

# Automatic Gas Control Option - The OmniFlow®

Increase productivity with an MG Automatic Gas Control System

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 5" thick mild steel. 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.* Just set the thickness and the OmniFlow does the rest.

Setup for MPC2000, Titan II,  
and TMC4500ST



(Global Control Plus)

Setup for EdgeMate® and EdgeMaster®



(OmniFlow Control)



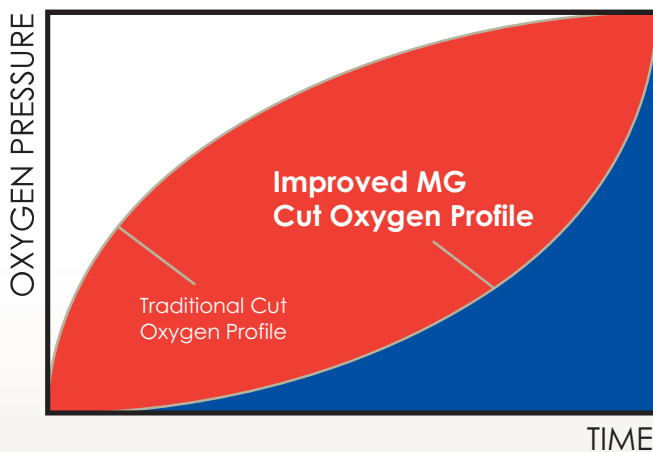
(Global Control S)



(Gas Control Module)

## Messer Provides the Correct Piercing Procedure Through OmniFlow®

Traditional methods of controlling the cutting oxygen use a needle valve. This produces high pressure very quickly in the piercing process. This is exactly the opposite of what is required for productive, efficient piercing. The Messer method yields a slow rise to the final pressure as shown below, allowing an operator to pierce and cut without any operator intervention.



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**Messer Cutting Systems**

*Your Productivity Process People®*

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CUTTING MACHINES

CONTROLS

TABLES

OPTIONS

# TurboFlame® Oxyfuel Torch

*Advanced Technology Oxyfuel Torch for Faster Cutting*

- *High Speed Cutting*
- *Lower Operating Cost*
- *Highest Cut Quality*
- *Easy Maintenance*



**Messer Cutting Systems**  
*Your Productivity Process People®*

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Cutting Systems

CUTTING MACHINES CONTROLS TABLES OPTIONS

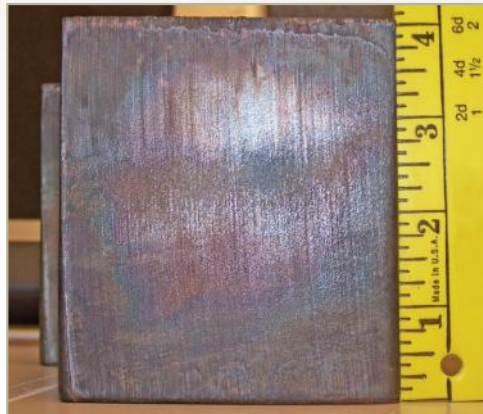
# TurboFlame® Torches Increase Your

## TurboFlame® - Industry Leading Cut Speeds

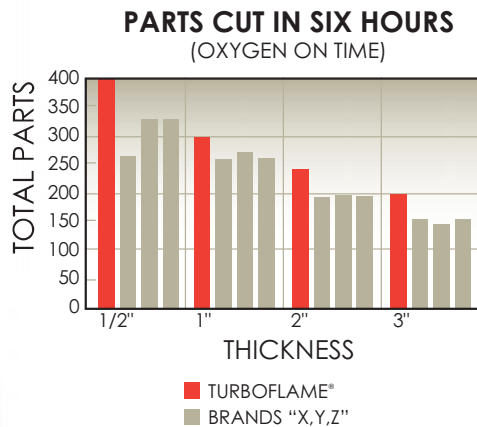
- Cuts up to 20% faster than other torches.
- Uses any fuel gas with no change in cut speed or quality.
- Lower oxygen consumption for utility savings.
- High quality parts can be pierced and cut with even an inexperienced operator when the OmniFlow® gas regulation system is used to control the torch gases (see back page).
- Long lasting nozzles for reduced time spent changing consumables.



