

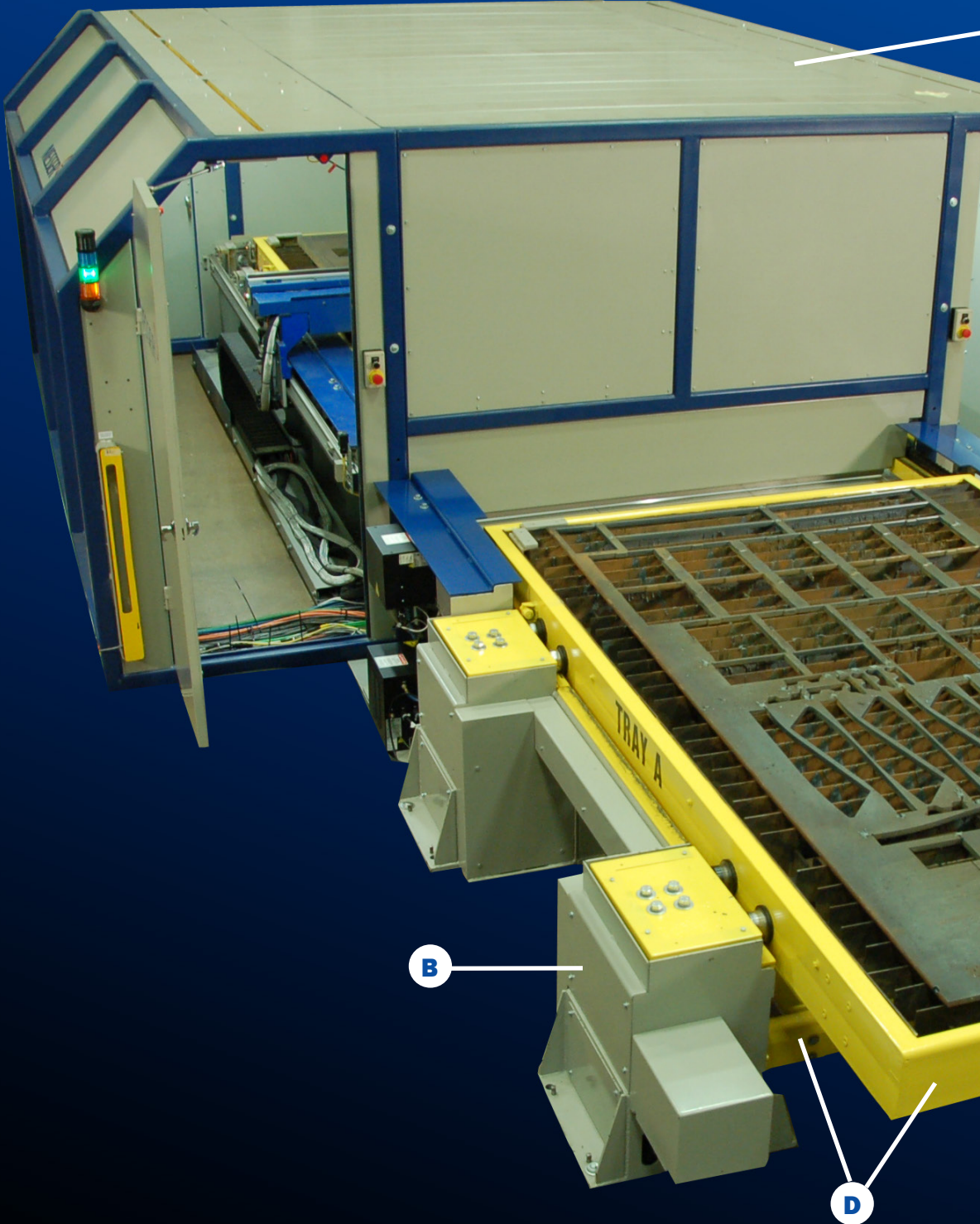


**MESSER**   
Cutting Systems

# METALMASTER PLUS WITH SHUTTLE TABLE

Heavy Performance Gantry Cutting Machine, Heavy-Duty Dual Pallet Shuttle Table, Maximum Productivity, Excellent Cut Quality and Accuracy

