



ACS

ADVANCED  
MANUFACTURING  
SOLUTIONS  
A Hybrid Technology Company



EAGLE

# ACS & Eagle Laser

Elevated Fiber Laser technology that meets the demands of today's fast-paced metal manufacturing environment.



## INDUSTRY EXPERTISE

Delivering ACS / Eagle Lasers Cutting solutions for companies serving Traditional Manufacturing and Fabrication sectors, Aerospace, Automotive markets, Oil & Gas, Commercial Marine, RV, Composites.



A Trusted Partner Serving Customers in the Pacific Northwest (US) and Western Canada.

[www.acs-iws.com](http://www.acs-iws.com)



## About Eagle Lasers

Eagle Lasers is a global leader in developing and manufacturing fiber laser cutting systems and advanced automation solutions. Since its founding in 2006, Eagle has been at the forefront of innovation striving to achieve the ultimate goal: creating the Ideal Machine—one that maximizes efficiency while minimizing energy consumption and maintenance needs.

Eagle's success derives from an uncompromising dedication to delivering long-term value and efficiency. Every Eagle machine is built at our Polish headquarters under the strictest EU standards to guarantee superior quality and durability. Up to 80% of components are manufactured in-house to ensure exceptional performance, setting a new standard for reliability and industry excellence.

More than a manufacturer, we are a partner in industrial progress. We have implemented the latest innovations in fiber laser technology, software, and data analytics to provide our clients with a comprehensive solution. Focusing on process optimization from beginning to end through enhanced performance, safety, precision, and repeatability, our systems are designed to streamline production and boost profitability.

Customer success is our number one priority. From world-class fiber laser systems to unmatched support, Eagle empowers businesses worldwide to gain a competitive advantage in today's fast-evolving industrial landscape.

# The Three Pillars of Eagle Trust: A Commitment to Excellence

Eagle Trust is a client-centric approach that embodies the foundational principles shaping the company's journey and guiding its evolution. The three pillars of Eagle Trust define what we stand for and emphasize our commitment to supporting our customers' long-term success.

## 1. Reliability: Performance Built to Last

At Eagle, we continually push the limits of performance without compromising reliability. Our systems are crafted in the EU using only the highest-quality components, including the patented eVa cutting head and Eagle-manufactured linear motors. By distilling each element to its core function, we reduce maintenance requirements and ensure consistent results with minimal downtime. Our ultimate goal is to provide our clients with peace of mind, knowing they've invested in a system built to last.

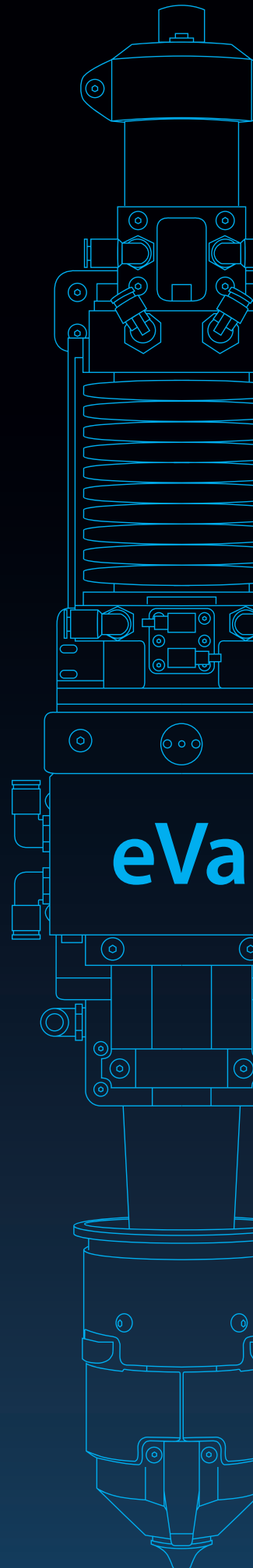
## 2. Trustworthiness: Designed for Uninterrupted Production

Our commitment to longevity extends far beyond hardware - it's about minimizing downtime by addressing potential issues before they occur. We've developed advanced tools like MyESP, a platform that connects machines with service teams allowing customers to verify if reaction times meet our newly established Eagle Service Standards and providing a level of transparency in client support that is unique on the market. We have also designed Eagle Eye for real-time monitoring and MyERS for cloud-based reporting. All of this is supported by a global network of experts and worldwide access to spare parts. By choosing Eagle, our clients gain a partner dedicated to ensuring seamless performance and service, so they can focus on growing their business.

