EAGLE®

FIBER LASER CUTTING SYSTEM

iT CAN ONLY **BE EAGLE**

have eVision be iNspired think eSmart

Contents:

Eagle is the fiber laser pioneer with the technology and staff to keep you ahead.

The Team You Can Trust: Our company is defined by creative, passionate people who combine unmatched fiber laser expertise with their personal desire to innovate on behalf of customers. The spirit of invention and continuous improvement is seen in our advanced and reliable machine tool systems.

Pioneers in Fiber Laser: Since 2006 we have been an R&D partner with IPG, leader in development and provider of the fiber laser power source. Eagle Laser was first to offer 6kW, 8kW, 10kW, 12kW, and even 15kW. And, we're not done, we are researching laser systems of twice that power.

Productivity Through Technology: We are devoted to developing the ideal fiber laser system. Every idea, every invention, and every component is aimed at creating the fastest laser with the fastest acceleration and the fastest material handling to make the most productive machine tool in the world.

Reliability Through Refinement: Although we push the develope of fiber laser technology, we never compromise reliability; Eagle systems deliver 24/7 production. Our patented eVa cutting head handles the full 15kW of power. And, we only partner with the best component suppliers for unmatched full-system reliability – such as Beckhoff control systems, IPG fiber laser, Renishaw motion measurement, and Festo pneumatic technology, just to name a few.

Productivity through 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. Each aspect must be refined and optimized.

We never compromise.

Fastest Laser

- Highest power laser in the industry;
- 15kW reliably delivered;
- Patented head technology to take full advantage of the laser power.

Fastest Machine

- Designed from the ground up for maximum acceleration;
- 6g acceleration, highest available;
- Strong base with lightweight moveable mass;
- Compact structure saves 30% floor space;
- Most productive machines available.

Fastest material handling

- Pallet change in under 9 seconds;
- Conveyor built into machine structure;
- Protect and remove fallen cut parts.

Whether your business it's a contract cutting or in-house production, we have the line of machines to take your shop to the next level.

EFFICIENT

iNspire series is the most productive fiber laser cutting systems in the world. This series is ideally suited for high-precision mass production.

UNIVERSAL

eVision series is our universal machine, incorporating many of the advanced attributes of the iNspire series. These machines deliver efficient production and satisfy diverse applications.

ECONOMIC

eSmart series is an economical option for both short and long production.

AVAILABLE LASER SOURCE AND MAXIMUM SHEET THICKNESS

With Eagle, you choose the power level based on your application. We provide fiber laser's from 2kW to 15kW. You can match the laser power to the cutting performance using this table:

	AVAILABLE LASER SOURCES	[um]	1kW	2kW	3kW	4kW	6kW	8kW	10kW	12kW	15kW
MAX. SHEET THICKNESS [1]	carbon steel	[mm]	10	16	20	20	30*	40*	50*	60*	60*
	stainless steel	[mm]	4	10	15	20	30*	40*	50*	60*	60*
	aluminium	[mm]	2	6	12	15	30*	35*	40*	50*	50*
	brass	[mm]	2	4	6	8	12	15	20	30*	30*
	copper	[mm]	1,5	4	6	6	10	15	20	25	25

1) The values obtained in conditions depending on the quality of the workpiece, cutting gas quality, quality of service and the NC program and the state of wearing parts

* HD (heavy duty) version laser cutting machine with CatLine option

EFFICIENT

iNspire series

BASE DATA

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

Positioning: **350 m/min**

Accelerations: **6G**

Laser sources: **from 1 to 15kW**

STANDARD EQUIPMENT

- Fiber laser source;
- Linear motors on all axes;
- Advanced body structure of composite material;
- 49 kg Traverse bridge of lightweight carbon fiber;
- Cutting head with automatic focusing;
- Superfast pallet changer.

