



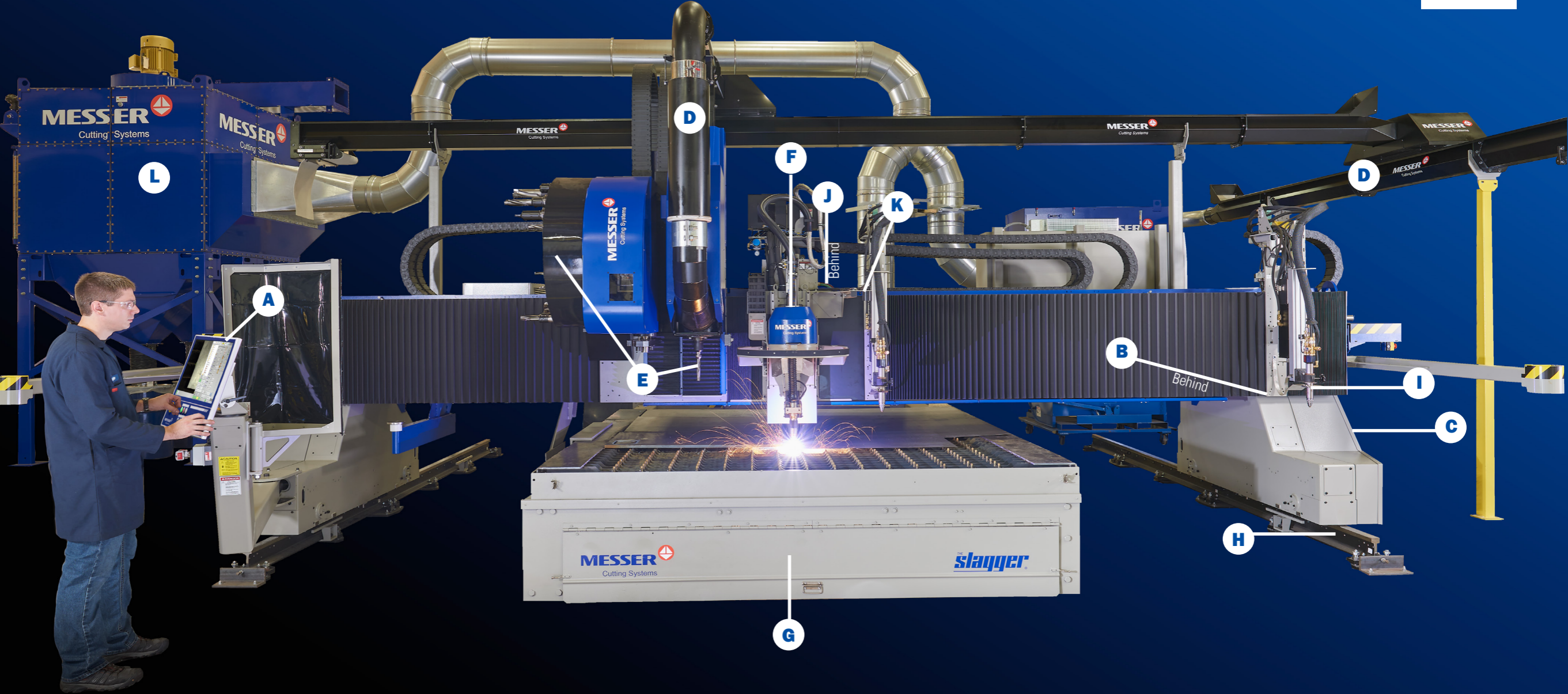
# MPC2000 MC

## DRILLING AND MILLING POWERHOUSE

**MESSER**   
Cutting Systems

# THE MPC2000 MC LARGE GANTRY PRECISION CUTTING AND MACHINING SYSTEM IS A DEPENDABLE, ROBUST WORKHORSE WITH EXCEPTIONAL PERFORMANCE.

Scan to watch the MPC2000 video



# HIGHLIGHTS



**A**

## GLOBAL CONTROL<sup>Plus</sup>

Easy-to-use, feature rich, Windows® interface. The Global Control<sup>Plus</sup> is a compact touch screen process database featuring custom shape library, CAD import, and true-shape nesting. Virtual Service puts Service experts one push button away. Easy to learn functions allow employees to become expert operators in minutes.



