MESSER
Cutting Systems

EDGEMAX
MAXIMUM PERFORMANCE, PRODUCTIVITY, AND VALUE

MESSER
Cutting Systems

EdgeMax

EDGEMAX

MAXIMUM PERFORMANCE, PRODUCTIVITY AND VALUE.

PRECISION GEARBOXES

Industrial quality components
combine to provide dependable
precision performance
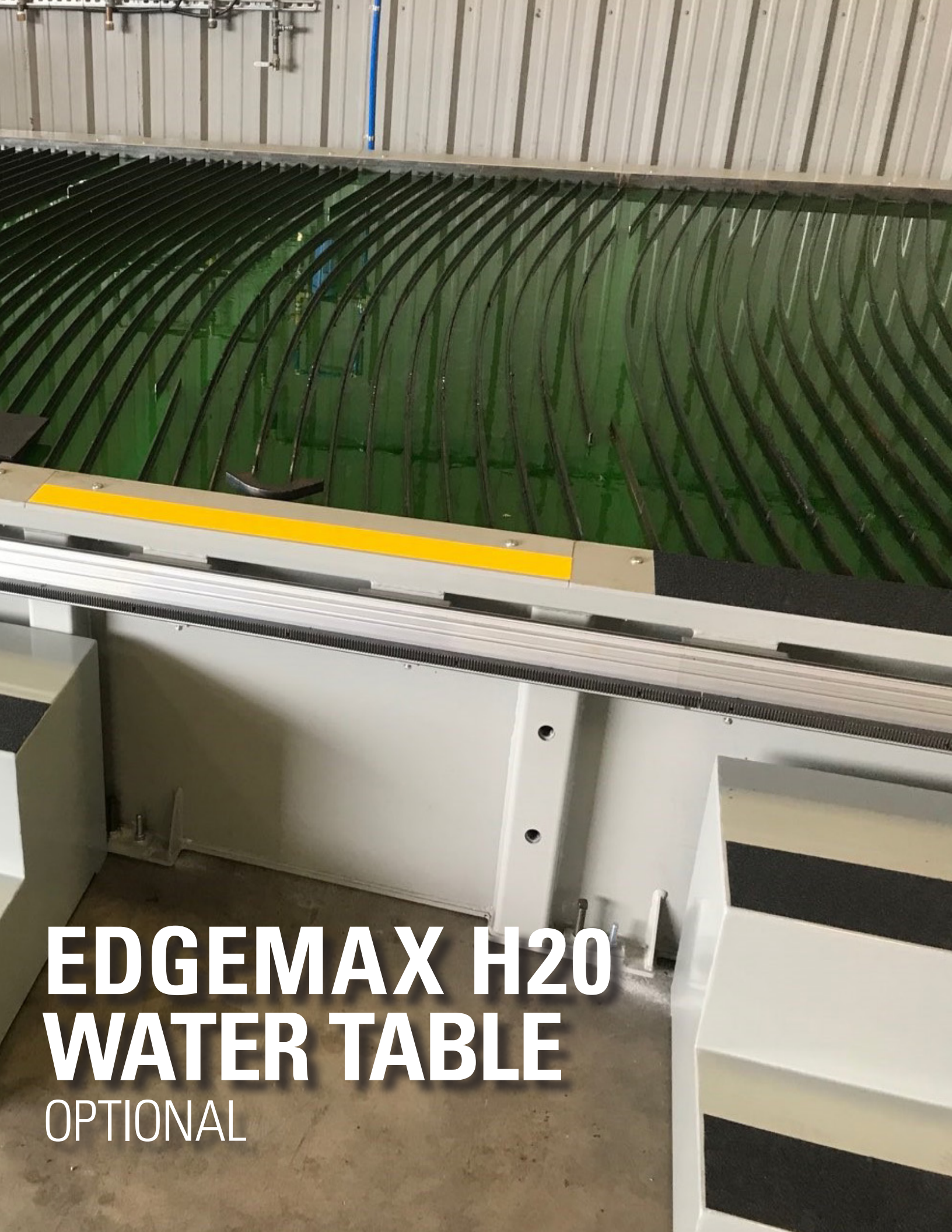in a sleek protected platform.

PRECISION CUTTING

Enjoy precision plasma cutting every time with quick and accurate torch reset.