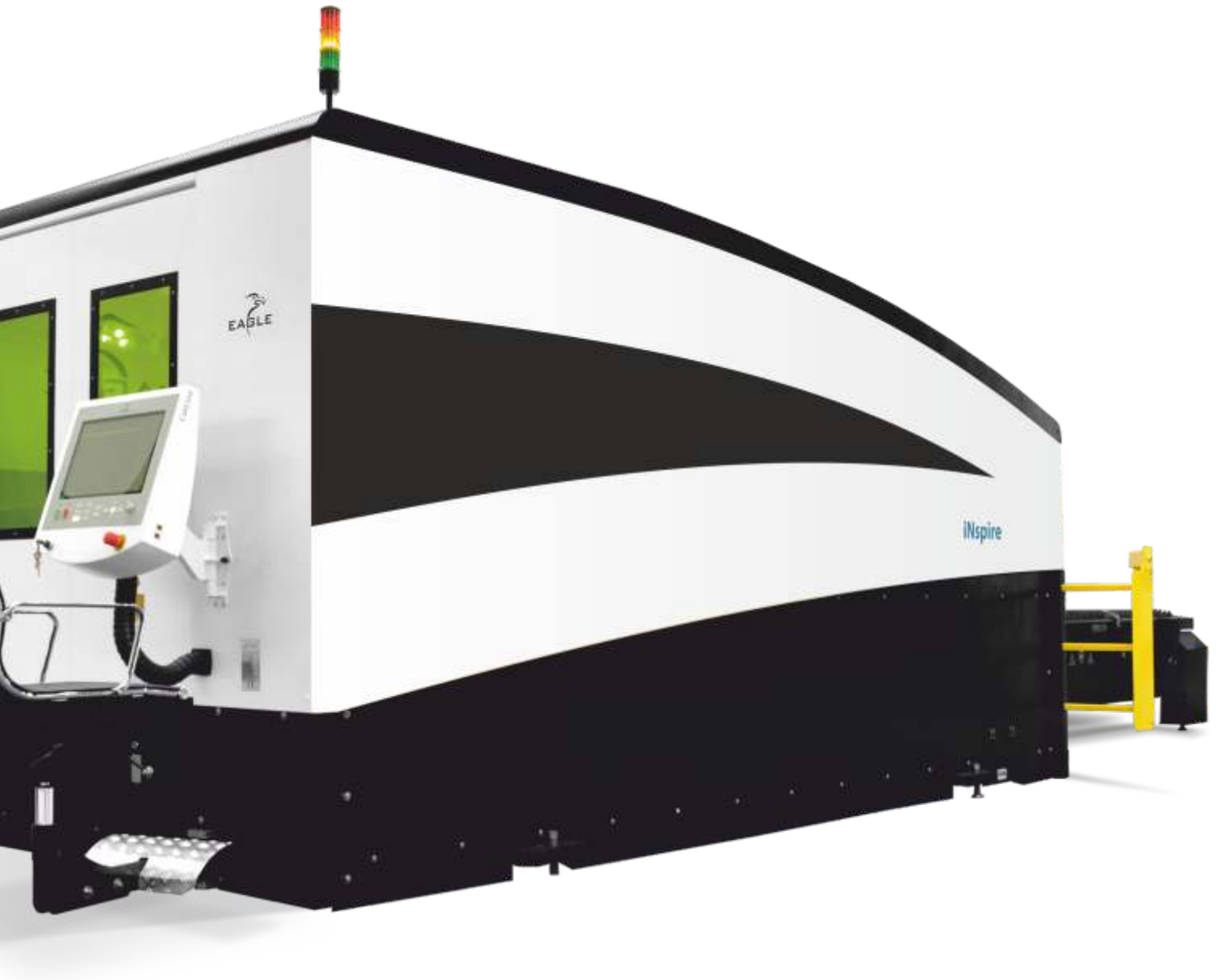
SPECIFICATIONS

MACHINE MODEL	[um]	1530	2040	2060	2560
MACHINE DIMENSIONS AND WEIGHT [1)]					
lenght	[mm]	10000	11200	14000	14000
width	[mm]	3080	4100	4100	4750
height	[mm]	3060	3060	3060	3060
weight	[kg]	18100	21600	23300	24500
WORKING AREA					
X axis	[mm]	3060	4060	6060	6060
Y axis	[mm]	1540	2040	2040	2540
Z axis	[mm]	100	100	100	100
max. sheet weight	[kg]	900	1400	2100	2300

MAX. SPEEDS		
parallel to X, Y, Z axis	250	[m/min]
simultaneously	350	[m/min]

AXIS PARAMETERS		
repeatability	0,03	[mm]
cutting precision	0,05	[mm]
accelerations	60	[m/s^2]
min. programmable	0,001	[mm]

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



Benefits:

- ✓ *Highest throughput;*
- ✓ *Greatest range of material thickness;*
- ✓ *Highest cut part precision;*
- ✓ *Burr free sheet cutting;*
- ✓ *24/7 productivity;*
- ✓ *Low operating cost;*
- ✓ *productive and easy to use software;*
- ✓ *Compact design, saving floor space·*

The iNspire cutting machines are the state of art, extremely precise, and amazingly quick. They excel at the most demanding mass production applications.

We've spent decades optimizing every aspect of the system to maximize performance; from the rigid composite base and lightweight carbon fiber bridge to the long-life eVa cutting head.

With cutting speeds up to 150 m/min, top positioning speed of 350 m/min, acceleration of nearly 6G, and fiber laser power of 1 to 15 kW, the iNspire series are the fastest and most efficient laser machines in the world.

UNIVERSAL

eVision series

BASE DATA

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

Positioning: **180 m/min**

Acceleration: **3G**

Laser sources: **from 1 to 15kW**

STANDARD EQUIPMENT

- Fiber laser source;
- Linear motors on all axes;
- Advanced body structure of composite material;
- Traverse bridge of rigid steel;
- Intelligent cutting head processes entire spectrum of sheet thickness;
- Superfast pallet changer without hydraulics.

SPECIFICATIONS

MACHINE MODEL	[um]	1530	2040	2060	2560
MACHINE DIMENSIONS AND WEIGHT [1)]					
lenght	[mm]	10000	11200	14000	14000
width	[mm]	3080	4100	4100	4750
height	[mm]	3060	3060	3060	3060
weight	[kg]	18100	21600	23300	24500
WORKING AREA					
X axis	[mm]	3060	4060	6060	6060
Y axis	[mm]	1540	2040	2040	2540
Z axis	[mm]	100	100	100	100
max. sheet weight	[kg]	900	1400	2100	2300

MAX. SPEEDS		
parallel to X, Y, Z axis	150	[m/min]
simultaneously	180	[m/min]

AXIS PARAMETERS		
repeatability	0,03	[mm]
cutting precision	0,1	[mm]
accelerations	30	[m/s^2]
min. programmable	0,001	[mm]

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

Benefits:

- ✓ *highly efficient system;*
- ✓ *process short and long runs from different materials;*
- ✓ *reduce production costs;*
- ✓ *efficient pallet changer without slow hydraulics;*
- ✓ *a mall footprint minimizes the floor space;*
- ✓ *24/7 operation;*
- ✓ *processes a wide range of workpiece material;*
- ✓ *softwaree asy to use;*
- ✓ *ergonomic and safe design·*

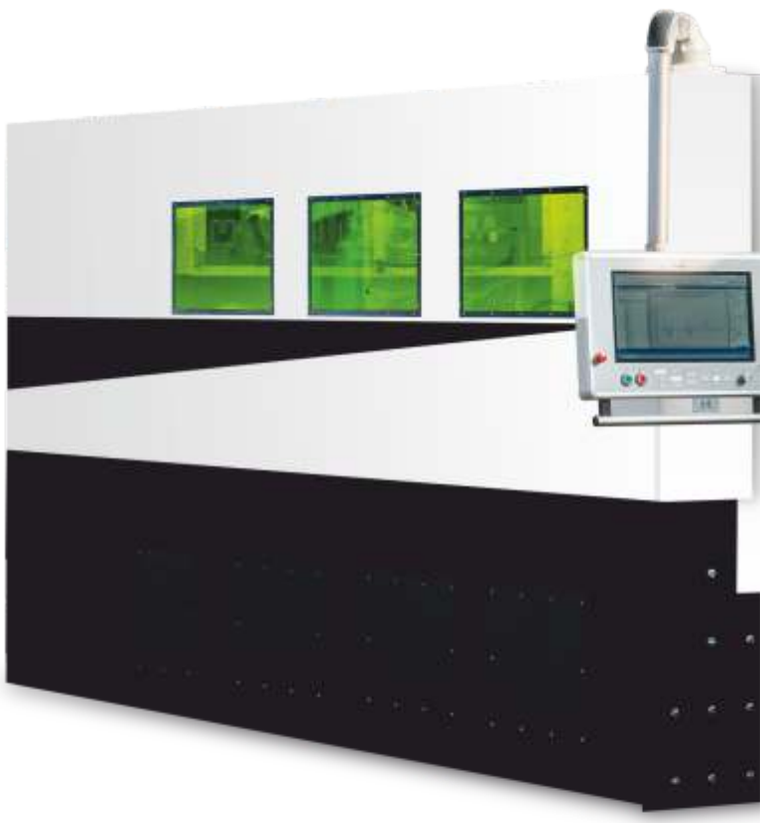
The eVision laser cutting machines are designed for diverse production. Whether you are running large or small production batches, cutting thin or thick sheets this machine will deliver 24 hours a day 7 days a week.

Designed with many of the same components as the iNspire series, the eVision delivers incredible top speed, supports the highest fiber laser power available today, and delivers excellent acceleration.

