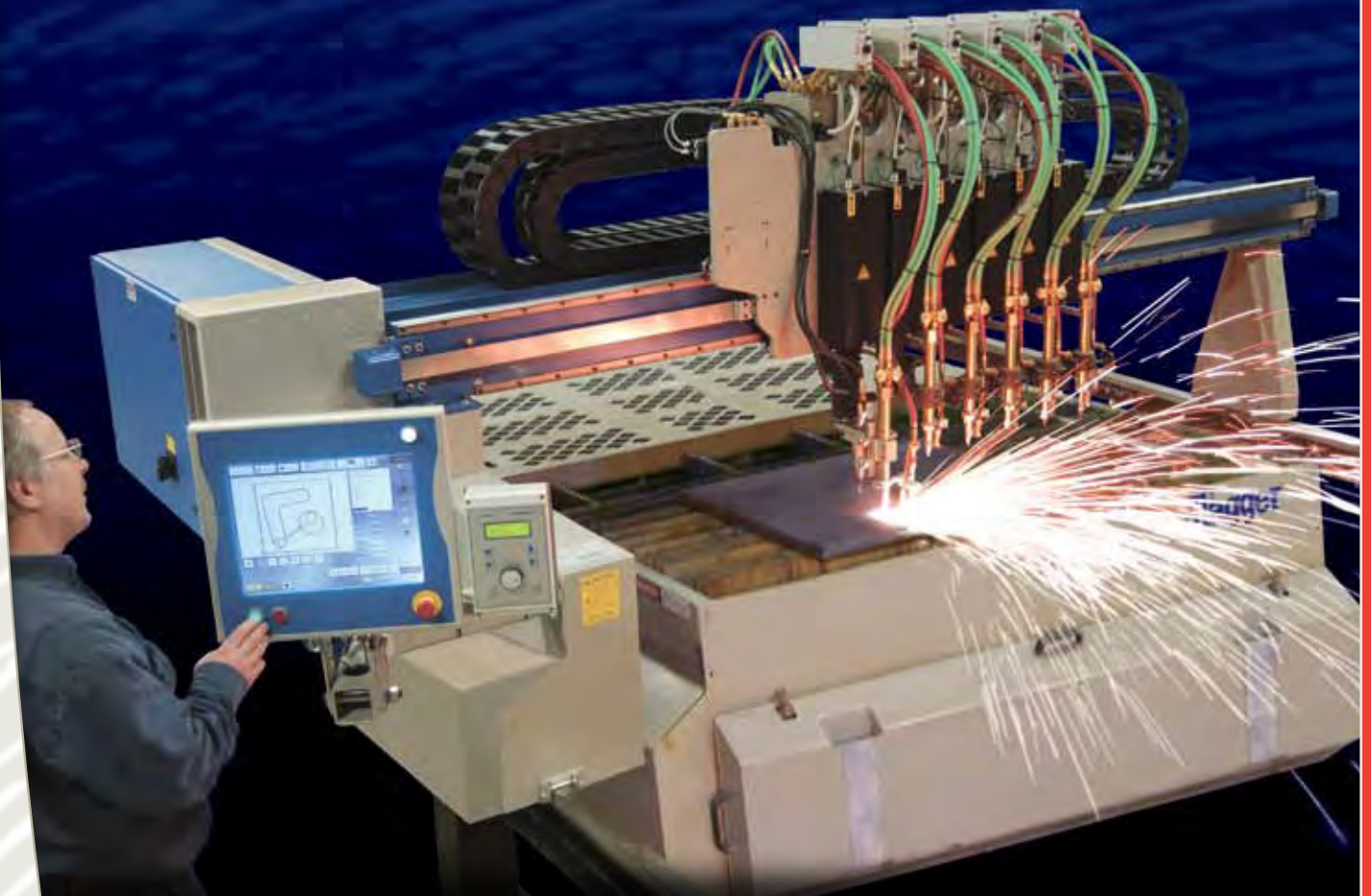


EdgeMate®

Built tough for affordable, trouble free plate cutting

- *Productive*
- *Reliable*
- *Accurate*



MG Systems
Your Productivity Process People®

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Welding, Inc.