GLOBAL CONTROL^S

Intuitive, easy to use feature rich interface. Provides user with a powerful cutting solution.
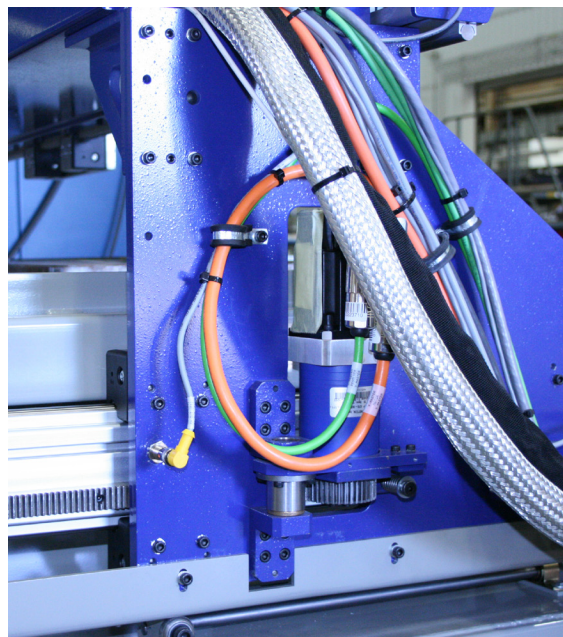
MESSER
Cutting Systems

EdgeMax

EDGEMAX H20
WATER TABLE
OPTIONAL

Global Control[S]

Easy-to-use, feature rich, Windows® interface. The Global Control[S] is a compact touch screen process database featuring custom shape library, CAD import, and true-shape nesting. Virtual Service puts service experts one push button away. Easy to learn functions allow employees to become expert operators in minutes.

Dual X-Axis Drives

Digital AC amplifiers with 600-watts including brushless AC motors provide quality motion and control; 1,700 IPM in all axes. Low backlash alpha planetary gearboxes in both the 'X' and 'Y'- Axis contribute to sharp corners and round holes. Hardened pinions 2.5" diameter in the 'X' and 'Y' axes efficiently transmit torque to the 1" wide gear rack.

EASY-TO-USE, FEATURE RICH, WINDOWS® INTERFACE.

+ 15" LED touch screen with multiple process databases, custom shape library, true shape nesting, and productivity monitoring.

+ Remote diagnostics with a push of a button.

HIGH SPEED DRIVES

+ Zero maintenance high compliance digital drives prove the smoothest possible edge.

+ With no brushes to change, and no required tuneups, keeps you cutting.

Table Doors

Table doors allow for easy lost part retrieval and slag removal.

Flex Zone

The "Flex" in Flex Zone allows *Flexible* cutting applications outside of the table. This area can be used for vertical cutting of pipe, tube channel and I-beam etc.

EASY TO ACCESS

+ For quick and fast cleanout.

FLEXIBLE CUTTING

+ Allow items to be cut that do not fit on the table.

CLS200 Plasma Torch Lifter with SureStop Collision Sensor

Messer Cutting Systems CSL TORCH LIFTER features an adaptive initial height system for plasma and fiber laser torches. Productivity enhancing features produce more parts in a shorter period of time. As the system "learns" the height of the plate on the cutting table, it quickly positions the torch to the correct pierce height. Customizable parameters keep the torch close to the plate between pierces, reducing the frequency of intital height senses.

TurboFlame™ Oxyfuel Torch with SureStop Collison Sensor

Oxyfuel cutting is the most economical method to produce high-quality parts from mild steel and low alloy steel. The Turbo Flame™ Torch is accurately positioned through the shared use of the smooth, ball-screw driven CSL200 Lifter, featuring a SureStop Collision Sensor. Cutting up to 20% faster than other torches, regardless of fuel gas used.

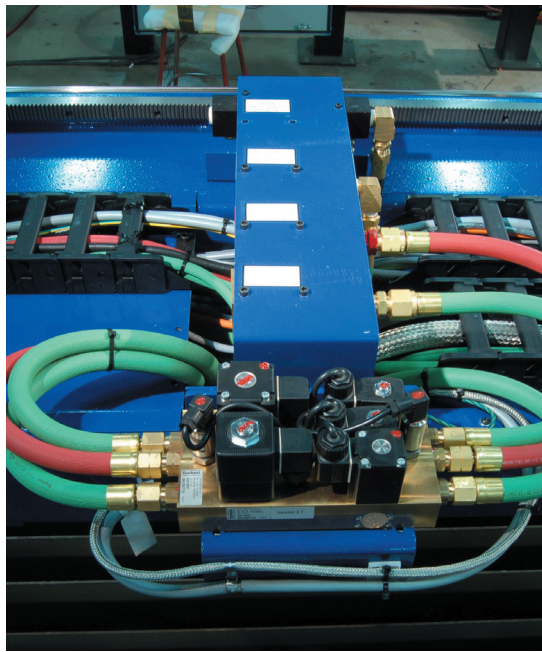## ACCOMMODATES THE SURESTOP COLLISION SENSOR

+ Rapid recovery saves money and downtime.

