

MACHITECH AUTOMATION FULL LINE BROCHURE



BEYOND CUTTING

Machitech® is a leader in the development and manufacturing of industrial cutting solutions.

For over 18 years, we have offered fully customizable products of the highest quality, meeting the diverse needs of our clients. With 125,000 square feet of combined production space across five facilities, our team of skilled experts have installed over 1,800 machines throughout North America and Europe. Our attention to detail extends beyond the factory floor as Machitech® employees practice a long tradition of integrity, efficiency, and precision in every step of the customer's journey with us.

We provide cutting-edge systems at competitive prices, and with our complete installation and training packages tailored to individual requirements, customer satisfaction is the bedrock of the Machitech® experience.

Christian Giguère, President



TITANIUM CUT™

Engineered for the most demanding cutting and drilling applications

The perfect machine for Steel Service Centers, Ship Building & Structural Steel Applications. The 49HP spindle can drill holes up to 4 inches and tap up to 2 inches.



FEATURES AND OPTIONS

- › Bridge & Rail System, Customizable
- › Table sizes: 10' x 20' up to 30' x 300'
- › Dual 12" x 12" Machined Steel Gentries
- › Patented Inverted Rail System
- › Bosch Rexroth Servo Motors (EtherCat)
- › 49 HP Drilling and Tapping Spindle
- › Automatic CAT50 Tool Changer (up to 12 tools)
- › Hypertherm XPR170, XPR300 and HPR400XD
- › Hypertherm ProNest CAD/ CAM Software
- › Hypertherm Edge Connect CNC Controller
- › Machitech or Customer Supplied Table, water or downdraft

SPECIFICATIONS

- › Cutting Speed: 0-500 IPM, related to process
- › Traverse Speed: 1,000 IPM
- › Repeatability: 0.001"
- › Positioning Accuracy: 0.002"
- › Drill up to 4" and tap up to 2"

AVAILABLE OPTIONS

- › Additional Plasma Cutting Stations
- › 5-Axis Full Contour Bevel head
- › Cut N'Clean Slag Removal System
- › Up to 10 Oxyfuel torches
- › Filtration Systems

PLATINUM CUT™

Heavy duty plate cutting machine designed for industrial 24/7 production

Bridge and Rail system engineered for multiple processes. Built to work 24/7 thanks to its heavy duty components and its instead of it's inverted linear rail system.



FEATURES AND OPTIONS

- › Bridge & Rail System, Customizable
- › Table sizes: 10' x 20' up to 30' x 300'
- › 12" x 12" Machined Steel Gantry
- › Patented Inverted Rails System
- › Bosch Rexroth Servo Motors (EtherCat)
- › Hypertherm XPR170, XPR300 and HPR400XD
- › Hypertherm ProNest CAD/ CAM Software
- › Hypertherm Edge Connect CNC Controller
- › Machitech or Customer Supplied Table, water or downdraft

SPECIFICATIONS

- › Cutting Speed: 0-500 IPM, related to process
- › Traverse Speed: 1,000 IPM
- › Repeatability: 0.001"
- › Positioning Accuracy: 0.002"

AVAILABLE OPTIONS

- › 20HP Drilling and Tapping spindle
- › Additional Plasma Cutting Stations
- › 5-Axis Full Contour Bevel head
- › Cut N'Clean Slag Removal System
- › Up to 10 Oxyfuel torches
- › Filtration Systems

DIAMOND CUT™

High speed unitized system for maximum precision and productivity

A unitized system with a compact footprint and wide variety of options. Features our patented fully protected inverted rail system protecting from dust, collisions and debris.



FEATURES AND OPTIONS

- › Unitized system
- › Patented inverted linear rails system
- › Easy to move & small footprint
- › 6" x 8" machined steel gantry
- › Table sizes: 5' x 10' up to 12' x 45'
- › Automatic Torch Height Control
- › Bosch Rexroth Servo Motors (EtherCat)
- › Bosch linear ways on rails & gantry
- › Hypertherm XPR170, XPR300 and HPR400XD
- › Hypertherm EDGE Connect Controller
- › Hypertherm ProNest CAD/ CAM software

SPECIFICATIONS

- › Cutting Speed: 0-500 IPM, related to process
- › Traverse Speed: up to 3500 IPM (X-Motion)
- › Repeatability: 0.001"
- › Positioning Accuracy: 0.002"

AVAILABLE OPTIONS

- › 7.5HP Drilling and Tapping spindles
- › Quick-Change Oxyfuel Torch
- › Pipe Cutting Attachment System
- › 5-Axis Full Contour Bevel head
- › X-Motion Roller-Pinion System
- › Shuttle Table

GOLD CUT™

A modular bridge & rail system engineered for maximum configurability

Reliable industrial CNC plasma cutting system at a competitive price point that is perfect for fabrication shops and retrofit applications.



