER CUTTING MACHINES

#iNspiretheworld

iNspire

EFFICIENT

For most demanding mass production applications.

#haveVision

eVision

UNIVERSAL

The all inclusive solution for small to large, thin to thick production.

Efficiency 24/7

#produceSmart

eSmart

COST-EFFECTIVE

eSmart machines require little floor space but deliver big results.

EFFICIENCY

Fiber laser cutting systems



BASE DATA

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

STANDARD EQUIPMENT

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

EFFICIENT

Benefits:

-
- ✓ Made for 24/7 Automation
 - ✓ Wider range of material thickness
 - ✓ 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 parts
 - ✓ Highest throughput quality and burr-free
 - ✓ Best performances and reliability on the market

The iNspire cutting machines are state-of-the-art, extremely precise, and amazingly 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 power from **1 to 30kW**, the Eagle Lasers iNspire series 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

SPECIFICATIONS

#iNspiretherworld

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	66	72	144	177	287	395

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

EFFICIENCY

Fiber laser cutting systems



BASE DATA

Cutting speed: **max 150 m/min**

Positioning: **180 m/min**

Acceleration: **3G**

Laser sources: **from 1 to 30kW**

STANDARD EQUIPMENT

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

UNIVERSAL

Benefits:

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

The eVision laser cutting machines are designed to be universal and provide the best results for any production. Whether you are running large or small production batches, cutting thin or thick sheets, this machine will deliver results 24/7.

With cutting speeds of **150 m/min**, positioning speed of **180 m/min**, acceleration up to **3G**, and fiber laser power from **1 to 30 kW**, 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

SPECIFICATIONS

#haveVision

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	66	72	144	287	177	395

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

EFFICIENCY

Fiber laser cutting systems



BASE DATA

Cutting speed: **max 100 m/min**

Positioning: **170 m/min**

Acceleration: **2G**

Laser sources: **from 1 to 10kW**

STANDARD EQUIPMENT

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

COST EFFECTIVE

Benefits:

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

The eSmart series of machines are the most cost-effective designed with efficiency and reliability as the core. The eSmart series system requires little floor space but delivers big results.

With cutting speeds of up to **100 m/min**, acceleration up to **2G**, and fiber laser power 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

SPECIFICATIONS

#produceSmart

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	[kg]	18100	22100

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

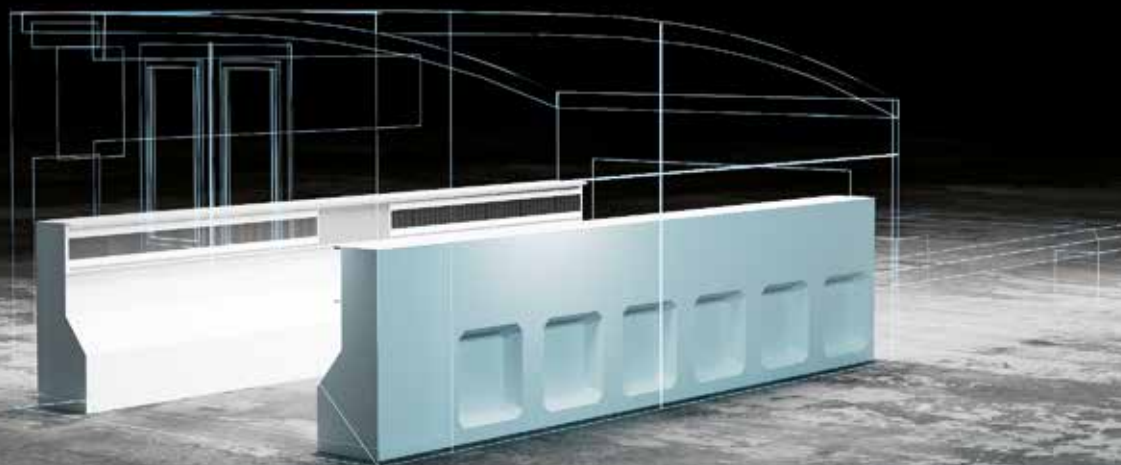
INNOVATION STARTS FROM INTUITION.

We reinvent the technology with an ideal concept made of values. Increasing efficiency with lower maintenance and services costs.

We are creating a better environment with an intelligent, more ergonomic design made of research and experience. We select only the best materials and components to build advantages and opportunities for our clients with faster turnaround, lower cost per part, and maximum flexibility on processes, materials, and thickness-ready for 24/7 operations.

