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MAD Multiplatform CNC Table

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JD Squared continues their mission to provide the most robust equipment at an affordable price by introducing the MAD MPR2 Series CNC plasma cutting and wood routing table. This new line of multiplatform tables gives the customer versatility to change between different types of tables, at an affordable price.

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 Manufacturer: [JD Squared, Inc.](#)


Overview

MAD MPR2 Specifications

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MAD MPR2 CNC Table Specifications Summary

Available Table Sizes	5' x 5' / 4' x 8' / 5' x 10'
Maximum plate thickness	2"
X Axis Travel (Standard Gantry Version)	5' x 5' - 70.75" (1797) 4' x 8' - 58.75" (1492) 5' x 10' - 70.75" (1797)
X Axis Travel (Extended Gantry Version)	5' x 5' - 82.75" (2102) 4' x 8' - 70.75" (1797) 5' x 10' - 82.75" (2102)
Y Axis Travel (Standard & Extended Gantry Version)	5' x 5' 4' x 8' - 100.5" (2553) 5' x 10' - 124.5" (3162)
Z Axis Travel	6"
Cutting Clearance Around Plate	X Axis 1.75" (44mm) Y Axis 2" (51mm)
Rapid Speeds	1200 IPM
Motors	Ethercat brushless servo on all axes
Machine Power Requirements	190-240VAC, 1PH with Neutral, 50/60Hz, 30A. Machine only. Optional automatic router control increases required amperage to 40A.
Plasma Compatibility	The MAD MPR2 Series requires a machine controllable plasma power unit, which is basically a way to turn the torch on and off automatically. A Begin Traverse, also known as Arc Okay, signal is accepted but not required for operation. If you're not sure if your existing plasma power supply is compatible, contact a sales representative and we'll look into it.
Wood Router Compatibility	The MAD MPR2 Series requires a standard hand router. If the optional automatic router control is being used, the maximum allowable amperage for the router is 15A.
Table Options	The MAD MPR2 Series can be supplied as an Air, Water, or Wood at an additional cost.
Shipping	These tables arrive partially assembled and require the end user to assemble the frame. This allows us to ship in a smaller footprint to save you on freight costs.

Why Water Table?



Advantages

- Most cost effective way to capture most (but not all) fumes and slag.
- Minor cooling effect on material being cut if slats adjusted close to water level.

Disadvantages

- Messy. Really messy. No seriously, they make a mess.
- Steel sheets should be removed and dried after cutting to prevent corrosion. Additives to the table, such as Pico Quench Guard can help reduce corrosion and organics growing in the table.
- Shallower bed depth limits plasma unit power to 125A and below. This limits the operator to 1" mild steel and thinner.

Why Air Table?



Advantages

- When matched with a suitably sized air handler, excess smoke and fumes are captured more efficiently.
- Extra bed clearance allows for the largest plasma units, up to 400A, and 1.5" mild steel plate thicknesses.

Disadvantages

- Cost of an air handler. Without an air handler, a large amount of smoke and fumes are produced.
- Since there is no cutting fluid, no cooling effect on thin gauge material.

Why Wood Router Table?



Advantages

- Allows level installation of a spoil board.

Disadvantages

- When in the wood router configuration it's not ideal to plasma cut.

A Solid Foundation

Big machine features, small machine price.