FEATURES AND OPTIONS

- › Bridge & rails system
- › Modular design allows for future expansion
- › 6" x 8" machined steel gantry
- › Table sizes: 5' x 10' up to 10' x 40'
- › Automatic Torch Height Control
- › Bosch Rexroth Servo Motors (EtherCat)
- › Bosch linear ways on gantry
- › Hypertherm XPR170, XPR300 and HPR400XD
- › Hypertherm EDGE Connect Controller
- › Hypertherm ProNest CAD/ CAM software
- › Machitech or Customer Supplied Table, water or downdraft

SPECIFICATIONS

- › Cutting Speed: 0-500 IPM, related to process
- › Traverse Speed: 1000 IPM
- › Repeatability: 0.001"
- › Positioning Accuracy: 0.003"

AVAILABLE OPTIONS

- › Quick-Change Oxyfuel Torch
- › Pipe Cutting Attachment System
- › Cut N'Clean Slag Removal System
- › Filtration Systems

SILVER CUT™ / PRO / HD

A line of affordable industrial plasma cutting tables

The Silver Cut™ line of CNC plasma tables are the most affordable feature packed light industrial cutting machines on the market. Engineered for minimum footprint and ease of use, they are built to handle a wide range of applications.



*Silver Cut HD shown

FEATURES AND OPTIONS

- › Available sizes: 5'x5', 5x10 or 6'x12'
- › Hypertherm Powermax plasma sources
- › Touchscreen CNC Controller
- › Drawers for parts retrieval (downdraft)

UPGRADE TO SILVER CUT PRO

- + 6" x 8" machined steel gantry
- + Brushless Servo Motors
- + Hypertherm Maxpro200 plasma

UPGRADE TO SILVER CUT HD

- + Hypertherm Edge Connect Controller
- + Bosch Rexroth Servo Motors (Ethercat)
- + Hypertherm XPR170 Core plasma

SPECIFICATIONS

- › Cutting Speed: 0-500 IPM, related to process
- › Traverse Speed: 800 IPM (1000 IPM PRO/HD)
- › Repeatability: 0.002"
- › Positioning Accuracy: 0.003"

AVAILABLE OPTIONS

- › Quick-Change Oxyfuel Torch
- › Laser Positioning System
- › Manual Bevel System
- › Safety system (pull cord, light curtain)
- › Pneumatic scribe
- › Filtration Systems
- › Pipe rotator

PIPE CUT[™]

Fully automated Industrial pipe processing system

The only fully automated pipe cutting system on the market. Features an floating chuck system with automatic height and clamping, self adjusting pneumatic support rollers and our patented inverted rail system. Square tube and HSS cutting systems also available.



FEATURES AND OPTIONS

- › Can process a wide range of round pipes
- › Floating Chuck for non-straight pipes
- › Automatic Chuck height and clamping
- › Clamping torque monitoring system
- › Patented Inverted Rails System
- › Bosch Rexroth Servo motors (EtherCat)
- › Pneumatic Support Roller
- › Hypertherm Powermax, MaxPro and XPR/HPR plasma
- › Hypertherm EDGE Connect Controller
- › Hypertherm Rotary Tube Pro Software
- › PipeServer Pipe Cutting Software

SPECIFICATIONS

- › Pipe diameters: 2.5" up to 48"
- › Distance between support rollers: 18"
- › Cutting Speed: 0-500 IPM, related to process

AVAILABLE OPTIONS

- › Processing for up to 48" diameter pipes
- › 5-Axis Full Contour Bevel head
- › Infeed and Outfeed Motorized Conveyors
- › Flat plate cutting table (up to 5'x10')
- › Automated Part Offload
- › Filtration Systems

OUR UNIQUE FEATURES AND CAPABILITIES

Machitech invests heavily in R&D to develop new products and push the boundaries in cutting. We are always one step ahead of the competition in quality, design and manufacture resulting in higher speed, precision, productivity and innovation.

