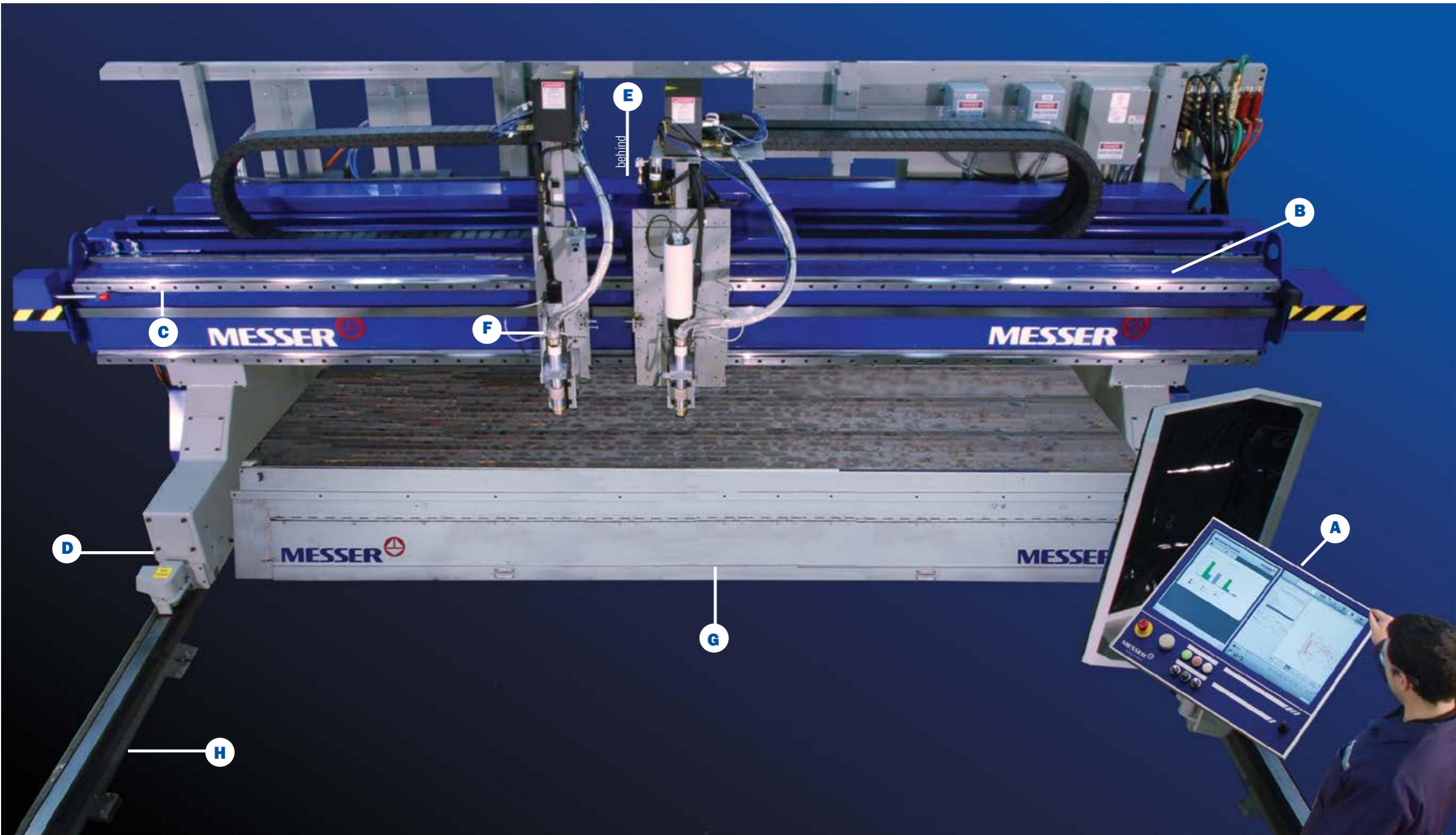




MPC2000 PRECISION CUTTING SYSTEM

MESSER 
Cutting Systems

THE **MPC2000** LARGE GANTRY PRECISION CUTTING SYSTEM IS A **HEAVY-DUTY WORKHORSE WITH PROVEN PERFORMANCE**



HIGHLIGHTS



A

GLOBAL CONTROL ^{Plus}

Easy-to-use, feature rich, Windows® interface. The Global Control Plus has a 24" touch screen with multiple process databases. A few of the key features include custom shape library, true shape nesting and productivity monitoring. Remote diagnostics and applications support are available with a push of a button. Easy to use functions allow operators to become experts in minutes.