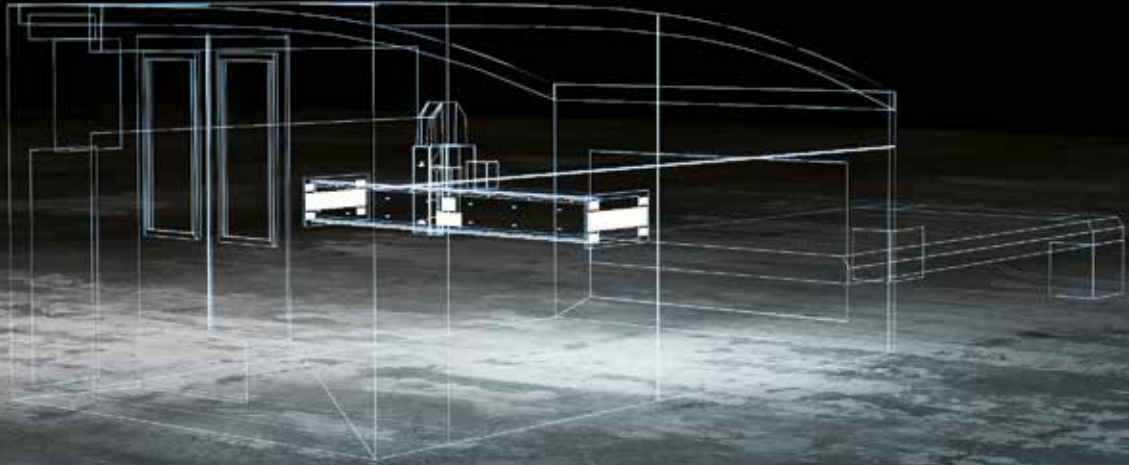
We make our vision becoming a reality.

- BODY CONSTRUCTION
FOR RELIABILITY**
- 100 x higher vibration damping factor than steel
 - 10 x lower temperature coefficient
 - Made for high dynamics
 - Highest stability
 - Built with a green process



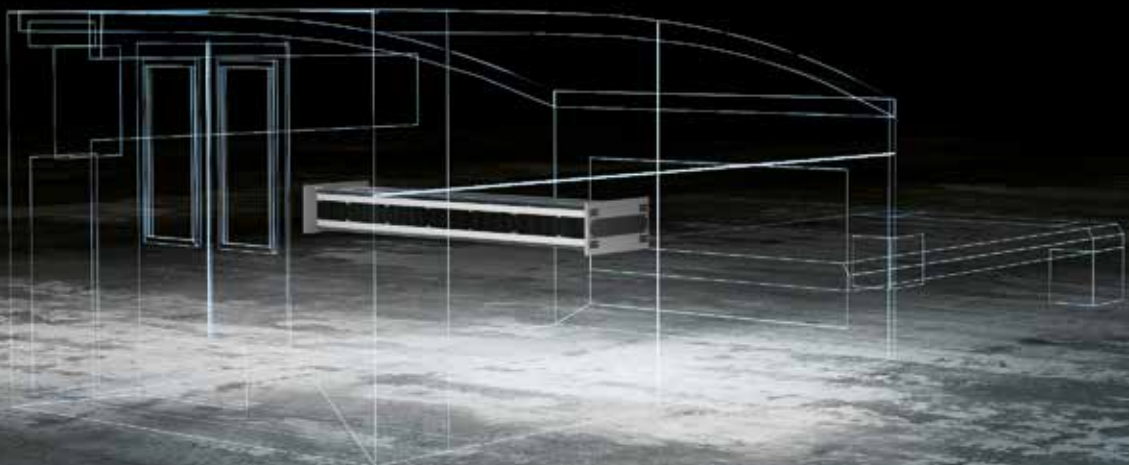
LINEAR MOTORS ON ALL AXES FOR SPEED

- Reliable 24/7
- Highest acceleration
- Made for precision with 100% stability
- High performances with no frictions
- No maintenance required
- Accuracy



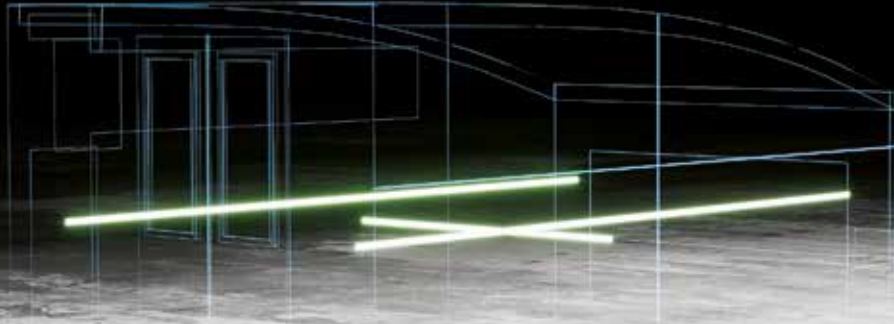
CARBON FIBER TRAVERSE FOR ACCURACY

- Highest stiffness and strength for great accuracy
- Made for the highest speed with lightweight construction
- Temperature resistance
- Long-lasting and hard-wearing material
- Damping vibration for stability