+ No expensive after collision repair cost.

+ Torch is simple to remove and easy to re-align.

HIGH QUALITY RESULTS IN MILD STEEL AND LOW ALLOYS UP TO 3'.

+ Reduce time and labor.

+ Torch collision protection with quick and simple torch re-alignment.

OmniFlow - Automatic Gas Control System

Messer Cutting Systems OmniFlow is an Automatic Gas Control System which provides automatic setting and regulation of preheat oxygen, cutting oxygen and fuel gas pressure during oxyfuel cutting. Precise, automatic control of the piercing process is possible for mild steel up to 5" thick. The Omniflow system is designed for use with Messer TurboFlame™ torches. The Omniflow system is integrated into the Global ControlS.

Operators concentrate on cutting parts, not on costly torch set-up and adjustments.

Markers

Plate marking offer flexible and adaptable solutions for creating lasting marks on a range of metal materials. Messer offers different marking tools dependent the marks you want to make, the scale of your operations, and the desired durability of the mark.

Marking equipment offered on the EdgeMax are: AirScribe, Ink-Jet and Inkjet and plasma, scribed marks remain visible after painting.

AVAILABLE WITH ALL OXYFUEL TORCHES.

+ Optimized preheat and pierce routine to reduce cycle time and improve cut quilty and consistency.

+ Built-in diagnostics monitor the cutting procsse and assit with trouble shooting.

TEXT AND LAYOUT LINES THAT ARE MORE PERMANENTLY VISIBLE.

+ Clear, physical markings that cannot be easily removed.

+ Variable marking depth.

+ Multiple ink and marking styles.

Video Camara and Plate Alignment

The on-board video camara is used by the opertor to both monitor the cutting process and for a plate alignment tool. The operators nest parts as efficiently as possible to get the best plate utilization to reduce scrap as parts are processed. Multiple times per day, a plate is placed on the cutting table and then matched or aligned to the plate.

The bright dot of a laser pointer or the crisp image of the plate edge on the Global Control^S allows the operator to quickly capture the location or angle of the plate.

Up to XPR460 Amp Cutting Package

With up to 460 Amp plasma system which pierces up to two-inch thick in mild steel. Productivity increases with faster speeds on thinner materials. Includes special heavy-duty slat frames, slats, and shielding.

REDUCE SETUP TIME AND ELIMINATE SCRAP.

+ Image Displayed on 15" LED color screen of the Global Control^S.

