

**CUTTING, POSITIONING & WELDING EQUIPMENT**

# **PLATE-FAB**

**CNC PLASMA/OXY-FUEL CUTTING MACHINE**



**Koike Aronson, Inc./Ransome**

## Headquarters- Arcade, NY

# COMPANY

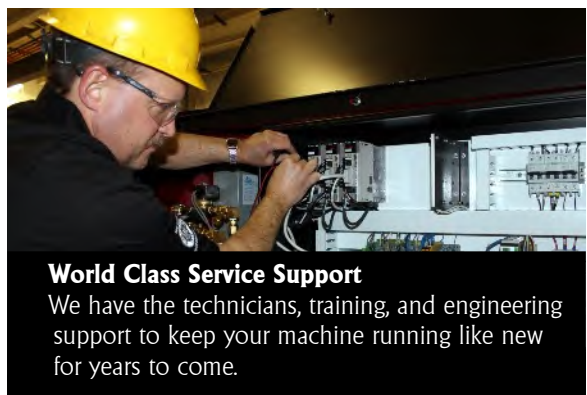
Koike Aronson, Inc./Ransome is headquartered in Arcade, NY. We are a proud supplier of advanced cutting machines, welding positioning equipment,

portable cutting/welding machines, and gas apparatus. Our knowledgeable staff can assist you with virtually all your needs in metal fabrication. Koike Aronson/Ransome cutting machines can be customized to fit most requirements, and our welding and positioning equipment can be made to accept work pieces of nearly any size.



Our manufacturing area consists of a machine shop, saw shop, two assembly shops, a burn shop, and a weld shop. Handling nearly all manufacturing in-house helps us maintain our extremely high quality. Our factory uses 5S, a lean tool directive, that increases productivity through tidiness and improved organizational practices. We have the capacity to run three shifts with approximately 100 employees per shift. Machining capabilities range anywhere from a small nut to a large weldment. Most importantly, we use our own products to build our customers' machines.

The Engineering Department is comprised of mechanical, electrical, and software engineers with over 250 combined years of design, process, and technical experience. Their knowledge allows us to apply proven designs to customer needs and to develop new technology for custom applications. AutoCAD, SolidWorks, and Cosmos software are used to optimize designs for standard products and to create custom solutions for specialized equipment. Our electrical and mechanical systems are designed to industrial standards for strength, reliability, and safety.



The Business Unit and Customer Service Representatives of Koike Aronson/Ransome offer our customers well over 170 years of combined experience. They work with our many distributors and manufacturer sales representatives to make sure you get quality products and the right equipment for your application. We encourage feedback, and are ready to work with you to keep your machine productive for many years.

The dedicated service technicians of our Field Service Department work as a team to keep machines running at top performance. This starts with sending pre-installation documentation to prepare our customers for machine delivery, installation, and training. Our website is filled with helpful information including the KAR Club, which offers numerous tips on troubleshooting, tuning your machine, and machine maintenance.



For Other Downloads, please scan here with your smartphone

# Made in USA. At Work Worldwide

## Koike Customer Visit Program See How Koike Can Make Metal More Profitable For You

Koike Aronson's Customer Visit Program was introduced to provide those looking to purchase equipment the opportunity to come visit us, meet our people, and tour our complete manufacturing facility.

Your visit to our facility is on us. All expenses paid for including: airfare, transportation, room and meals.

Call a Koike Representative for details  
and schedule your appointment today!  
Toll Free: (800) 991-4225



### MANUFACTURING PROCESSES



LOGISTICS



SAWING / MACHINING



BURNING



ASSEMBLING



PAINTING



WELDING/FABRICATING

# PLATE-FAB



Unitized cutting machine offers both water table or downdraft table.

## Precision that will get you more jobs.

The Plate-Fab cutting machine gives smaller fabricators more precision and more production options at a lower cost. This machine can be configured with one plasma cutting torch and/or one oxy-fuel torch. Plasma options include the latest technology on the market, such as TrueHole™, RapidPart™, and SureCut™ by Hypertherm®.

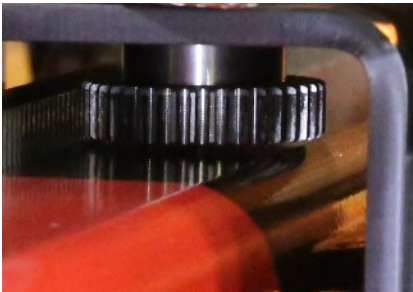
The Plate-Fab was designed to be a unitized, double-walled downdraft cutting table that isolates sparks and fumes while providing insulation that reduces heat transfer from the torch to the machine. The downdraft table also has easy-to-remove clean-out pans that reduce the time needed for cleaning. The optional manual pneumatic raise/lower water table reduces smoke, sparks and dust and allows the operator to set the correct water level using pneumatics.