With cutting speeds of 150 m/min, positioning speed of 250 m/min, acceleration of nearly 3G, and fiber laser power from 1 to 15 kW, the eVision systems are ready to take your shop's production to the next level.

ECONOMIC

eSmart series



BASE DATA

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

Positioning: **170 m/min**

Acceleration: **2G**

Laser sources: **from 1 to 6kW**

STANDARD EQUIPMENT

- Fiber laser source;
- Linear motors on all axes;
- Advanced body structure of composite material;
- Intelligent cutting head processes entire spectrum of sheet thickness;
- Efficient pallet changer without slow moving hydraulics.

SPECIFICATIONS

MACHINE MODEL	[um]	1225	1530
MACHINE DIMENSIONS AND WEIGHT [1)]			
lenght	[mm]	8000	8900
width	[mm]	2000	2320
height	[mm]	2140	2140
weight	[kg]	12000	15000
WORKING AREA			
X axis	[mm]	2560	3060
Y axis	[mm]	1290	1540
Z axis	[mm]	100	100
max. sheet weight	[kg]	550	900

MAX. SPEEDS		
parallel to X, Y, Z axis	120	[m/min]
simultaneously	170	[m/min]
AXIS PARAMETERS		
repeatability	0,03	[mm]
cutting precision	0,1	[mm]
accelerations	20	[m/s^2]
min. programmable	0,001	[mm]

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

Benefits:

- ✓ *affordable technology;*
- ✓ *simple design;*
- ✓ *easy to operate;*
- ✓ *it quickly removes remnants for fast job turn-around;*
- ✓ *designed for single operator production with pallet changer next to control station;*
- ✓ *processes a wide range of workpiece material;*
- ✓ *many configurations and options to fit any budget.*

The eSmart series of machines are the economical choice for those who need trouble-free productivity. eSmart machines require little floor space but deliver big results.

They offer features and performance normally found in only top-of-the-line machines, such as linear drives, 2G acceleration, and advanced software.

With cutting speeds of up to 100 m/min, acceleration of nearly 2G, and fiber laser power of 1 to 6kW, the eSmart series delivers precision, efficiency, and value.

The ultimate fiber laser system

BUILT FOR SPEED

In the mid 2000's Eagle set out to develop the ultimate fiber laser machine. Every machine component has been painstakingly researched and optimized to provide maximum productivity and reliability.

Long before fiber laser became a common term in the manufacturing industry, Eagle was working with fiber laser pioneers to cut better, faster, and cheaper parts in a 24/7 environment.

You can see our pride and commitment to quality in the components we select, the finished curb appeal of our designs, and in the eyes of our talented staff.

We are committed to always lead the industry with the best fiber laser systems in the world.

WHAT MAKES IT AN EAGLE LASER

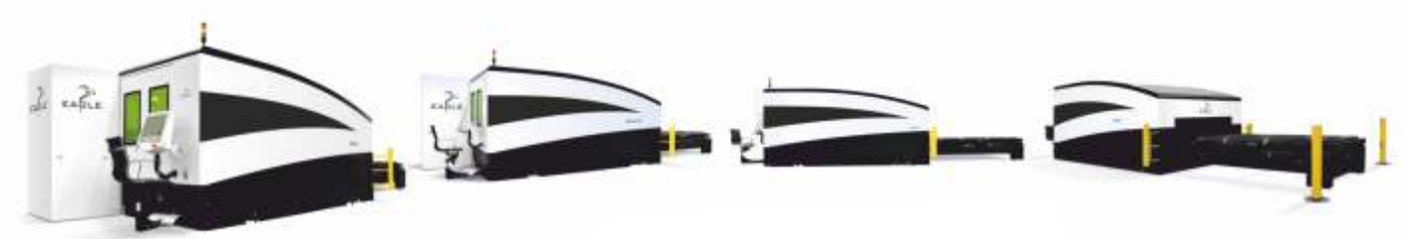
To create the ideal fiber laser machine, every aspect of the machine must be carefully thought out and researched. Stand back from an iNspire system and you'll notice a few things.

POWER UNDER CONTROL

The first thing you notice before the machine even turns on is the fiber laser power. Eagle offers the highest fiber lasers power in the world, and we won't be stopping at 15kW, you can be sure of that . But all that power is useless if two attributes are not maximized: reliability and motion speed.

Eagle has always led the world in fiber laser power, and we designed our own delivery system and automated cutting head to ensure we get the reliability necessary to run 24/7.

The greater the fiber laser power the faster the machine must be able to move. But top speed is not enough, the true limiting factor using 6 to 15kW of fiber laser power is acceleration. Eagle machines generate up to 6G of acceleration. If You stand in front of a 15kW Eagle Laser, cutting thin sheet metal you'll know you are seeing something very special, and very productive. At 6G, we are accelerating from 0 to 100 km/hr. in under ½ second.



UNIQUE MACHINE DESIGN

To reach these acceleration levels, Eagle Laser has researched and tested many different types of machine base designs, lightweight bridge designs, mechanical motion designs, and control architectures to come up with the ideal machine. The base is rigid composite, the traverse bridge is carbon fiber composite, the drive system is high-power linear drive with integrated cooling and the control system is all high-speed digital based on the EtherCat. Every ounce of weight was removed from the moving components and every sub-assembly was carefully selected for compatibility and performance.

The machine is built for more than just a speed, it is also compact, ergonomic, and beautiful. With integrated chillers and material handling, Eagle Lasers require 30% less floors pace than other fiber laser systems. The operator station, material handling, and work enclosure are conveniently located to improve the operator's work.