B

STEEL WELDED BEAM

Reinforced steel weldment construction with beam having less than .062" of deflection and .1 degree of twist provides greater stability for smooth accurate cut quality.



C

LINER WAYS

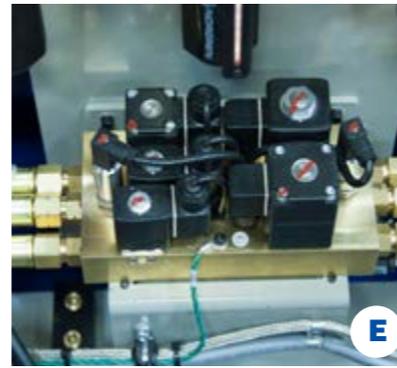
Precision linear ways with ball runner blocks in the Y-Axis.



D

DRIVES

Powerful, precise, 6 HP drives for the X and Y-Axis, provide smooth accurate motion for excellent cut quality and accuracy.



E

OMNIFLOW

Allows operators to concentrate on cutting instead of torch setup and adjustments. Internal database makes novice operators an expert in minutes. Less scrap and set-up time, means more profit.



H

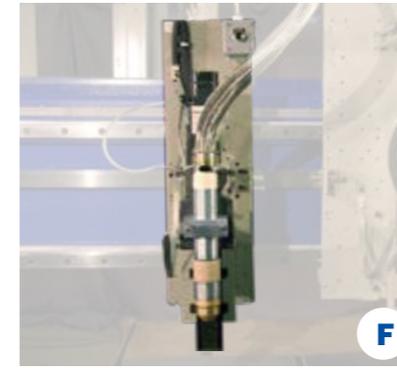
X-AXIS RAIL SYSTEM

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



DRILL

CAT 40 Spindle. Maximum drill diameter is 2". Maximum tapping diameter is 1". (Optional)



F

PL-1 PLASMA TORCH LIFTER

The Messer PL-1 lifter combines plasma arc voltage monitoring with consumable wear compensation and CNC closed loop position axis to enhance height control. This combination provides optimum cut quality throughout the life of the consumable. (Optional)



ALFA OXYFUEL TORCH

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



GLOBAL INFINITY ROTATOR

Unique compound skew control of A-Axis and C-Axis automatically positions the torch. Cut edges of +45° through -45° with automatic torch height control using arc voltage. Square corners are achieved utilizing custom looping routines. Bevel angle change-on-the-fly. (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)



OXYFUEL CONTOUR BEVEL UNIT

Semi-automatic oxyfuel beveling unit with height sensing and torch collision prevention system. Capable of cutting a variety of bevel profiles in V, X, Y and K profiles. Perfect for weld prep edges in mild steel. With height sensing and torch collision prevention system. (Optional)



MARKERS

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

MPC2000

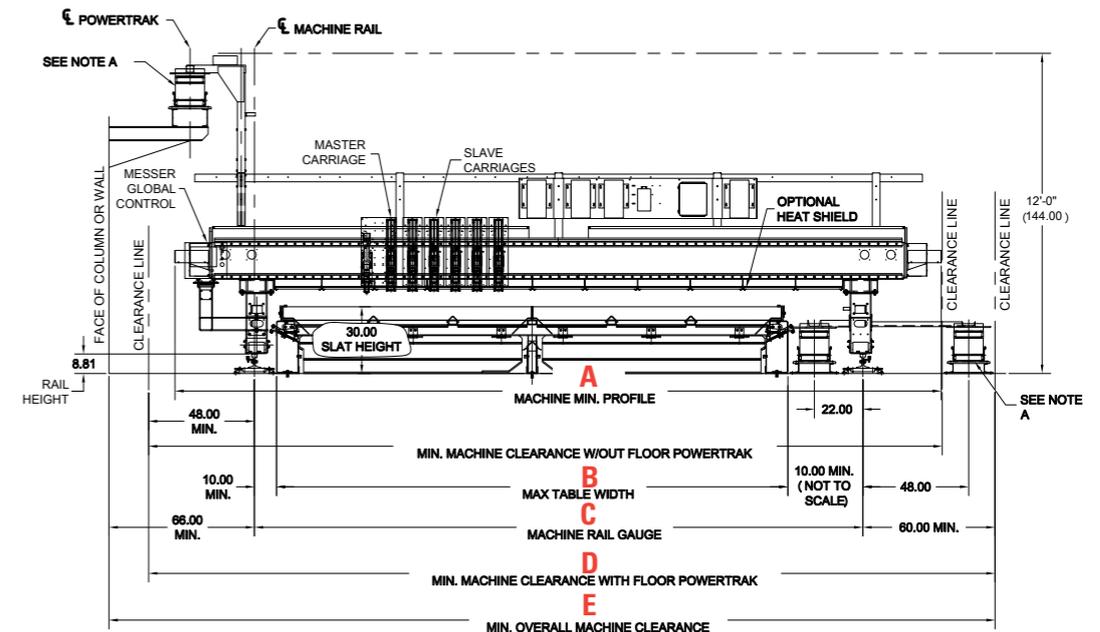
The MPC2000 is a heavy-duty workhorse with superior technology. and can be customized with many optional processes. Enhanced linear ways, long-life band drives, and large end trucks offers a superior cut quality in a large gantry format.