5-AXIS FULL CONTOUR BEVELER

- › The most advanced bevel head on the market
- › Infinite rotation contour bevelling
- › Designed to perform complex cuts
- › Bevel angles up to 50 degrees with plasma
- › Eliminates unwanted conical effect in holes
- › Compact design engineered for precision
- › Cut K / V / A / Y / X and progressive bevels
- › Cut countersink bolt holes
- › Available on the Diamond Cut, Platinum Cut, Titanium Cut and Pipe Cut systems.



INVERTED RAIL SYSTEM

- › Innovative precision rail system, protected from dust, material handling mishaps and damage
- › Highest quality Bosch Rexroth linear bearing rail technology
- › The inverted rail system allows for precise and virtually imperceptible splice points
- › Capacity improvement and better load distribution vs traditional crane or train rails
- › Available on the Diamond Cut, Platinum Cut, Titanium Cut and Pipe Cut systems.

OXYFUEL CUTTING

A wide range of oxyfuel solutions

Machitech offers a wide range of oxyfuel cutting solutions for customers that want to cut thicker materials. From a simple magnetic quick change torch to a 10 station setup with auto ignition, automatic height adjustment and gas control, Machitech has you covered.

OXYFUEL OPTIONS

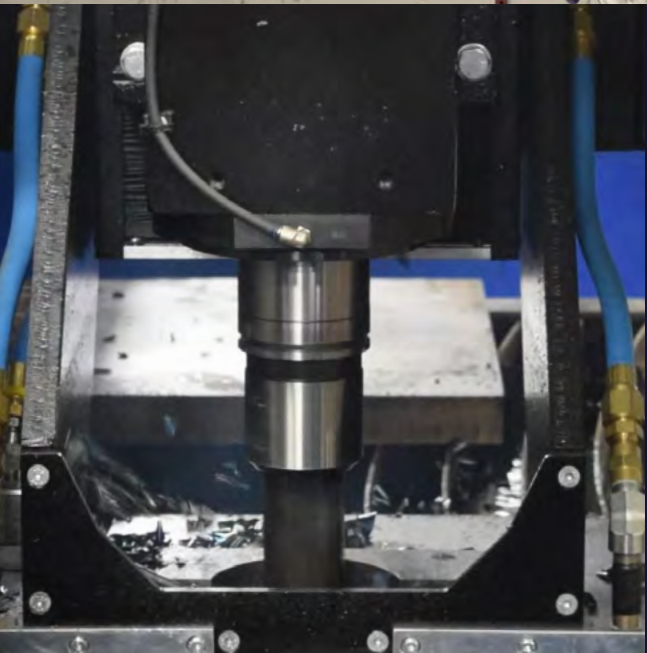
- › Magnetic Quick-Change Oxyfuel Torches
- › Motorized and Slave Oxyfuel stations
- › Up to 10 Oxyfuel stations with auto spacing
- › Automatic Torch Ignition Systems
- › Automatic Torch Height Control
- › Fully automatic IHT Oxyfuel Torches
- › Digital Automatic Gas Consoles
- › Oxyfuel Torches for Bevel Cutting



DRILLING AND TAPPING SYSTEMS

Add a 7.5HP to 49HP drilling and tapping system to your machine

Machitech offers drilling & tapping systems ranging from 7.5HP up to 49HP that can be added to our Diamond Cut, Platinum Cut and Titanium Cut Machines.



DRILLING SPECIFICATIONS

Drilling System	Max. Drilling Diameter	Max. Tapping Diameter	Model Availability
7.5HP	3/4"	3/8"	Diamond Cut
12HP	1.25"	5/8"	Platinum Cut
20HP	1.5"	3/4"	Platinum Cut
49HP	4"	2"	Titanium Cut

FEATURED OPTIONS

Extend the capabilities of your Machitech cutting system

Machitech offers a wide range of cutting machine options. From automated slag removal to pipe and tube cutting, we can help you extend the capabilities of your system.

