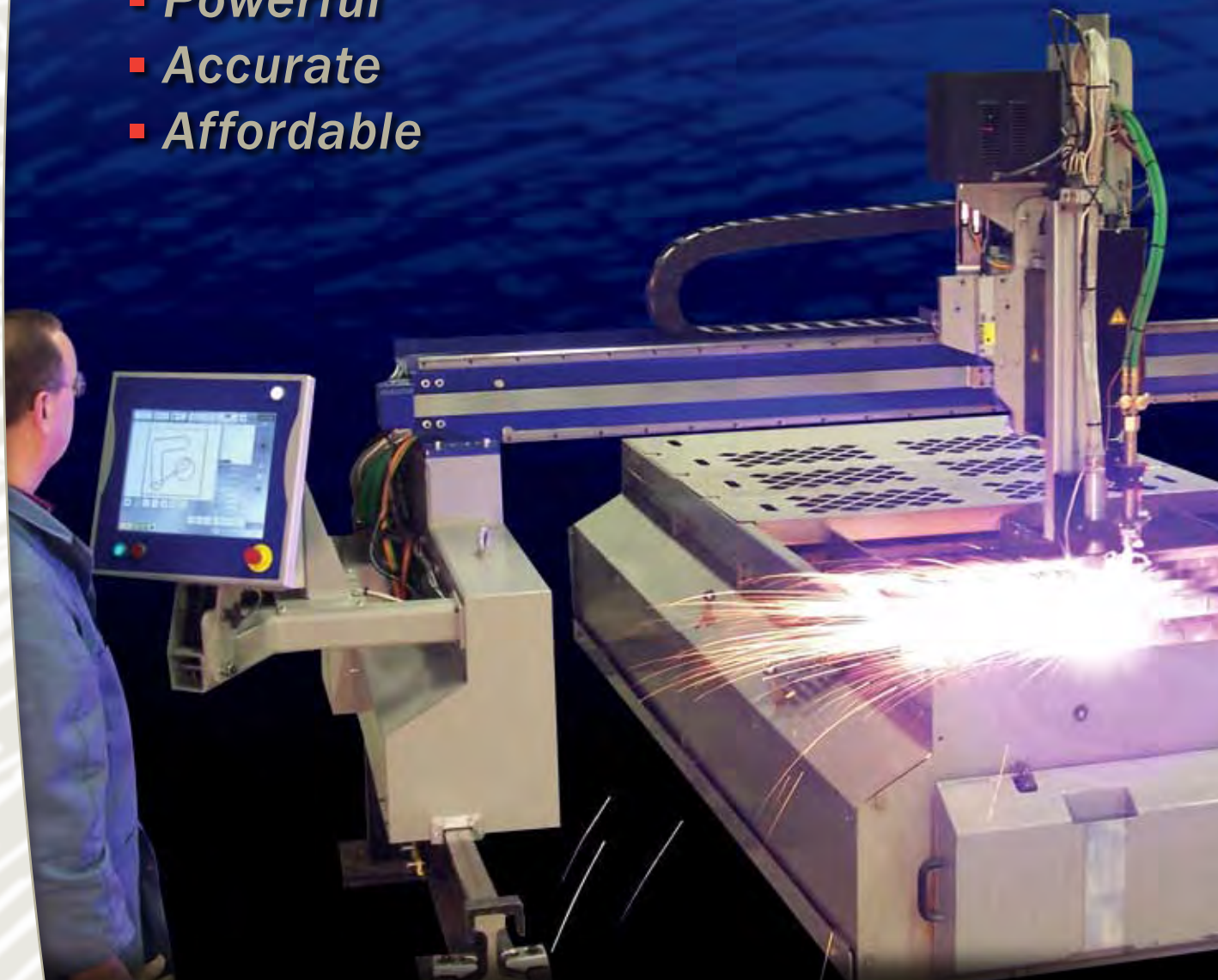


EdgeMaster[®]

Versatile plate cutting performance in an economical package.