# THE METALMASTER PLUS WITH SHUTTLE TABLE COMBINES PRECISION CUTTING WITH HIGH PRODUCT





## Shuttle Table Advantages

### MORE EFFICIENT

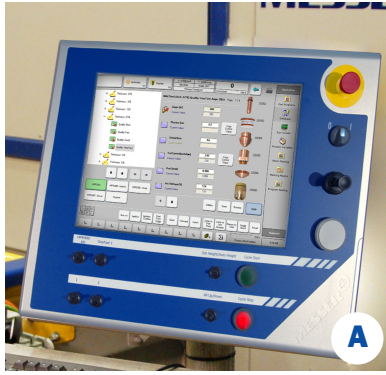
- Load one plate or remove parts while another is being cut without interruption to cutting
- Saves time by creating shortest path for material loading and unloading
- Plate loading and unloading always takes place at one end of the machine and at common height

### GREATER FLEXIBILITY

- Plate loading and unloading always takes place at one end of the machine and can be accessed from three directions with no rail or cutting machine interference
- Shuttle table because of its compact work envelope allows the use of a stationary dedicated crane or other workstation cranes for plate loading, saving overhead crane time and allowing it to be used elsewhere
- Cutting area of machine can be located in an area without overhead crane access, freeing up floor space under the hook, which is an important consideration at some facilities

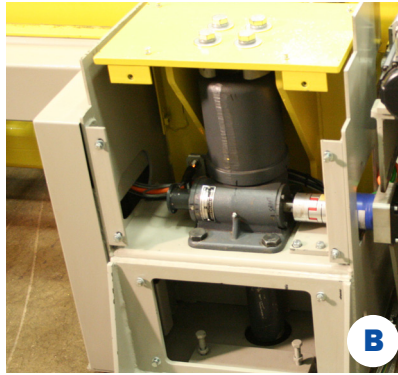
### ENHANCED SAFETY

- Cutting machines with long tables can expose personnel that remove cut parts near the area where the cutting gantry is operating
- With the shuttle table, the cutting gantry never enters the area where plate loading and unloading operations occur



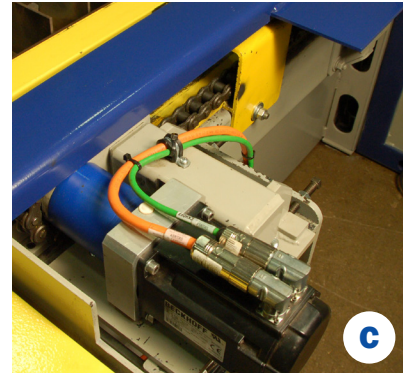
### GLOBAL CONTROL PLUS

Easy-to-use, feature rich, operator interface. Our Global Control Plus stands out among the competitions. With a compact touch screen you can access the process data base which makes every operator an expert. Virtual Service puts applications and service help on one push button away. It's Messer's standard for reliability and high performance.



### JACK SYSTEM

This powerful servo controlled motorized ball jack screw system provides smoothness and high degree of control for lifting motion.



### MOTORIZED CHAIN DRIVE SYSTEM

The horizontal transport drive uses a heavy duty motorized chain drive mechanism to provide a reliable means for moving the pallets between the load and cut positions.



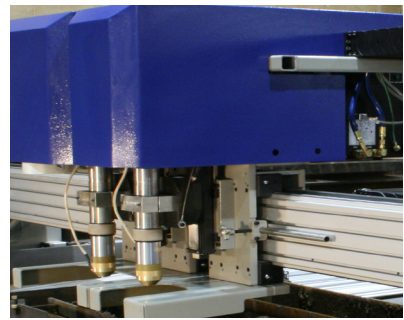
### DUEL PALLET SHUTTLE TABLE

Synchronized servo control allows for an extremely fast exchange cycle.



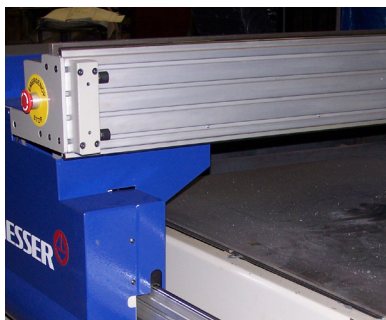
### ENCLOSURE AROUND THE CUTTING AREA

Provides spatter protection, noise reduction, glare reduction, and machine protection. (Optional)



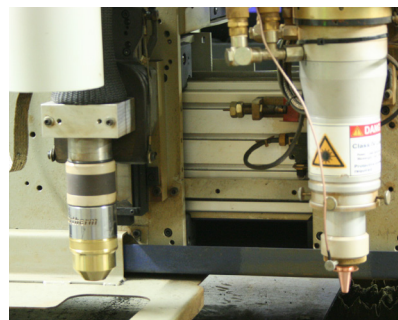
### PL-1 TORCH LIFTER Z-AXIS CONTROL

The retracted position after each cut can be set to various heights, including no rise at all if desired. This ability to optimize the torch heights during cutting translates into meaningful increases in productivity.