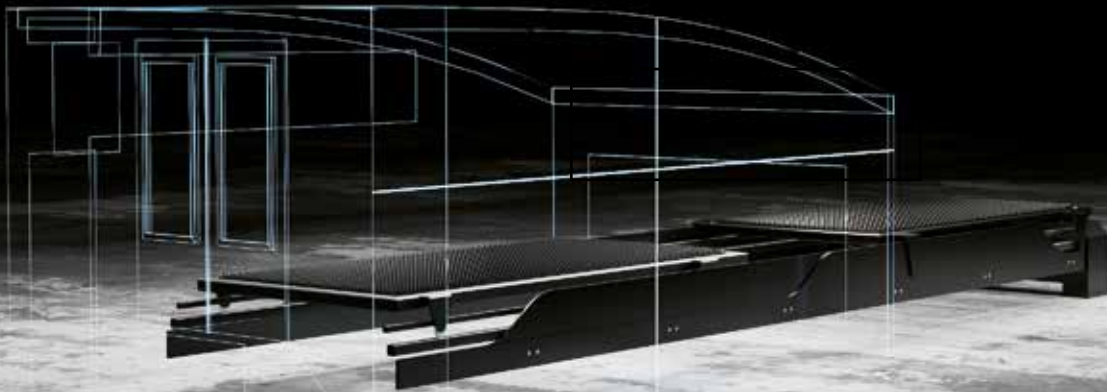
ENCODERS FOR RAPIDITY

- Immediate starts in less than 15 secs
- Built for speed and acceleration
- 100% Control of the dynamic motion
- Great accuracy down to 1 nanometer
- Great reliability
- Wear-free and contactless



PALLET CHANGER FOR DYNAMICS

- Faster pallet exchange in 9 seconds
- Made for productivity adding hours of work a week
- Made for security with easy access on three sides
- Ergonomic design
- Made for fully automation