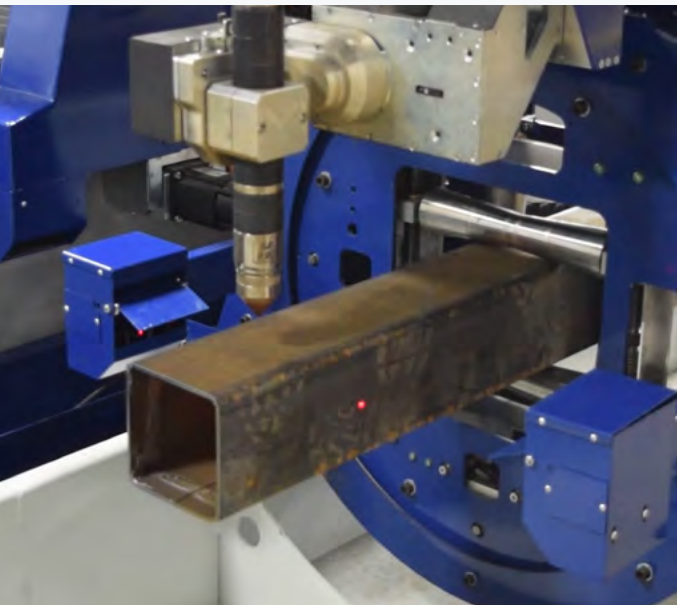
CUT N' CLEAN SYSTEM

The Cut 'N Clean system moves along the bottom of the downdraft table pushing material and slag to the front of the machine, either onto the floor or into a customer supplied pit. The pit catch pan is easily emptied. The entire mechanism is located outside of the cutting zone which makes utilization during cutting possible, increasing your production.



X-MOTION ROLLER-PINION SYSTEM

The X-Motion Roller Pinion System powered by Nexen makes the Diamond Cut™ plasma cutting system faster and more precise than typical rack and pinion systems. Achieve unrivaled speeds up to 3,500 IPM with 0.5G acceleration while lowering maintenance requirements.

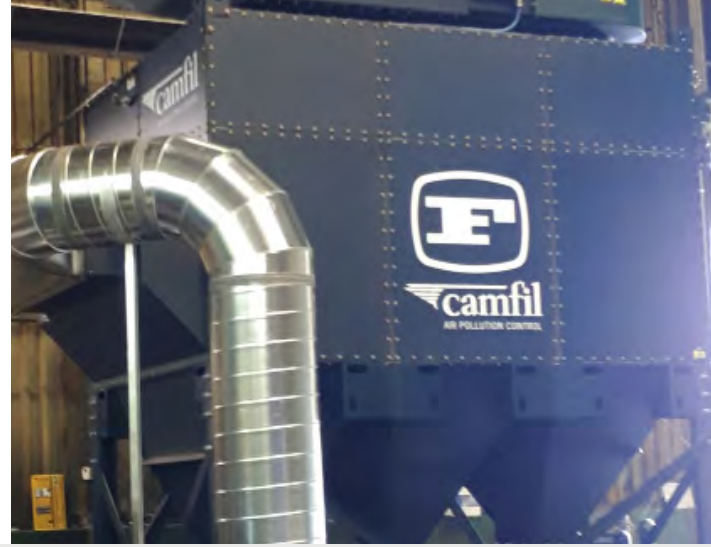


PIPE AND TUBE ATTACHMENTS

- › Helps you maximize production on 1 machine
- › Up to 20' pipe and tube length
- › Up to 10" round, square and rectangular
- › Dedicated Material Support
- › Powerful Digital (EtherCat) AC servo drives to support and rotate pipe during cutting

FUME EXTRACTION SYSTEMS

Machitech offers a wide range of best in class dust collection systems, suited to your specific application.



WATERJET & PLASMA COMBO

Waterjet & Plasma technology compliment each other very well. Machitech offers the possibility of combining them on the same machine. Featuring waterjet pumps from Hypertherm.