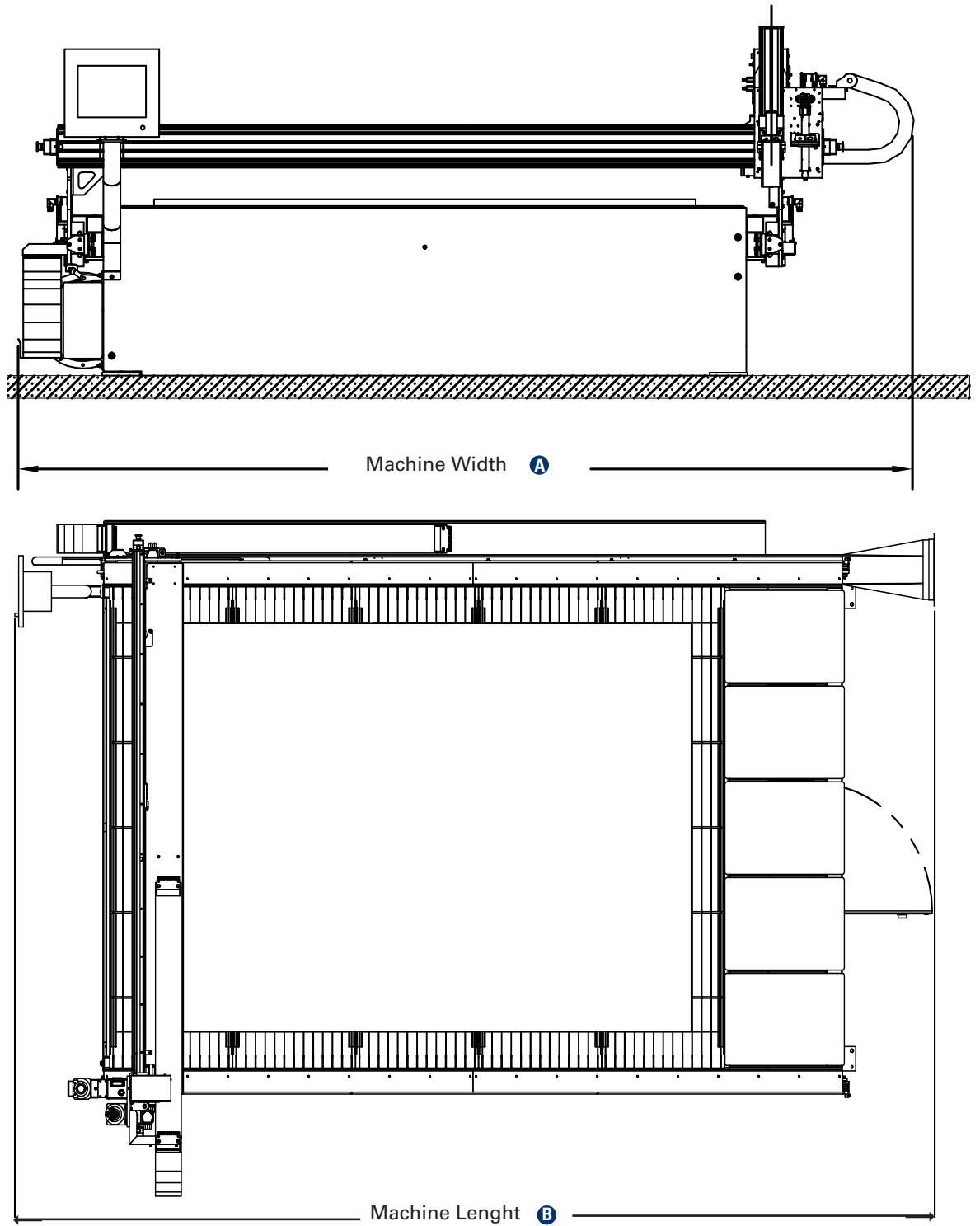+ Automatic operation more accurate than a laser pointer resulting in less scrap.

AVAIABLE PLASMA UNITS

+ PowerMax 125

+ MaxPro 200

+ XPR170

+ XPR300

+ XPR460

+ HPR400

Machine Width **A**

Machine Lenght **B**

Model Titan III	A Machine Width	B Machine Length	Tool Coverage
EdgeMax 6' x 12'	135"	239"	6'x 12' Plate
EdgeMax 6' x 24'	135"	400"	6' x 24' Plate
EdgeMax 8' x 12'	159"	239"	8'x 12' Plate
EdgeMax 8' x 24'	159"	400"	8' x 24' Plate
EdgeMax 10' x 12'	183"	239"	10' x 12' Plate
EdgeMax 10' x 24'	183"	400"	10' x 24' Plate

STANDARD FEATURES

+ Cutting widths 6', 8', 10'.

+ Cutting lengths 12' or 24'.

+ Cut 26 gage to 2.5" thick plate.

+ Cuts mild steel, stainless steel and aluminum.

+ Positioning speeds 1,700 IPM.

+ PL-1 Lifter with SureStop Collision Sensor.

+ Unitized construction with levelers for quick installation.

+ Removable slat frames and rigid wave-lock slats provide a solid and stable cutting surface.

+ Table doors allow for easy lost part retrieval and slag removal.

+ Ducted table with damper-controlled zones for dust and smoke removal.

+ Global Control^S a Windows® based operating system with easy to use operator interface with touchscreen.

+ Left or right hand mounted control that swivels and tilts for operator comfort.

+ Twenty home positions for multiple start points and lost cut recovery reposition to any pierce point.

+ Virtual Service™ remote consultation and diagnostics.