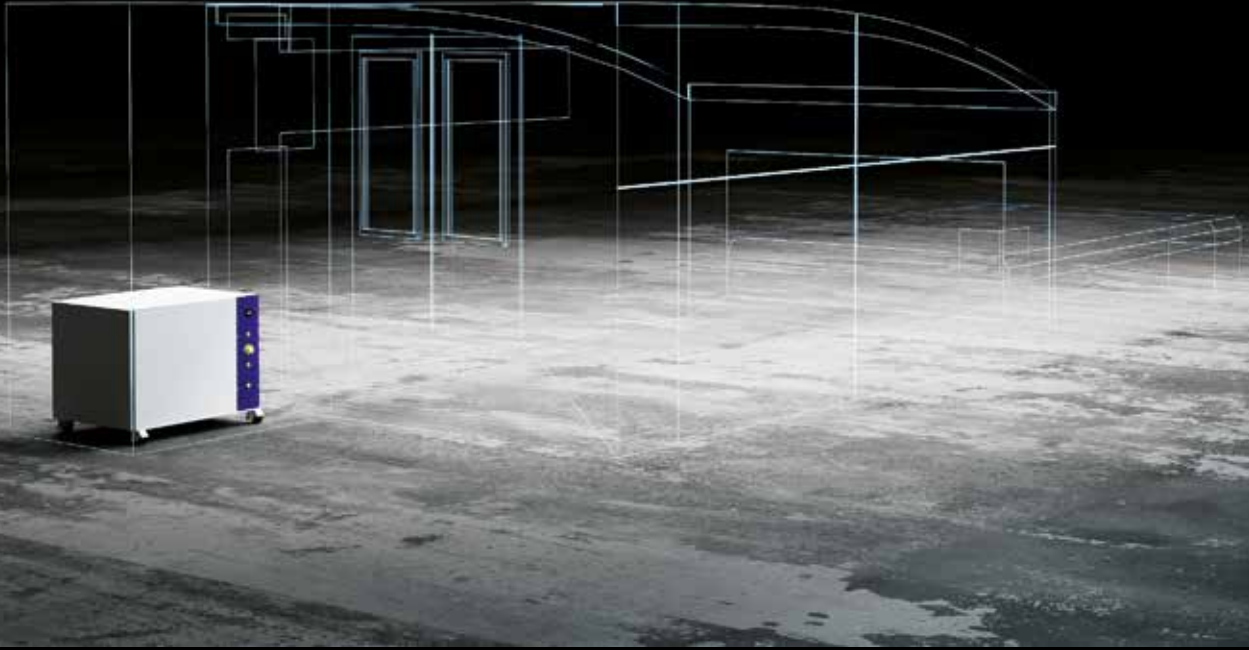
EVA CUTTING HEAD FOR PRECISION

- State-of-art technology for the most demanding conditions
- Stable work among harsh environmental circumstances such as dust, high temperature, or sparks
- Up to **30kW** of power
- Made for precision, speed, and dynamics
- The most efficient cutting head in the industry
- Low sensitiveness to dirt and contamination
- Reduced service and maintenance costs



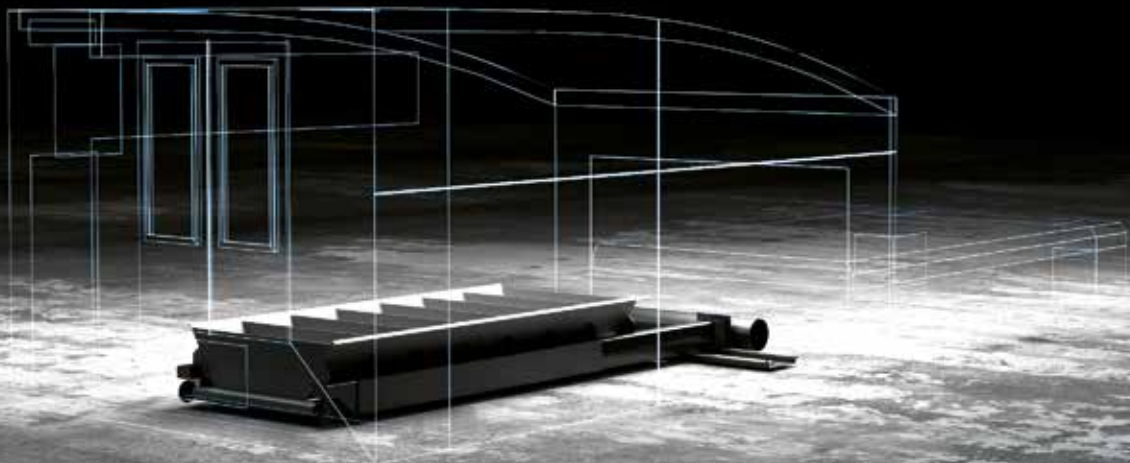
FIBER LASER SOURCE FOR POWER

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



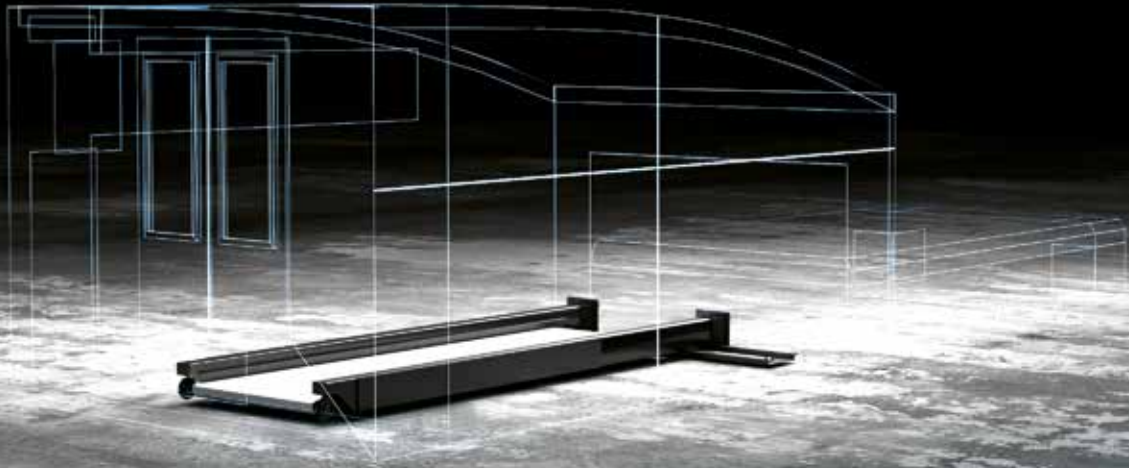
MULTI-CHAMBER EXTRACTION SYSTEM FOR SECURITY

