



Millennium Series

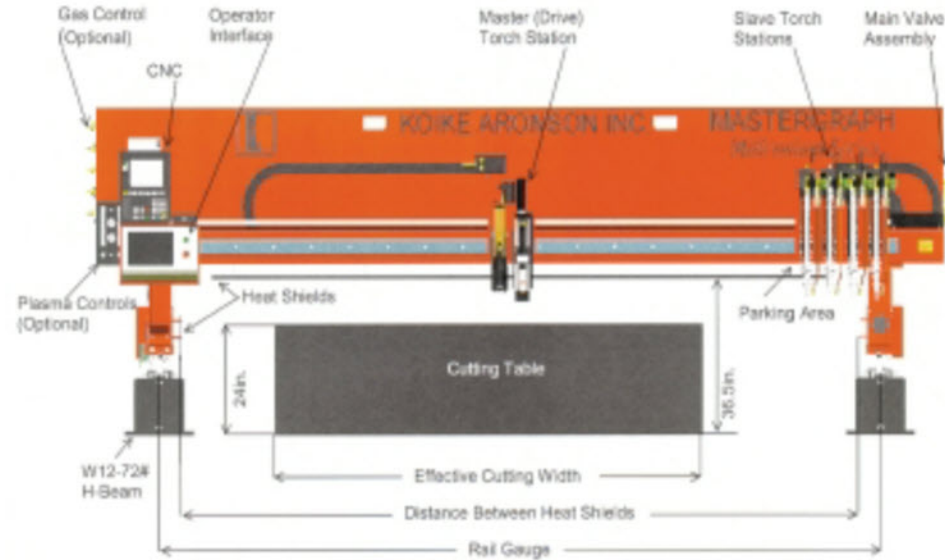


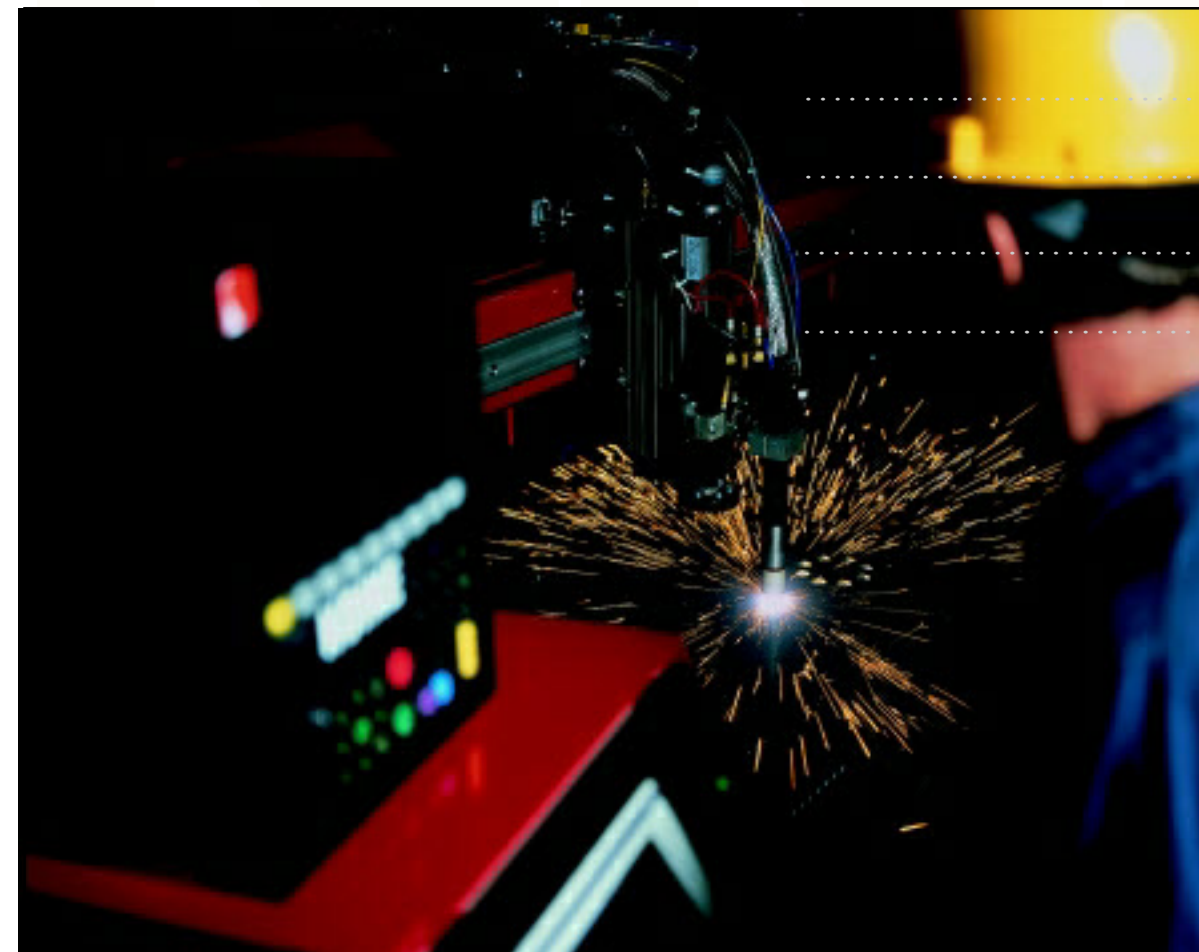
Figure 2.1 Typical Machine Layout

MASTERGRAPH MILLENNIUM STANDARD SPECIFICATIONS					
SYSTEM CONFIGURATION					
Effective Cutting Length (Standard)	168in. Extended in increments of 118in.				
Body Construction	Gantry style				
Drive Configuration	Rack and Pinion, with AC digital servo amplifiers (NO TUNING REQ.)				
Machine Speeds	Rapid Traverse 800ipm	Contour Speed 400ipm			
Positioning Accuracy	±.007in.				
Machine Input Voltage	115vac 1 phase 50-60Hz, 20amps				
Slave Drive Carriage Type	Steel Belt, mechanical clamp for image or mirror cutting				
Dual Side Drive	All Models				
MODEL CONFIGURATION					
	Effective cutting width	Rail Gauge	Total machine width	Distance between heat shield	Max. Number of tools
1500	60in.	126.75in.	164.625in.	115.625in.	4
2500	96in.	162.75in.	200.625in.	151.625in.	8
3100	120in.	186.75in.	224.625in.	175.625in.	8
3700	144in.	210.75in.	248.625in.	199.625in.	8
OPTIONAL GAS SYSTEMS					
HI/LOW			SERVO GAS		
Number of Torches	Plate Capacity		Number of Torches	Plate Capacity	
4 Torches	2in.		7 Torches	3in.	
1 Torch	8in.		1 Torch	8in.	
Optional Larger Capacity Available					

Sold By:

MASTERGRAPH Millennium Series

Integrated Thermal Cutting & Marking Systems



MODELS

1500

2500

3100

3700



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Visit us at www.koike.com



Integrated Thermal Cutting Systems



The Power Needed for Today and the Flexibility for Tomorrow

Koike Aronson has created a new world standard in thermal cutting machines. The Millennium Series 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 Millennium Series has been engineered to provide the power needed for today and the flexibility for tomorrow. Steel Service Centers, Heavy Fabricators, Equipment Manufacturers and Ship Builders are just a few of the Millennium Series target customers.

Koike Aronson's time proven construction techniques have been enhanced with a host of new features and technologies.

