

CUTTING, POSITIONING & WELDING EQUIPMENT

PLATE PRO EXTREME

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.



Cutting Machine Assembly

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.



World Class Service Support

We have the technicians, training, and engineering support to keep your machine running like new for years to come.

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!

Phone: (585) 492-2400

Toll Free: (800) 252-5232

Fax: (585) 457-3517



MANUFACTURING PROCESSES



LOGISTICS



SAWING / MACHINING



BURNING



ASSEMBLING



PAINTING



WELDING/FABRICATING

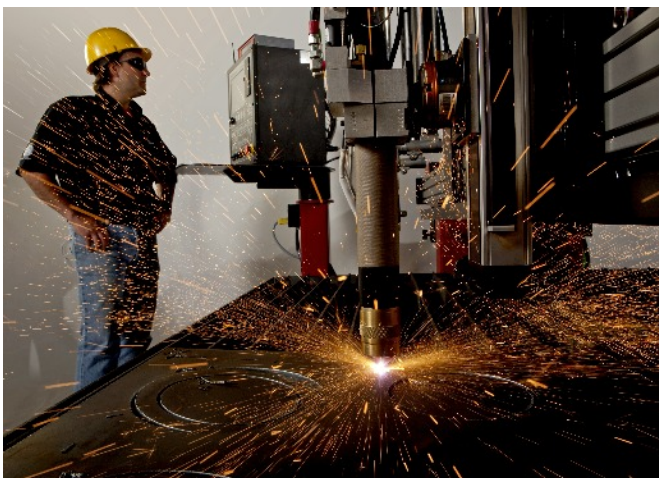
PLATE PRO EXTREME



Shown: Cutting table optional

“So Much Performance Has Never Cost So Little.”

Koike Aronson Inc./Ransome has designed the Plate Pro Extreme - 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 Plate Pro Extreme 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 Plate Pro Extreme 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 Plate Pro Extreme 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.



Emergency Stop Button

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



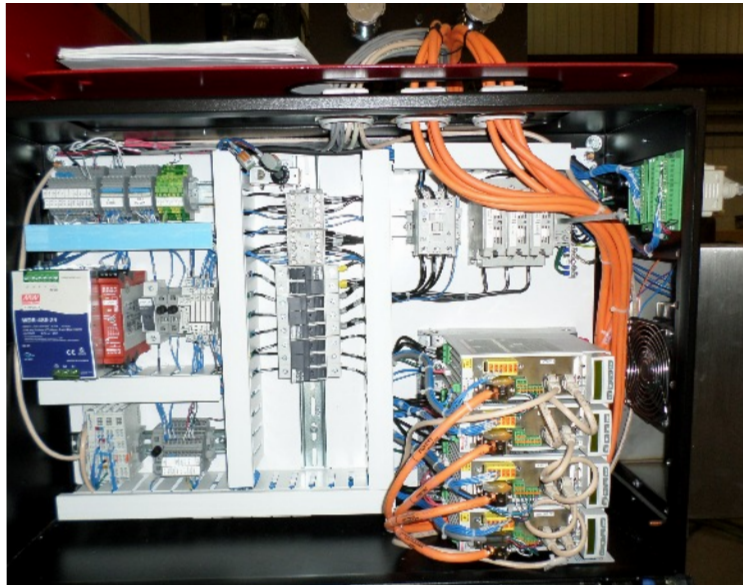
Linear Way and Heat Shields

Wide profile replaceable linear roundway provides for a smooth and accurate cutting motion. Heavy duty heat shields protect machine from heat and sparks.

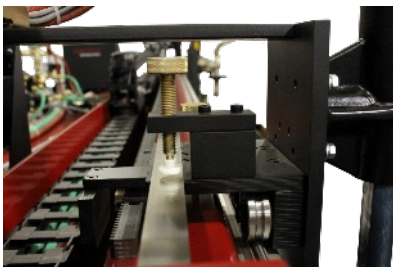
STANDARD EQUIPMENT



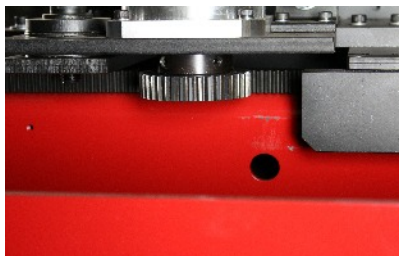
Limit Switches
Used for over-travel as well as homing of the machine.



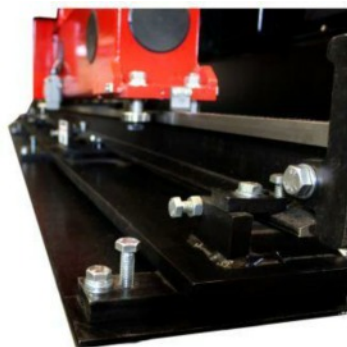
Koike Engineered Main Electrical Enclosure
Offers "off-the-shelf" components including Bosch Rexroth drives and motors.