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



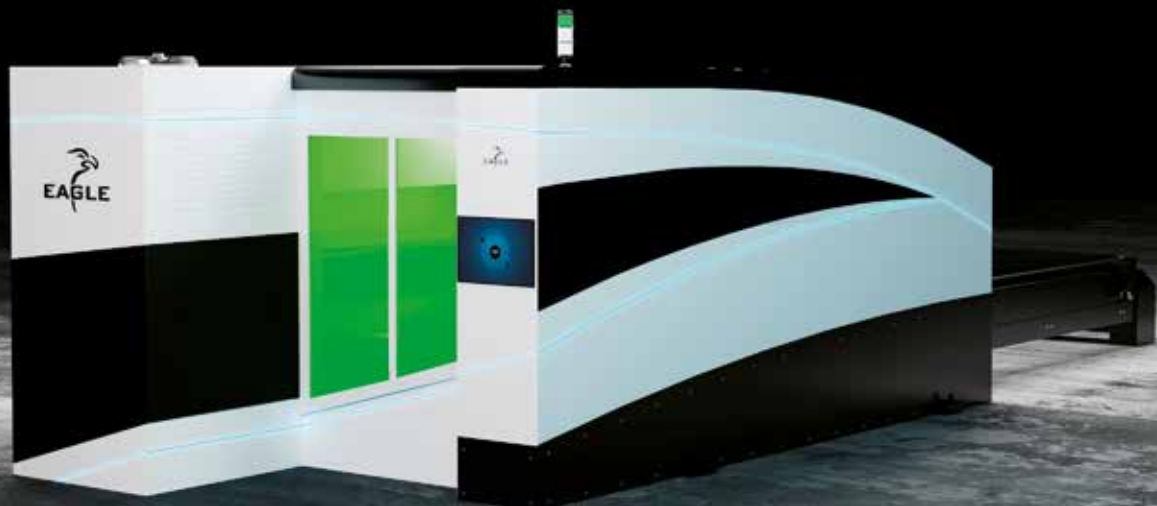
CONVEYOR BELT TRANSPORTER: FOR QUALITY:

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



DESIGN: FOR ERGONOMY:

- Intelligent compact design
- Saving working space
- Ready for Automation
- Easy access for maintenance
- High quality built with best components in the market



POWER YOUR



ENHANCED EFFICIENCY

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

LOWEST COST PER PART ON THE MARKET

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

HIGHEST RETURN ON INVESTMENT

We are changing the industry by providing continuous innovations. Today we proudly present a system that reaches the new, exceptional level in cost-effectiveness.

OUR FUTURE



REDUCED PIERCING TIME

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

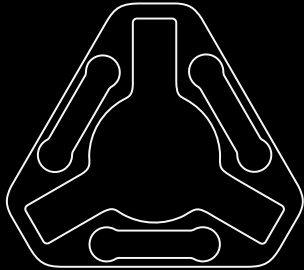
EXCELLENT CUTTING QUALITY

Our goal is to empower our customers and provide them with high-class standards. Therefore, we constantly develop the quality of our cutting technology because innovation is in our DNA.