Including: AC Brushless Servo Drive, Planetary Gear Boxes and Touch Screen Operator Interface. The Mastergraph Millennium is equipped to handle your job requirements and flexible enough for adaptation to future process requirements. The future of thermal cutting is here today, and Koike Aronson is ready to show it to you!



Operator Control

Operator Control Station

- CNC Control
- Touch Screen Operator Interface
- 180° Rotation



AC Servo Drive Motor and Planetary Gearbox

AC Brushless Drive Motor and Planetary Gearbox

- Air Cylinder System for Pinion to Rack Tension
- Precision Acceleration & Deceleration
- Sealed No Maintenance Construction
- System Matched for Years of Service

Master Carriage

- Solid Steel Construction
- Rack and Pinion Drive
- Rides on Linear Roundways
- Enclosed Power Track
- Two Tool Carrying Capability



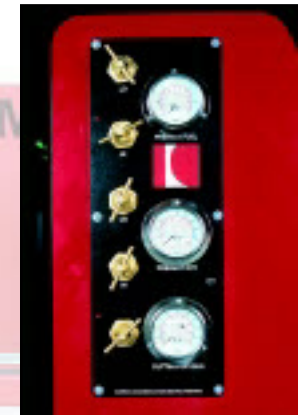
Master Carriage

Slave Carriages

- Solid Steel Construction
- Stainless Steel Band Drive
- Rides on Linear Roundways
- Enclosed Power Track



Slave Carriage



Servo Gas Control

Oxy-Fuel Gas Controls

- Convenient Placement for Operator
- Protection from Severe Environments

Koike Aronson has designed, engineered and delivered an Integrated Thermal Cutting System with the type of features and dependability the world has been waiting for. The Mastergraph Millennium Series is ready to increase efficiency, quality and your bottom line profitability. Call the experts at Koike Aronson for more information on the entire Millennium Family of CNC cutting machines.

The New World Standard in Thermal Cutting

Millennium Highlights

- Positioning Accuracy $\pm .007$
- Triple Machined 22kg Crane Style Rail System
- AC Brushless Drive Motors
- Planetary Gearboxes
- Replaceable Linear Roundway on Cross Axis
- Touch Screen Operator Interface
- Easy to Service Programmable Logic Control (PLC) Electrical Interface
- True Plug and Play Field Option

Optional Equipment

- Various PC Based CNC Controls
- Cut Widths up to 12 feet
- Cut Length Flexibility
- Servogas Oxy-Fuel Control
- Oxy-Fuel Capacitance Height Control
- Water Spray
- Automatic Oxy-Fuel Station Ignition
- Plasma and Height Control Systems
- Straight-Line Bevel Cutting
- Multiple Plate Marking Systems
- Remote Diagnostic Capability