CUTTING, POSITIONING & WELDING EQUIPMENT

PLATE-FAB
CNC PLASMA/OXY-FUEL CUTTING MACHINE

Koike Aronson, Inc./Ransome
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.
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!
Phone: (585) 492-2400
Toll Free: (800) 252-5232
Fax: (585) 457-3517
The Plate-Fab cutting machine gives fabricators more precision and more production options at a lower cost. This machine can be configured with one plasma cutting torch and an optional oxy-fuel torch. The machine can be equipped with the latest technology to maximize cut quality utilizing the best that plasma can offer.

The Plate-Fab’s unitized design offers two different table configurations. A 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, roll-out, clean-out pans that reduce the time needed for cleaning and shop floor space. The manual fill water table reduces smoke, sparks and dust. The optional manual pneumatic raise/lower water table allows the operator to set the correct water level.

**Precision that will get you more jobs.**

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

Edge Connect TC - CNC Controller with Sensor THC Torch Height Control
- Windows® 10 Embedded
- Intel J1900 Quad-core MCU or equivalent
- 120GB SSD Hard Drive or better
- 4 GB DDR3 or better
- 19 inch Glass Touchscreen
- IntelliTouch Pro PCAP
- 2 USB 2.0 Ports
- Built in Wireless Communication
- Forward and backup on path function
- Skip to pierce or Skip part function
- Part Program Support
- Remote Help
- Supports Networking

Flashcut Titanium Series CNC With Stingray Plasma Height Control
- 19 inch touch screen
- Nema 4 Waterproof Keyboard
- Integrated E-Stop
- Realtime visualization of torch path
- Windows 10
- 5th 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

Hypertherm® ProNest® 2017
- X&Y Axis 450 Watt Integrated Drives
- Z Axis 100 Watt Integrated Drives
- Windows® Xpe
- 250GB SATA Hard Drive
- 1.5 Ghz Cereron Core CPU
- 15” Glass Touchscreen
- Minimum 1GB Memory
- 2 USB 2.0 Ports
- Part Program Support

Hypertherm® ProNest® 2017 Software
- Auto Gas Support
- DXF Input
- Simple Shape Nesting
- Select-able Process Parameter table
- Cut Pro Wizard
- Pronest CNC version included (single part nesting)
- Optional multiple part nesting available
- Sure Cut technologies (True hole, Rapid Part when applicable)

Machine Voltage/Drive System
- Machine Input Power: 208VAC, 220VAC or 230VAC 60hz single phase 15amp or 230VAC or 240VAC Three phase 15amp
- AC Servo Drives

Software
Flashcut CNC Version 6.0
- From CAD to CAM to CNC in One Integrated Program
- CAD for drawing any 2-D shape
- CAM with automatic generation of lead in/outs
- Cut Wizard sets precise feedrates, cut heights based on material thickness
- Automatic kerf compensation
- Simple import of pictures and drawings
- True shape nesting of multiple parts
- One click brings tool path to CNC controller

* Software for Flashcut & Stingray THC
PLASMA SYSTEM OPTIONS

High Definition and Conventional Plasma Systems

Automatic or Manual gas setting. Koike Aronson offers high quality plasma cutting systems by Hypertherm®.

Each of these systems offer a wide variety of features and benefits. From the most basic systems to the most advanced in the market, KOIKE offers a plasma that is sure to meet your needs.

Choosing the right options for your application is not easy. Many options exist for the Plate-Fab. When you decide to buy a cutting machine from KOIKE, not only are you getting a high quality machine designed to perform and last, but most importantly, you are getting the know-how that comes with almost a century worth of experience.

Your application, your job and your factory come first. You’ll find that working with our Cutting Machine Business Unit means attention to detail and finding the right machine that fits your application(s) and your budget too.

Optional Gas Console Boxes

Vented Water Injection™

- SS & AL H₂O/N₂ Process
- SS & AL F5 Gas Process
- AR Argon marking, Argon Pierce Assist
- Production Pierce: 2" Mild Steel
  1 ½" Stainless Steel

OptiMix™ console

- Multi Gas Process
- Includes all core and VWI processes.
- Production Pierce: 2" Mild Steel
  1 ½" Stainless Steel
OXY-FUEL SYSTEMS & OPTIONS

Koike D7 Cutting Tips
- Safer Operation
  Koike’s 100 Series tips are designed to reduce backfires to keep the operator and torch safe
- High Quality
  Each tip is thoroughly tested to ensure consistent high-quality cutting in every tip
- Faster Cutting
  Our high-speed divergent tip increases cutting speed by 20-28% over standard tips
- Gas Savings
  Gas consumption is reduced up to 26%
- Durable
  A stainless steel cutting oxygen liner results in the tip lasting up to five times longer over standard tips

Koike Torch Bevel Head Attachment
The bevel head attachment is used in place of a Koike cutting tip. It is used for bevel cutting operations, including top and bottom bevel cuts.