BEST CUTTING HEAD IN THE INDUSTRY

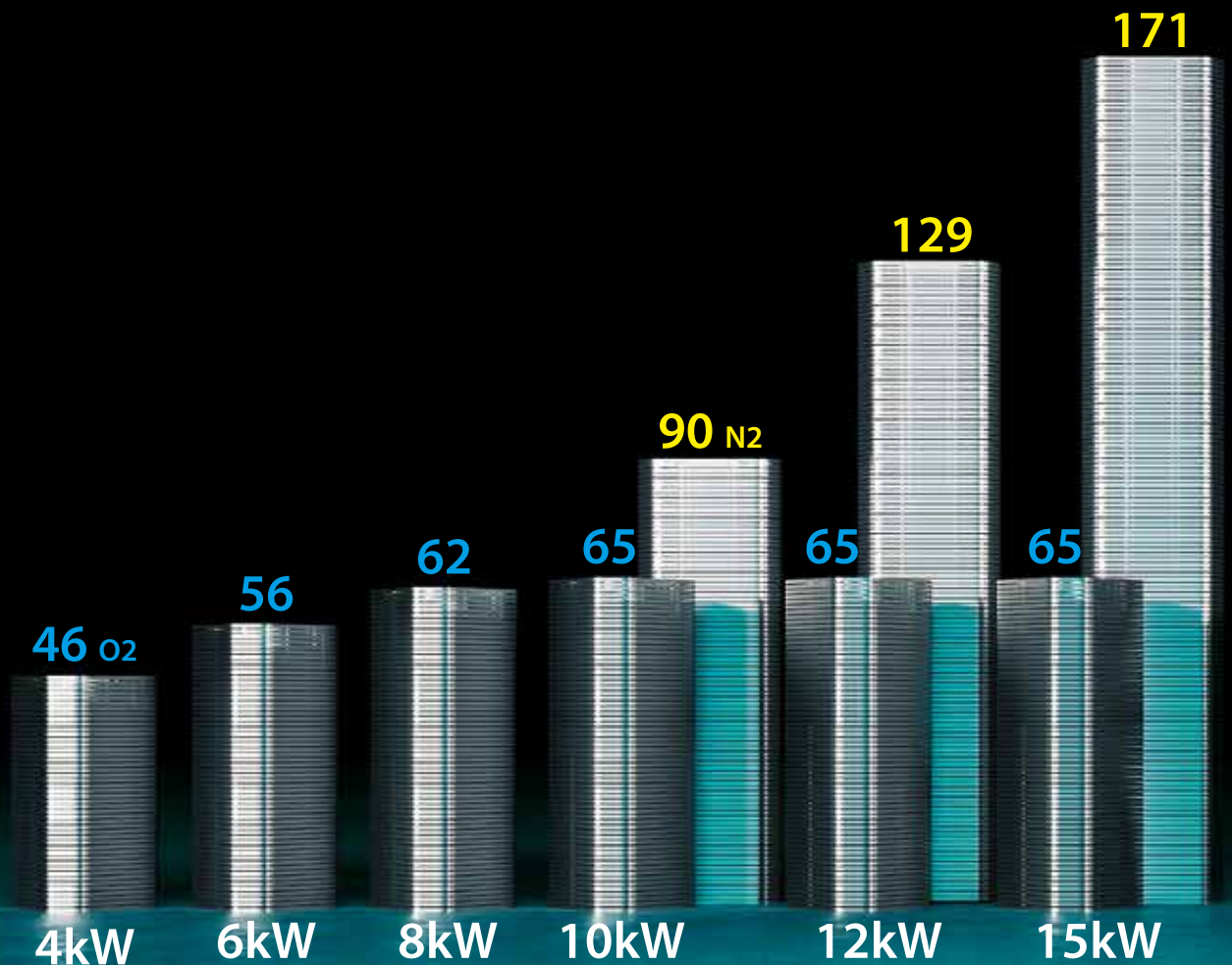
With our own patented eVa cutting head, dedicated to high powers, you can cut different types of materials and thicknesses. Its unique construction lowers operating costs and allows the machine to run smoothly throughout the whole production shift.

TOWER OF POWER



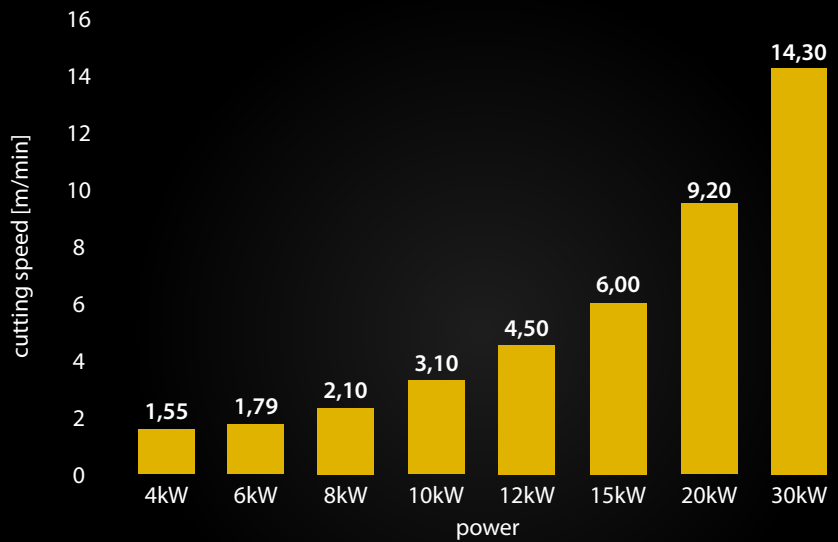
MATERIAL MILD STEEL
SHEET THICKNESS 12MM
SIZE 210mm X 287mm
CUTTING LENGHT 1975mm