The MPC2000 can be equipped with many optional processes. Contour bevelers in both plasma and oxyfuel, capable of K, V, X, Y, and I cuts. Additional options include drilling up to 2" and tapping up to 1" diameter holes, markers, pipe and tube cutting, and so much more.

Messer cutting systems offers the latest in advanced cutting software to effectively stream line processes. Five Star service programs ensure the MPC2000 machines productivity and longevity.

MPC2000 MODEL MEASUREMENTS

Model	A Machine Min. Profile	B Max Table Width	C Machine Rail Gauge	D Min. Machine Clearance	E Overall Clearance
MPC2008	180.00	112.00	132.00	240.00	258.00
MPC2010	204.00	136.00	156.00	264.00	282.00
MPC2012	228.00	160.00	180.00	288.00	306.00
MPC2012/14	252.00	184.00	204.00	312.00	330.00
MPC2016	276.00	208.00	228.00	336.00	354.00
MPC2016/18	300.00	232.00	252.00	360.00	378.00
MPC2020	324.00*	256.00	276.00	384.00	402.00
MPC2020/22	348.00	280.00	300.00	408.00	426.00
MPC2024	372.00	304.00	324.00	432.00	450.00
MPC2024/26	396.00	328.00	348.00	456.00	474.00



OPERATOR CONVENIENCE

- Optional auto gas consoles available on some plasma systems.
- Omniflow Gas Control allows repeatable oxyfuel cutting for inexperienced operators.
- Lost cut recovery - can reposition to any pierce point.
- Operator station located either left or right side of machine as the control swivels and tilts for easy viewing.
- Optional riding platform for operator comfort.

MACHINE MOTION

- Twin 6 HP AC drives for the X-Axis and one for the Y-Axis
- Rear support beam is isolated from the front process beam to provide rigid process support for smooth cuts.
- Ultra smooth planetary gear boxes
- Large diameter pinion with full face width contact
- Air-over-oil pinion engagement for zero backlash
- 115 lb/yd machined crane rail for longitudinal ways in X-Axis
- Linear motion Y-Axis ways for maximum stability

STANDARD FEATURES

- Cutting widths 8 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 sec².
- Dual beam construction - front process beam is separate from rear utility beam for vibration isolation.
- Global Control^{Plus}, a Windows[®] 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, floor or overhead powertrack for installation flexibility.
- SureStop Collision Sensor with easy and accurate reset.
- High-speed PL-1 lifter (880 ipm) with arc voltage height control and adjustable programmable retract (only offered by Messer).
- Virtual Service[™] remote consultation and diagnostics.
- Designed and manufactured in the USA to machine tool and ISO 230-2 standards.
- UL / CUL.

OPTIONAL FEATURES

- Precision plasma up to 800 amps.
- Plasma beveling units: Infinity, Delta[®], 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[™] or ALFA.
- Lifters: SL Series for Oxyfuel, PL-1 Plasma Lifter with SureStop Collision Sensor, SensoMat[®]-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 and Telesis[®] Pinstamp[®].
- Digital Video Camera with optional Automatic Plate Alignment.
- Laser Pointer.
- Global Reporter.
- Programming and nesting software.
- Drilling up to 2" diameter, and tapping up to 1" diameter.
- 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[®].
- Flex-Zone for processing material outside of the table.
- Rotary Pipe and Tube cutting system.
- Messer dust collection system.
- Exhaust ducting kit.
- Material handling systems.
- Sentry Service Preventative Maintenance Program.

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