CNC PLASMA & OXY-FUEL CUTTING MACHINE
Koike Aronson Inc./Ransome has designed the PlateProXHD 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 U.S.A. There is also a two-year warranty. The PlateProXHD 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 PlateProXHD target customers.

Operator Console
Hard-wired switches for powering machine, selecting oxy-fuel station, operation and E-stop button. Swivels to the left or right for better ergonomic machine operation.

Operator Station
with handles, for ease and comfort.

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**

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

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

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

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.

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

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®

XPR170 & 300
Redefining what plasma can do.

HyPerformance
Plasma HPR®

XDR

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.

Hypertherm®

XPR170 & 300
Redefining what plasma can do.

Powermax®

Series
MAX(Pro)200°
Production Pierce 1” Mild Steel
Liquid Cooled

HPR400xd
Production Pierce 2” Mild Steel

HPR800xd
Production Pierce 2” Mild Steel

powmax65 - Production Pierce 1/2” Mild Steel
powmax85 - Production Pierce 5/8” Mild Steel
powmax105 - Production Pierce 3/4” Mild Steel
powmax125 - Production Pierce 1” Mild Steel
3D-X Full Contour Bevel Head
- Performs A, V, X, Y, & K bevels
- One touch homing
- One touch alignment
- Integrated torch breakaway
- Concealed A/B axis motor and encoder cables
- Fast, smooth and precise motion
- Helical rack and pinion lifter design
- Can accommodate small corner loops
- Better hazard clearance at Y-axis 45 degrees

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

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.

MARKING OPTIONS

Plasma Plate Marking
Low amperage plasma marking with the ability to adjust marking depth through the CNC parameters.

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.
**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.

**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 12" (3mm to 300mm) thick plate cutting available. Capacitive height control (not shown) and automatic ignition available (optional).

**Koike Oxy-fuel Process Support (KOPS) technology**
Requires
- Fit-3 Oxy torch station with ignition and height control
- Koike Auto-gas control system for oxy torch
- ProNest Software

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

**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 slat and the holder for easy access to collector pans.

Optional Fume Collectors

Fume Extraction Unit
• For downdraft table
<table>
<thead>
<tr>
<th>Effective Cutting Width</th>
<th>Effective Cutting Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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Material Types: 

<table>
<thead>
<tr>
<th>Material Thickness Range</th>
<th></th>
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<tbody>
<tr>
<td>Plasma Thickness</td>
<td></td>
</tr>
<tr>
<td>Oxy-Fuel Thickness</td>
<td></td>
</tr>
</tbody>
</table>

Rail Axis Cable Carrier

- [ ] Floor Mounted
- [ ] Overhead Mounted

Material Thickness Range

Plasma System

- [ ] Hypertherm®

Plasma Bevel

- [ ] Manual Type
- [ ] 3D-X Full Contour

Plasma Height Control

- [ ] Koike Sensor - THC

Plasma System

- [ ] Hypertherm®

Plasma Type

- Quantity:
- Voltage:
- [ ] Hi-Definition

Oxy-Fuel

- Quantity
- Fuel-Gas Type
- [ ] Auto Ignition
- [ ] Capacitive Height Control
- [ ] Manual Bevel Attachment
- [ ] IHT Torch

Cutting Tables

- [ ] Pneumatic Water
- [ ] Dry
- [ ] Downdraft
- [ ] Fume Collector

Plate Marking

- [ ] Pneumatic Dot Peen

Offline Software

- [ ] Hypertherm® CAM Solutions

CNC Controller

- [ ] Hypertherm® EDGE Connect

Scan to fill out
# SPECIFICATIONS

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<thead>
<tr>
<th>MODELS</th>
<th>PLPXHD 2000</th>
<th>PLPXHD 2500</th>
<th>PLPXHD 3100</th>
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<tbody>
<tr>
<td>Effective Cutting Width (Master)</td>
<td>72 in</td>
<td>96 in</td>
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<td>Distance Between Rail Pads</td>
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<td>122 ¾ in</td>
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<td>Machine Rail Gauge</td>
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<td>Machine Width</td>
<td>160 in</td>
<td>184 in</td>
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<tr>
<td>Table Height</td>
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<td>30 in</td>
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<tr>
<td>Distance between heat shield &amp; floor</td>
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<td>44 7/16 in</td>
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<tr>
<td>Effective Cutting Length (Expandable)</td>
<td>168 in</td>
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<td>Machine Rail Support H-Beam</td>
<td>22kg Floor Mount</td>
<td>22kg Floor Mount</td>
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<td>Rapid Traverse Speed</td>
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<td>Contour Speed (Maximum)</td>
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Specifications subject to change without notice.
## Positioning Machine Line

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<th>Applications</th>
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<td>PORTABLE &amp; GAS APPARATUS</td>
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<td><strong>Portable Cutting Machines</strong></td>
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<tr>
<td><img src="image1" alt="Portable Cutting Machines" /></td>
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<tr>
<td><strong>Applications</strong></td>
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<tr>
<td><img src="image2" alt="Applications" /></td>
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<tr>
<td><strong>Portable Welding Machines</strong></td>
</tr>
<tr>
<td><img src="image3" alt="Portable Welding Machines" /></td>
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<td><strong>Hand Torches</strong></td>
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<td><img src="image4" alt="Hand Torches" /></td>
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<tr>
<td><strong>Cutting &amp; Welding - Gas Safety</strong></td>
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<tr>
<td><img src="image5" alt="Cutting &amp; Welding - Gas Safety" /></td>
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