number of parts

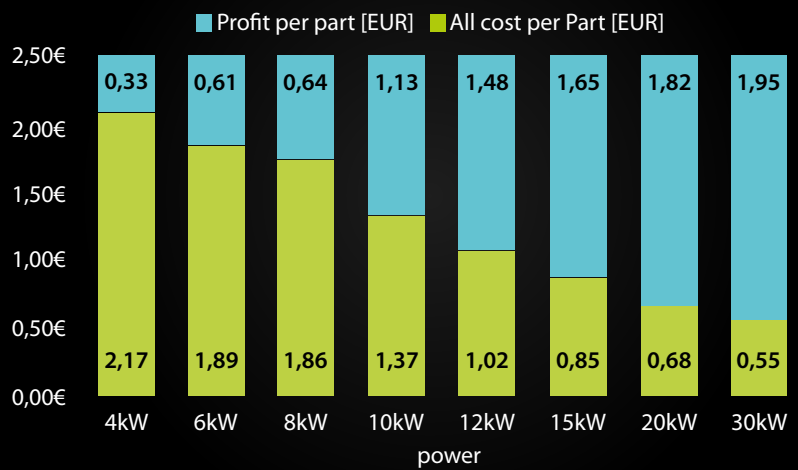


laser power

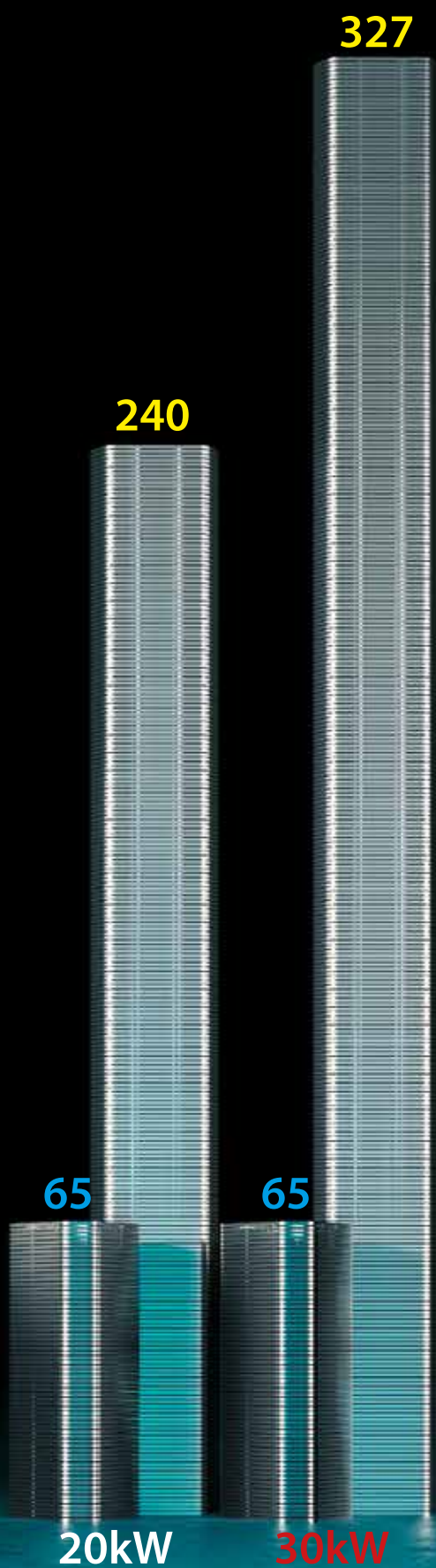
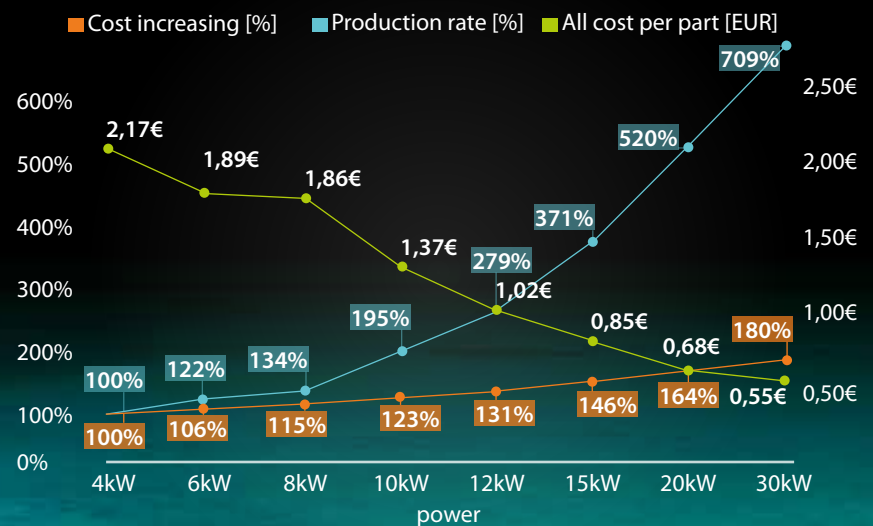
Production cutting speed



Profit per part



Cost per part



THE FUTURE IS STARTING NOW

Technology

THE FUTURE IS STARTING NOW!

