

**CUTTING, POSITIONING & WELDING EQUIPMENT**

# **SUPERGRAPH-IV**

**CNC PLASMA 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

# SUPERGRAPH IV



## High Precision and High Speed!

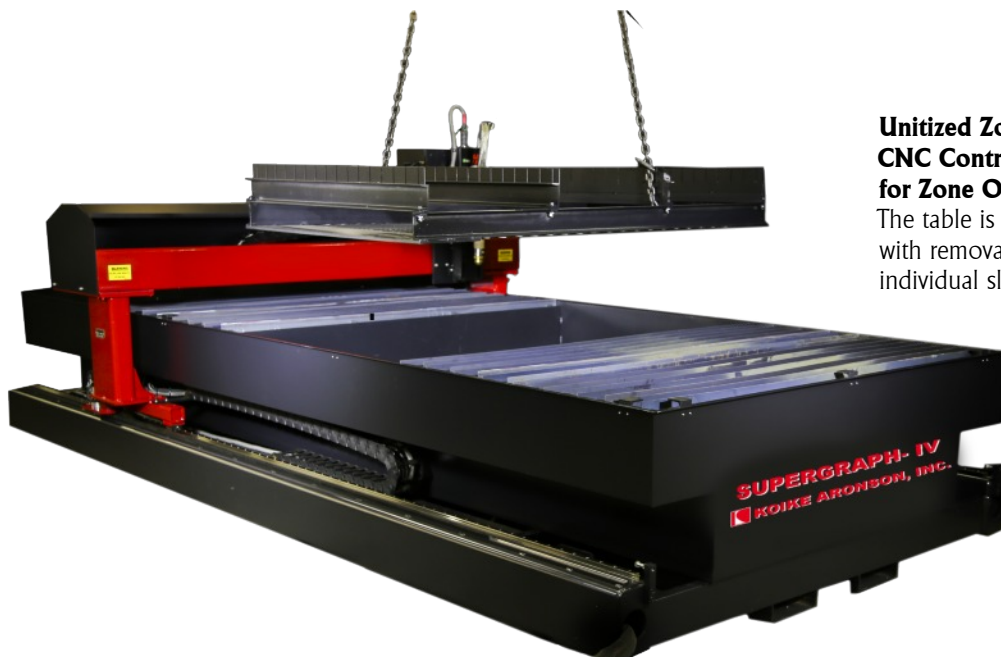
The SUPERGRAPH-IV cutting system will increase your shop's productivity and consistency, while reducing material waste by as much as 30%. With a traverse speed of up to 1000 inches per minute, you have the ability to maximize production without the loss of floor space. The compact, unitized design of the Supergraph-IV also enables it to be easily moved and set up at a different location. This is truly a precise high powered cutting machine with a small footprint, designed for high productivity plasma cutting.



## Hypertherm® EDGE-Pro Shape Cutting Motion Controller (Shown with Koike Aronson Operator Console)

- Features 15" (380 mm) Glass Touchscreen (SATA Hard Drive)
- Minimum 1 GB RAM
- Remote Assistance (when connected to Internet)
- Hypertherm's® plasma Auto-gas support
- Simple shape library
- DXF Direct Input
- Simple Shape Nesting
- CutPro Wizard for Beginners

This unit integrates with Hypertherm's® ArcGlide Height Control unit Hypertherm's® High Definition HPRXD or MAXPRO200® plasma system for ease of process changes and troubleshooting.



## Unitized Zoned Downtraft Table Design with CNC Controlled Pneumatic Damper Control for Zone Operation

The table is designed to hold up to 1-1/4" plate with removable slat frame assembly and/or individual slat removal.

## Tuck Rail Design

Protects linear bearings, cable carrier, cables and hoses from harsh environments.

**Optional: Removable slag pans are available.**

# PLASMA SYSTEM & OPTIONS



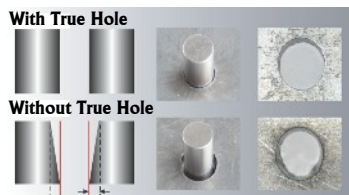
## Hypertherm HyPerformance/HyDefinition Plasma Systems

HyPerformance Plasma cuts fine-feature parts with superior quality and consistency while eliminating cost of secondary operations. The quick disconnect torch makes changing consumables fast and easy. Long consumable life, dross free edges, minimum angularity and high system reliability maximize productive “arc-on-time”.

