

CUTTING, POSITIONING & WELDING EQUIPMENT

SHOPPRO

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

SHOPPRO

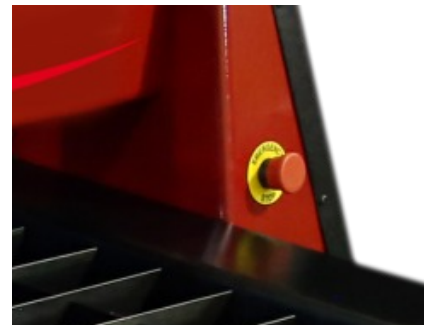


Water Table
with curved slats.

The ShopPro offers fabricators unprecedented value for small shops

The Koike Aronson ShopPro is the company's newest value-priced, made in America high performance cutting system, offering fabricators premium features in a package compact enough to fit in small shops. Ruggedly built, the ShopPro has the same reliability and accuracy found with all Koike Aronson cutting systems.

The ShopPro was developed with the help of feedback of fabricators and metal workers, who demanded a robust feature set at a reasonable price.

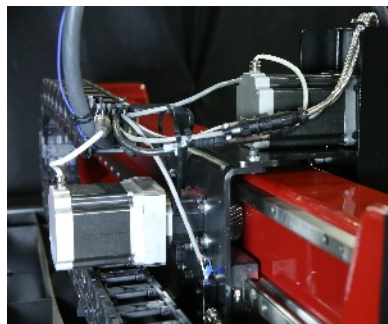


Emergency Stop Button
E-stop button located on each saddle quickly and safely shuts off machine motion and cutting process, including oxy-fuel gases to the torches.

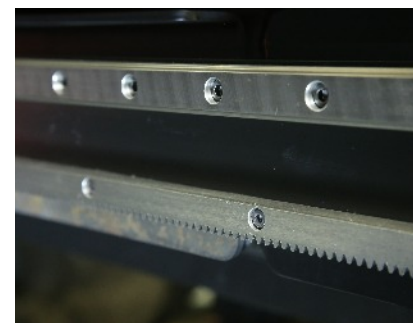


Dual Side Drive With Precision Ground Linear Bearings

Provides smooth and accurate motion



Precision Helical Gearboxes
With NEMA-34 Stepper motors.



Helical Gear Rack
with AGMA 12 grade ground pinions.

CNC CONTROL AND OPTIONS



FlashCut CNC All-in-One Motion Controller and 21" Panel PC

- Adjustable PC mount with access to all connections reducing exposed cabling on machine.
- Integrated plasma torch height control follows the sheet surface at the precise height

- On-board completely integrated FlashCut 2D CAM/CAD package includes:
 - Plasma support interface
 - Oxy-fuel support interface
 - True shape nesting
 - Material database (cut chart support)
 - Customizable cut charts
 - Customizable default lead-in, lead-out strategies
 - Commonly used plate list
 - Jump to line in program
 - Dry run
 - Momentary run
 - Run file forward and backwards

- Kerf crossing detection
- THC performance history chart
- Fix drawing tool
- Measuring tool
- Free form stretching and manipulation
- CAD layer support
- Centerline image import
- Silhouette image import
- DXF/DWG import
- Automatic kerf compensation
- Grid nesting
- Graphical editing of lead-in lead-out location
- Tabbng of part
- Overburn support
- Assign different operations to each part
- Cut sequencing
- Drag, Delete, Rotate, Copy parts on the nest
- Operation sequencing
- Cutout or part mode
- Custom views of kerf width, cut direction, toolpath, rapids and part geometry.



FlashCut Pro Version Software Package Upgrade includes:

- Standard Version 7 Software package
- Marker and Plasma Marking
- DXF Export
- Advanced text including true type font support without exploding and curved text around any shape
- Part shading
- 3D cutting simulation
- Automatic Lead-in on Restart
- Dynamic THC On/Off
- Progress meter
- Move to point in viewport
- Rip cutting
- Smart Touch Off
- Shape library
- Bridge entities tool
- Shape welding tool
- Part shading
- Multi layer color image import
- Import of parts from external files
- Multi-sheet and fill sheet trueshape nesting
- Corner looping
- Advanced leadin leadout editing
- Animated 3D Cutting Simulation
- Advanced small hole processing



