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
Koike Aronson Inc./Ransome has designed the PlateProX HD - to provide excellent thermal cutting at an affordable price. This automated dual side drive, plasma/oxy-fuel cutting machine is cost efficient and is manufactured in the USA. There is also a two-year warranty. The PlateProX HD utilizes the latest technologies to provide unmatched speed, accuracy, versatility and durability in a thermal cutting machine. Designed to satisfy the world’s most demanding customer requirements, the PlateProX HD has been engineered to maximize its’ performance while costing so little. Steel Service Centers, Heavy Fabricators, Tank Manufacturers, Shipbuilders and General Fabricators are just a few of the PlateProX HD target customers.
Standard Equipment

Limit Switches
Used for over-travel as well as homing of the machine.

Koike Engineered Main Electrical Enclosure
Offers “off-the-shelf” components including Yaskawa drives and motors.

Linear Way and Helical Rack
25mm linear rails and AGMA 12 helical rack and pinion provides smooth and accurate motion.

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

Main Beam Construction
Solid steel fabricated construction. Includes precision machining for linear bearings and rack.

Floor Mounted Rails
Mounted on a fixed base plate
Provides highly accurate symmetry for the basis of precision cutting and smooth motion. Allows expansion of rail length and use on a common rail for two or more machines.

Rail Axis Cable Carrier
Can be mounted on the floor or overhead.
OPTIONAL CNC CONTROLS

Edge Connect TC - CNC Controller

- 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 with 1366x768 Native resolution
- IntelliTouch Pro PCAP (Projected Capacitive touch technology)
- 2 USB 2.0 Ports
- Built in Wireless Communication
- Two Plasma Station Operator Console
- Forward and backup on path function
- Skip to pierce or Skip part function

- Part Program Support
- Remote Help
- Supports Networking
- 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 upon request
- Sure Cut technologies applied (True hole, Rapid Part and True Bevel when applicable)

PLASMA SYSTEMS & OPTIONS

Hypertherm®

XPR300

Redefining what plasma can do.

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 PlateProX HD. 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.

HPR1 30xd
Production Pierce 3/4" Mild Steel

HPR2 60xd
Production Pierce 1-1/4" Mild Steel

HPR4 00xd
Production Pierce 2" Mild Steel

powermax® series

MAXPRO® 200
Production Pierce 1" Mild Steel
Liquid Cooled Torch

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

HyPerformance
Plasma HPR

XD®
PLASMA SYSTEMS & OPTIONS

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

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

Koike Integrated Sensor THC Torch Height Control
- 12” (340.8 mm) Lifter Travel
- 1,000 IPM Programmable Lifter Speed
- Adjustable stroke retract between cuts
- Dynamic positioning.

Collision Detection Mount
- Magnetic integral breakaway for collision detection and system shutdown
- Primary Ohmic contact plate sensing for clean plate
- Secondary plate sensing means for scaled/rusty plate
- Primary and secondary means for lifter homing

MARKING OPTIONS

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

Plasma Plate Marking
Low amperage plasma marking with the ability to adjust marking depth through the CNC parameters.
OXY-FUEL SYSTEMS & OPTIONS

Oxy-Fuel Torch Stations
(Up to four stations available)
Model "G" motorized lifter, 6-inch (150 mm) stroke at 40 IPM. All stations are controlled from Operator console. 500L Koike torch offers 1/8" to 1/2" (3 mm to 300 mm) thick plate cutting available.
Capacitive height control (not shown) and automatic ignition available (optional).

Auto-Gas Oxy-Fuel Gas System
Precise control of gas manifold pressure. CNC controlled oxy-fuel processes.

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 in (100 mm) thick material with 4 torches.

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.
**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.

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 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.

**Optional Fume Collectors**

Fume Extraction Unit
- For downdraft table
Effective Cutting Width: [ ] Effective Cutting Length: [ ]

Material Types: [ ]

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

**CNC Controller**
- Hypertherm® EDGE Connect

**Plasma Type**
- Quantity: [ ]
- Voltage: [ ]
- Hi-Definition
- Conventional

**Rail Axis Cable Carrier**
- Floor Mounted
- Overhead Mounted
  - 9m maximum length

**Plasma System**
- Hypertherm®

**Plasma Bevel**
- Manual Type

**Plasma Height Control**
- Koike Sensor - THC

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

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

**Offline Software**
- Hypertherm® CAM Solutions
**SPECIFICATIONS**

**MODELS**

<table>
<thead>
<tr>
<th></th>
<th>PLPXHD 2000</th>
<th>PLPXHD 2500</th>
<th>PLPXHD 3100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Cutting Width (Master)</td>
<td>72 in</td>
<td>96 in</td>
<td>120”</td>
</tr>
<tr>
<td>Distance Between Rail Pads</td>
<td>98 ¾ in</td>
<td>122 ¾ in</td>
<td>146 ¾ in</td>
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<tr>
<td>Machine Rail Gauge</td>
<td>114 ¾ in</td>
<td>138 ¾ in</td>
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<tr>
<td>Machine Width</td>
<td>160 in</td>
<td>184 in</td>
<td>208 in</td>
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<tr>
<td>Effective Cutting Length (Expandable)</td>
<td>168 in</td>
<td>168 in</td>
<td>168 in</td>
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<tr>
<td>Machine Rail Support H-Beam</td>
<td>22kg Floor Mount</td>
<td>22kg Floor Mount</td>
<td>22kg Floor Mount</td>
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<tr>
<td>Rapid Traverse Speed</td>
<td>1500 IPM</td>
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<tr>
<td>Contour Speed (Maximum)</td>
<td>400 IPM</td>
<td>400 IPM</td>
<td>400 IPM</td>
</tr>
<tr>
<td>Machine CNC</td>
<td>Hypertherm® EDGE Connect</td>
<td>Hypertherm® EDGE Connect</td>
<td>Hypertherm® EDGE Connect</td>
</tr>
<tr>
<td>Machine Drive System</td>
<td>AC Servo</td>
<td>AC Servo</td>
<td>AC Servo</td>
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<tr>
<td>Maximum Number Of Slave Stations</td>
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<td>Maximum Plasma or Marker Stations</td>
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<tr>
<td>Maximum Oxy-Fuel Stations</td>
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<td>Oxy-Fuel Gas System</td>
<td>Hi-Lo/Auto</td>
<td>Hi-Lo/Auto</td>
<td>Hi-Lo/Auto</td>
</tr>
<tr>
<td>Machine Voltage</td>
<td>208-230/1/60 @ 20 AMP</td>
<td>208-230/1/60 @ 20 AMP</td>
<td>208-230/1/60 @ 20 AMP</td>
</tr>
</tbody>
</table>

Specification are subject to change without notice.