OPTIONS

TABLES

CONTROLS

CUTTING MACHINES

FAST, ACCURATE CUTTING AT A VERY AFFORDABLE PRICE

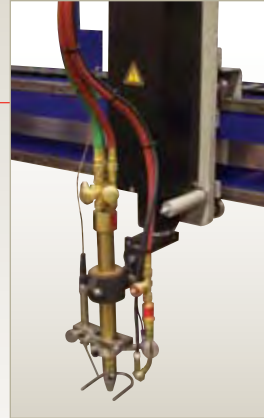
AVAILABLE TOOLS

Oxyfuel Torches

The EdgeMate® 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



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

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 EdgeMate 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 one plasma torch.

Precision plasmas can be used with the EdgeMate 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.

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

OL200s Plasma Lifter



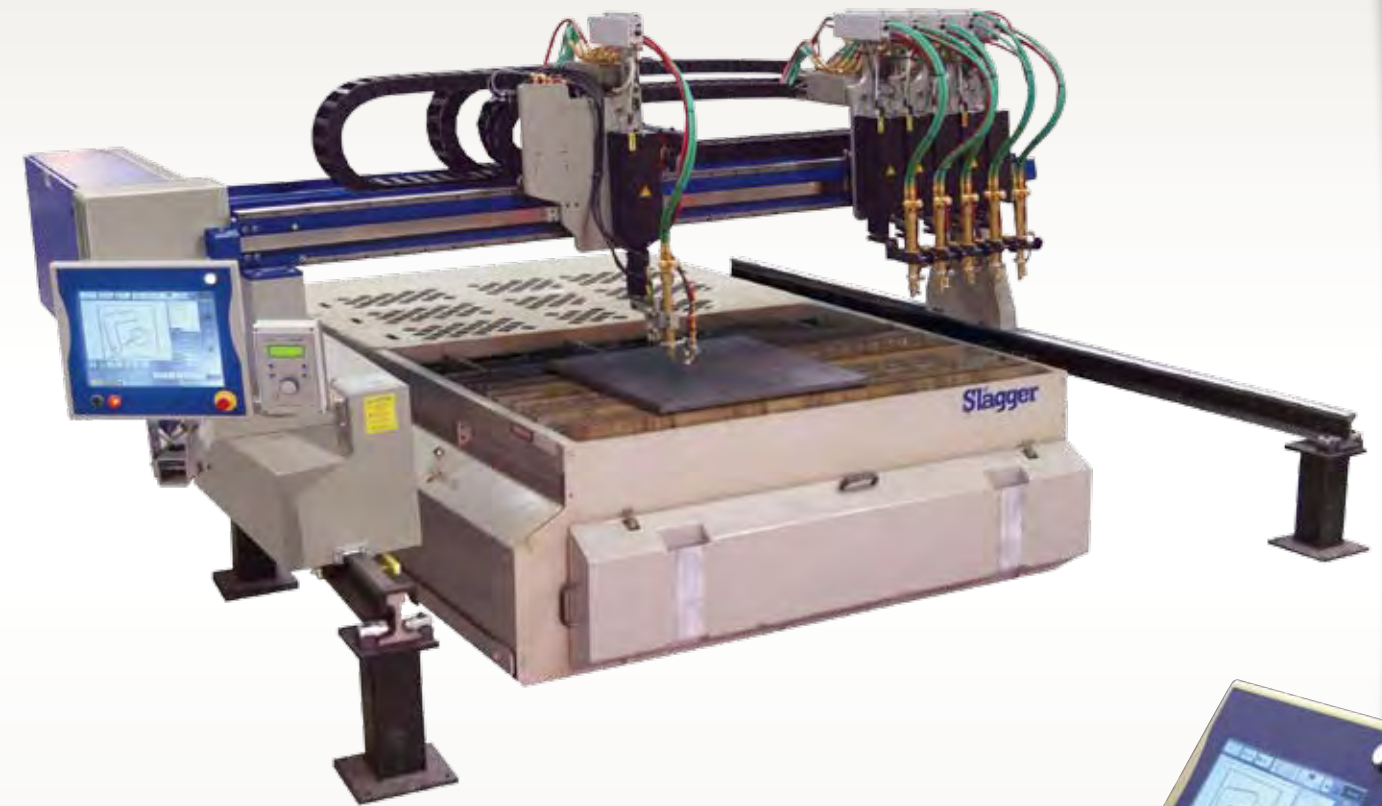
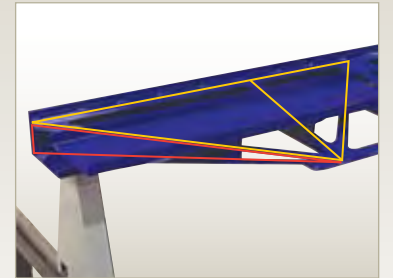
Magnetic Collision Sensor