- **Fast**
- **Powerful**
- **Accurate**
- **Affordable**

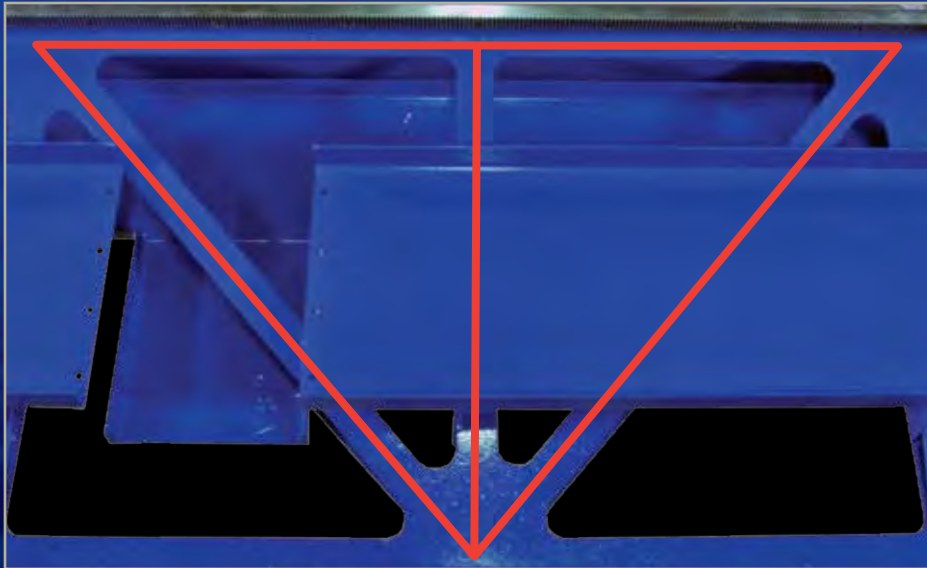


MG Systems
Your Productivity Process People[®]

MESSER 
MG Systems &
Welding, Inc.

CUTTING MACHINES CONTROLS TABLES OPTIONS

Uniquely built from the ground up to give you the best possible combination of performance and value!

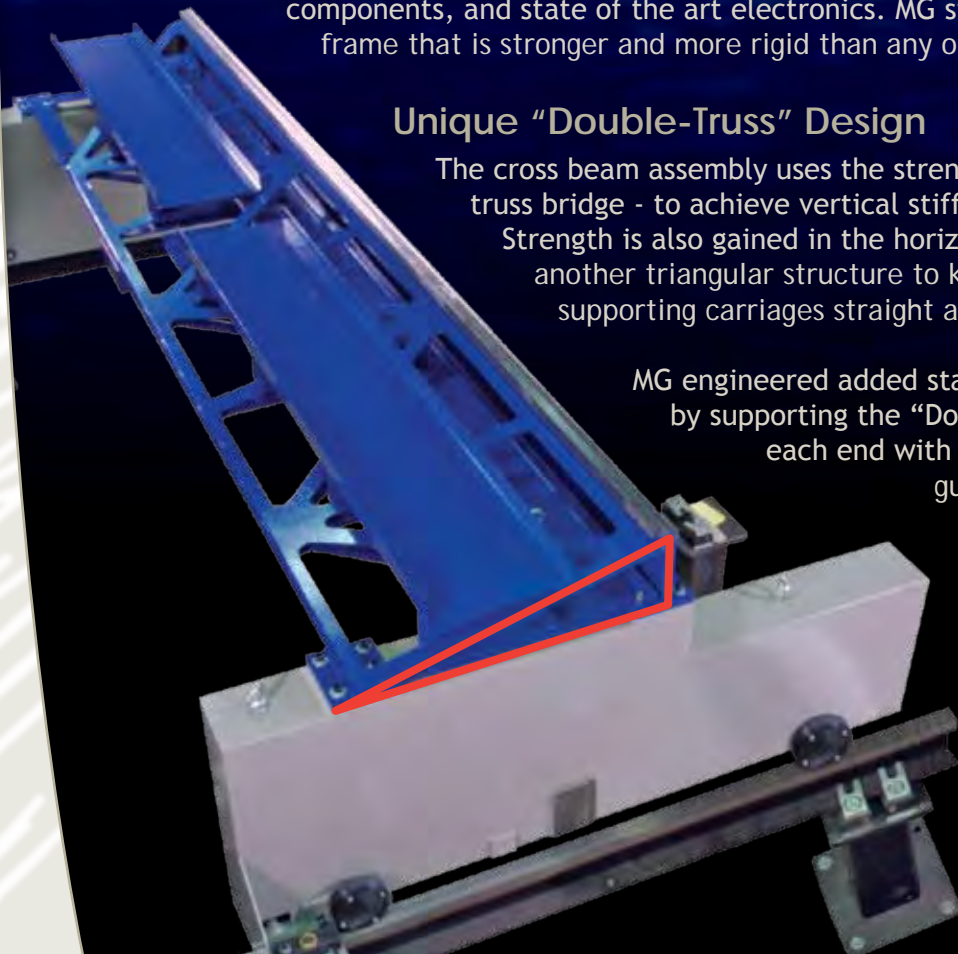


The best cutting performance comes from integrating strength, high quality components, and state of the art electronics. MG starts by building a machine frame that is stronger and more rigid than any other in its class.