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

Industry 4.0 refers to intelligent automation and smart networking of machines and processes thanks to the help of information and communication technology. By building this intelligence into the assets that we designed and produced, we can capture and leverage industry 4.0 data to monitor, analyze, optimize and maintain it throughout the lifecycle from design to decommissioning. It 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 is starting now!**



eSoft

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



eRis

eRis is the award-winning HMI (human machine interface) that is standard in all Eagle fiber laser cutting machines. A completely new quality of usability and human interaction, with revolutionary design and great new functionalities thanks to the touch screen integrated into the machine. Ergonomic, fast and simple to use, the Eagle eRis.



eRs Cloud

It is a modern reporting system giving unlimited possibilities to optimize your productivity by creating a direct report of the activities and practices of a laser cutting machine. Optimize your productivity, make your own best practice.



Drop&Cut

The patented Drop&Cut module makes efficient use of material remnants, even when the remnant is irregularly shaped and full of holes and gaps. In addition, Drop&Cut allows you to quickly produce one part right at the machine using the touch screen without creating a new NC file thanks to the Eagle Lasers technology. For a fast turnaround, as simple as drop and cut!



Drop2Cut

Drop2Cut is made to minimize waste and downtime. The Drop2Cut option offers identical functionality of the Drop&Cut but for the cabinet pallet outside. Thanks to a second video camera installed that visualizes the external pallet, it is possible to simultaneously cut a given program inside the machine while the operator uses Drop2Cut to place and program on the pallet outside the machine.



MixLine

MixLine significantly increases the quality and speed of the cutting technology. A peripheral device developed by Eagle Lasers engineers automatically changes the cutting technology between three gases (oxygen, nitrogen, and oxygen/nitrogen mixture). The results for many materials are increased throughput, speed, and reduced burr.



CatLine

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



FastLine

FastLine is made for fast cutting of thin and medium sheets up to approximately 6mm thick. FastLine includes **FlyCut** function that keeps the same constant cutting speed while piercing, reducing part cycle times on repetitive pattern on thickness up to 6mm. The **FastCut** function improves by 30% the cutting and piercing efficiency of thin and medium sheets up to 12 mm.

PRODUCTIVITY

Automation

eTower 1

A single storage tower equipped with a loading 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	no. of towers	no. of 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; 2x4; 2x6
eTower 120	1	20	1,5 x 3; 2 x 4; 2 x 6

LoadingUnit

Loading Unit system automatically loads metal sheets onto the pallet changer. It is fully automated and integrated into the machine. This simple solution significantly optimizes the material handling process and reduces operation time and production costs.

TECHNICAL DATA

cycle time	from 55s
max. sheet size	1,25m x 2,5m; 1,5m x 3m; 2m x 4m
max. sheet	25mm

eTower 2

Two-tower warehouse system. It can be equipped with a different number of shelves in accordance to customer's requirements. It optimizes intralogistics processes regarding storage, material preparation and reassures high storage density.

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; 2x4; 2x6
eTower 120	1	20	1,5 x 3; 2 x 4; 2 x 6

CraneMaster

Its functionality includes loading and unloading of material and cut parts. Thanks to the highly efficient cycle time of the process and simultaneous loading and unloading of the material, it ensures a secure supply of the material and upgrades cost-effectiveness of the process.

TECHNICAL DATA

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

RELIABILITY

Trust



ORIGINAL SPARE PARTS

ORIGINAL SPARE PARTS – ALWAYS ON TIME

We ensure our customers with the most efficient laser cutting systems. We know how important it is to maintain the continuity of the production process. That is why 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 the part will be delivered quickly so that your Eagle laser cutter will be running at peak performance.





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 of the machine. 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 on Eagle Lasers machines without the need 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 want to provide you with the greatest possible safety when using your laser cutter. That is why we ensure you with full warranty support and an unlimited number of working hours for all the 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 its individual needs. This was exactly what guided us while preparing five warranty packages, designed especially for each type of enterprise. Now, you can select the most suitable package that meets your requirements!



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30kW

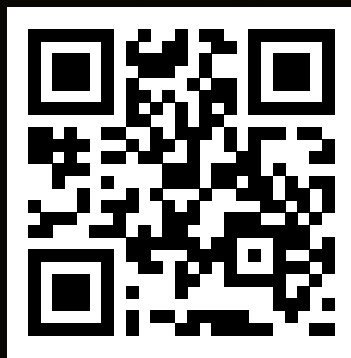




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