**B**

## LINEAR WAYS AND STEEL WELDED BEAM

Precision linear ways with ball runner blocks in the Y-Axis. Coupled with the reinforced steel welded beam with the beam having less than .062" bending deflection and .1 degree of twist provides greater stability for smooth accurate cut quality



**C**

## DRIVES

Powerful, precise, 21 HP drives for the X and Y-Axis, provide smooth accurate motion for excellent cut quality,



**D**

## CHIP EXTRACTION

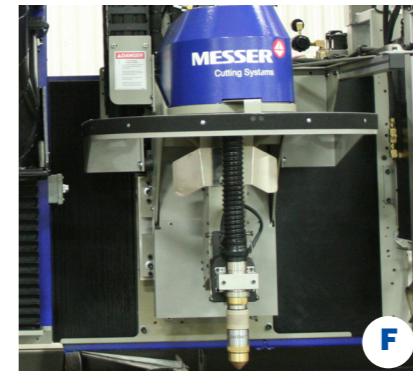
High power vacuum and collection system for a cleaner work environment.



**E**

## 2.5" DRILL AND 24 POSITION ROTARY TOOL CHANGER / MILLING

Featuring a CAT 50 Spindle. Maximum drill diameter is 2½". Maximum tapping to 1 1/2" diameter. The MPC200 MC offers milling capabilities making it an all-in-one machining center.



**F**

## DELTA® OR GLOBAL INFINITY ROTATORS

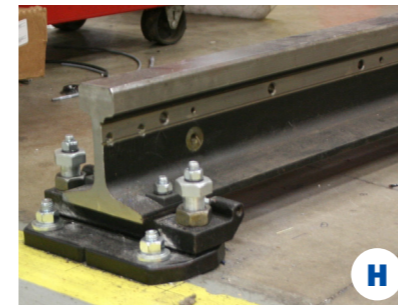
Cut edges of +45° through -45°. Complete with bevel programming software and training, for superior bevel cutting. (Optional)



**G**

## THE SLAGGER® TABLE & BLADE

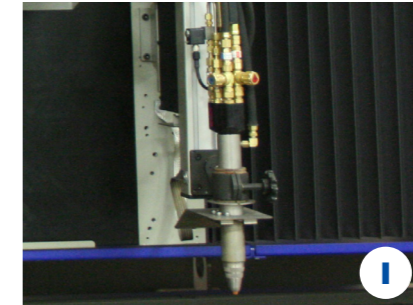
Heavy-duty zoned and ducted table with push-button automatic cleaning. Spend more time cutting and less time cleaning. (Optional)



**H**

## X-AXIS RAIL SYSTEM

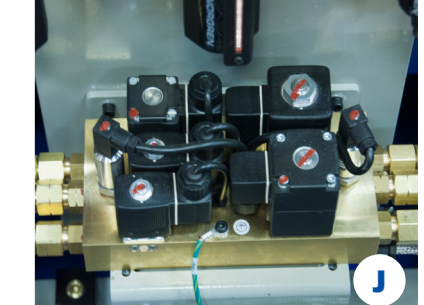
Oversized floor mounted rail provides a rigid foundation for smooth machine motion. Fast, accurate installation is assured with Messers exclusive precision leveling and alignment pads.



**I**

## ALFA OXYFUEL TORCH

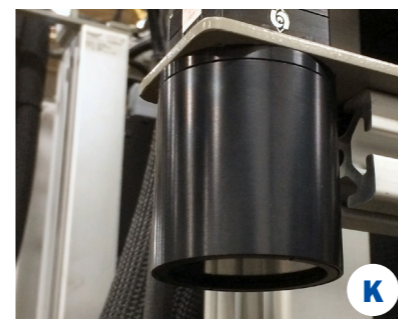
Fast oxyfuel cutting with integrated height sensing and ignition. No probes to burn up or external ignitors to fail. Coupled with our SL-Series lifter, designed for harsh environments, let's you spend more time cutting and less time in setup. (Optional)



**J**

## OMNIFLOW

Allows operators to concentrate on cutting instead of torch setup and adjustments. Internal database makes a novice operator an expert in minutes. Less scrap and setup time means more profit. (Optional)



**K**

## VIDEO CAMERAS

On-board video camera can align tools and monitor the cutting process. The image is conveniently displayed on the 24" color screen of the Global Control Plus. Video cameras are available for digital or manual plate alignment. (Optional)



**L**

## DUST COLLECTORS

Together with our partners we offer the highest quality dust collectors specially designed for Messer cutting machines and for the health and safety of your shop. A dust collector is mandatory for chip extraction.



