MONOGRAPH EXTREME
CNC PLASMA 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

SAWING / MACHINING

BURNING

ASSEMBLING

LOGISTICS

PAINTING

WELDING/FABRICATING

MANUFACTURING PROCESSES
Koike Aronson, Inc. / Ransome has created a New World Standard in thermal cutting machines. The Monograph Extreme has been added to the Extreme Series family of Koike Aronson, Inc./Ransome cutting machine product line. The Monograph Extreme is designed to deliver many years of reliable performance and efficient production. The Monograph Extreme features a unitized downdraft or water table design, keeping the overall footprint as compact as possible, thus maximizing your production space. The Monograph Extreme’s sturdy design and low backlash planetary gearboxes allow this single side drive machine to deliver premium motion and accuracy.

We Make Metal More Profitable.

**Precision Ground Rail and Guide Rollers**
Ensures smooth and accurate motion.

**Fork Truck Lift Pockets**
Easily move machine from one location to another.

**Precision Ground Rack & Drive Pinions**
Large diameter pinions provides accurate and smooth machine motion.

**Emergency Stop**
Quickly and safely shuts off machine motion and cutting process.

**Adjustable Leveling Pads**
Allows for easy leveling.
STANDARD EQUIPMENT

Cable Carrier
Allows cables and hoses to be managed properly when moving from one end of machine to the other.

Planetary Gearbox and Servo Motor
Precise and accurate motion

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

CNC AND HEIGHT CONTROL OPTIONS

Hypertherm EDGE® Pro Ti
- X&Y Axis 450 Watt Integrated Drives
- Z Axis 100 Watt Integrated Drives
- Windows® Xpe
- 2.50GB SATA Hard Drive
- 2.0 Ghz Cereron Core CPU
- 15" Glass Touchscreen
- Minimum 1GB Memory
- 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: 152 mm (6 in.)
- Max Speed: 10,160 mm/min. (400IPM)
- Designed for conventional plasma systems
- Rapid Part Technology
- Magnetic Torch Breakaway Collision

Flashcut Titanium Series CNC Control
- DC Micro Stepper Drives
- 15 inch touch screen
- Nema 4 Waterproof Keyboard
- Integrated E-Stop
- Realtime visualization of torch path
- Windows 7 Pro
- 5th generation Intel I3 Microprocessor or better
- 8GB RAM or better
- 120 GB SSD or better
- 2 USB Ports
- Standard editable shape library
- On-board Completely integrated Flash Cut 2D CAD/CAM package
- DXF import/Silhouette import
- On-board automatic nesting software
- On-board Lead in and lead out type, positing and length adjustment
- Remote diagnostics
- One seat of Flashcut Titanium Software for remote PC installation

Flashcut Stingray Plasma Height Control
- Z-Axis Torch Lifter
- Stroke length: (6 in.)
- Laser Pointer
- Magnetic Torch Breakaway Collision
- CNC controlled THC electronics package
Hypertherm® ProNest® 2017 LTS

Standard Features

Part creation and development
- Integrated 2D CAD program to create and edit CAD files
- Variable Shape Parts feature to develop common parts from templates
- CAD/CAM import and conversion
- Automatic nesting
- Interactive manual nesting
- Built-in process parameters
- Reporting

* Software for Edge Pro-Ti and Sensor-Ti THC

Flashcut CNC Version 6.0

From CAD to CAM to CNC In One Integrated Program

- CAD for drawing any 2-D shape
- CAM with automatic generation of lead in/out
- Cut Wizard sets precise feedrates, cut heights based on material thickness
- Automatic kerf compensation
- Simple import of pictures and drawings
- True shape nesting of multiple parts
- One click brings tool path to CNC controller

*Software for Flashcut Titanium CNC and Stingray THC
Effective Cutting Width: 

Effective Cutting Length: 

Material Types: 

**Material Thickness Range**

Plasma Thickness: 

**Plasma System**

- Hypertherm® Powermax65
- Hypertherm® Powermax85
- Hypertherm® Powermax105
- Hypertherm® Powermax125
- Hypertherm® MAXPRO200

Voltage: 

**CNC Controller/Height Control Package**

- Hypertherm® Edge Pro Ti/Sensor THC
- Flashcut Titanium CNC/Stingray THC

**Cutting Table**

- Downdraft
- Water

**Other Options**

- Fume Collector
- Nesting Software

---

**SPECIFICATIONS**

### MONOGRAPH EXTREME

<table>
<thead>
<tr>
<th>Effective Cutting Area (ft)</th>
<th>5 x 10</th>
<th>5 x 12</th>
<th>5 x 20</th>
<th>6 x 10</th>
<th>6 x 12</th>
<th>6 x 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective Cutting Width</td>
<td>60 in</td>
<td>60 in</td>
<td>60 in</td>
<td>72 in</td>
<td>72 in</td>
<td>72 in</td>
</tr>
<tr>
<td>Effective Cutting Length</td>
<td>120 in</td>
<td>144 in</td>
<td>240 in</td>
<td>120 in</td>
<td>144 in</td>
<td>240 in</td>
</tr>
<tr>
<td>Rapid Traverse Speed</td>
<td>1000 IPM</td>
<td>1000 IPM</td>
<td>1000 IPM</td>
<td>1000 IPM</td>
<td>1000 IPM</td>
<td>1000 IPM</td>
</tr>
<tr>
<td>Machine Width</td>
<td>83 in</td>
<td>83 in</td>
<td>83 in</td>
<td>95 in</td>
<td>95 in</td>
<td>95 in</td>
</tr>
<tr>
<td>Machine Length</td>
<td>191 in</td>
<td>215 in</td>
<td>382 in</td>
<td>191 in</td>
<td>215 in</td>
<td>382 in</td>
</tr>
<tr>
<td>Machine Voltage</td>
<td>115VAC @ 15 Amps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CNC Controller</td>
<td>Edge Pro Ti or Flashcut Titanium CNC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive System</td>
<td>2-Axis Servo Drive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Type</td>
<td>Downdraft</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.