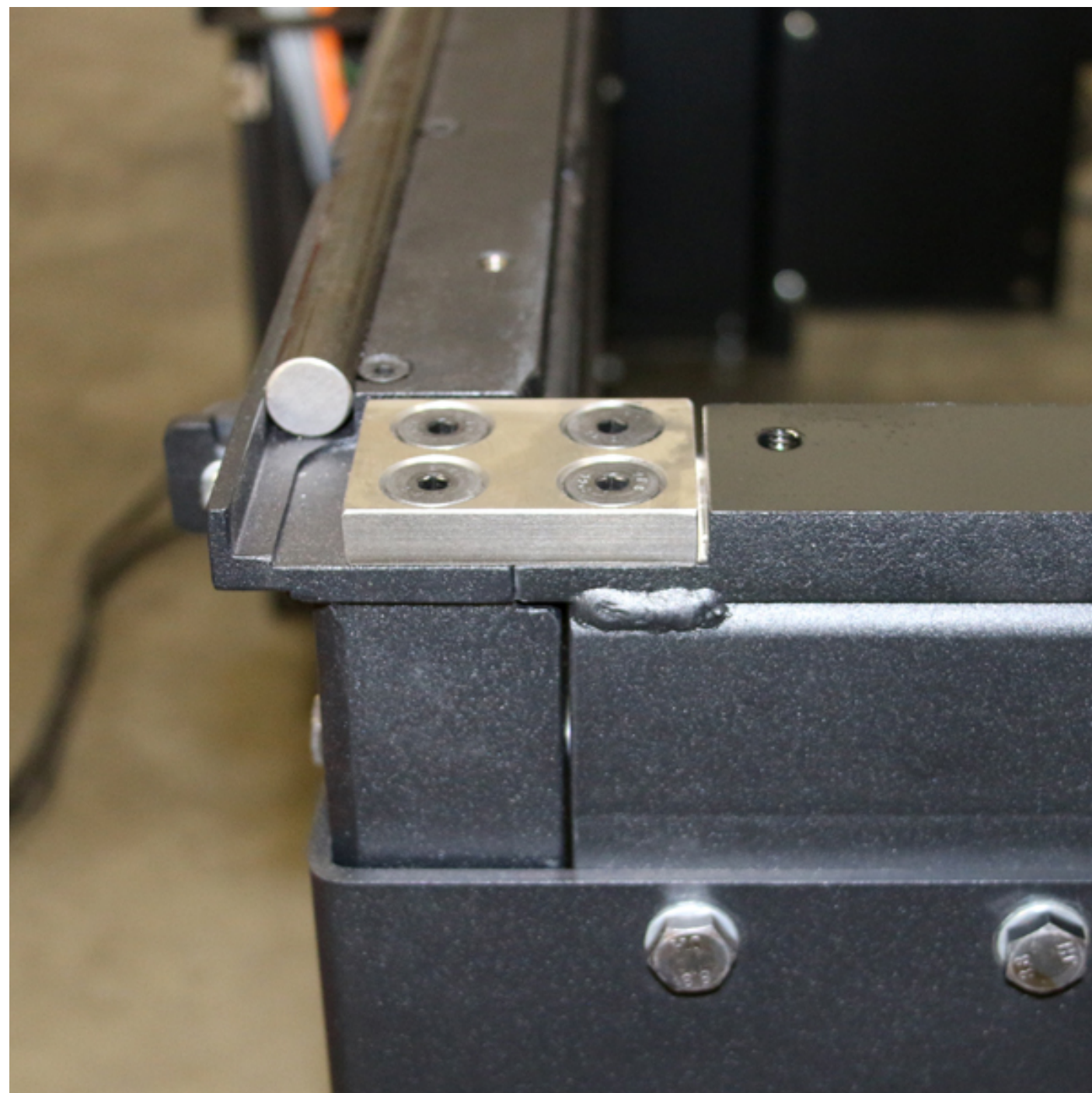
The MAD MP Series CNC Tables are configurable to use either an air table, water table, or wood routing table. All share tough design features detailed by Bob in this introduction video.

JD Squared Intro to MultiPlatform CNC Tables



Precision Machined Frame.

All steel construction has been precision machined to guarantee parallelism of the V-Groove supporting the alloy steel rail, and the 3/4" ground facing gear rack. The frame sides are keyed to make assembly a breeze.