Standard EdgeMate® 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 easy clamping/unclamping 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

"Double-Truss" design provides strength through geometry



Global Control S

- Familiar screen layout allows user to operate control with minimum instruction
- Embedded process database makes every operator an expert
- Fully Network and Internet compatible; makes remote diagnosis possible
- Ethernet-based I/O bus system eliminates noise interference and reduces cabling for high reliability

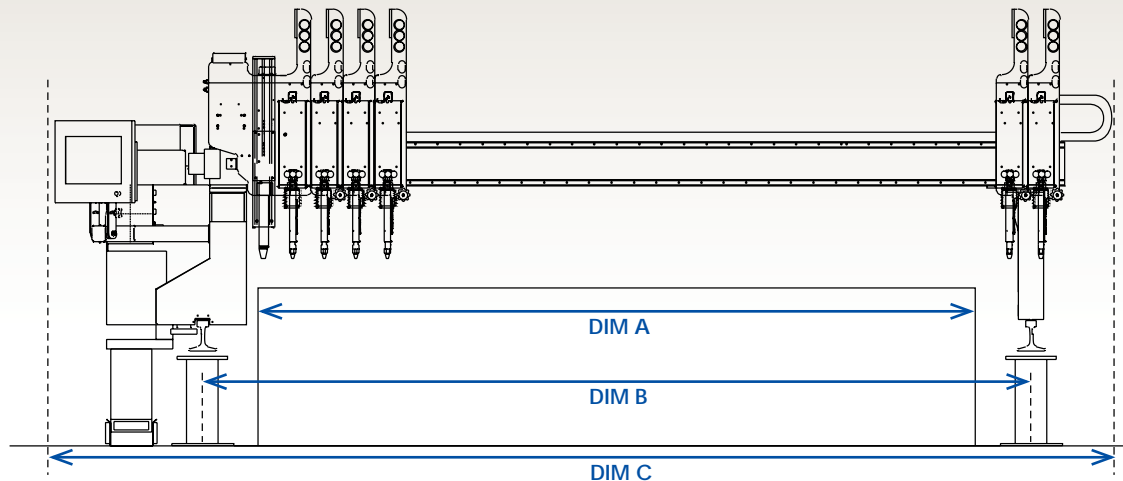


Drives

- Digital AC amplifiers with an internal 32 bit microprocessor providing high quality control, and sampling times down to 62 µsec
- 2.3 hp (1.7 kW) in both X axis and Y axis
- Alpha planetary gearboxes with < 1 arcmin backlash in both the 'X' and '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



EdgeMate®



Model	EdgeMate 80	EdgeMate 100	EdgeMate 125
Table Width "A" (max)	7'6"	9'-6"	11'-4"
Tool Coverage*	6' Plate	8' Plate	10' Plate
Width	Full coverage of plate width shown above with first 4 torch stations.		
Length	Basic coverage length is 13', expandable in 6'-8" increments to 59'-6"		
Rail Centers "B"	9'-1"	11'-1"	13'-1"
Clearance "C"	11'-6"	13'-6"	15'-6"
Max Available Tools (per machine)			
All Cutting tools	6	6	6
Plasma	1	1	1
Oxyfuel	6	6	6
Marker	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 400 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 		

* Plate width may be reduced for some high energy plasma systems, depending on support table design



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