## 3. Fairness: Transparency as a Principle

We believe in empowering our clients to make informed decisions about their machine's maintenance and part replacements. Through our partnership with MachinePortal, we offer a fully transparent marketplace for spare parts, where clients can compare options based on cost, distance, and delivery time. This removes manufacturer dependency and puts decision-making power in the hands of our clients so that they feel confident in their choices and their partnership with us.

**EAGLE TRUST**  
Designed with YOU in mind



# Built for the Highest Performance

Every component in our machines is meticulously crafted through extensive research and development to refine its core function, ensuring the highest performance available on the market.

## eVa cutting head

The patented cutting head is 5x less prone to contamination, requires minimal maintenance and is built for peak precision at the highest speed.

## Absolute linear encoders

Premium Renishaw linear encoders are ready to start in under 15 seconds. They have no play, are wear-free and contactless providing 100% control over dynamic motion and an accuracy of 1 nm even at maximum speed.

## Linear motors on all axes

Eagle-manufactured linear motors move contactlessly and have no backlash, guaranteeing accuracy and reliability 24/7.



## Laser power source

IPG Photonics sources are the most reliable in the market. Their high efficiency and low energy consumption result in reduced operating expenses.

## Composite body structure

Made of polymer concrete, it offers 100x higher vibration damping and 10x lower temperature coefficient than steel for the highest stability.

## Carbon fiber traverse

Stiff, ultra-lightweight and temperature resistant, designed to maintain the highest stability at peak acceleration.

## 9-second pallet changer

The industry's fastest, hydraulics-free, and integrated into the machine body. Its intelligent design ensures sheet stability and faster cycle times.



# Our Machine Series

We understand that every business has different needs, with varying production volumes, material types and thicknesses. With this in mind, we have designed series of machines to suit every manufacturing requirement:

## FlowIN REVOLUTIONARY



### for sorting at the speed of cutting

Designed for continuous flow, it performs part separation and waste management while cutting, regardless of part shape.

Power:	up to 40kW
Acceleration:	up to 6G
Max. cutting speed:	150m/min
Accuracy:	0,05mm



[Download specifications](#)

## iNspire EFFICIENT



### for the highest performance on the market

Designed for demanding mass production applications where speed, power and peak efficiency are a must.

Power:	up to 40kW
Acceleration:	up to 6G
Max. cutting speed:	150m/min
Accuracy:	0,05mm



[Download specifications](#)

## eVision UNIVERSAL



### for all-round versatile efficiency

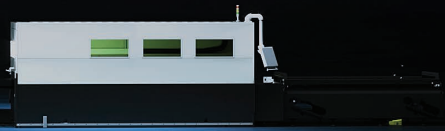
Designed to provide optimum results 24/7 whether you run small or large batches, thin or thick sheets.

Power:	up to 40kW
Acceleration:	up to 3G
Max. cutting speed:	150m/min
Accuracy:	0,1mm



[Download specifications](#)

## eSmart COST-EFFECTIVE



### for budget-friendly reliability

Cost-effective machines designed for trouble-free, reliable production and great results in little floor space.

Power:	up to 10kW
Acceleration:	up to 2G
Max. cutting speed:	100m/min
Accuracy:	0,1mm



[Download specifications](#)

# Cutting Technology

Our technology is the product of careful research, tests, and trials to improve all aspects of the cutting process. We offer solutions that range from ultrafast cutting and piercing to a more efficient use of gas, covering all of our clients' needs.

## MYEFLY

Keeps constant speed by piercing "on the fly" on thin to medium sheets. The head moves without slowing down to pierce significantly reducing cycle times for repetitive patterns.

## MYECAT

Makes a 20% thickness increase possible with the same laser power, and reduces burr by up to 80% on aluminum and stainless steel. Helps increase thick sheet throughput by up to 50%.

## MYECOCUT

Thanks to the Eco Nozzle, MyECOCUT reduces gas consumption by up to 75%, improves edge quality and reduces burr to a minimum, keeping maximum speeds even with irregular materials.



Scan the QR codes  
to watch these  
parts being cut!



