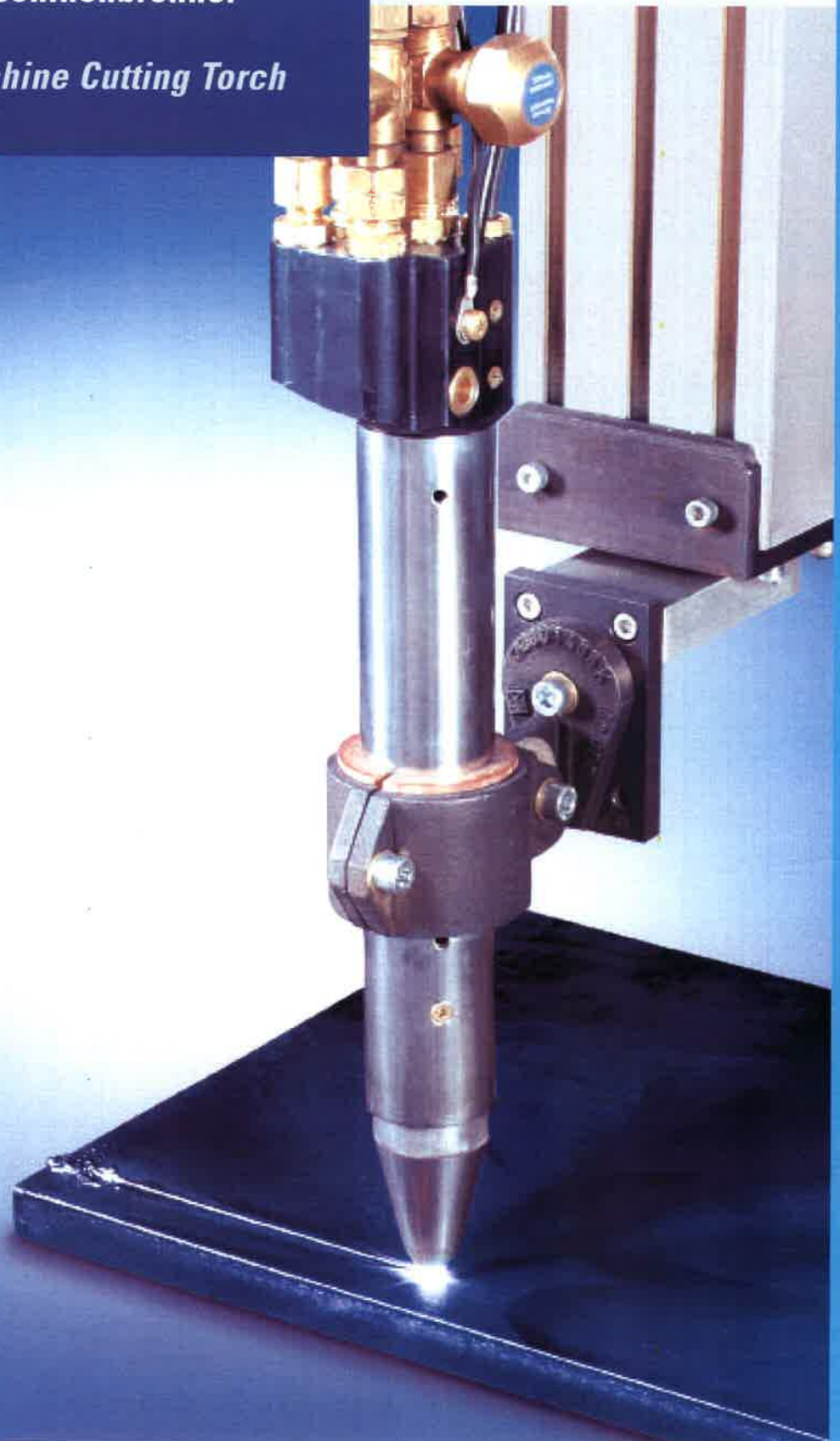


ALFA

Der Autogen-Maschinenbrenner
der Zukunft

*The Oxyfuel Machine Cutting Torch
of the Future*

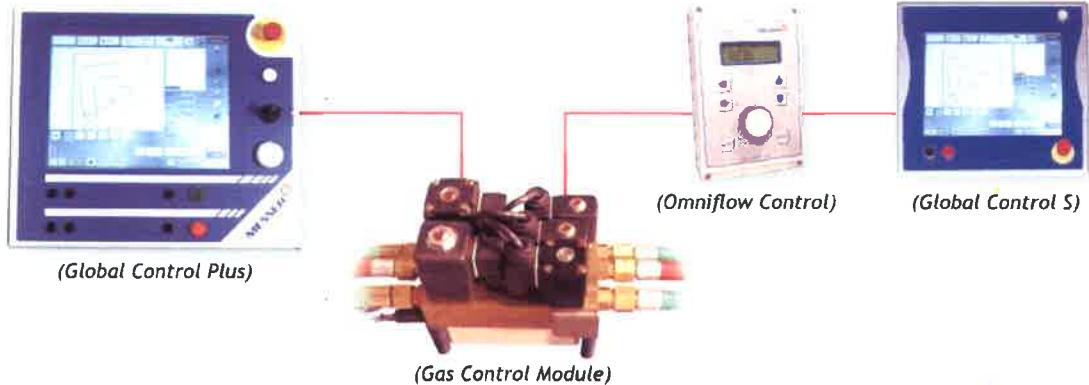


Omniflow

Automatic Gas Control System

Setup for MPC2000, Titan II, and TMC4500ST

Setup for EdgeMate® and EdgeMaster®



Overview:

The Omniflow Automatic Gas Control System 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 up to five-inch thick mild steel. The Omniflow system is designed for use with Messer TurboFlame and ALFA oxyfuel torches. The Omniflow system is integrated into the Global Control Plus, eliminating the need for an extra control. *The EdgeMate® and EdgeMaster® machines powered by the Global Control S require the Omniflow control box.*

Features and Benefits:

- Enhances operator productivity and eliminates set-up guesswork. Even novice operators can achieve good oxyfuel cutting.
- Optimizes preheat and pierce routines to reduce cycle time and improve cut quality and consistency.
- Increases tip life as the slag stream is directed away from the tip.
- Pressure sensors on input and output lines provide more effective gas control.
- Provides operator with capability to edit cutting parameters for fine-tuning of process.
- Built-in diagnostics monitor the cutting process and assist with troubleshooting.