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

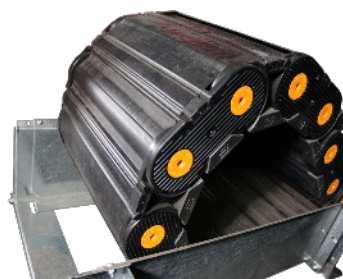
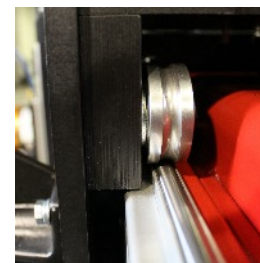


Large Diameter Drive Pinions
Large diameter pinions offer accurate and smooth machine motion.



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.

Maintenance Free
Sealed bearings for linear roundway



Rail Axis Cable Carrier
Can be mounted on the floor or overhead (optional and available up to 9 meters). A sealed design keeps hoses and cables protected from harsh environments.

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



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 Pro Extreme. 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 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 applications and your budget too.

With True Hole



Without True Hole



TrueHole™ Ready

TrueHole™ Technology founded by Hypertherm® produces a significantly better hole quality than what has been previously possible before using plasma. This technology was developed for mild steel from gauge to 1" (25 mm) and has been optimized from a 1:1 to a 2:1 diameter to thickness ratio.

PLASMA SYSTEMS & OPTIONS



Manual Plasma Bevel Station

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



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



Laser Pointer

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

MARKING OPTIONS



Pneumatic Dot-Peen Pin Stamp Marker Station

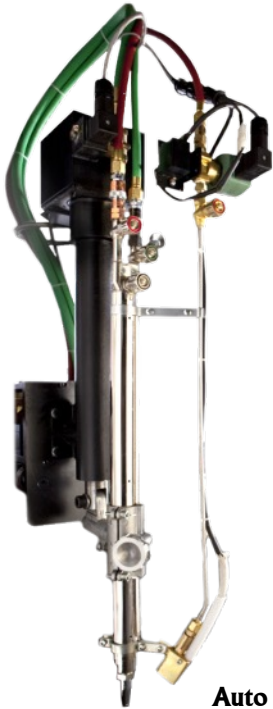
Carbide tipped variable speed punch for marking bend lines, layout lines, drill locations and lettering/numbering as small as 1/4" high.



Plasma Plate Marking

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

OXY-FUEL SYSTEMS & OPTIONS



Auto Ignitor

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

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



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

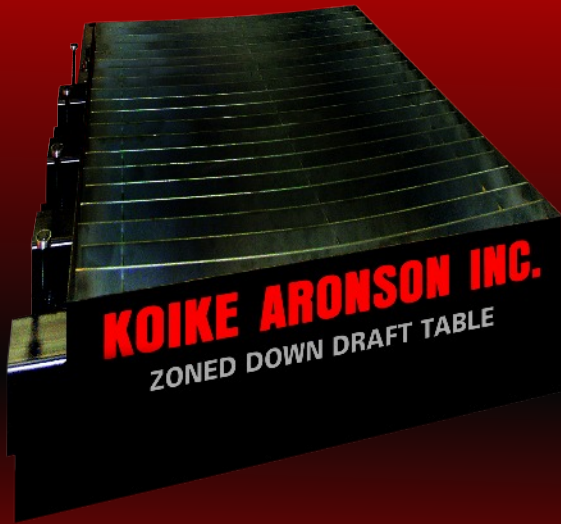
Converts a single oxy-fuel cutting torch into dual cutting torches. Allows strip cutting and a closer distance between small parts.



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.

TABLE OPTIONS



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.



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.

WORKSHEET

Effective Cutting Width: Effective Cutting Length:

Material Types:

Material Thickness Range

Plasma Thickness:

Oxy-Fuel Thickness:

Rail Axis Cable Carrier

Floor Mounted

Overhead Mounted
9m maximum length

Plasma System

Hypertherm®

Plasma Bevel

Manual Type

Plasma Height Control

Koike Sensor - THC

Plate Marking

Pneumatic Dot Peen

Offline Software

Hypertherm® CAM Solutions

SigmaNEST

CNC Controller

Hypertherm® EDGE CONNECT

Plasma Type

Quantity:

Hi-Definition

Voltage:

Conventional

Oxy-Fuel

Quantity: Fuel-Gas Type:

Auto Ignition

Manual Bevel Attachment

Cutting Tables

Pneumatic Water

Dry

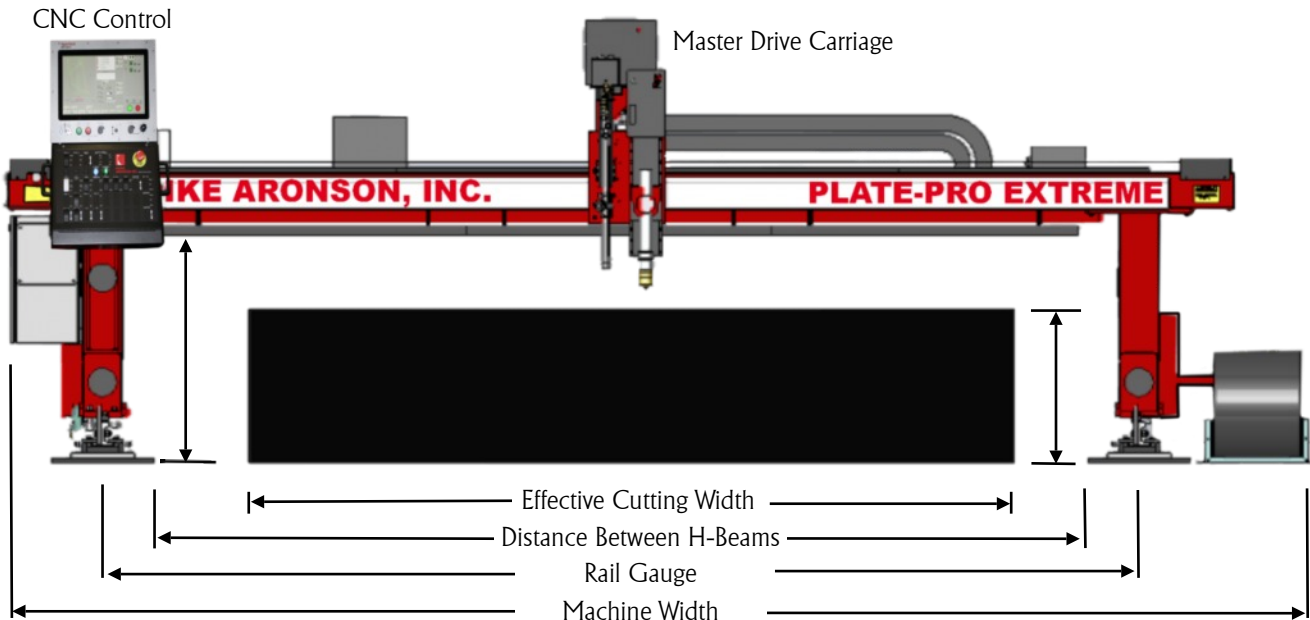
Downdraft

Fume Collector



Scan to fill out electronically

SPECIFICATIONS



MODELS	PLP EXT 2000	PLP EXT 2500	PLP EXT 3100
Effective Cutting Width (Master)	72 in	96 in	120"
Distance Between Rail Pads	98 ¾ in	122 ¾ in	146 ¾ in
Machine Rail Gauge	114 ¾ in	138 ¾ in	162 ¾ in
Machine Width	160 in	184 in	208 in
Effective Cutting Length (Expandable)	168 in	168 in	168 in
Machine Rail Support H-Beam	22kg Floor Mount	22kg Floor Mount	22kg Floor Mount
Rapid Traverse Speed	800 IPM	800 IPM	800 IPM
Contour Speed (Maximum)	400 IPM	400 IPM	400 IPM
Machine CNC	Hypertherm® EDGE Connect	Hypertherm® EDGE Connect	Hypertherm® EDGE Connect
Machine Drive System	AC Servo	AC Servo	AC Servo
Maximum Number Of Slave Stations	3	3	3
Maximum Plasma or Marker Stations	2	2	2
Maximum Oxy-Fuel Stations	4	4	4
Oxy-Fuel Gas System	Hi-Lo/Basic	Hi-Lo/Basic	Hi-Lo/Basic
Machine Voltage	208-230/1/60 @ 15 AMP	208-230/1/60 @ 15 AMP	208-230/1/60 @ 15 AMP

Specification are subject to change without notice.

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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



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

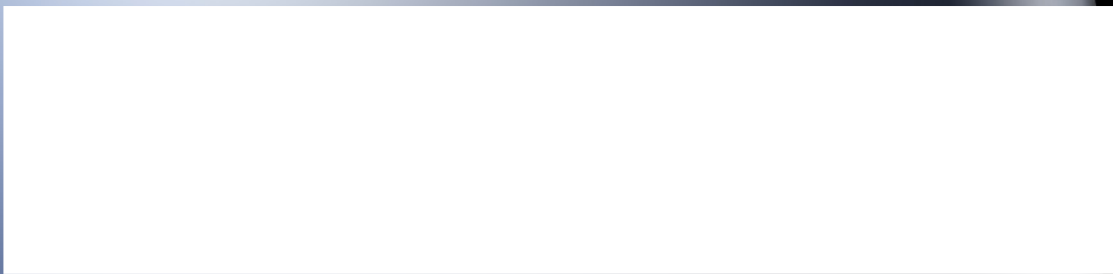


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