## MYEFAST

Reduces piercing time by moving at an appropriate rate to pierce and then resumes full speed as soon as possible. Improves cutting efficiency by up to 30% on thin to medium sheets.

## MYEMIX

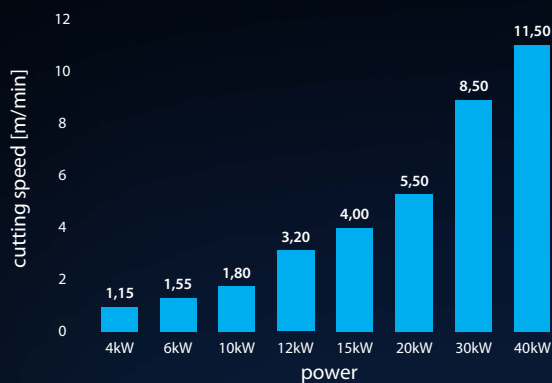
Combines the advantages of oxygen and nitrogen cutting to significantly enhance performance and quality while minimizing burrs on medium to high thickness materials.

# Higher Profits

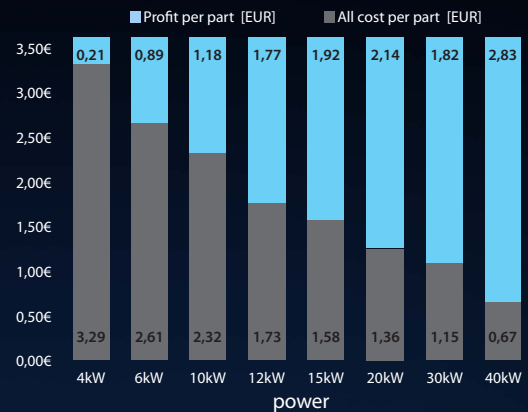
We understand how important it is for you to visualize your investment in real-life figures. To this end, we have prepared a practical example to illustrate the role laser power plays in increasing your margins and allowing for a faster ROI.