*Note: Each Omniflow Controller delivers enough gas flow to cut up to 16 torch-inches. Therefore, two Omniflow controllers provide enough flow for nearly all oxyfuel applications by providing up to 32 torch-inches of cut.
(Torch-inches = Number of torches x plate thickness)*

Application:

Available on MPC2000, Titan II and TMC4500ST machine models or as a retrofit for these machines. Also available as part of "Plus" package on EdgeMate® and EdgeMaster®.

MESSER 

Cutting Systems

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Menomonee Falls, WI 53051

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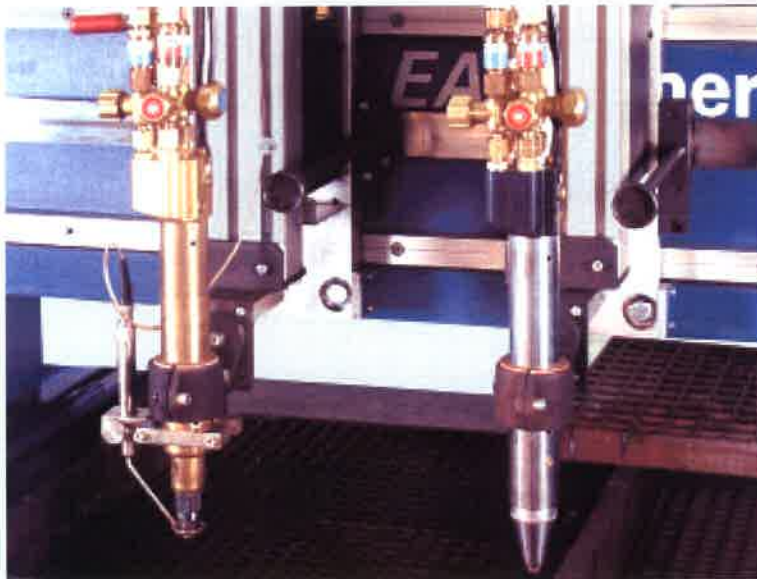
www.messercutting.com

Messer Cutting Systems
Your Productivity Process People®

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Das bahnbrechende System beim Autogenschneiden

The revolutionary system for oxyfuel cutting



gestern
yesterday

heute
today

Voll integrierte Höhenabta- stung ohne Anbauteile

- im Brenner integrierte magnetische Abtastung
- Abtastring und zusätzliche Kabel entfallen:
kein Abtastring-Verschleiß,
kein Abtastring-Wechsel
bei verschiedenen
Materialdicken
- bessere Materialausnutzung
durch optimale Abtastung
auch im Randbereich
- keine Beeinträchtigung
des Abtastverhaltens
durch Feuchtigkeit,
Schlacke, Walzhaut, etc.
- digitale Anzeige der
aktuellen Betriebszustände