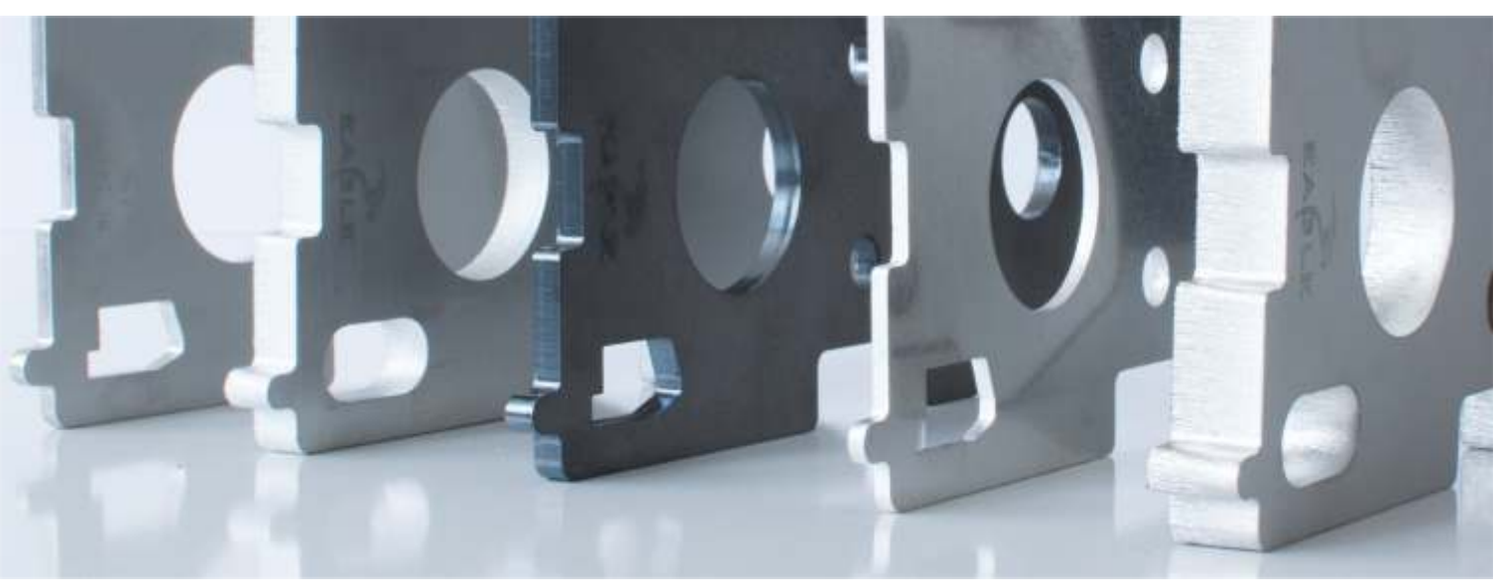
LINEAR MOTORS

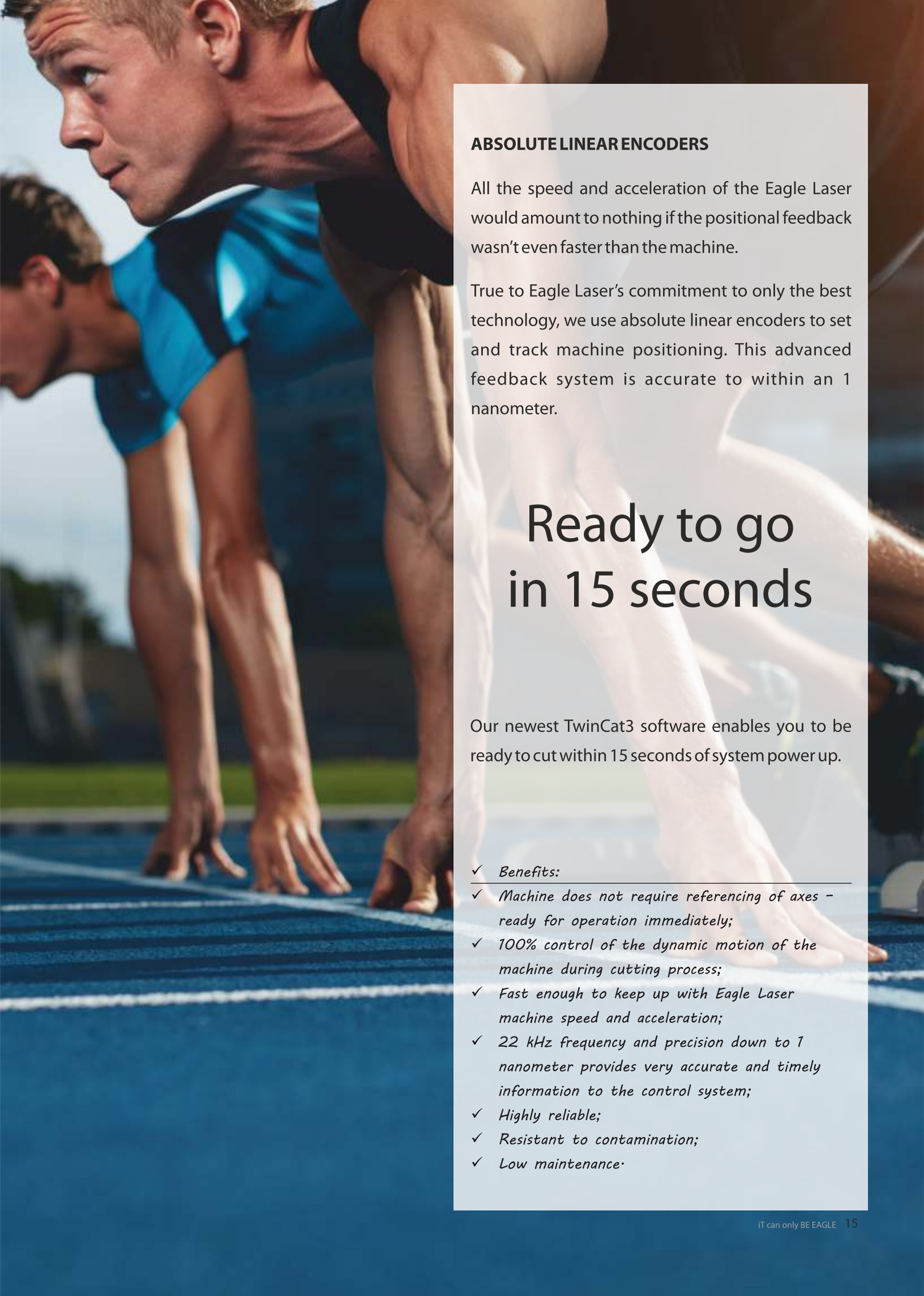
The only drive system available that has the speed, acceleration, and precision to meet Eagle Laser's performance criteria is the linear motor. With traditional rotary motors you must convert rotational torque and motion into linear motion through some mechanical means (such as rack and pinion or ball screw). This conversion is highly inefficient and slows down motion acceleration and speed. Linear motors eliminate this conversion.

We have perfected the use of the latest linear motor technology. The result? Our machines have high acceleration, obtain the highest speeds in the industry, deliver high-precision, and never wear out.

Benefits:

- ✓ *Reliability of cutting head and motion system;*
- ✓ *Contamination resistance for uptime;*
- ✓ *High G acceleration;*
- ✓ *Low maintenance requirement of the cutting head;*
- ✓ *No maintenance required of the linear drive mechanics;*
- ✓ *24/7 reliable operation·*





ABSOLUTE LINEAR ENCODERS

All the speed and acceleration of the Eagle Laser would amount to nothing if the positional feedback wasn't even faster than the machine.

True to Eagle Laser's commitment to only the best technology, we use absolute linear encoders to set and track machine positioning. This advanced feedback system is accurate to within an 1 nanometer.

Ready to go in 15 seconds

Our newest TwinCat3 software enables you to be ready to cut within 15 seconds of system power up.