HyPerformance Plasma combines fast cutting speeds, rapid process cycling, quick changeovers and high reliability to maximize productivity. 130 amp to 260 amp systems are available to meet your production demands.

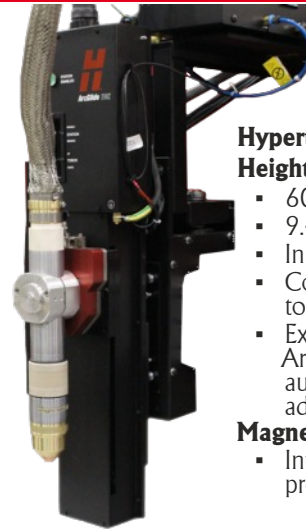
## Hypertherm Conventional LongLife Air and Oxygen Plasma Systems

Heavy-Duty production tools with cost reducing LongLife technology for dramatically longer consumable life and much lower operating costs. The quick disconnect torch makes changing consumables fast and easy. Impressive cut speeds, consistent cut quality and exceptional consumable life gives this plasma system a reliable performance across a wide range of industrial applications.



## True Hole™ 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.



## Hypertherm® ArcGlide Torch Height Control

- 600 IPM Lifter Speed
- 9.4" (240 mm) Lifter Travel
- Initial Height Positioning
- Corner AVC disable (prevents torch diving during corners)
- Extends consumable life by using Arc voltage sampling with automatic consumable wear adjustment

## Magnetic Torch Collision Detection

- Integrated laser pointer with preset offsets



## Manual Plasma Bevel Station

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

## Fume Extraction Unit

For downdraft table.



## CNC Air Conditioning Unit

Provides additional cooling - required for machines operating in temps above 120°F (49°C).

Consists of 1024BTU 115vac industrial tool grade air conditioner and CNC enclosure for external cooling of CNC cabinet.

# SUPERGRAPH-IV WORKSHEET

Effective Cutting Width:  Effective Cutting Length:

**Material Types:**  Mild Steel  Stainless Steel  Aluminum  
 Other

**Percentage of material types:**

\_\_\_\_\_ %Mild Steel \_\_\_\_\_ % Stainless \_\_\_\_\_ % Aluminum \_\_\_\_\_ % Other

**Material Thickness Range**

Minimum and Maximum Plasma Thickness:

**Plasma Type**

Hi-Definition  Conventional  Plasma Voltage:

