PLATE PRO
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
We Make Metal More Profitable

The Koike Aronson, Inc./Ransome’s Plate Pro® is the most competitive in its’ class. As well as being very affordable, the Plate Pro® is full featured, easy to install, and simple to operate. Plate cutting is now practical for areas with limited space.

The Plate Pro® is a rigid rail, rapid traverse, and multi-tool station cutting system. Available in 5, 6, and 8 foot cutting width and 10, 12, 20, and 24 foot cut lengths. Utilizing a rigid beam and pedestal mounted precision rail system, the Plate Pro® provides movement to maintain critical accuracy at the Plate Pro’s high 800IPM rapid traverse speeds.

Offering up to four tool stations, the Plate-Pro® can be outfitted with dual plasma cutting systems, up to three oxy-fuel cutting stations, or a combination of oxy-fuel, plasma and plate marking systems.

Hypertherm EDGE® Pro Ti
- X&Y Axis 450 Watt Integrated Drives
- Z Axis 100 Watt Integrated Drives
- Windows® Xpe
- 250GB SATA Hard Drive
- 2.0 Ghz Cereron Core CPU
- 15” Glass Touchscreen
- 2 USB 2.0 Ports
- Part Program Support
- Remote Help
- Networking Wireless, LAN, Hypernet RS232/422
- DXF Input
- Simple Shape Nesting
- Cut Pro Wizard

Hypertherm® Sensor-Ti Torch Height Control
- Integrated Drive motor and Sensor THC Technology
- Stroke length: 152mm (6 in.)
- Max. Speed: 10,160mm/min. (400 IPM)
- Designed for conventional plasma systems
- Rapid Part Technology
- Magnetic Torch Breakaway Collision

Operator Console
Hard-wired switches for selecting oxy-fuel station, oxy-fuel processes and gas system control.

Emergency Stop Button
E-Stop button quickly and safely shuts off machine motion and cutting process, including oxy-fuel gases to the torches.
**STANDARD EQUIPMENT**

**Slave Carriage Band Clamp**
Allows easy and accurate placement and spacing of tools such as oxy-fuel and plasma torches.

**Linear Way and Heat Shields**
Replaceable linear roundway provides for a smooth and accurate cutting motion. Heavy duty heat shields protect machine from heat and sparks.

**Maintenance Free Guide Rollers**
Sealed bearings for linear roundway

**Rail Axis Cable Carrier**
Is mounted to the rail pedestal weldment. The cable carrier keeps all of the hoses & cables organized during machine movement.

**Rail Axis Drive Rail**
Precision ground rail and rigid pedestal weldment provides the stability for smooth and accurate machine motion.
STANDARD EQUIPMENT

Rail Axis & Cross Axis Limit Switches
Used for over-travel as well as homing of the machine.

Large Diameter Drive Pinions
Large diameter pinions offer accurate and smooth machine motion.

PLASMA SYSTEMS

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

MAXPRO 200
Production Pierce 1” Mild
Steel Liquid Cooled Torch
**Optional Equipment**

**Manual Plasma Bevel Station**
Bevel in the rail axis only. Non-contour mechanical adjustment from +/- 0 - 45°.

**Laser Pointer**
Allows operator a visual indicator for plate alignment and torch positioning.

**Pneumatic Dot-Peen Pin Stamp Marker Station**
Carbide tipped variable speed punch for marking bend lines, layout lines, drill locations and alphanumeric text as small as 1/4" high.

**Hypertherm® ProNest LTS and LT Software**
ProNest LTS (formerly known as NestMaster) is a CAD/CAM nesting software designed for light industrial, mechanized cutting in job shop environments. It provides a software solution for one cutting machine, equipped for either conventional plasma or oxy-fuel.

ProNest LT (formerly known as TurboNest) is a powerful CAD/CAM nesting software designed for light industrial, mechanized cutting in production environments. It provides a single software solution for all of your conventional plasma and oxy-fuel cutting machines.
OXY-FUEL SYSTEMS & OPTIONS

Oxy-Fuel Torch Stations
(Up to three stations available)
Model "G" motorized lifter, 6-inch (150 mm) stroke at 40 IPM.
All stations are controlled from Operator console. Standard 500L Koike torch with three cutting tips.

Auto Ignitor
Safely ignite oxy-fuel torches with the convenience of never having to leave operator station.