- ✓ *Benefits:*
- ✓ *Machine does not require referencing of axes – ready for operation immediately;*
- ✓ *100% control of the dynamic motion of the machine during cutting process;*
- ✓ *Fast enough to keep up with Eagle Laser machine speed and acceleration;*
- ✓ *22 kHz frequency and precision down to 1 nanometer provides very accurate and timely information to the control system;*
- ✓ *Highly reliable;*
- ✓ *Resistant to contamination;*
- ✓ *Low maintenance·*

PALLET CHANGER

The dynamic pallet changer allows for quick pallet replacement. Consequently improves the efficiency of the machine and facilitates the operators work. Pallet changer is fully automated. Our pallet change system exchanges a sheet of material within 9 seconds. We obtained this performance by removing slow-acting hydraulics, reducing the number of components, and optimizing machine/pallet interface. We reduce non-production time to a minimum.

PALLET CHANGE TIMES

MACHINE MODEL	[um]	**1530**	**2040**	**2060**	**2560**
PALLET CHANGE TIME	[s]	9	14	18	22

Benefits:

- ✓ *Extremely fast: 10s sheet removal and replacement within the machine;*
- ✓ *Enclosed work area allows for sheet load and unload without machine stoppage;*
- ✓ *Safe operation;*
- ✓ *Easy access from 3 sides;*
- ✓ *Increased work comfort;*
- ✓ *Fully automated·*

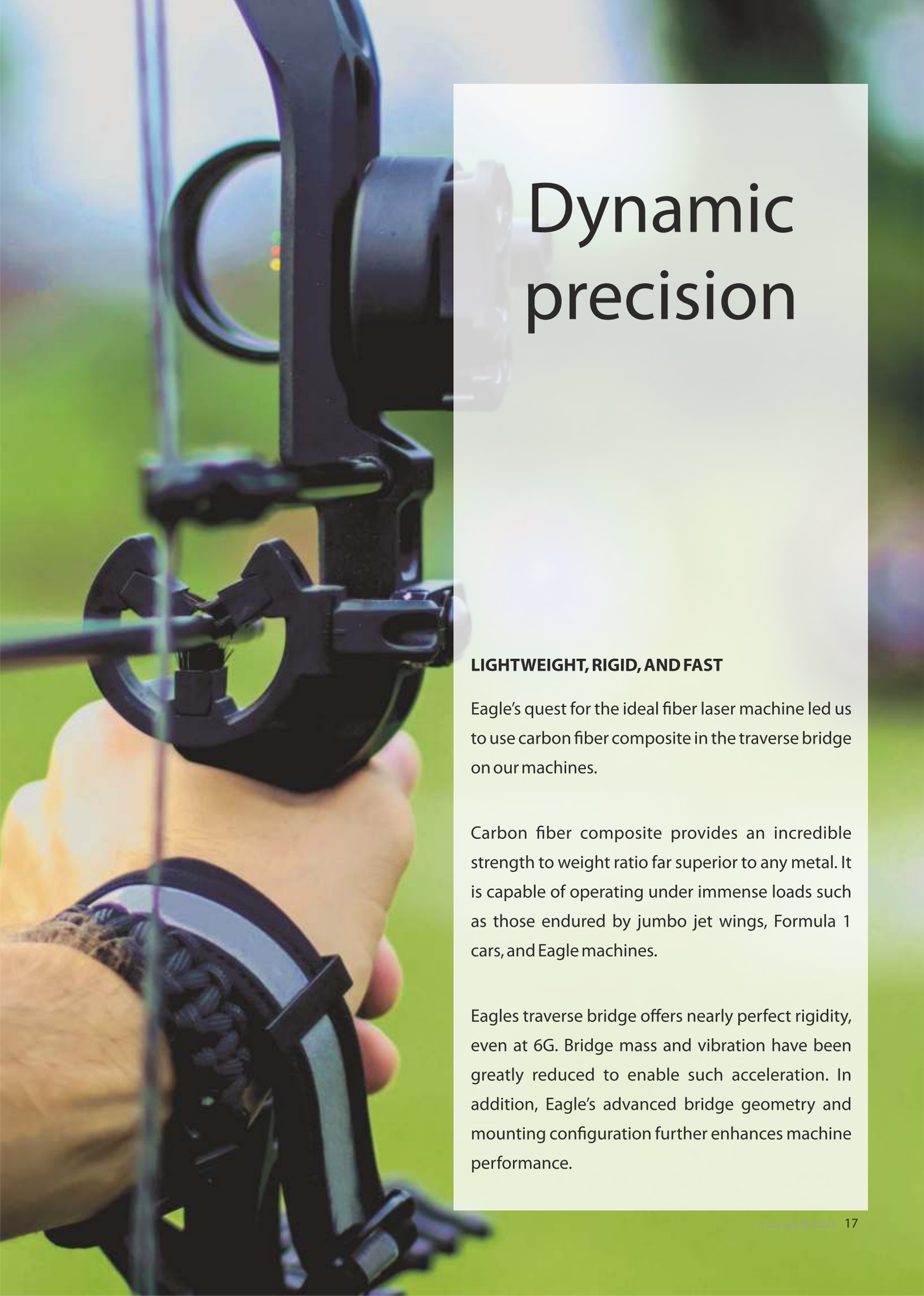
MACHINE BODY OF COMPOSITE MATERIAL

The base frame of an Eagle Laser is no ordinary steel weldment. To achieve 6G acceleration, the body of the machine must be completely rigid, dampen vibration and harmonic frequencies, remains stable at all working temperatures, and be of high precision.

Through careful research, material testing, and finite element analysis design work, we have developed the ultimate high-performance machine body. A massive polymer concrete body provides an extremely stable base for an extremely fast machine. Vibrations associated with high G moves are dampened. Precision mounting of the linear drive stator and linear encoder feedback system is enabled. In addition, the machine can be transported anywhere in the world and quickly installed without concern for transit-induced inaccuracies.

Benefits:

- ✓ *Enables high G acceleration;*
- ✓ *Vibration dampening;*
- ✓ *Temperature stability;*
- ✓ *Stable foundation for the life of the machine*
- ✓ *Safe global transport*
- ✓ *Fast to install or relocate*



Dynamic precision

LIGHTWEIGHT, RIGID, AND FAST

Eagle's quest for the ideal fiber laser machine led us to use carbon fiber composite in the traverse bridge on our machines.

Carbon fiber composite provides an incredible strength to weight ratio far superior to any metal. It is capable of operating under immense loads such as those endured by jumbo jet wings, Formula 1 cars, and Eagle machines.

Eagles traverse bridge offers nearly perfect rigidity, even at 6G. Bridge mass and vibration have been greatly reduced to enable such acceleration. In addition, Eagle's advanced bridge geometry and mounting configuration further enhances machine performance.