Schnellwechsel von Düsen

- Schnelldüsenwechsel
ganz ohne Werkzeug
- Dejustieren des Brenners
beim Düsenwechsel ist
ausgeschlossen
- reduziert Nebenzeiten
erheblich

Totally integrated height sensing with no external parts

- magnetic height sensing
integrated into the torch
- no need for sensing ring
or additional cables and
thus no sensing rings to
wear out: no need to
change sensing rings
for different material
thicknesses
- able to sense right up to
the very edge of the plate;
giving optimum material
utilisation
- slag, mill scale or moisture
no longer have any nega-
tive effect on the height
- digital display of the
current operating status

Quick-change nozzles

- no need for tools to
change nozzles
- the risk of misaligning
the torch when changing
nozzles is thus eliminated
- drastically reduces set-up
times



Kappen per Hand losdrehen und die
Innendüsen sind schon frei.
*Unscrew the cap by hand and the
nozzles are free.*



SensoMat® ALFA

MESSER 
Cutting Systems

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Part of the Messer World ■■

Global Control^{plus}

Globally Developed For Worldwide Use

- *Enhanced Operator Interface*
- *Advanced Technology*
- *High Reliability*
- *Ease of Use*



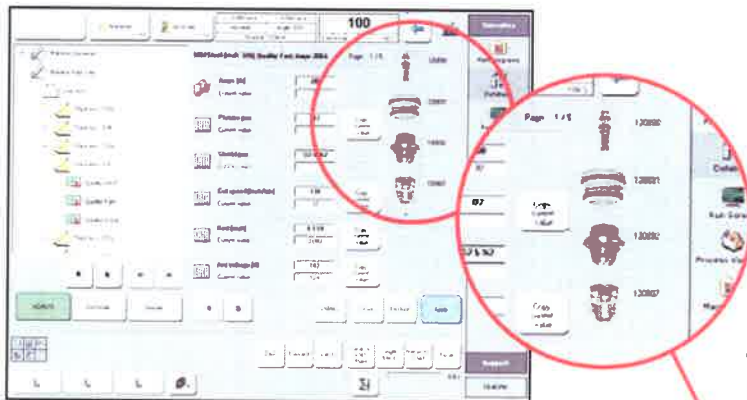
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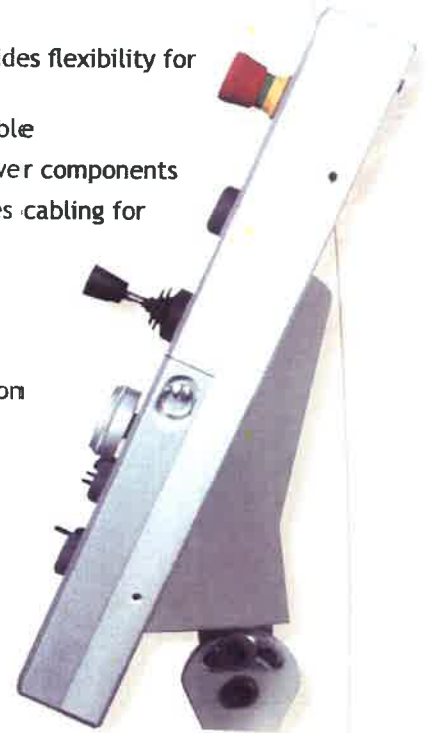
CUTTING MACHINES CONTROLS TABLES OPTIONS

Global Control^{plus}

- 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
- Fiber optic cable 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
- Feed-rate override dial and 8-position joystick for operator intervention
- Standard shapes and nesting included



Cutting parameter database (plasma/oxyfuel) with display of consumables makes process set-up quick and error-free



CUTTING MACHINES

CONTROLS

TABLES

OPTIONS

TECHNICAL DATA

Operating System	Windows® XP Professional
Display	15" TFT color touch-screen
Processor	≥ Pentium®, 2.4 GHz
Hard Drive	≥ 40 GB
No. of axes	32 max. Interpolated
Tool Stations	Up to 6 standard, expandable to 14
Cycle Time	2 ms
Input/Output (max.)	> 100,000 possible
Graphical Editor	Yes
Bus System	Fiber Optic
Part Program Size	Effectively Unlimited
Network Ready	Yes
USB Port and CD/DVD Rom	Yes
Ambient Temperature	32°-122° F (0°-50° C)

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