SAFETY ENCLOSURE / NOISE AND SMOKE ELIMINATOR

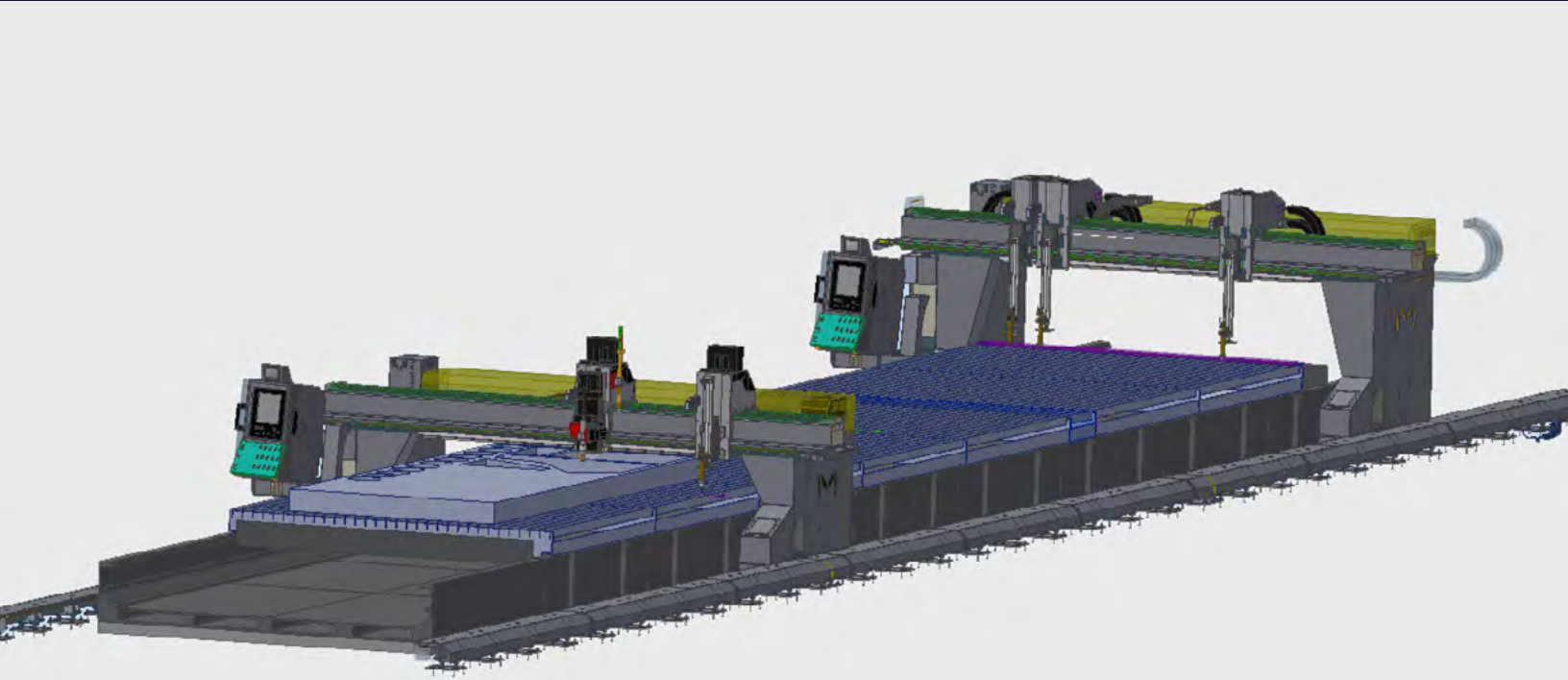
A fully enclosed cutting cell gives you the utmost in safety while eliminating dust and noise. The integrated shuttle table allows loading/unloading outside the cell while the machine is cutting, maximizing your productivity and your operators safety. Complies with OSHA and CSA which may help lower insurance rates.