Reaching higher performance

EAGLE'S eVa CUTTING HEAD

Harnessing the ultrahigh power of today's most advanced fiber laser machines can result in short cutting head life, heavy components, and time-consuming maintenance.

Eagle offers an innovative solution, setting a new standard in the laser industry – the patented eVa cutting head. It's the first of its kind in the industry.

The eVa is designed to handle fiber laser power of over 15kW. It is the answer to the growing demand for efficient durable and reliable sheet-metal production. The eVa head is your competitive advantage.

The eVa cutting head is unique in the world of ultrahigh-power fiber lasers. It has very few moving parts in the path of the laser beam, is very simple and lightweight in design, is easily maintained in minutes by the operator, and delivers extremely fast hole piercing.

The eVa is equipped with only two fixed lenses. Despite this, the cutting head provides the ability to change the focal diameter and the angle between the beam and the material. The glass that protects the optics is far away from the cutting nozzle making the eVa much more resistant to contamination during the cutting process. As a result, replacement of the protective glass occurs 10 times less frequently than other fiber laser cutting heads. In addition, the eVa incorporates a collimator protective glass mounted over the collimating lens to further enhance durability and uptime.

Benefits:

- ✓ *Four times less sensitive to dirt;*
- ✓ *10x fewer replacement of protective glass;*
- ✓ *Serviced by your staff while on the machine;*
- ✓ *Lower maintenance cost;*
- ✓ *Extremely fast piercing;*
- ✓ *Automatic beam centering;*
- ✓ *Automatic nozzle quality checking;*
- ✓ *Can be equipped with automatic nozzle exchange.*

MULTI-CHAMBER EXTRACTION SYSTEM

Eagle's multi-chamber extraction system is so effective that in most cases exhaust air can be diverted right back into the workshop. This integrated extraction system works seamlessly with the operator and machine to turn on and off automatically as required.

Small metal particles are dragged and filtered in the compact filter while bigger particles are gathered in a container. Optimum filter performance and extended life is obtained by simply shaking the filters free of excess debris when necessary. The filter system is also equipped with a spark arrestor.

CONVEYOR BELT TRANSPORTER

A conveyor is located under the cutting area of the machine to transport small parts away from the cutting area so that they are not dirtied or damaged by subsequent cutting, and to remove dropouts. The Eagle conveyor system is designed as an integral part of the machine body design, not an afterthought, further reducing footprint and enhancing performance.

The built-in conveyor system has another highly beneficial attribute; it reduces or eliminates the need to add micro joints to your parts. Micro joints are used to keep cut parts from a falling through, but since Eagle machines come with an integrated conveyor you can let the parts fall through and thereby simplify part programming, decrease part cycle time, reduce piercing wear and tear, and reduce secondary operations.

Benefits

- ✓ *better quality of cut parts;*
- ✓ *greater machine throughput;*
- ✓ *faster cycle times;*
- ✓ *ability to cut without micro-joints;*
- ✓ *reduced secondary operations on the parts;*
- ✓ *reduced downtime.*

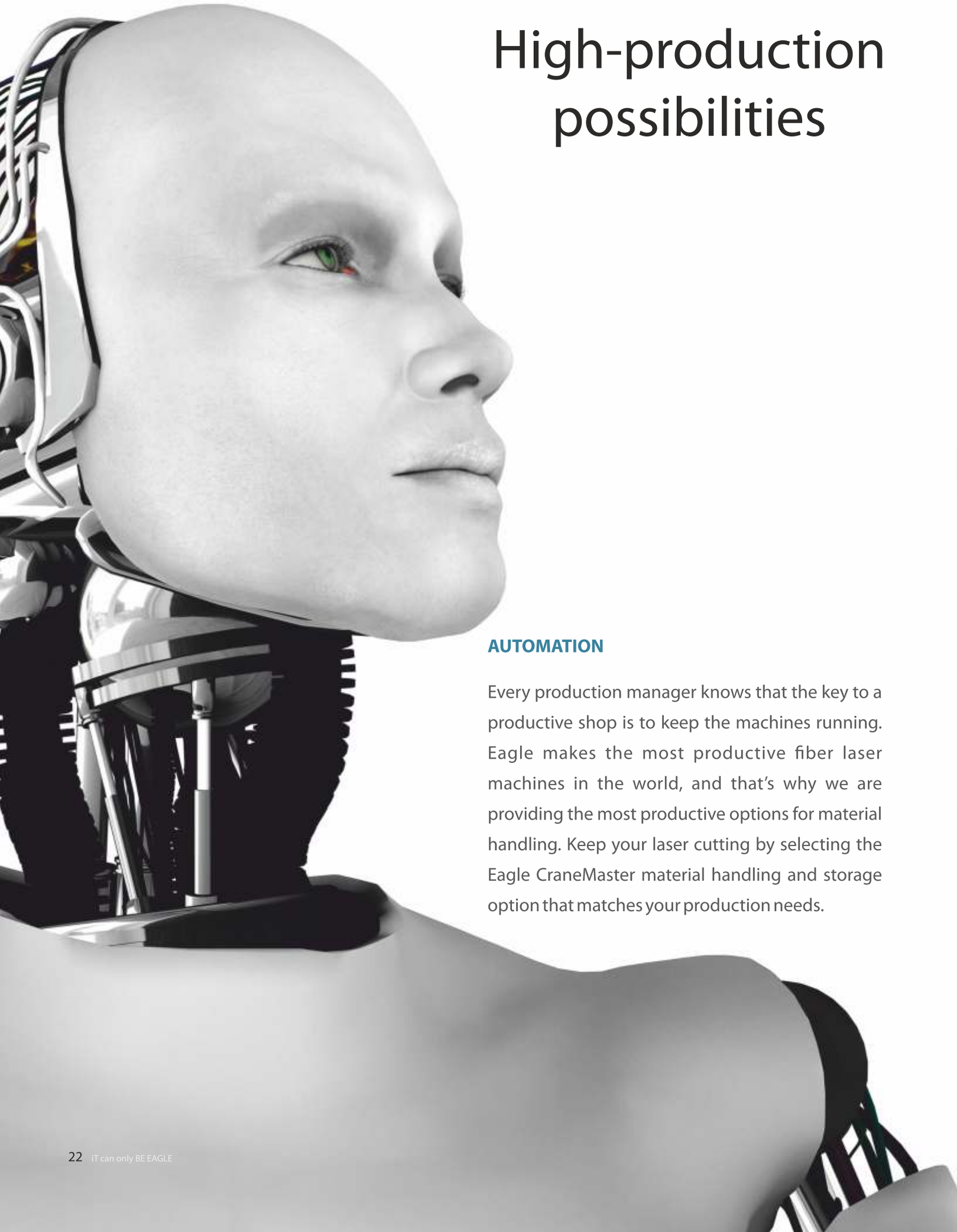
Cutting thick sheet

CatLine

Eagle Laser's CatLine system can be used to improve part edge quality and tolerances when you need it most.