Unique "Double-Truss" Design

The cross beam assembly uses the strength of triangles - just like a truss bridge - to achieve vertical stiffness, without extra weight. Strength is also gained in the horizontal direction by utilizing another triangular structure to keep the cutting tool supporting carriages straight and vertical.

MG engineered added stability into the EdgeMaster[®] by supporting the "Double-Truss" cross beam at each end with massive end trucks. The guiding side end truck is over 71 inches long, with support wheels nearly 6 inches in diameter. This rugged construction provides ultra smooth motion and accurate cut edges.



EXCELLENT CUT QUALITY THROUGH INTELLIGENT DESIGN

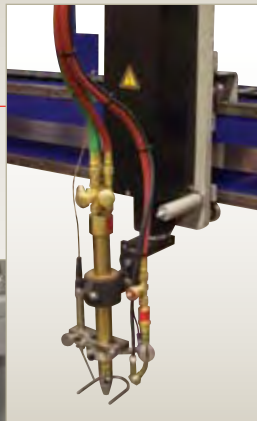
AVAILABLE TOOLS

Oxyfuel Torches

The EdgeMaster® features the superior MG TurboFlame® cutting torch. This torch provides cutting speeds up to 20% faster than other torches, regardless of the fuel gas used.

The oxyfuel torches are accurately positioned using smooth, ballscrew driven lifters. The standard TL170 (40 ipm, 6.5" stroke) and optional OL200 (150 ipm, 7.5" stroke) lifters utilize the Safe Raise Height feature in the Global Control S to increase productivity by allowing machine motion while the torch is fully retracting.

TL170 Oxyfuel Lifter



Air Scribe



Plate Markers

A marker can be added to reduce manual marking and increase productivity. Either an air scribe, punch marker, plasma marker, or powder marker, can be added to provide marks for bend lines, drill points, or weld locations.

Plasma Torches

The EdgeMaster supports a full line of both standard and precision plasma torches. With amperages from 30 to 400 amps available, plasma can be used to cut material from gage thickness through 1.5". The machine can be equipped with up to 2 plasma torches.

Precision plasmas perform well with the EdgeMaster due to the smooth drive motion and the precise height control achieved with the OL200s control system. This true arc-voltage height control system maintains consistent height over all surfaces, including warped or diamond embossed plate. Magnetic collision sensor protects the torch while cutting from damage due to obstructions.

OL200s Lifter



Magnetic Collision Sensor



For thin sheet metal MG Systems offers a roller ball height control, where pressure is applied to keep the material flat.

Oxyfuel Gas Controls

Options include Dual Hi-Low Gas Regulation or Omniflow® Automatic Gas Control.

The Dual Hi-Low Oxyfuel Regulator is manually set-up and can be adjusted for different material thicknesses.

The Omniflow® Automatic Gas Control provides automatic setting and regulation of cutting oxygen, preheat oxygen and fuel gas pressures for oxyfuel cutting. Using the Omniflow Control unit, the operator selects the torch nozzle, plate thickness, torch tip and gas type. The correct pierce parameters and gas pressures are then automatically transmitted to the Omniflow gas control module. This means even an inexperienced operator can obtain high quality cuts efficiently.