## TOWER OF POWER

Production cutting speed



Profit per part



**MATERIAL**  
**SHEET THICKNESS**  
**SIZE**  
**CUTTING LENGTH**  
**GAS TYPE**

**MILD STEEL**  
**15mm**  
**210mm x 287mm**  
**1975mm**  
**O<sub>2</sub> and MIX**



Get the full case-study

number of parts per hour



laser power



# Eagle Automation

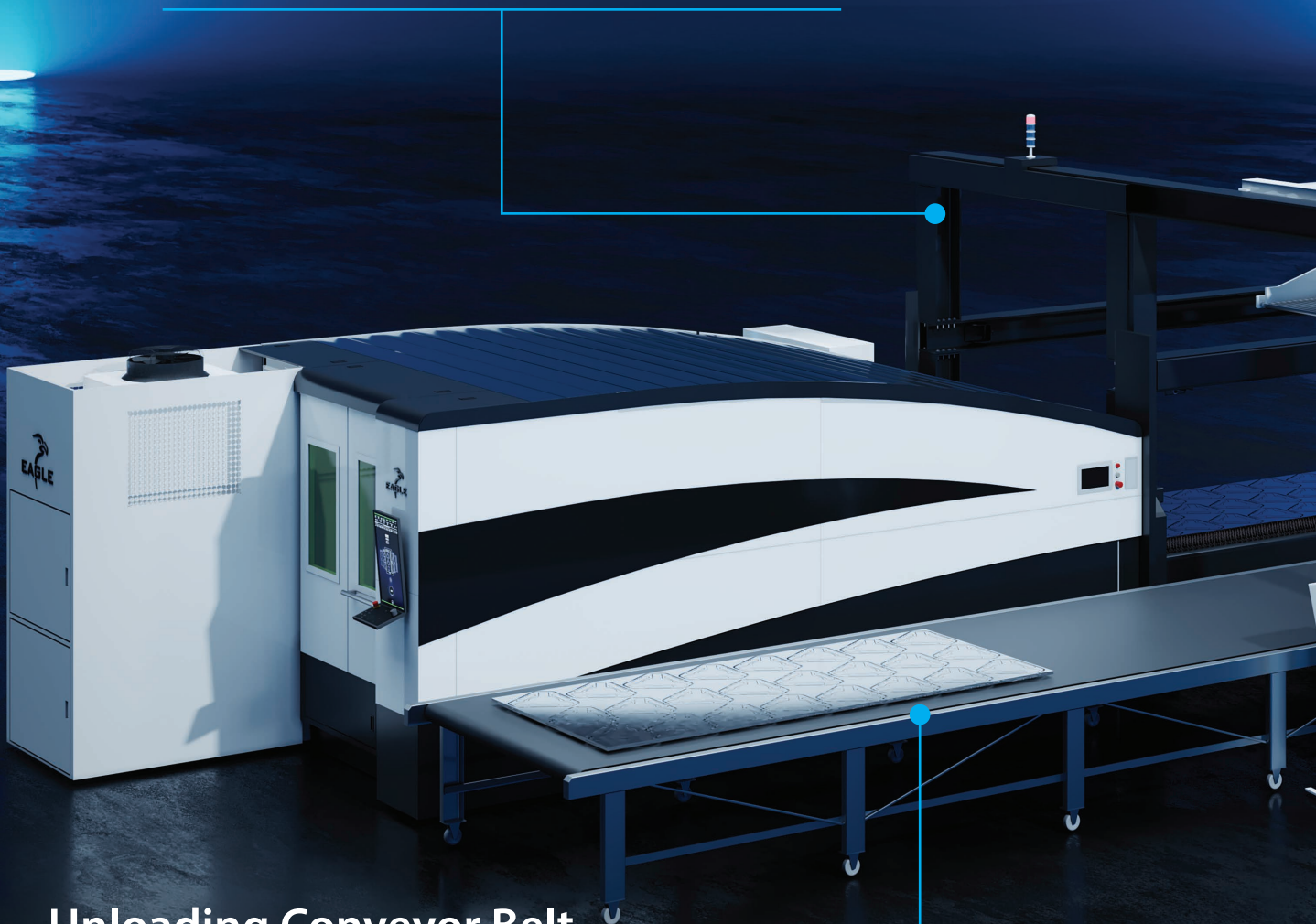
With modularity and flexibility at their core, our automation systems perfectly match our machines' capabilities while adapting to your needs and making the best use of floor space.



Download full specifications

## CraneMaster Product Family

A series of automated loading/unloading systems offering different setups and configurations designed for super-efficient material handling in mid-to-high production companies.



### Unloading Conveyor Belt

The additional conveyor belt significantly improves the sorting process by allowing the operator to sort parts safely and comfortably without being obstructed or slowing down the production cycle.



## eTower System

A modular storage system with a varying number of towers according to your needs, the eTower is designed to optimize storage logistics while making the most out of your production floor.

## 6 advantages of Eagle Automation

### 1 MODULARITY

Flexible setups that can be duplicated and extended according to each client's needs, making the best use of floor space.

### 2 EFFICIENCY

Streamlined material allowing users to fully exploit the machine's speed and achieve higher energy efficiency.

### 3 AUTONOMY

Continuous operation without supervision, even during night shifts and weekends for uninterrupted production.

### 4 SAFETY

Additional conveyor belt for safer part retrieval, anti-scratch brushes, non-invasive sheet thickness measurement, and individual suction cup adjustments.

### 5 INTEGRATION

Seamless integration with our laser cutting machines' capabilities for flawless functioning from day one.

### 6 PRODUCTIVITY

Swift material loading, unloading, and storage, combined with seamless machine integration and sorting solutions result in higher productivity.



Watch our  
automation  
in motion



## iNspire 2.0 40kW + CraneMasterStoreExtendedCross + eTower115

This is one of the most efficient machine-automation configurations. The cross shape enables working along the X and Y axes simultaneously, and it allows for high production capacity in a reduced floor space.

# Power Your Future

Innovation is at the core of Eagle's DNA. We design each component following the Ideal Machine Concept, distilling every function to its essence. Through our groundbreaking approach, we ensure the highest levels of productivity, efficiency, and intuitiveness with minimal maintenance requirements.