## MARKERS

Marking techniques can be added for secondary operations using: Plasma, Air Scribe, Pneumatic Punch, Zinc Powder, Ink-Jet, and Telesis® Pinstamp® (Optional)

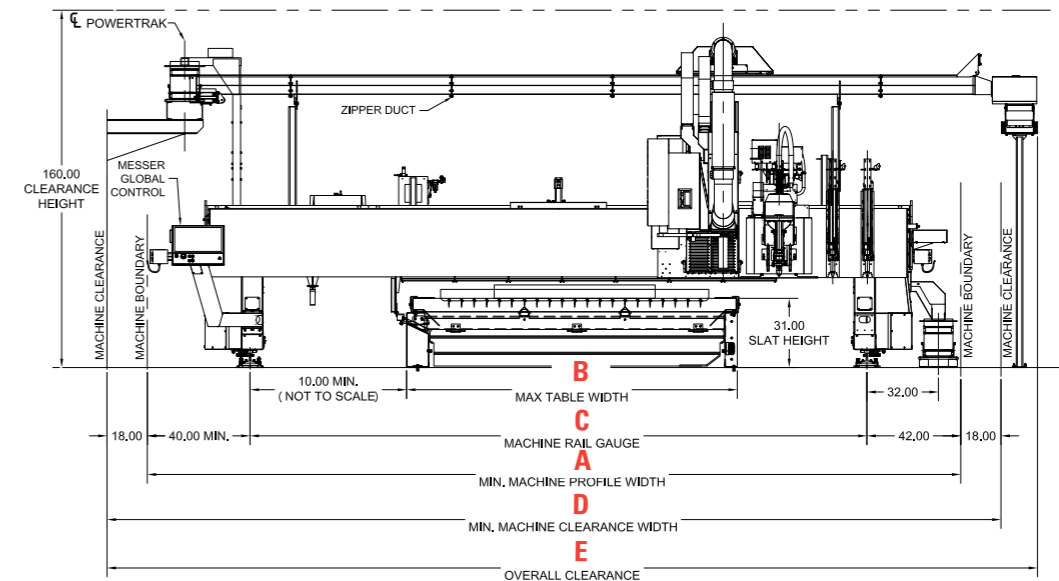
# MPC2000 MC

The **MPC2000 MC** features greatly enhanced drilling, tapping and milling capability, more robust design, and higher acceleration drives. The new drilling and milling chip high-suction vacuum system coupled with the Slagger® self-cleaning table makes the work surface and work area, cleaner and prevents chips from flying off the surface of the table. Also, there is a collection hopper for recycling steel chips.

The **NEW** and improved MPC2000 MC is two machines in one producing the best cut parts available on the market. Using the enhanced machining process allows the ability to drill, tap or mill critical internal features. External features are cut with the plasma or oxyfuel torch, all without moving the part to another piece of machining equipment. This machine has a multi-process capability including plasma and oxy-fuel cutting, bevel cutting, and marking, all coupled with OmniWin software.

## MPC2000 MC MODEL MEASUREMENTS

Model	A Machine Min. Profile	B Max Table Width	C Machine Rail Gauge	D Min. Machine Clearance	E Overall Clearance
<b>MPC2012 MC</b>	228.00	160.00	180.00	288.00	306.00
<b>MPC2014 MC</b>	252.00	184.00	204.00	312.00	330.00
<b>MPC2016 MC</b>	276.00	208.00	228.00	336.00	354.00
<b>MPC2018 MC</b>	300.00	232.00	252.00	360.00	378.00
<b>MPC2020 MC</b>	324.00	256.00	276.00	384.00	402.00
<b>MPC2022 MC</b>	348.00	280.00	300.00	408.00	426.00
<b>MPC2024 MC</b>	372.00	304.00	324.00	432.00	450.00
<b>MPC2026 MC</b>	396.00	328.00	348.00	456.00	474.00
<b>MPC2028 MC</b>	420.00	352.00	372.00	480.00	498.00