**Hypertherm Plasma System**

HPR130XD  HPR260XD  MAXPRO 200

**Plasma Bevel**

Manual Type

**Plate Marking**

Plasma Mark

**Dust Collector**

Fume Collector

**Offline Software**

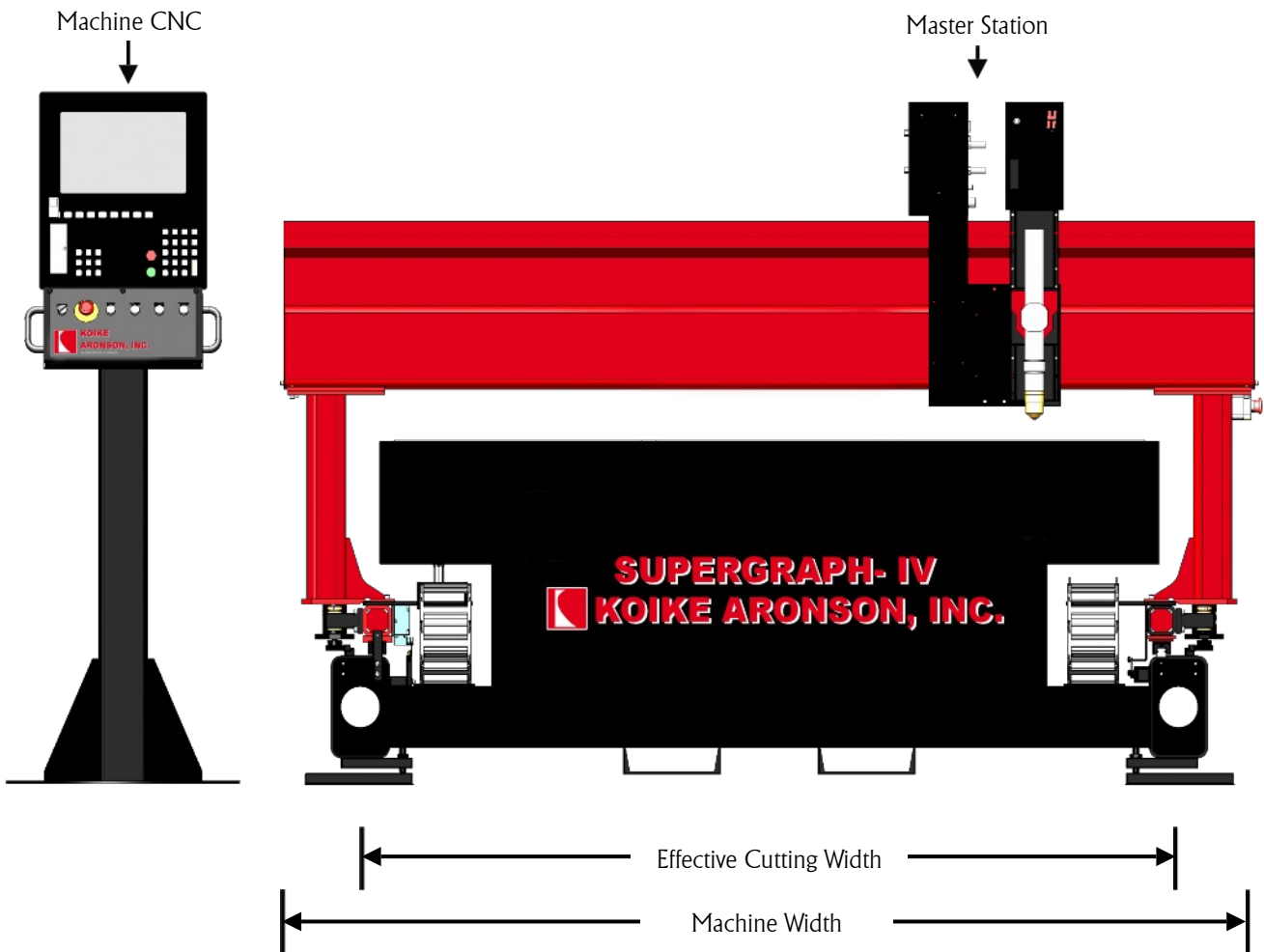
Hypertherm® CAM Solutions  
 SigmaNEST



Scan to fill out electronically



# SPECIFICATIONS



MODELS	7812	7820	7824	9812	9820	9825
Effective Cutting Width (Master)	78 in	78 in	78 in	98 in	98 in	98 in
Machine Width	100 in	100 in	100 in	124 in	124 in	124 in
Effective Cutting Length	144 in	240 in	288 in	144 in	240 in	300 in
Machine Axis Type	Precision Linear Bearing Design X & Y Axis					
Rapid Traverse Speed	1000 IPM	1000 IPM	1000 IPM	1000 IPM	1000 IPM	1000 IPM
Machine CNC	Hypertherm Edge Pro®					
Machine Drive System	3-Axis AC Servo					
Maximum Number Of Slave Stations	1	1	1	1	1	1
Maximum Plasma or Marker Stations	1	1	1	1	1	1
Machine Voltage	208-230/1/60 @ 20 AMP					

Specifications are subject to change without notice.

# CUTTING, POSITIONING & WELDING EQUIPMENT



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## Koike Aronson Brasil

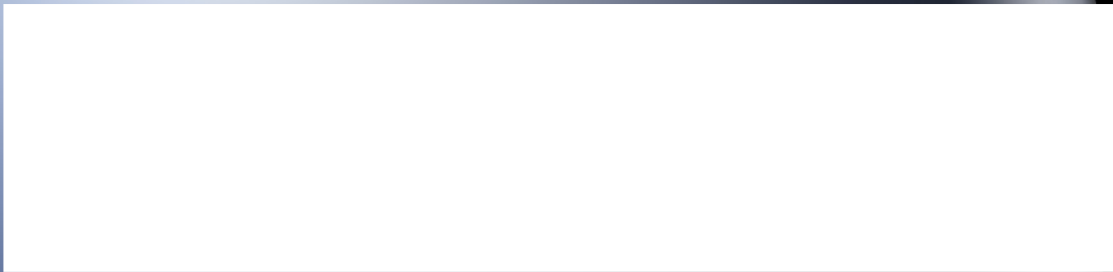
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