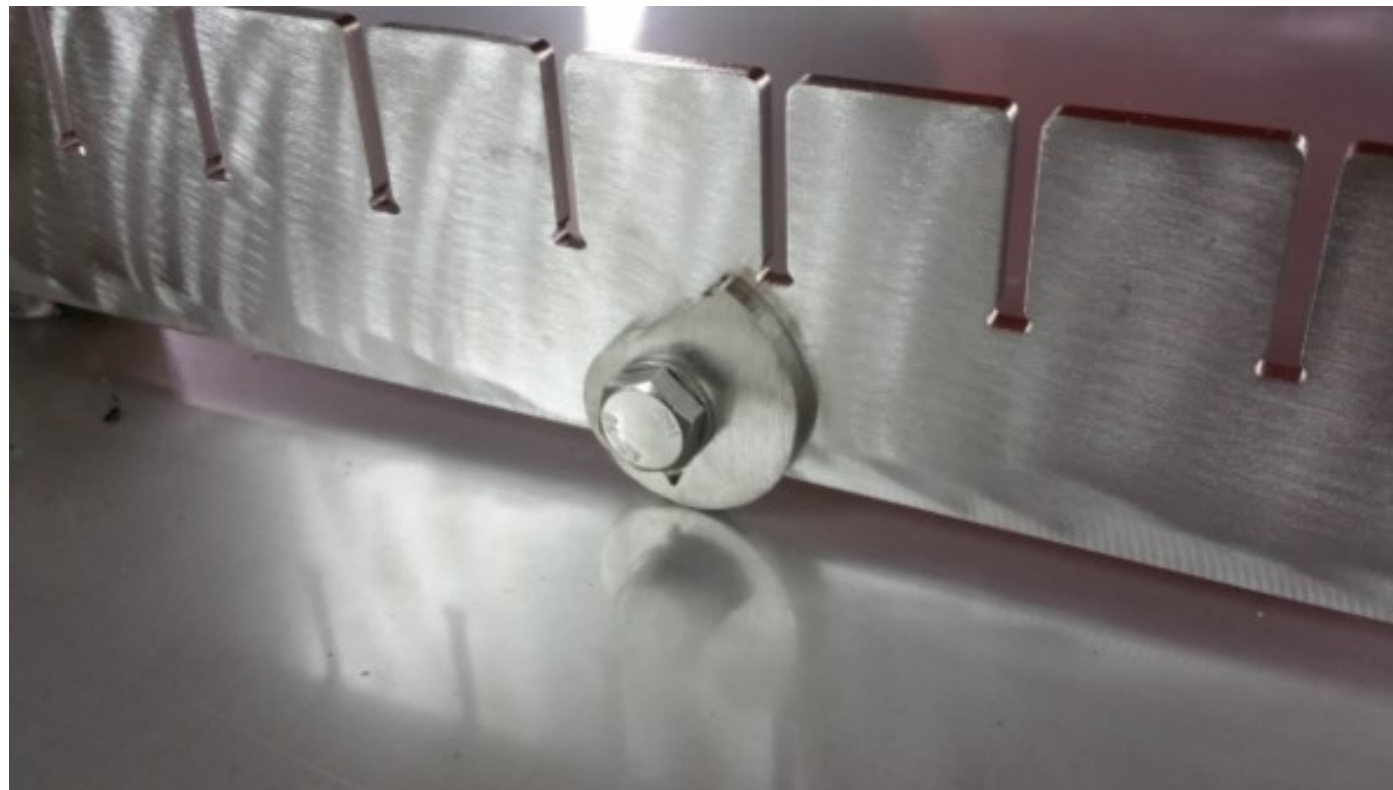
Optional Extended Gantry

The extended gantry option allows the head to extend past the edge of the standard table to cut or route material that would not normally fit on the table. For example, cutting into square tubing using the rotary tube attachment for support.



Flexible slat height.

Vertical adjusters raise the support slats for easy loading, or lower them for use with water.



Choose your curve.