### Operator Convenience.

- Plasma and oxyfuel gas controls located in Global Control<sup>Plus</sup>.
- Oxyfuel auto pierce control.
- 20 home positions for multiple start points.
- Lost cut recovery - can reposition to any pierce point.
- All auxiliary functions located at operator station.
- Operator station may be on left or right side as control console swivels and tilts on slide rail for easy viewing.
- Optional riding platform for operator comfort.

### Powerful, smooth, accurate, motion yields high quality cut parts.

- Twin 21 HP AC drives for the X-Axis and one for the Y-Axis.
- Ultra smooth planetary gear boxes.
- Large diameter pinion with full face width contact.
- Air-over-oil pitch line engagement for smooth motion.
- 90 lb/yd machined crane rail for longitudinal ways in X-Axis.
- Linear motion Y-Axis ways for maximum stability.

# STANDARD FEATURES

- Cutting widths 12 ft. to 28 ft.
- Cutting lengths up to 200 ft.
- Cut 26 ga. to 8" thick plate.
- Cuts mild steel, stainless steel, aluminum.
- Machine motion accuracy of +/- .010" with repeatability of +/- .003" in any 72" move, measured with a laser interferometer.
- Contouring speeds up to 400 ipm.
- Positioning speeds up to 1400 ipm with acceleration up to 32" per sec<sup>2</sup>.
- Drilling up to 2½" diameter.
- 24 tool rotary changer.
- Tapping up to 1½" diameter.
- Global Control<sup>Plus</sup>, a Windows<sup>®</sup> based operating system with easy to use operator interface.
- Multiple reference point positions for efficient start-of-cut locations.
- Right or left hand mounted control console with tilt and swivel for operator comfort.
- Right or left, overhead powertrack for installation flexibility.
- Right or left chip extraction system.
- SureStop Collision Sensor with easy and accurate reset.
- High-speed PL-1 lifter (880 ipm) with arc voltage height control and infinite adjustable programmable retract (only offered by Messer).
- Virtual Service<sup>™</sup> remote consultation and diagnostics.
- Dust collector required for chip extraction.
- Designed and manufactured in the USA to machine tool and ISO 230-2 standards.
- UL / CUL.

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# OPTIONAL FEATURES

- Precision plasma up to 800 amps.
- Plasma beveling units: Infinity, Delta<sup>e</sup>, and Manual Plasma Stripping Bevel Unit for X-Axis.
- Up to four straight plasma torches.
- Oxyfuel bevel units: Single Position, Triple Position, Contour, and DAF/L.
- Oxyfuel torches: Turbo Flame<sup>™</sup> or ALFA; up to eight straight torches.
- Lifters: SL Series for Oxyfuel, PL-1 Plasma Lifter with SureStop Collision Sensor, SensoMat<sup>®</sup>-PAN.
- Advanced oxyfuel technology with Omniflow automated gas regulation system.
- Auto torch spacing with programmable torch selection.
- FT100 Torch ignitor, and automatic height control for oxyfuel systems.
- Dual Hi-Lo for oxyfuel.
- Plate markers: Plasma, Air Scribe, Pneumatic Punch, Zinc Powder, Ink-Jet, Rotary Marker, and Telesis<sup>®</sup> Pinstamp<sup>®</sup>
- Video cameras: Digital and Manual Plate Alignment.
- Laser Pointer.
- Global Reporter.
- Programming and nesting software.
- Milling.
- Operator glare curtain.
- Pull Cord and Photo Eye E-Stops.
- Plasma Air Booster.
- Rotary rail cleaners with rack air purge.
- Operator riding platform.
- Zoned and ducted exhaust tables, including self-cleaning Slagger<sup>®</sup>.
- Rotary Pipe and Tube cutting system.
- Exhaust ducting kit.
- Sentry Service Preventative Maintenance Program.