**Stationary Control Stand with Emergency Stop**  
(Shown with Edge Pro Ti controller)



**Tuck Rail Design**  
Protects linear bearings, cable carrier, cables and hoses from harsh environments.



**Precision Ground Rack & Drive Pinions**  
Large diameter pinions provides accurate and smooth machine motion.



**Low Backlash Planetary Gearboxes**  
For smooth and accurate motion



**Heavy-duty Linear Bearings both "X" & "Y" Axis**  
Provide smooth and accurate motion

# STANDARD EQUIPMENT



## Hypertherm EDGE® Pro Ti with Sensor Ti Torch Height Control

- X&Y Axis 450 Watt Integrated Drives
- Z Axis 100 Watt Integrated Drives
- Windows® Xpe
- 250GB SATA Hard Drive
- 2.0 Ghz Celeron Core CPU
- 15" Glass Touchscreen
- Minimum 1GB Memory
- 2 USB 2.0 Ports
- Part Program Support
- Remote Help
- Networking Wireless, LAN, Hypernet RS232/422
- DXF Input
- Simple Shape Nesting
- Cut Pro Wizard
- Sensor Ti THC with magnetic torch breakaway



## Flashcut Titanium Series CNC With Stingray Plasma Height Control

- DC Micro Stepper Drives
- 15 inch touch screen
- Nema 4 Waterproof Keyboard
- Integrated E-Stop
- Realtime visualization of torch path
- Windows 7 Pro
- 5<sup>th</sup> generation Intel I3 Microprocessor or better
- 8GB RAM or better
- 120 GB SSD or better
- 2 USB Ports
- Standard editable shape library
- On-board Completely integrated Flash Cut 2D CAD/CAM package
- DXF import/Silhouette import
- On-board automatic nesting software
- On-board Lead in and lead out type, positioning and length adjustment
- Remote diagnostics
- One seat of Flashcut Titanium Software for remote PC installation
- With Stingray THC and magnetic torch breakaway

# PLASMA SYSTEMS

## HyPerformance® Plasma HPR<sup>XD</sup>



- HPR130xd**  
Production Pierce 3/4" Mild Steel
- HPR260xd**  
Production Pierce 1-1/4" Mild Steel
- HPR400xd**  
Production Pierce 2" Mild Steel



**True Hole™ Ready**  
Available with True Hole Technology



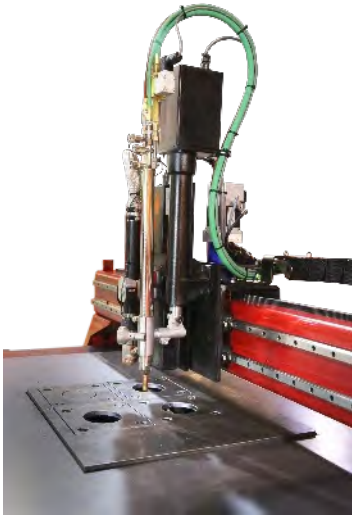
- powermax65- Production Pierce 1/2" Mild Steel
- powermax85- Production Pierce 5/8" Mild Steel
- powermax105- Production Pierce 3/4" Mild Steel
- powermax125- Production Pierce 1" Mild Steel

## MAX<sup>PRO</sup>200®

Production Pierce 1" Mild Steel  
Liquid Cooled Torch



# OXY-FUEL & TABLE OPTIONS



## Oxy-Fuel Torch Stations

Model "G" motorized torch lifter, 6-inch (150mm) stroke at 40 IPM. Fuel, preheat and cutting oxygen hoses. Individual gas control solenoids. Koike 500L oxy-fuel torch.



Water Table with Manual fill and Clean Out Pans

Single Zone Downdraft Table with roll out slag pans  
Optional: Fume extraction unit

# WORKSHEET

Effective Cutting Width and Length:  5ftx10ft  5ftx12ft  6ftx10ft  6ftx12ft

**Material Thickness Range and Material Type:**

Plasma Thickness:  Oxy-Fuel Thickness:

## CNC Controller/Height Control Package

Hypertherm® Edge Pro Ti/Sensor Ti THC  
(Compatible with conventional & hi-definition plasma systems)

Flashcut Titanium / Flashcut PHC  
(Compatible with conventional plasma types only)

## Plasma Type

Conventional  Hi-Definition

**Voltage:**

## Plasma System

Hypertherm®

## Oxy-Fuel

Fuel-Gas Type:

## Offline Software

Hypertherm® ProNest

Flashcut Titanium

## Cutting Tables

Water table insert and manual fill

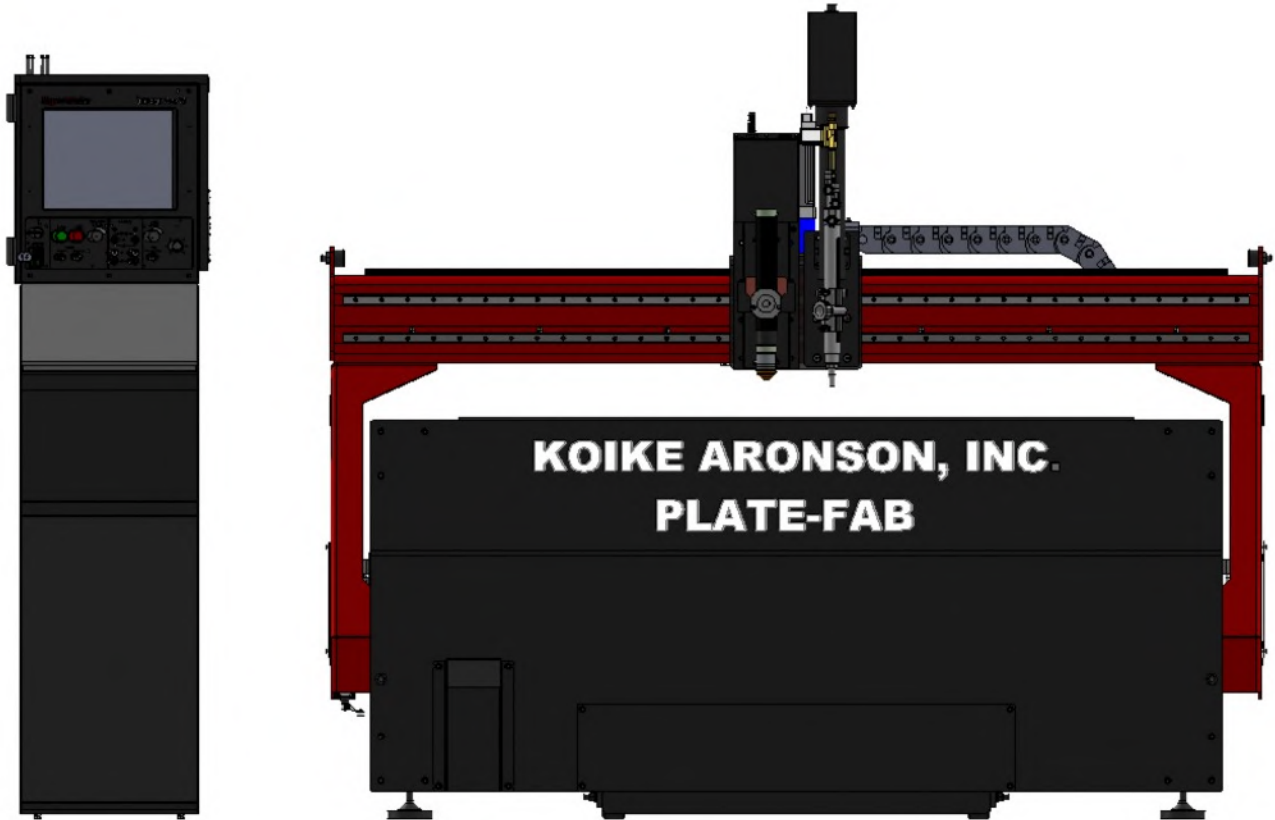
Water Table with Pneumatic Raise/Lower

Downdraft Table Single Zone

Fume Collector



# SPECIFICATIONS



MODELS	PLATE-FAB 510	PLATE-FAB 512	PLATE-FAB 610	PLATE-FAB 612
Effective Cutting Width	60 in	60 in	72 in	72 in
Effective Cutting Length	120 in	144 in	120 in	144 in
Machine Width	85 1/8 in	85 1/8 in	97 1/8 in	97 1/8 in
Machine Length	156 in	180 in	156 in	180 in
Maximum Plate Capacity	2 in	2 in	2 in	2 in
Rapid Traverse Speed	4-1000 IPM	4-1000 IPM	4-1000 IPM	4-1000 IPM
Contour Speed (Max.)	400 IPM	400 IPM	400 IPM	400 IPM
Machine CNC	Hypertherm® Edge Pro Ti or Flashcut Titanium			
Machine Drive System	DC Servo	DC Servo	DC Servo	DC Servo
Maximum Plasma or Marker Stations	1	1	1	1
Maximum Oxy-Fuel Stations	1	1	1	1
Machine Voltage	115VAC @ 15 Amps	115VAC @ 15 Amps	115VAC @ 15 Amps	115VAC @ 15 Amps

Specification are subject to change without notice.

# CUTTING, POSITIONING & WELDING EQUIPMENT



## Koike Aronson, Inc./Ransome



635 W. Main Street  
P.O. Box 307  
Arcade, NY 14009

Phone: (585) 492-2400  
Fax: (585) 457-3517  
Toll Free: (800) 252-5232

[www.koike.com](http://www.koike.com)



## Koike Aronson Brasil



Rua Agostinho Mazza N° 31  
Bairro Parque do Trevo  
Jaboticabal - SP  
CEP 14871-710

Tel/Fax: (16) 3202-8439

[www.koike.com/br](http://www.koike.com/br)



**COMPLETE  
METALWORKING  
SOLUTIONS**

**(800) 991-4225**

[www.ahbinc.com](http://www.ahbinc.com)

ISO Certified

[customerservice@ahbinc.com](mailto:customerservice@ahbinc.com)