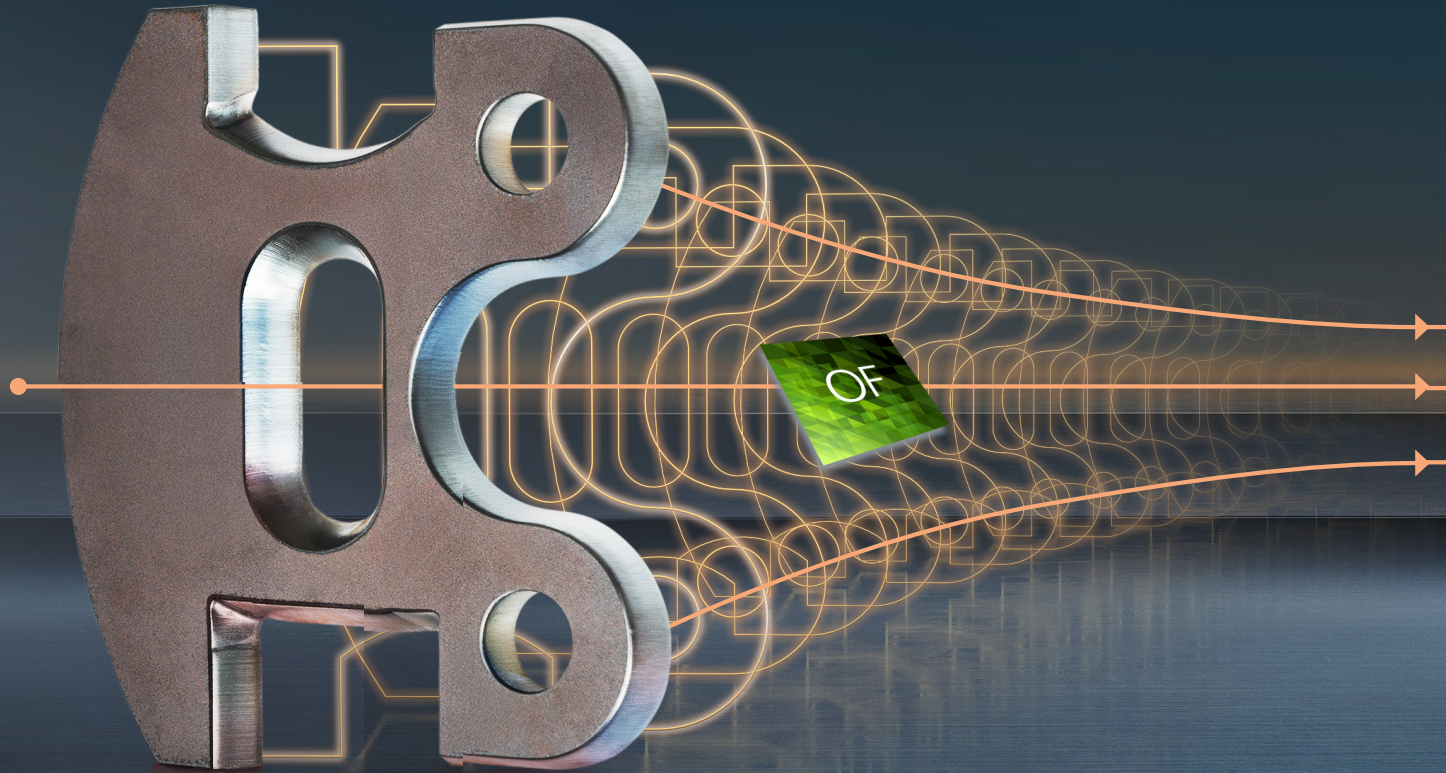+ Designed and manufactured in the USA to machine tool and ISO 230-2 standards.

+ UL/CUL.

OPTIONAL FEATURES

+ Precision plasma up to 460 amps.

+ Turbo Flame™.

+ Advanced gas cutting with oxyfuel technology with Omniflow automated gas regulation system.

+ Plasma auto gas console.

+ Plasma and oxyfuel station outlet equipment.

+ Manual Plasma Stripping Bevel Unit for the X-Axis.

+ Plate Rider attachment.

+ Various plate markers: Plasma, Air Scribe, and Single Dot Ink Jet.

+ Water Table.

+ Flex Zone, for processing material outside of the table.

+ Digital Video Camera.

+ Laser Pointer.

+ Global Reporter.

+ Programming and nesting software.

+ Plasma Air Booster

+ Operator glare shield.

+ Vertical Pipe and Tube cutting.

+ Messer dust collector systems.

+ Spark Trap.

+ Sentry Service Preventative Maintenance Program.