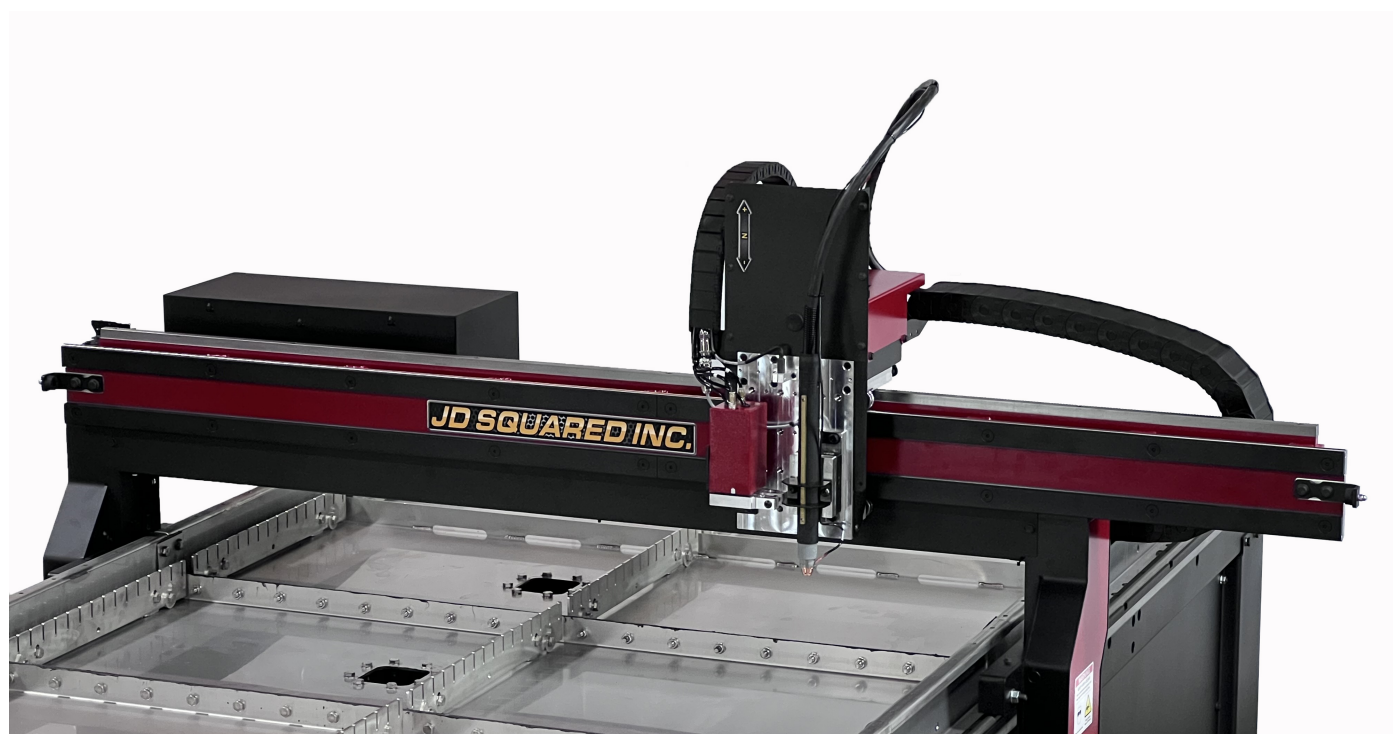
Selectable slat curvature. Choose straight to easily slide material onto the table, or pick Half Arc or Full Arc to support small parts and lighter material.