Omniflow Gas Control

Standard EdgeMaster® design features:

- Most rigid frame in its class with unique "Double-Truss" design for smooth, accurate cut edges
- Wide 1 inch face width rack and pinion drive for smooth motion in both axes
- Band drive provides flexibility through clamping of needed carriages to the band
- Robust 90 lb/yd machined crane rail ways are mounted a low 24" above floor for easy accessibility to table



Drives

- Digital AC amplifiers with an internal 32 bit microprocessor providing high quality control, and sampling times down to 62 µs
- 2.3 hp (1.7 kW) in both X axis and Y axis (*dual drives in the X axis*)
- Alpha planetary gearboxes with < 1 arcmin backlash in both the 'X' & 'Y' axes contribute to sharp corners and round holes
- Large, 4.7" diameter, hardened pinions are used in the 'X' and 'Y' axes to efficiently transmit torque to the 1.25" wide gear rack



CNC CONTROL

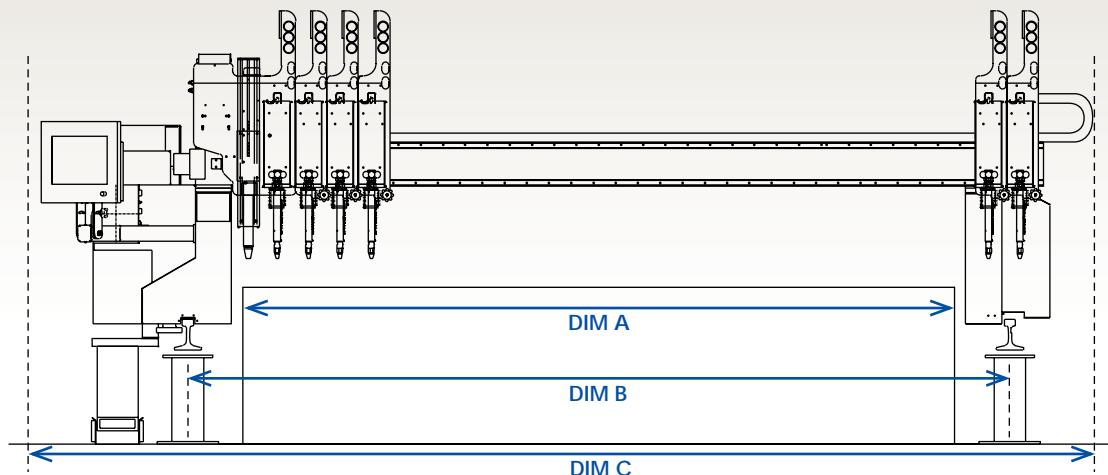
Global Control S

Over 100 years of worldwide expertise in the metal cutting industry has gone into our new PC-based control, incorporating the latest .NET technology from Microsoft®. Our easy-to-use interface and on-board material database allow operators to set up quickly and cut high quality parts time after time.



- Embedded process database makes every operator an expert
- Modern operating interface based on Microsoft® .NET technology provides flexibility for future development
- Fully Network and Internet compatible; makes remote diagnosis possible
- Central CNC computer with integrated PLC for fast operation with fewer components
- Ethernet-based I/O bus system eliminates noise interference and reduces cabling for high reliability
- Logically arranged status display increases operator productivity
- Familiar screen layout allows user to operate control with minimum instruction
- Standard shapes and nesting included
- Compact design for applications on small machines
- Developed from the proven technology of the Global Control Plus

EdgeMaster®



Model	EdgeMaster 80	EdgeMaster 100	EdgeMaster 125	EdgeMaster 150
Table Width "A" (max)	7'4"	9'-4"	11'-4"	13'-4"
Tool Coverage	6' Plate	8' Plate	10' Plate	12' Plate
Width	Full coverage of plate width shown above with first 4 torch stations.			
Length	Basic coverage length is 13', expandable in 3'-4" and 6'-8" increments to 80'			
Rail Centers "B"	9'-1"	11'-1"	13'-1"	15'-1"
Clearance "C"	12'-4"	14'-4"	16'-4"	18'-4"
Max Available Tools (per machine)				
All Cutting tools	6	6	6	6
Plasma	2	2	2	2
Oxyfuel	6	6	6	6
Marker	1	1	1	1
Oxyfuel	TurboFlame® Torch (total of 16 torch-inches); standard individual station solenoid valves machine capacity 6" thick with standard equipment			
Plasma	Systems from 30 to 400 amps			
Marker	Air Scribe, Punch, Powder, or Plasma Marker			
Materials Cut	Mild Steel, Stainless Steel, or Aluminum			
Speed	Up to 1000 IPM jog speed			
Available Options	<ul style="list-style-type: none"> Torch Ignitor, Automatic Height Control and Omniflow® for oxyfuel cutting. Support tables, including patented Slagger® self-cleaning table Laser Pointer Programming Software 			



MESSER 

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MG Systems

Your Productivity Process People®

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