DIGITAL PRODUCTION

Our solutions ensure maximum transparency in operations management, production planning, and control.

OMNIWIN

Ideal for preparing work

OmniWin is a powerful, easy to use designing and nesting software that saves time, material, and costs. It is the ideal tool for work preparation in oxyfuel, plasma, and laser cutting with CNC machines, taking over all cutting tasks for order-based production.The software is both effective and economical – for small productions as well as for just-in-time manufacturing with changing quantities in custom cutting operations.

OMNIBEVEL

The tool for bevel cutting

OmniBevel is the software for dimensionally accurate parts and the leading product for bevel cutting. The post-processor module with a graphical, easy to use interface delivers optimal cutting results.

It stands for straight cuts, cylindrical holes, exact bevel angles and enormous flexibility. Almost all possible technology parameters and operation details are adjustable.

OMNIFAB

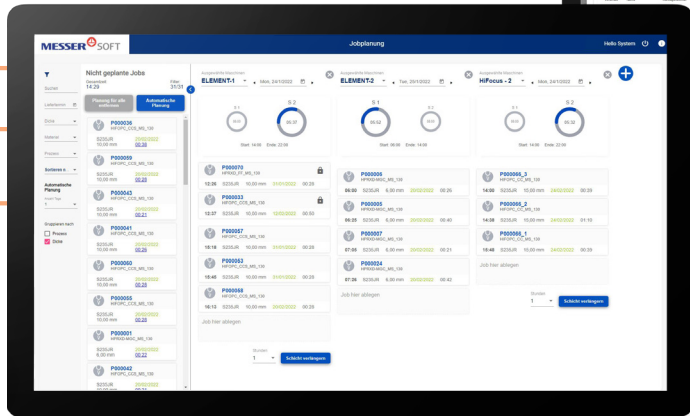# Software suite for digital transformation

OmniFab is the software suite that integrates Messer Cutting Systems' engineering technology into commercial processes in a holistic and process-oriented manner.
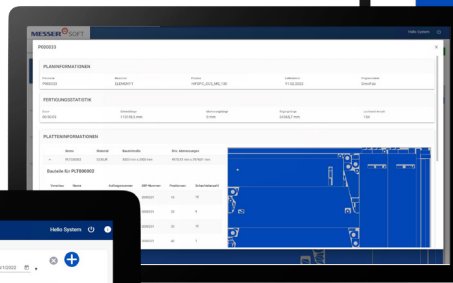
It provides relevant information for work preparation, production planning and plant management by connecting all systems. OmniFab also integrates material handling systems like loading/unloading stations, towers, material transportation devices and more – even on mobile devices.
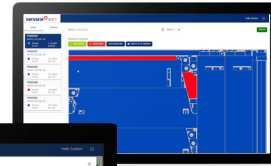
Everything at a glance

With OmniFab Job Management, you always have an overview of all jobs. The software ensures the jobs are done on the right machines and with the best utilization, whether you are scheduling manually or automatically. Via OmniFab PDC, feedback from the running operation comes in real-time from the machine operators. You can use this information to react quickly to unforeseen events to make the right decisions.

OmniFab
PDC Parts Status

OmniFab
PDC Digital Work Sheets

OmniFab
Job Management

Novice operators become experts.
Programmers control the process remotely.
Maintenance employees prevent downtime.
Production managers know the job status and reduce operating costs.

All of this is possible if you see the CNC control as the connector between production plant, machine and its operator to allow local as well as remote production scheduling. Data transparency to others within the organization provides key information which is needed to make better business decisions.

+ Flexible job-centric environment for new operators to learn quickly and experienced operators to excel.

+ Job scheduling for improved production flow.

+ Quick processing of past or repetitive jobs.

+ Local nesting and standard shape library for just-in-time workflow.

CREATING SOLUTIONS
BEYOND MACHINES

PRODUCT

AUTOMATION

DIGITAL

SERVICES

KNOW-HOW

What We Stand For

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

Our portfolio is built on the pillars of Product, Digital, Services, Automation and Know-How. With over 900 employees worldwide in over 50 countries, we maintain a constant dialogue with our customers. Through these partnerships, we achieve customer-oriented innovation and focus on "creating solutions beyond machines".

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

Our know-how combined with our customer-oriented attitude and actions have made us the worldwide partner of choice, delivering innovative solutions to the plate processing industry for over 120 years.

Messer Cutting Systems, Inc.

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