## ENHANCED EFFICIENCY

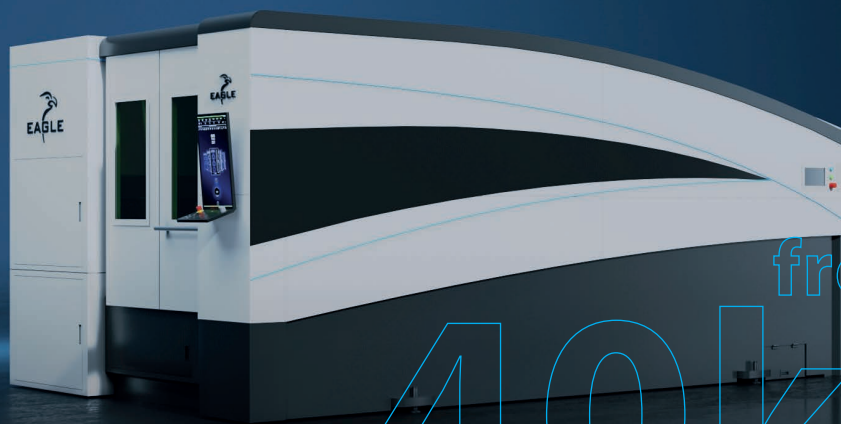
Today we deliver the fastest and most reliable fiber laser cutting system on the market. With controlled 40kW power, decreased production time, less energy consumption, and lower cost per part, we provide a new level of productivity and efficiency.

## 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 reliable and efficient system built to last we have set a new standard in productivity and cost-effectiveness.



from 2 to  
40kW

## REDUCED PIERCING TIME

Our engineers work every day to improve our technologies. In the 40kW 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. We produce 80% of our components which we constantly improve and perfect. Our machines are 100% EU-manufactured, ensuring the highest performance and cutting quality.

## 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 with minimal maintenance requirements.



# Our Client Speak

"I'd definitely recommend this machine to another customer that's in our line of work. The reliability and speed is pretty hard to match. So, on a competition basis, you'll definitely be ahead of the game."

**RICHARD MORGAN**  
**OWNER AT MORGAN METAL CORP. - AUSTRALIA**

"We purchased an Eagle because we needed high volume capacity. I would definitely recommend Eagle to other companies if they're looking to have a high-speed laser system that's reliable. Not only do I believe Eagle is the best system, I also believe that Eagle Lasers has the best service in the industry by far."

**KENDALL SHROCK**  
**OWNER AT SHROCK FABRICATION - USA**

"We needed a high-speed device with very tough tolerance and accuracy. We realized that the Eagle iNspire was the fastest machine on the market."

**JOHAN KALANDER**  
**AME MANAGER AT IEC LV MOTORS, ABB - FINLAND**

"One of the things I specifically requested when acquiring the machine was reliable support. This was crucial because when we work 2 to 3 shifts we can't afford to have the machine sitting idly. I was pleasantly surprised when the few times we needed support from Eagle, they were extremely fast."

**MAURIZIO GIUSTINA**  
**OWNER AT GMB S.R.L - ITALY**

"The quality and speed exceeded our expectations. The machine is also very user-friendly, and the employees quickly grasped how to operate it. The support provided by Eagle's service team was also commendable, not to mention the organization of the whole process, which was outstanding from the very beginning."

**ROBERT GOŁĘBIEWSKI**  
**CEO AT VOSSE - POLAND**

"Thanks to the Eagle machine we were able to grow even more, so this investment has brought a lot to us. It appealed to us that Eagle is a young and dynamic company with innovative technology. The process from buying until the delivery of the machine was very pleasant, especially the family feeling you have with the company, when you walk through it there's such a good flow between the people."

**JORIS VERGEEST**  
**OWNER AT VERGEEST METAALTECHNIEK - HOLLAND**



Scan to explore all our  
Customer Success Stories!



“As each of you very well know, any piece of equipment is only as good as the company that stands behind it. Your exceptional service and equipment knowledge provides Samuel with the solutions we need!”

- Mike Van Dyke / General Manager  
Samuel, Son & Co. (USA) Inc.



## **ACS Applications Specialists**

ACS is a team of collaborating application specialists, providing curated Advanced Industrial Manufacturing Solutions with integrated consulting and long-term services and support.

The technologies and services that ACS offers to established manufacturers in the Pacific Northwest and Western Canada. We provide the highest level of expertise, application knowledge and ongoing onsite regional service and partnership, focused on helping build growth for our customers through advanced industrial manufacturing technology applications.

CraneMasterStoreLinear



1135 Pacific Place, Unit #117 Ferndale, Washington 98248



**Let's Connect.**

[www.acs-iws.com](http://www.acs-iws.com)

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