Koike Twin Tip Holder
Converts a single oxy-fuel cutting torch into dual cutting torches. Allows strip cutting and a closer distance between small parts.

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.
STANDARD TABLES OFFERED

Water Table Manual Fill
The Koike Water Table is an economic solution to reducing smoke, sparks and dust into the environment.

- Constructed out of mild steel, the table offers a heavy-duty design with re-enforced side walls for extra durability.
- This table is designed for 2 inch thick plate
- Easy lift lugs allow you to lift the whole slat and pan assembly or just each individual component of this assembly. As an example, it allows for lifting of the slat holder and slats to allow for easy access to the slag pan underneath.
- ¼ inch thick slats are 3-inches apart on center.

Downdraft Table with Slag Pans stored underneath

- Easy roll-out connecting slag pans make cleaning the table easier and faster than other conventional methods.
- Pan removal from the front of the machine help reduce the machines overall footprint, ultimately saving shop space.
- Table has individual removable slats.
**Fume Extraction Unit**
- Compact Design
  - Minimize floor space
- Powerful Performance
  - Proprietary ExtraLife™ Filter Cleaning System provides 30% more cleaning energy.
- Cost Savings
  - Fewer filter change outs, reduced filter disposal costs, less energy usage.
- Optional Items
  - Winter weather
  - Remote start

**Automatic Calcium Carbonate Dispenser (CaCo3)**
Reduces the possibility of hypothetical explosion in the dust collector or air duct while cutting aluminum plate, by injecting CaCo3 as inertizing.
- 12 Gal. Calcium Carbonate container
- Pneumatic actuated ball valve for the CaCo3 delivery system
- Automatic system CaCo3 quantity regulation injected in the air duct
- Automatic CaCo3 weighting system
- Control Panel complete with CaCo3 gravimetric dosage controller
- Protection cover for humidity and dust installed in the CaCo3 container
- CaCo3 minimum level indicator

**Water Table Pneumatic Raise/Lower**
- Constructed out of mild steel, the table offers a heavy-duty design with re-enforced side walls for extra durability.
- This table has a steel tank air bladder that allows for raising and lowering the water level.
- This table is designed for 2 inch thick plate
- Easy lift lugs allow you to lift the whole slat and pan assembly or just each individual component of this assembly. As an example, it allows for lifting of the slat holder and slats to allow for easy access to the slag pan underneath.
- ⅛ inch thick slats are 3-inches apart on center.
- Manual open/close air valve to control water height.
Effective Cutting Width and Length:  
- ☐ 5ft x 10ft
- ☐ 5ft x 12ft
- ☐ 6ft x 10ft
- ☐ 6ft x 12ft

Material Type (circle all that apply):  
- ☐ Mild Steel
- ☐ Stainless Steel
- ☐ Aluminum

Material Thickness Range (up to 2 inch):  
- ☐ Plasma Thickness
- ☐ Oxy-Fuel Thickness

CNC Controller/Height Control Package

- ☐ Hypertherm® EDGE Connect/Sensor THC  
  (Compatible with conventional & hi-definition plasma)
- ☐ Flashcut Titanium / Flashcut PHC  
  (Compatible with conventional plasma types only)
- ☐ Hypertherm® Edge Pro Ti/Sensor Ti THC  
  (Compatible with conventional & hi-definition plasma systems)

Oxy-Fuel

Fuel-Gas Type:  

Offline Software

- ☐ Hypertherm® ProNest
- ☐ Flashcut Titanium

Plasma Type

- ☐ Conventional
- ☐ Hi-Definition

Voltage:  

Plasma System

- ☐ Hypertherm®
## SPECIFICATIONS

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<tr>
<th>MODELS</th>
<th>PLATE-FAB 510</th>
<th>PLATE-FAB 512</th>
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Specification are subject to change without notice.