CatLine allows your Eagle Laser machine to cut 20% thicker materials with the same laser power. Time of burns of thick sheets is reduced by as much as 50%. Cuts greater detail. Reduce the need for secondary drilling of small holes since CatLine produces holes to tight tolerances and no flash. In addition, you'll obtain high quality edges on thick sheets of stainless steel and aluminum, all while reducing burrs by 80%.

CatLine utilizes advanced cutting process models to control the entire machine, even adjusting optics while cutting the part.



High-production possibilities

AUTOMATION

Every production manager knows that the key to a productive shop is to keep the machines running. Eagle makes the most productive fiber laser machines in the world, and that's why we are providing the most productive options for material handling. Keep your laser cutting by selecting the Eagle CraneMaster material handling and storage option that matches your production needs.

MATERIAL HANDLING AUTOMATION OPTIONS

Automation of manufacturing processes is considered a major element in the development of the company. That is why engineers and designers created and build comprehensive solutions in order to automate the production process. At the moment, when the machines are working very efficiently and produce more elements than people are able to handle, special automation solutions work best. Due to the increasing demand of productivity, we prepared a special system of loading - unloading equipment for storage of materials and loading facilities, which allows you to increase efficiency of production even more.

Benefits:

- ✓ *CraneMaster brand material handling by Eagle;*
- ✓ *Optimized to work with our machines;*
- ✓ *Increase machine productivity;*
- ✓ *Increased efficiency;*
- ✓ *Reliable operation;*
- ✓ *Increased material security and work organization;*
- ✓ *Improvement of the operator's work;*
- ✓ *Increase worker safety·*

CraneMaster

AUTOMATIC LOADING - UNLOADING UNIT

TECHNICAL DATA

Cycle time	65s
Max. sheet size	1,25m x 2,5m; 1,5m x 3m; 2m x 4m; 2m x 6m
Max. sheet	25mm

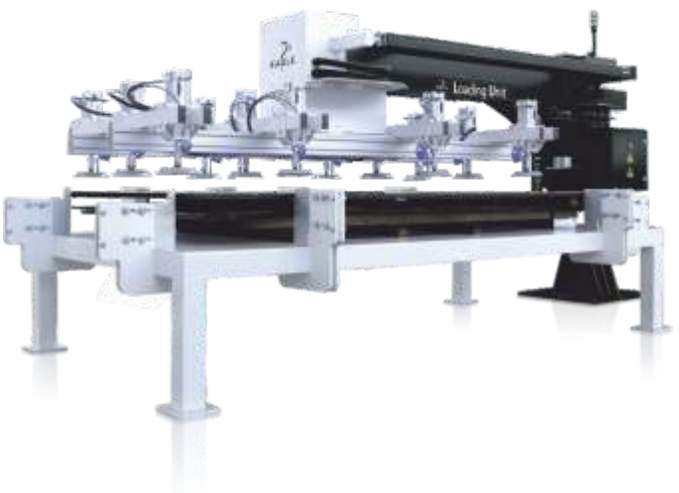
The **CraneMaster** loading and unloading unit offers a wide array of capabilities to enhance your machine throughput. This automated system both loads and unloads material from the Eagle laser pallet changer.

It is fully automated and integrated into our Eagle machine and software. Reduce errors with our sheet separating system where the CraneMaster will measure sheet thickness and confirm that thickness with the software on the Eagle laser. A separately controlled vacuum system on a loading frame picks up raw material sheets from the loading table and transports it to the machine pallet changer. The unloading unit removes the cut items with comb shaped forks and places them on the upper surface of the loading frame.

Picking up new material and removing cut remnants and parts occurs simultaneously, enhancing throughput efficiency.

NO SCRATCH it is an option available for CraneMaster and CraneMasterStore, which almost completely eliminates scratching cut parts during unloading from the pallet changer. Thanks to that, the combs of the discharge bin are equipped with special brushes, which are intended to prevent the elements scratching.

LoadingUnit
AUTOMATIC LOADING SYSTEM



TECHNICAL DATA

Cycle time	55s
Max. sheet size	1,25m x 2,5m; 1,5m x 3m; 2m x 4m
Max. sheet	25mm

The **LoadingUnit** loads sheets onto the Eagle laser pallet changer. The loading system is fully automated and integrated with our machine.

The device is based on a rotary arm equipped with individually controlled high pressure vacuum cups. The system is able to separate the sheets and measure their thickness, and then check with the machine control system to make sure the material is in accordance with the given cut program.

eLoader
SEMI AUTOMATIC LOADING UNIT

TECHNICAL DATA

Max. sheet size	1,25m x 2,5m; 1,5m x 3m; 2m x 4m
Max. sheet	25mm

The **eLoader** is a loading unit that consist of a manually operated swing arm crane, electric hoist, and vacuum cup assembly. This unit is installed next to the Eagle Laser pallet changer unit. This affordable solution streamlines the loading of sheets and reduces operator fatigue while improving operator safety.

CraneMasterStore
instalation with MonoTower

INSTALATION CONSISTS OF:

EAGLE laser cutting machine
CraneMasterStore loading - unloading system
MonoTower

TOWER TECHNICAL DATA:

Type	shelves for raw material	shelves for cutted pieces	sheets dimensions [m]
Mono Tower 10	8	2	1,5 x 3 2 x 4 2 x 6
Mono Tower 15	10	5	1,5 x 3 2 x 4 2 x 6
Mono Tower 20	15	5	1,5 x 3 2 x 4 2 x 6

CRANE MASTER STORE

The **CraneMasterStore** is Eagles comprehensive material handling and storage option. Three major devices are integrated together into a seamless system that includes:

- Eagle laser cutting machine
- CraneMasterStore loading - unloading system
- Twin Tower or MonoTower store unit

Selected material is transported by the Twin Tower storage elevator and then grabbed by the CraneMasterStore for loading onto the Eagle Laser pallet changer.

After cutting, the remnant and cut parts are removed by the CraneMasterStore from the pallet changer and put onto the unloading container, which can later be transported to the tower warehouse or other work area.