### BEAMS

An extruded aluminum beam and X-Axis ways provides support and high strength while reducing weight. The cross-braced beam is extremely ridged providing more accurate cut parts and smooth motion.



### FIBER LASER / PLASMA COMBINATION

2.5 Times more productive over traditional Plasma or Oxyfuel systems. Providing greater flexibility and production insuring a faster return on investment. (Optional)



### DAMPER CONTROL DOOR

A reliable mechanical cam system is used for damper door control.

## MetalMaster Plus with Shuttle Table

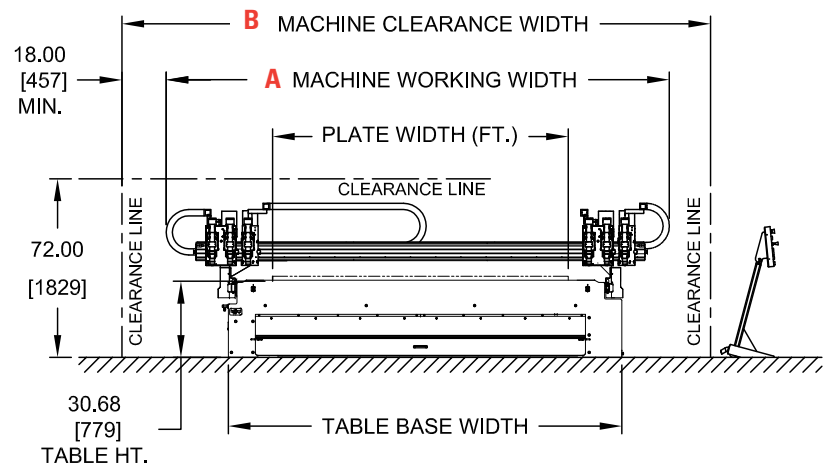
Combines the accurate, efficient, and proven cutting capabilities of our MetalMaster Plus machine with an effective and safe means of getting the plate and parts, to and from the cutting area. Included is the Slagger® advanced cutting support table with automated slag / smoke removal and advanced shuttle table design for performance and reliable operation.

This package has features that will enhance productivity and fill your production needs with the flexibility and value not possible with other plate cutting systems.

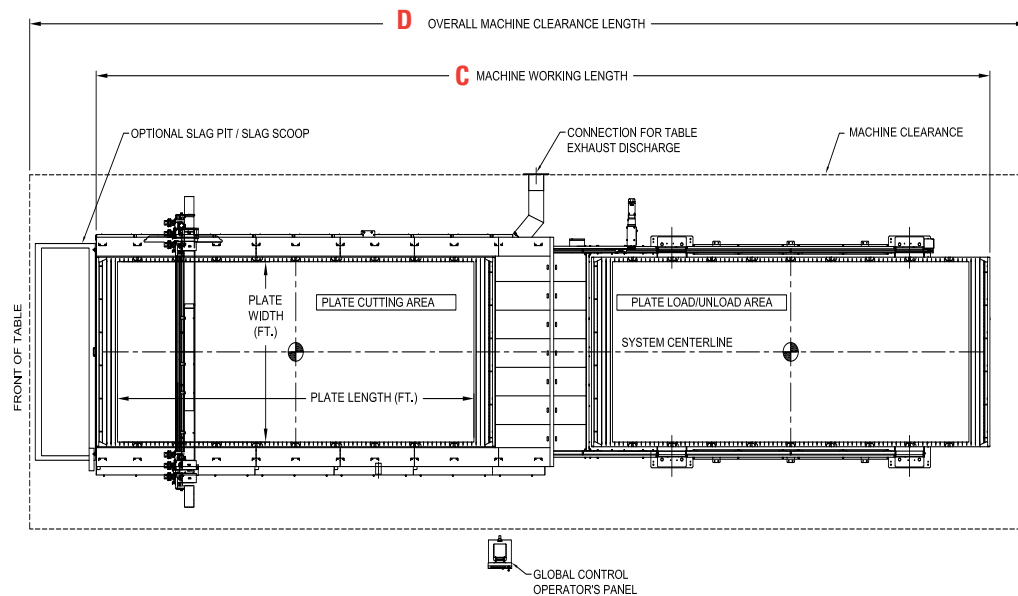
## METALMASTER PLUS WITH SHUTTLE TABLE MEASUREMENTS