FULLY CUSTOM SOLUTIONS

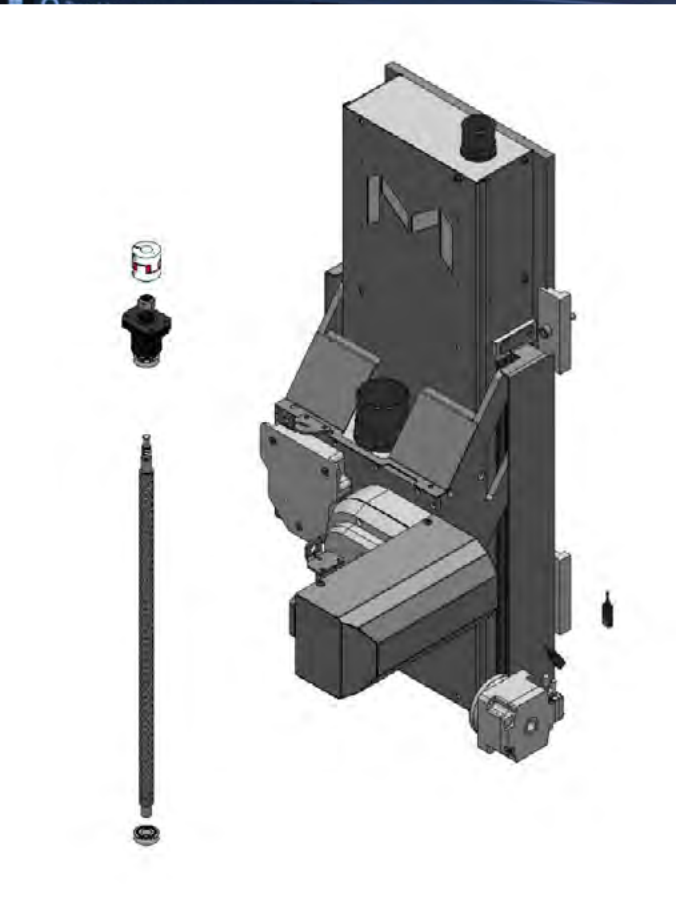
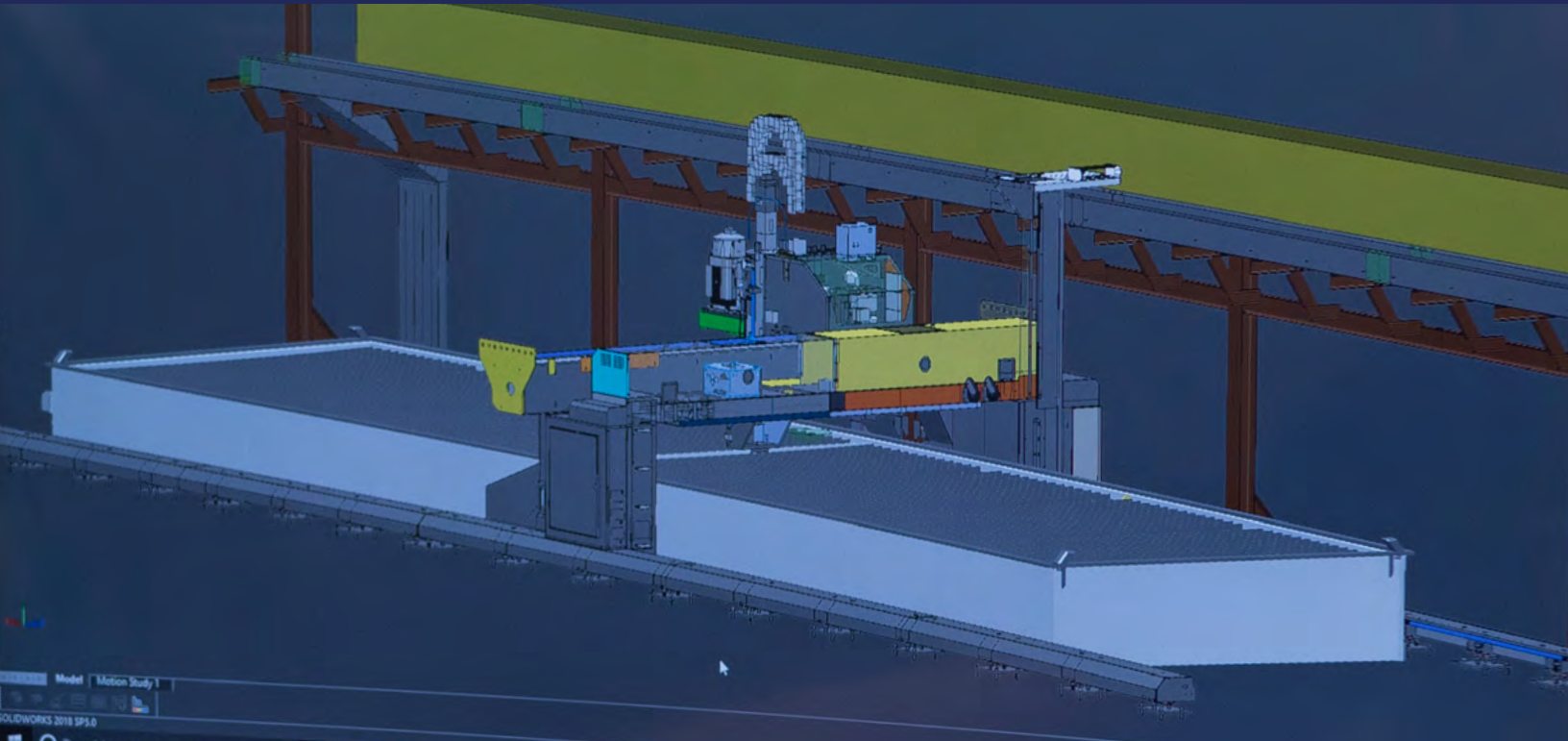
Need something specific to your application? We can do it!