Optional Laser Pointer

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



Optional Oxy-Fuel Torch

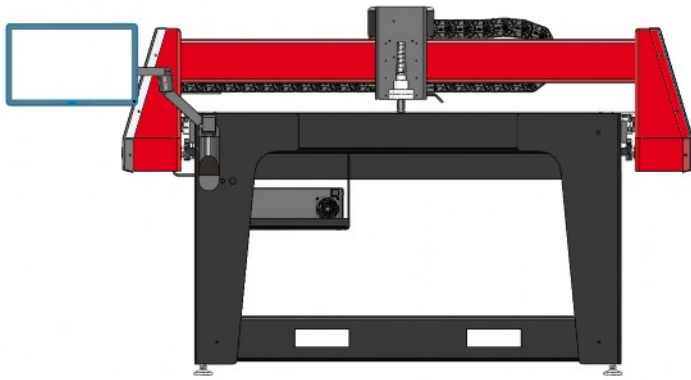
2" maximum material thickness

Koike D7 Cutting Tips

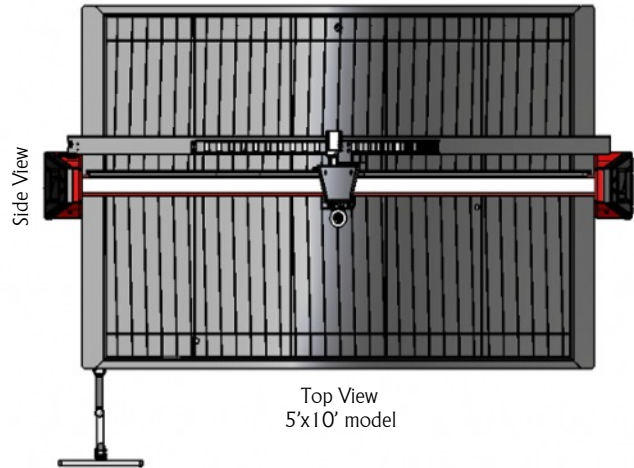
- Safer Option: Koike's 100 Series tips are designed to reduce backfires to keep the operator and torch safe
- High Quality: Each tip is thoroughly tested to ensure consistent high-quality cutting in every tip
- Faster Cutting: Our high-speed divergent tip increases cutting speed by 20-28% over standard 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



SPECIFICATIONS



Front View
4'x4' model



Top View
5'x10' model

SHOPPRO	SP-44	SP-48	SP-510
Effective Cutting Area	4 ft x 4 ft	4 ft x 8 ft	5 ft x 10 ft
Effective Cutting Width	48 in	96 in	120 in
Effective Cutting Length	48 in	48 in	60 in
Rapid Traverse Speed	1000 IPM	1000 IPM	1000 IPM
Machine Width	78 in	126 in	150 in
Machine Length (CNC not included)	72 in	72 in	84 in
Table Dimensions	78 in x 72 in x 56 in	126 in x 72 in x 56 in	150 in x 72 in x 56 in
Machine Weight	1300 lb	2200 lb	3500 lb
Tool Capacity	2	2	2
Water Capacity	65 gallons	148 gallons	220 gallons
Table Capacity	2 inch Mild Steel		
Machine Voltage	115/1/60 @ 15 AMP		
CNC Controller	FlashCut CNC 21" Panel PC		
Drive System	Stepper		
Table Type	Water Pan Insert		
Rack and Pinion Drive System			
Stepper Motors	(3) 954 oz-in NEMA-34		
Gear Reduction	(3) Precision Helical 10:1 gearboxes		
Linear Guidance	25mm Profile Linear Rail, 30mm Gantry		
Gear Engagement	Direct Drive Helical Rack and Pinion		
Gantry Carriage	Solid Steel Construction		
Traverse Speed	1000 IPM		
Machine Repeatability	0.0015 in		
Frame Construction	7 Gauge Mild Steel		

Specifications are subject to change without notice



ShopPipe™ option for the ShopPro™

Get more use out of your ShopPro™ by adding the ShopPipe™ option. Incorporates easy to use software, easy setup and low maintenance mechanicals

that are built to withstand the harsh work environment. A fold-down head design saves space and makes it easy for existing customers to upgrade. The direct drive system with chuck precisely rotates the pipe, unlike competitors that use friction drive system with rollers or belts. The work cell is kept cleaner with built-in cutting slag pans and using a through-hole chuck design to safely and effectively remove smoke.

SPECIFICATIONS

- Maximum pipe diameter: 6 inches with ½ inch wall
- Maximum pipe length: 8 foot
- Number of supports in base model: 3
- Maximum weight capacity: 150lbs per support (max total weight 600lbs)
- Drive means: Direct drive with chuck
- Fume collector connection point: Yes
- Spark and slag pan: Yes
- Spark arrestor: Yes