The X and Z Axes

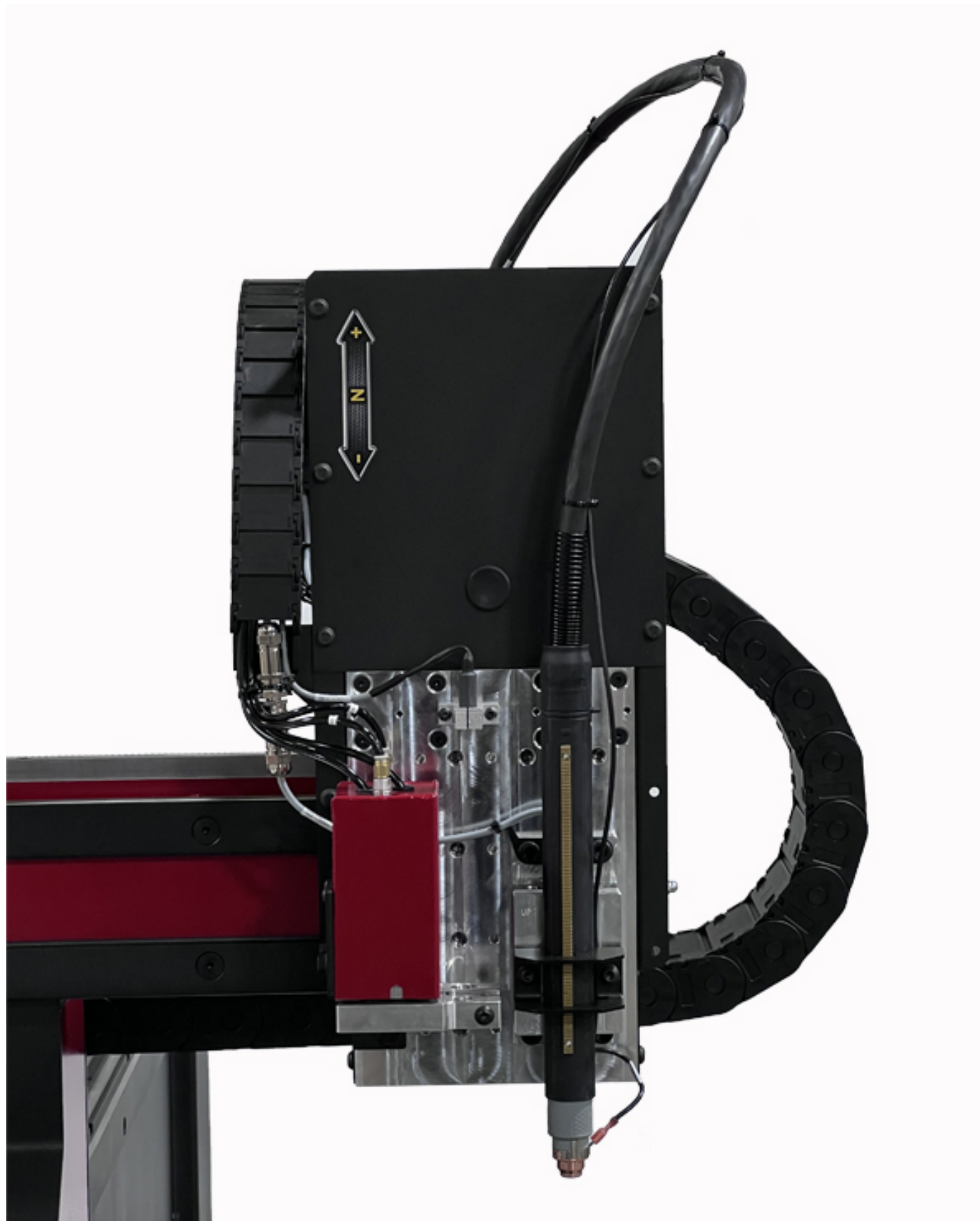
Universal. Ready for plasma.

The face plate of the X-Axis Carriage is universal to accept many types of tools. By default, it is configured with two magnetic docking stations, and a Z-Axis unit plasma ready.



Z Axis - Protection built in.

The Z-Axis rides on dual 20mm linear guide behind protective covers. It includes magnetic torch break-away with automated sensing, and dual probing methods: ohmic contact, and floating head for when electrical contact cannot be sensed.



Brushless servo motors. Everywhere.

All axes are driven using high quality brushless servo motors to get the speed we desire: 1200 I.P.M. rapids. Application specific motor power supplies keep the machine running all day.

Hardened machine control.

Custom robust control electronics are reinforced, and isolated to protect sensitive circuits from damaging currents. Since we build it, obsolescence isn't a problem.



Automatic Torch Height Control.

Yes, it's included. The custom ATHC is capable of measuring a divided feedback voltage provided by the most popular plasma power units.