Machitech offers custom cutting solutions for all businesses. Multiple bridges, multi-processes, dome cutting, and more. Our team of engineers and drafters will build the solution you need. Contact your Machitech specialist for more information on our custom cutting solutions.



IN-HOUSE ENGINEERING & DRAFTING

The entire engineering and drafting process is done in-house which gives us the power to design and create every machine. Thanks to our talented engineering team we have the ability to quickly adapt to your needs.



FLEXIBILITY & INNOVATION

- › Starting from your order right up to the installation of the machine, our engineering and drafting team are in contact with you every step of the way.

ROBOTIC PLASMA CUTTING SYSTEMS

For structural steel fabricators

BEAMCUT™
SYSTEMS

There's no machine quite like BeamCut, a 6-axis robotic CNC cell that uses high definition plasma technology to cut metal profiles for the structural steel industries.



MEET BEAMCUT, THE #1 ROBOTIC PLASMA CUTTING SYSTEM

- › Can cut H/I/T/C-Channel/HSS/Angle and more
- › FANUC Robotics for 4 sided cutting
- › Laser profiler for rapid visual positioning
- › Infeed and outfeed conveyors
- › Beamcut Robotic Software
- › Safety cabinet with doors for easy access
- › Hypertherm XPR300 and Maxpro200 plasma
- › Beam length: Min 4' Max 65', Bevel 50°
- › Optional Pipe Processing
- › Optional Flat Plate Cutting Table

FIBER LASER SYSTEMS

CNC Fiber Laser Cutting Machines



Alpha Lazer® is proud to offer solutions for all expectations, from small cost-effective laser cutting machines to fully automatic high-power linear-drive manufacturing cells with integrated loading and unloading.



FIBER M-SERIES SYSTEMS

- › Steel frame, welded and stress relieved
- › 5' x 10' up to 8' x 40' dimensions
- › Up to 1400 IPM cutting speed
- › SIEMENS numerical control unit
- › IPG Photonics YLS laser (2 to 12 kW)
- › PRECITEC ProCutter head
- › Lantek CAD/CAM Software (others avail.)
- › Dual pallet changer system
- › Work space protected by light curtain
- › High performance A/C Servomotors
- › Optional dust collector system
- › Optional load and unload tower

RENOWNED SUPPORT

You're part of our family

Machitech's unparalleled customer service has always been the key to our success. Our highly trained and certified support team is always ready to help you. Our MachiCare preventive maintenance plan is a turnkey PM solution to keep your equipment running reliably for years to come.



LIFETIME SUPPORT

Every machitech cutting solution includes free remote support for the life of the machine. Whether it's by phone, email or support tickets, our team of certified technicians will be ready to assist you.



INSTALLATION & TRAINING

We provide on-site installation and training that is tailored to your needs. Our team of experienced in-house technicians will install the equipment and provide training for your operators and programmers.

CUSTOMER TESTIMONIALS

Over 1,500 HAPPY CUSTOMERS

With over 97% referral rate by customers, Machitech has positioned itself as the leading manufacturer of cutting systems. Read what our customers have to say about us.



"Fought & Company has been in business since 1949 and with the acquisition of the Machitech Pipe Cutter we're able to do projects we weren't able to do before."

"We've been nothing but satisfied with the support, with the family type atmosphere they have, with how they treated us and I am a Machitech believer for life."



"We worked with several different companies during that process, Machitech was the only company that was willing to listen to our problem statements with an open mind and came up with solutions that fit best with what we really needed to achieve."

"When we went through and looked at our return on investment with this piece of equipment, we were at a 2 to 2 ½ year investment which is actually a very easy sale."



www.machitech.com



OUR LOCATIONS

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