MetalMaster Plus with Shuttle Table Plate Widths Ft.	A Machine Working Width (in)	A Machine Working Width (mm)	B Machine Clearance Width (in)	B Machine Clearance Width (mm)
MMPlus Shuttle Table 6'	158.50"	4026	194.50"	4940
MMPlus Shuttle Table 8'	182.50"	4636	218.50"	5550
MMPlus Shuttle Table 10'	206.50"	5245	242.50"	6160

MetalMaster Plus with Shuttle Table Plate Lengths Ft.	C Machine Working Length (in)	C Machine Working Length (mm)	D Overall Machine Clearance Length (in)	D Overall Machine Clearance Length (mm)
MMPlus Shuttle Table 10'	338.25"	8592	418.25"	10624
MMPlus Shuttle Table 15'	466.25"	11843	546.25"	13875
MMPlus Shuttle Table 20'	594.25"	15094	674.25"	17126
MMPlus Shuttle Table 25'	722.25"	18345	802.25"	20377



FRONT ELEVATION



MACHINE PLAN VIEW

# STANDARD AND OPTIONAL FEATURES



## STANDARD FEATURES

- Cutting widths from 6, 8, 10 ft.
- Cutting lengths for 10, 15, 20, 25 ft.
- Cut material from 26 ga. to 2" thick plate
- Cuts mild steel, stainless steel, aluminum
- Machine motion accuracy to +/- .002" in a 72"x 72" area verified with a laser interferometer
- Contouring speeds up to 400 ipm  
rapid traverse speed of 1700 ipm
- Positioning speeds up to 1700 ipm  
with acceleration up to 32" per sec<sup>2</sup>
- Slagger<sup>®</sup> self-cleaning zoned and ducted dry exhaust table
- Shuttle system with dual pallets
- Zoned light curtain system promotes safety while maintaining good accessibility for plate loading and unloading
- Global Control Plus, Windows<sup>®</sup> based with easy to use operator interface
- Floor mounted control pedestal
- SureStop collision sensor with easy and accurate reset
- Advanced Plasma technology provides consistent piercing and faster cutting
- High-speed PL-1 lifter (880 ipm) with arc voltage height control and infinite adjustable programmable retract (only offered by Messer)
- Fast installation and relocation due to modular design
- Virtual Service<sup>™</sup> remote diagnostics and consultation
- Designed and manufactured in the USA to machine tool and ISO 230-2 standards
- UL available

## OPTIONAL FEATURES

- Cutting area surround enclosure
- Precision Plasma up to 400 amps
- Fiber Laser up to 4 kw
- Two Plasma torches - maximum
- Turbo Flame<sup>™</sup> and ALFA oxyfuel torches
- Occasional gas cutting with advanced Oxyfuel technology with Omniflow
- Manual Plasma Stripping Bevel Unit for X-Axis
- Various plate markers: Plasma, Air Scribe, Pneumatic Punch, Ink Jet, and Telesis<sup>®</sup> Pinstamp<sup>®</sup>
- Video Cameras
- Laser Pointer
- Global Reporter
- Slag Scoop or Slag Pit with Bucket Shuttle system with dual pallets
- Storage Retrieval Tower System
- Plasma Station Outlet Equipment
- Programming and nesting software
- Drilling up 3/8" diameter in mild steel
- Operator glare curtain
- Messer dust collector systems
- Sentry Service preventative maintenance program

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**Messer Cutting Systems, Inc.**  
**W141 N9427 Fountain Boulevard**  
**Menomonee Falls, WI 53051**  
**Tel. +1 262-255-5520**  
**Fax +1 262-255-5170**  
**E-mail: [sales@messercutting.com](mailto:sales@messercutting.com)**  
**[www.messer-cs.com](http://www.messer-cs.com)**  
**Español [www.messer-cs.com/mx/us/](http://www.messer-cs.com/mx/us/)**