CraneMasterStore
instalation with TwinTower

INSTALATION CONSISTS OF:

EAGLE laser cutting machine
CraneMasterStore loading - unloading system
TwinTower

TOWER TECHNICAL DATA:

Type	shelves for raw material	shelves for cutted pieces	sheets dimensions [m]
Twin Tower 26	20	6	1,5 x 3 2 x 4 2 x 6
Twin Tower 36	28	8	1,5 x 3 2 x 4 2 x 6
Twin Tower 46	38	9	1,5 x 3 2 x 4 2 x 6

Features:

- ✓ *modular construction allowing for extension of existing system (i·e· change of its height);*
- ✓ *steering integration with ERP and WMS class systems;*
- ✓ *system can be mounted outside the building;*
- ✓ *flexible access points (access space at any level, loading stations at both sides of the system);*
- ✓ *horizontal and vertical transportation with use of Gall chains·*

Benefits:

- ✓ *easy access to selected sheets;*
- ✓ *maximizing the use of availablestorage height;*
- ✓ *cataloging sheets before and after cutting;*
- ✓ *the compact installation saves space in the production area;*
- ✓ *fully automated process that does not require the presence of an operator*
- ✓ *minimize your time by simultaneously loading sheets and unloading cut parts*

Software & Control

SOFTWARE

Eagle machines come with a software suite that not only optimizes fiber laser cutting, but also makes production control and accounting easy.

eSoft software provides an integrated approach to maximize all aspects of your Eagle Laser productivity:

- drafting
- processing
- autoNest
- postprocessing
- simulation
- DNC file transfer
- file import and export
- multilanguage support

CONTROL

All Eagle machines are equipped with a reliable Beckhoff control system and EtherCAT Technology that delivers the fastest possible communication. This real – time control system checks the process and machine parameters in microseconds.

Maintaining position in small contours at high speed is not easy. Only the fastest control system will do for the world's fastest fiber laser that's why we belive iT can only BE EAGLE.

Easy Cut

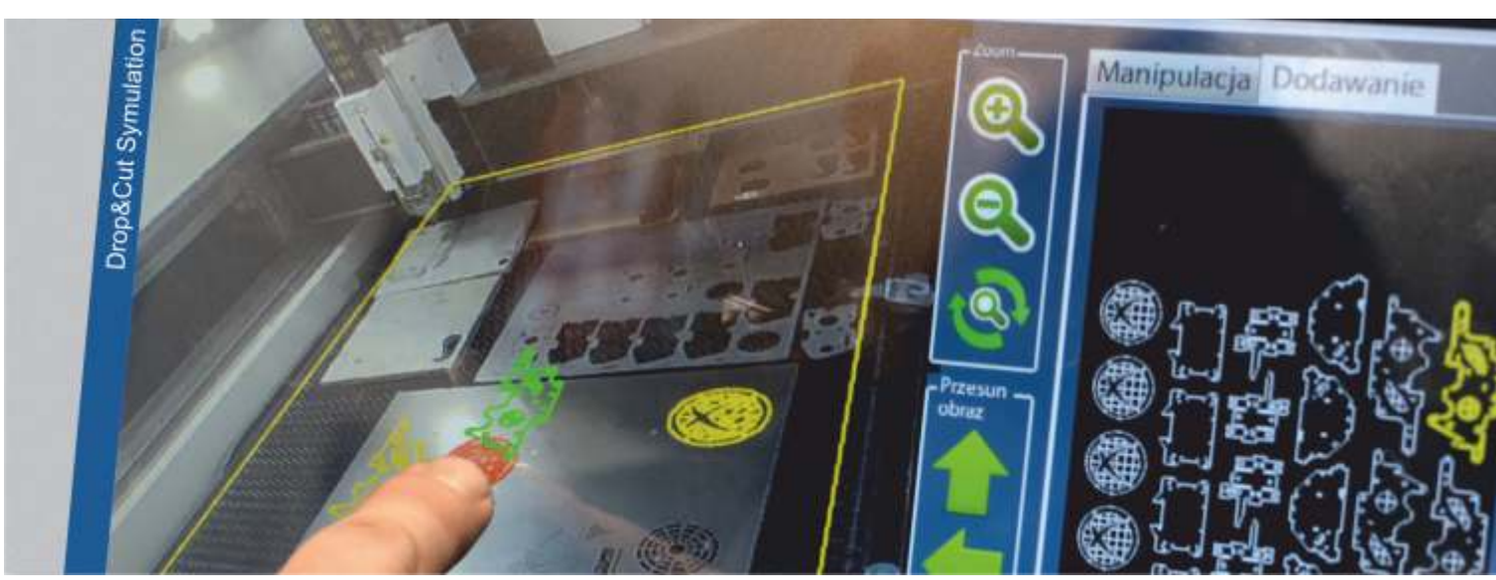
Drop&Cut

The **Drop & Cut** module of our software suite makes it possible to make efficient use of material remnants, even when the remnant is irregularly shaped and full of holes and gaps. With our system, you no longer need a separate program for measuring sheets, and the operator doesn't need to measure whether an element will fit within a sheet remnant.

A video camera is placed inside the working closure enabling the Drop & Cut system to provide an image of the remnants to the operator. The operator can drag a virtual outline of the part to be cut onto the remnant image and quickly see if it fits. The operator can also rotate the part as needed to fit within the remnant. The software will not allow the operator to cut out a part out that does not fit on the material. All of this can be accomplished without the operator reprogramming the machine.

Benefits:

- ✓ *utilize all of your remnant material;*
- ✓ *fastest means of cutting extra parts;*
- ✓ *does not require reprogramming or nests;*
- ✓ *ability to preview the path before cutting;*
- ✓ *eliminates operator errors;*
- ✓ *simple user interface·*



Raise the bar of your production

TRACK PERFORMANCE WITH eRS REPORTING

Eagle Reporting System (eRS) is our proprietary reporting system that offers:

Lower machine operating costs

Ensure machine health by reporting on the wear of spare parts such as nozzles and slides. Track when the last replacement took place, and who performed the replacement.

Machine performance

Report on how the machine is performing for specific orders, operators, within a date range, or before and after changes have been made to the machine.

Send emails to specified people to notify them of unexpected downtime or reduced output.

You have full control over your production – see when and what programs were cut by the machine.

Better organization of work

Full control over the machine performance in real time. Three types of dedicated reports are provided based on whether you are the owner, programmer, or operator.

Diego Barbieri / Shutterstock.com

ORIGINAL SPARE PARTS

Our spare parts warehouse is always well-stocked. We guarantee quick shipment and competitive prices.

You can rely on our qualified staff and the guaranteed quality of our EAGLE original parts.

Professional spare part advice will help you choose the right part and quantity to keep your EAGLE laser running a peak performance.

Our specialists are knowledgeable in the purchase and use of all spare parts. In our main warehouse and local warehouses you will find a wide range of components for your EAGLE laser.

TECHNICAL SUPPORT

We know how important productivity is to you, and we are committed to providing comprehensive service and support to maximize your Eagle Laser productivity.

Our application experts will ensure that you select the right 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 systems require minimal maintenance. 99% of maintenance procedures on Eagle machines may be performed by your staff without the need to call a service technician.

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

EAGLE

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