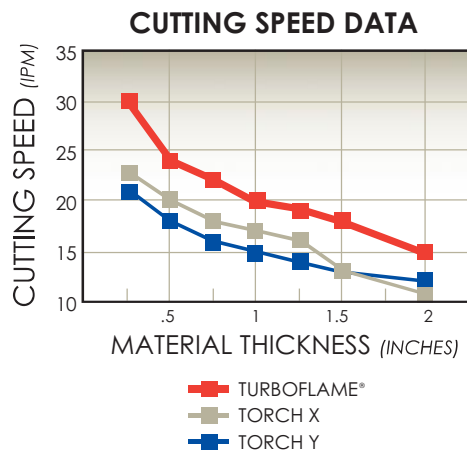
Only 4 sizes of nozzles and no nut change are required to cut material from 1/4" to 3" thick.



TurboFlame® provides excellent cut quality even with thick plate



High cutting speed means more parts can be cut. This chart shows the total number of 4" x 8" parts that can be cut in six hours of cutting time with the TurboFlame® torch versus other popular brands.



The TurboFlame® torch cuts at higher cutting speeds than other popular brands.



# our Cutting Output With Any Gas

## Advantages of the TurboFlame® Torch

- The torch is ruggedly constructed from carefully selected materials including chrome plated nozzles and nozzle nuts to guarantee long life.
- TurboFlame's safe design prevents flashbacks, even when piercing thick materials, or when the nozzle is accidentally hit by the work piece. Check valves are included with each torch.
- The cutting capacity of the torch extends from 1/8" to 12" material simply by changing the cutting nozzles and nozzle nut.
- Torch Types - 10" and 18" long torches for general profile cutting.
- Usable with many fuel gases including Acetylene, MAPP, Natural Gas, Propane, and Propylene.
- The TurboFlame has three inlet hoses for independent control of piercing and cutting oxygen.

Thickness (Inches)	Cutting Speed (IPM)
1/4	28
1/2	23
1	18
2	14
4	11
6	9
8	7
10	5
12	4

Conservative values for cutting low carbon steel using propane gas. Minimum Oxygen purity is 99.5%. Please consult MG Systems and Welding for information using other fuels or steel alloys.



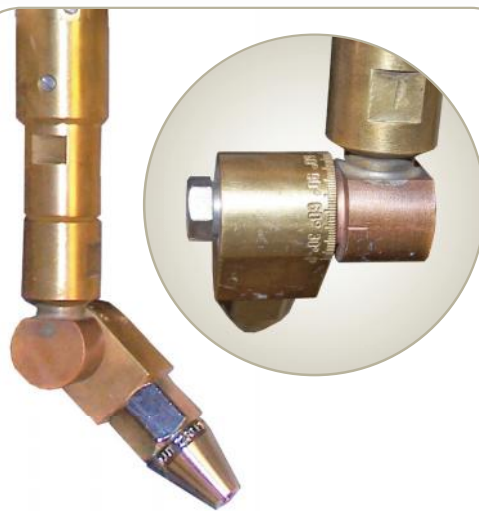
*Nozzle opening apertures vary for cutting from 1/4" to 3" thick. All nozzles in this range utilize the same nozzle nut.*

## The TurboFlame® Torch can be equipped with these useful accessories



### Strip Cutting Attachment

This accessory splits the torch into two cutting heads, to allow the cutting of strips from 1 1/4" to 12" wide. Maximum material thickness is 2 1/4".



### Swivelling Torch Head

This accessory allows the tilting of the cutting nozzle up to 90° in each direction to make straight line bevel cuts. Maximum material thickness through the bevel is 10".