

# MPC2000



## The MPC2000 Offers

- Superior cut part quality in a large-gantry format
- High accuracy and repeatability
- High productivity
- Multi-process capability

## Productivity

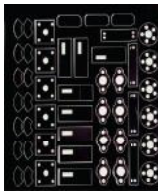
- Torch lifts are fully controllable through the PC-based CNC control. Retract position after each cut can be set to various heights - including no raise at all.

## Torch Raise Pattern

Changes in height occur at 880 ipm and positioning between parts is at 1000 ipm, greatly reducing cycle time.

Programmable torch height with fast lifter speeds reduces cycle time.

- ARC ON TIME
- POSITIONING TIME



This nest of parts was cut from a four-foot square with the 21% productivity gain.

## MPC2000 (time in minutes)

ARC ON TIME POSITIONING TIME

## MPC2000 Options

<b>Tool Coverage</b>	Width - from 8" to 26" Length - from 6" to 100"
<b>Tools Available</b>	TurboFlame or ALFA oxyfuel torch Beveling - plasma and oxyfuel including the Global Rotator Delta Plasma Bevel Unit Conventional Plasma systems from 100 to 760 amps Precision Plasma up to 260 amps Punch, Plasma, Powder, Ink Jet or Air Scribe Marker Electric Drill, Laser Pointer, Video Camera
<b>Material Thickness Capacity</b>	Zega, to 6", depending on cutting process used
<b>Materials Processed</b>	Steel, stainless steel, or aluminum
<b>Control Type</b>	PC based Global Control Plus

## Messer Commitment

### Quality Certification

Your assurance of Messer commitment to superior craftsmanship.

### Worldwide Support

Technical support helps our customers get the most productivity from their cutting machines.

### Virtual Service™

Remote diagnostics. It's like having our service department at your side, allowing interactive data communication over an internet line.

### Sentry Service™ PM support

Our preventive maintenance (PM) program keeps all your Messer machines running like new, which ensures maximum uptime, greater efficiency, and lower operating costs.

## Experience

Over 100 years of worldwide experience in the thermal cutting machine industry, combined with our customer-first philosophy, is the foundation for Messer's reputation for high quality and reliable solutions for your cutting needs. That commitment is shown in the precision cutting and durability of our machines. As a long-time AMT member, Messer holds machines to the exacting standards of the Machine Tool Industry.



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## Messer Cutting Systems Your Productivity Process People®

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Cutting MACHINES CONTROLS TABLES OPTIONS

# MPC2000

## Precision Cutting System

- Advanced Technology
- Large-Format Precision Processes
- Contour Beveling
- ISO 230-2 Accuracy Standard



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Cutting MACHINES CONTROLS TABLES OPTIONS

# MPC2000 - Large Gantry Precision Cutting System With Proven Performance

The MPC2000 is a large-gantry, precision multi-process cutting machine enhanced with programmable PL-L lifters. Powerful AC drives provide high performance and productivity. Heavy-duty construction allows 24/7 operation.

## This Professional-Grade CNC Control Makes Every Operator an Expert

It incorporates many years of Messer worldwide knowledge in a user easy-to-use operator interface using Windows® and PC-based CNC.

- Embedded process database for plasma and oxyfuel
- 15" TFT color touchscreen
- Fiber-optic I/O Bus Communication System
- Eight position joystick
- Hand wheel/feed rate override
- Standard shapes, nesting, and networking
- Many more features also included



(some features shown may be optional)

## Standard Feature Summary

- 8" to 26" cutting width and more than 100" cutting length
- Machine motion accuracy to +/- .010" with repeatability of +/- .003" in any 72" move
- Positioning speeds up to 1000 ipm with acceleration up to 32" per sec<sup>2</sup>
- Contouring speeds up to 400 ipm for faster cutting
- Dual beam construction • front process beam is separate from rear utility beam for vibration isolation
- Up to 4 plasma torches, 2 markers and 4 oxyfuel torches
- Rigid or left hand mounted control console with tilt and swivel for operator comfort
- Right, left, floor or overhead powerpack for installation flexibility
- High-speed PL-L lifter (880 ipm) with arc voltage height control and infinite adjustable programmable retract (only offered by Messer)
- Torch/stand station collision protection with easy and accurate reset
- Multiple reference point positions for efficient start-out-cut locations
- Advanced oxyfuel technology provides consistent piercing and faster cutting
- Remote start-stop for Messer Dust Collector and most plasma cutters
- Designed and manufactured in the USA to machine tool standards

X-Axis Drive



Shown with cover removed

Y-Axis Drive



Shown with cover removed

## Multiple Processes for Maximum Versatility

The master carriage will support up to five processes for operational flexibility:

- Precision Plasma
- Oxyfuel
- Markers
- Conventional Plasma
- Drill
- Tap



## Multi-Torch Cutting for Maximum Productivity

Slave carriages can be added to support the same processes that are present on the Master Carriage to improve productivity through simultaneous multi-torch cutting.



Removable Operator Guard (optional)

## Robust Electrical Construction for Long-Term Reliability

- Cables are shielded to protect from RF noise
- All components and wires are identified and correspond with the included schematics
- Each machine has its own set of schematics
- Air conditioned electrical cabinet (optional) for higher ambient temperatures



## Operator Convenience

- Optional auto gas consoles available on some plasma systems
- Plasma and oxyfuel gas consoles in one location
- Operator control console tilts and swivels
- Lost cut recovery • reposition to any pierce point
- Operator station located either left or right side of machine
- Omnilow gas control allows repeatable oxyfuel cutting by inexperienced operators



## Rigid Support Structure Yields Smooth Cuts

Rear support beam is isolated from the front beam to provide rigid process support for smooth cuts.

## Accuracy Verified to Independent Standards to Assure Performance

Only Messer Cutting Systems use the exacting measurement standards of the Machine Tool Industry to ensure motion accuracy and repeatability of the MPC2000 via laser interferometer to ISO 230-2