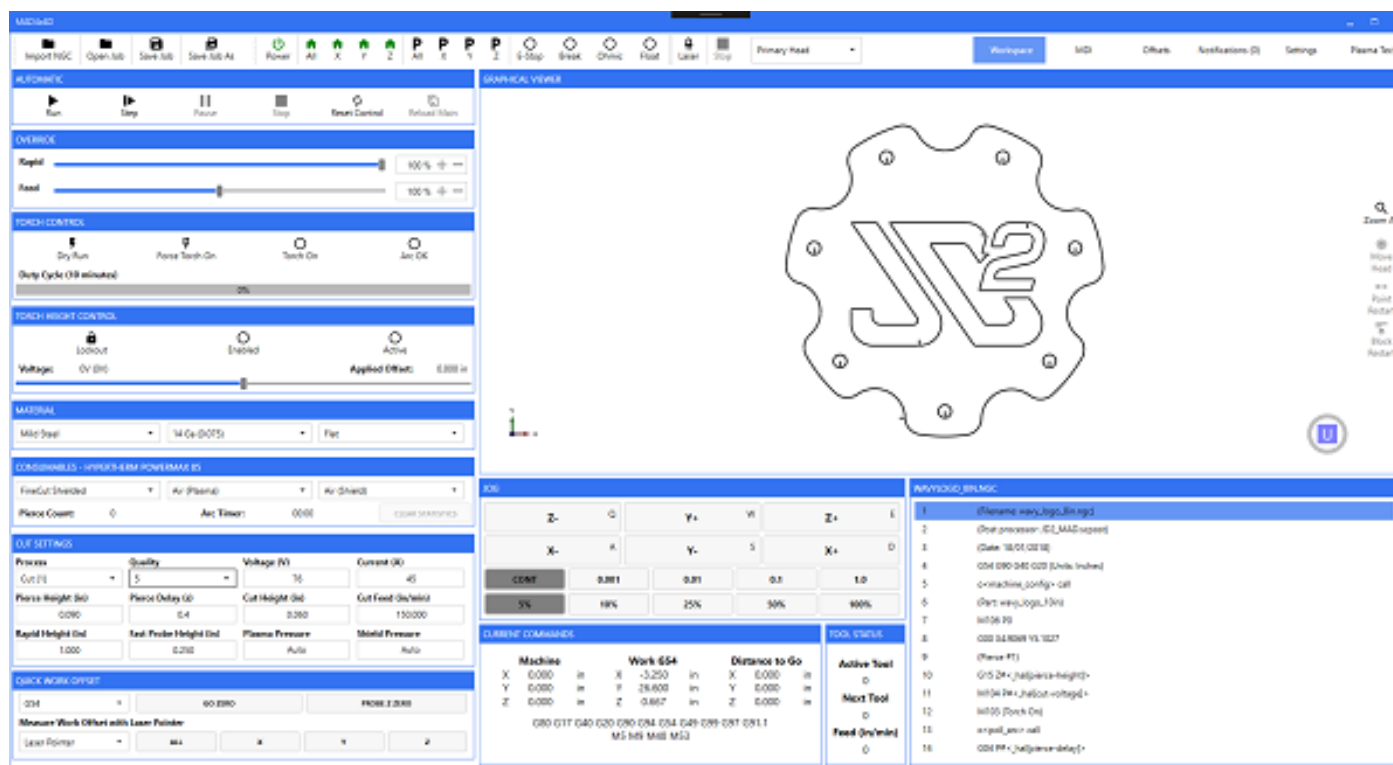
User Interface Computer.

The MAD MP CNC tables does include a computer stand, but the computer is required to be purchased by the end user. Either supply your own PC or purchase an industrial NUC PC from us.



Constantly improving Machine Control Interface.

The latest version of our control software keeps improving. Easy to operate, easy to select cut settings, and easy to restart. The software automatically updates itself for bug fixes and select feature sets if connected to the internet. No subscription required, included for free.



MPR2 Options

Adjustable Water Sump System

Available adjustable water sump system allows you to raise and lower the water level for cutting, part retrieval and cleaning. Includes transfer tank, sump tank, pvc pipe, and valves.



MP Rotary Side Attachment

MP Rotary Side Attachment when used with extended gantry allows cutting of Round and Square parts.



Configured to Your Needs.

The MP Series is designed for configuration. Available Options Include:

- Standard or Extended Gantry
- Starting Table Type - Choose between Air and Wood Routing or Select Water for an additional cost.
- The Air configuration is upgradable with tray and deflector Options.
- Purchase one of two router attachment sizes to complete the Wood Router configuration.
- The Water Table comes in powder coated steel or stainless steel.
- An available water sump system allows you to raise and lower the water level for cutting, part retrieval and cleaning.
- Compatible with the XL Marking System for drawing or engraving.

Additional Videos

JD Squared MultiPlatform CNC Tables vs. MAD Series CNC Plasma Tables



JD Squared Intro to MultiPlatform CNC Tables



MultiPlatform: Bob's Choice



Checkout more videos on our [YouTube channel!](#)

This product is sold out

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LEAD TIMES

-Thursday, September 1, 2022

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