HI-LO Oxy-Fuel Gas System with Auto Ease-On
Allows HI-LO preheat for fast preheating of plate and superior cutting quality. Features auto ease-on pierce control for cut oxygen. Allows for precise piercing on thicker plate. Maximum 4" (100 mm) thick material with 3 torches.

Oxy-fuel Manual Bevel Attachment
The bevel attachment is used in place of a Koike cutting tip. It is used for bevel cutting operations, including top and bottom bevel cuts.

Koike D7 Cutting Tips
- Safer Option
  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 Twin Tip Holder
Converts a single oxy-fuel cutting torch into dual cutting torches. Allows strip cutting and a closer distance between small parts.
The Koike Downdraft table is as big, or as small, as most workpieces you’ve got. Its modular design lets you add space as you need it, with a maximum material thickness of 6 in.

Operation is simple: there are no electronic components, and slat frames and slag pans remove easily for cleaning. Fume extraction is everything you need, thanks to multiple zones for optimal fume extraction. Downdraft tables are used primarily for plasma cutting and combined with fume extraction units that filter the air back to the factory. Downdraft tables provide the best option for high-quality cutting with high-density plasma systems.

Koike Zoned Downdraft Cutting Table

The Koike Downdraft table is as big, or as small, as most workpieces you’ve got. Its modular design lets you add space as you need it, with a maximum material thickness of 6 in.

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Table Options

Koike Water Cutting Table

The Koike water cutting table is an economic solution to reducing smoke, sparks and dust into the environment. It can be used for both oxy-fuel and plasma cutting. While not the most optimized solution for high density plasma systems, it still provides good results in cut quality.

Constructed out of 1/4" thick steel the table offers a heavy duty design with re-enforced side walls for extra durability. The steel tank air bladder allows raising and lowering the water lever with air. The design of the table allows 6" thick plate and under to be leveled to the table for more accurate cutting.

1/8" thick slats are spaced 3" apart and curved to help stop small parts from falling into table and prevent straight line cutting along a slat. This feature reduces slag along the bottom of parts and prolongs the life of the slats. Easy lift lugs allows you to lift the whole slat and pan assembly or each individual component of this assembly. As an example: it allows for the lifting of slats and the holder for easy access to collector pans.

Koike Water Cutting Table

The Koike water cutting table is an economic solution to reducing smoke, sparks and dust into the environment. It can be used for both oxy-fuel and plasma cutting. While not the most optimized solution for high density plasma systems, it still provides good results in cut quality.

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Fume Extraction Unit

For downdraft table.

Downdraft Table Trip Arm

Mechanical trip arm that opens and closes zones in the Koike Downdraft table. No pneumatic or electrical components are required.
Effective Cutting Width: [ ] Effective Cutting Length: [ ]

Material Types: [ ]

**Material Thickness Range**
- Plasma Thickness: [ ]
- Oxy-Fuel Thickness: [ ]

**Plasma System**
- [ ] Hypertherm®

**Plasma Bevel**
- [ ] Manual Type

**Plasma Height Control**
- [ ] Hypertherm® Sensor Ti

**Material Thickness Range**
- [ ]

**CNC Controller**
- [ ] Hypertherm® Edge Pro Ti
- [ ] Conventional

**Plasma Type**
- Quantity: [ ]
- Voltage: [ ]

**Oxy-Fuel**
- Quantity: [ ]
- Fuel-Gas Type: [ ]
- Auto Ignition
- Manual Bevel Attachment

**Cutting Tables**
- Pneumatic Water
- Dry
- Downdraft
- Fume Collector

**Plate Marking**
- Pneumatic Dot Peen

**Offline Software**
- [ ] Hypertherm® CAM Solutions
- [ ] SigmaNEST
## SPECIFICATIONS

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<tr>
<th>MODELS</th>
<th>PLP1500</th>
<th>PLP2000</th>
<th>PLP2500</th>
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<tr>
<td>Total Machine Width [A]</td>
<td>133 in</td>
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<td>Machine Rail Gauge [B]</td>
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<td>Width Between Rail Supports [C]</td>
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<td>Rapid Traverse Speed</td>
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<td>Contour Speed (Maximum)</td>
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<td>Machine CNC (Standard)</td>
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Specifications are subject to change without notice.