

# GAS CUTTING APPARATUS & SAFETY DEVICES

## MK Series - Hand Cutting Torch



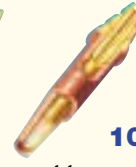
Model	Cutting Capacity (mm)	Length (mm)	Weight (kg)	Head Angle (°)
MK 100	100	495 - 540	1.0 - 1.15	75/90/180
MK 150	150	555 - 600	0.88	90
MK 251	250	495	1.0	90
MK 252	250	495	1.0	90
MK 300	300	685 - 730	1.5 - 2.1	75/90/180

### High Speed Divergent Cutting Tips

102 D7



106 D7



Increase cutting speed by up to 20%

### CUSTOM Pressure regulators




Single Stage Type  
Custom 1  
Oxygen




Custom 2  
Acetylene

### CO<sub>2</sub> Pressure regulators




CWH-25F Flowmeter  
CWH-25G Gage  
CWH-10P

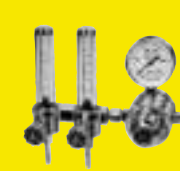


CW-25F  
CW-25  
CW-10PBr

### ARGON Pressure regulators



Single Stage Type  
KR-25F Flowmeter  
KR-50F Flowmeter



Two Stage Type  
KRT-25F Flowmeter  
KRT-50F Flowmeter

## APOLLO COUPLINGS SENTINEL

The reverse flow prevention valve stops the gas mixing so that the cause of possible explosion is eliminated completely. Optional Flashback Arrestor: Apollo Mini Tackle when flashback occurs owing to welding/cutting machine trouble, it shuts off flashback pressure.

Quick fit & release: Spring-load locking method is used, so gas flows immediately after it is fitted. Removal is also single-action.



#### • FOR OXYGEN

Combination	Model	Socket	Plug
Regulator to hose	ZGSP-1	GS-1	ZAP-1
Hose to hose	ZASP-1	AS-1	ZAP-1
Hose to machine or torch	ZOSP-1	AS-1	ZOP-1
	ZOSP-1A	AS-1	ZOP-1A
	ZOSP-1L	AS-1L	ZOP-1

#### • FOR FUEL GAS

Combination	Model	Socket	Plug
Regulator to hose	ZGSP-2	GS-2	ZAP-2
Hose to hose	ZASP2	AS-2	ZAP-2
Hose to machine or torch	ZOSP-2	AS-2	ZOP-2
	ZOSP-2A	AS-2	ZOP-2A
	ZOSP-2L	AS-2L	ZOP-2

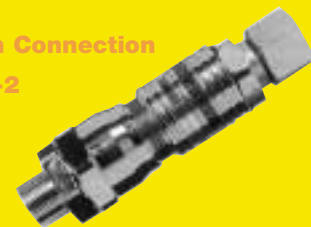
## APOLLO GOLD ARRESTOR

Apollo Gold Arrestor is dry type anti-flashback device featuring a ball locking and one-touch resetting system. Though compact, it is applicable to an equipment with a large flow rate. Colors indicating Normal/Flashback are provided, so you can easily check.

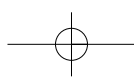
For the Type MK Series, when the internal temperature exceeds 95°C, the temperature detection breaker activates to cut off the gas supply.

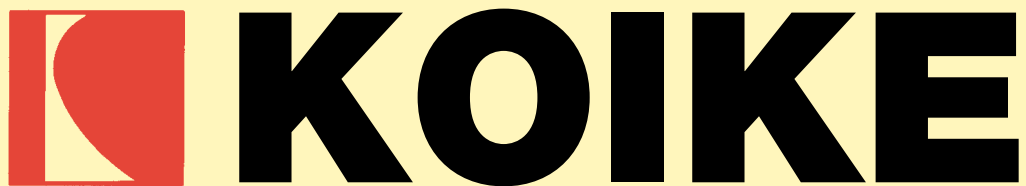
Model	Gas Type	Pressure (kgf/cm <sup>2</sup> )	Max. Flow (Nl/h)	Length (mm)
GA-1	Oxygen	1.0 - 9.9	25,000	98.5
GA-2	Fuel Gas	0.1 - 1.3	4,000	98.5
GA-1MK	Oxygen	1.0 - 9.9	25,000	72
GA-2MK	Fuel Gas	0.1 - 1.3	3,000	72

For Torch Connection  
GA-1/GA-2



For Pressure Regulator Connection  
GA-1MK/GA-2MK





**YOUR PARTNER IN TOTAL CUTTING AND WELDING SOLUTION**

# CUSTOMER SATISFACTION

**We shall strive for excellence in everything we do.**

**We shall set our goals to be recognized by our customers as a leader in total quality and customer satisfaction.**

**We will provide innovative solutions and the highest quality products and services on a cost competitive basis.**

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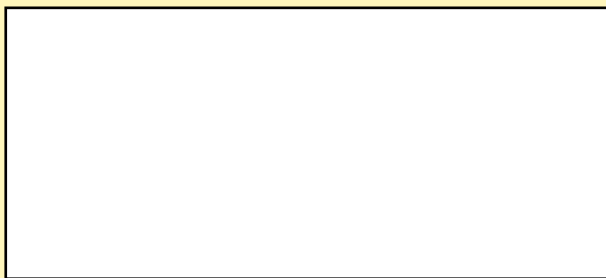
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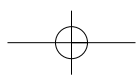
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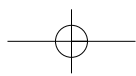
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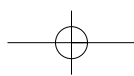
## Cutting & Welding Systems



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## PORTABLE CUTTING & WELDING MACHINES

Increase your productivity with our largest range of portable cutting and welding machines.



**Handy Auto Plus**  
Auto Hand Cutter



**Handy Auto**  
Auto Hand Cutter



**IK Weasel**  
Contour & Track Cutter



**IK Beaver**  
Contour & Track Cutter



**IK 12 Beetle**  
Track Cutter - I, V



**IK 12MAX SP 200**  
Track Cutter - V, Y, X



**IK 12MAX SP 400**  
Track Cutter - V, Y, X, K



**IK 54D**  
Shape Cutter



**IK 72T**  
All Position Cutter



**IK 82S 200**  
Shape Cutter - Hole & Cut Away



**IK 82M 300**  
Shape Cutter - Hole & Cut Away



**IK 70**  
Circle Cutter - Large



**CIR-CUT I/II**  
Circle Cutter - Small



**Picle 1**  
Manual Pipe Cutter



**Auto Picle**  
Auto Pipe Cutter



**KHC - 600D**  
Pipe Hole Cutter



**IK - 600C**  
Optical Tracing Cutter



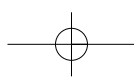
**Mini Mantis**  
H-Beam Cutter

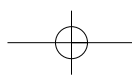


**Wel-Handy Multi**  
MIG Welding Carriage



**Wel-Handy Twin**  
MIG Welding Carriage





## IK SERIES OPTICAL TRACER CUTTING MACHINE

A low cost investment for high cutting productivity in a small workshop.



Model		IK 600 C	IK 1200J	IK 1500G	IK 2000C	IK 2500C	IK 3000C
Tracing Range	Width	600	1220	1525	2000	2000	3050
	Length	600	1220	1200	1200	1200	2050
Cutting Range (mm)	Width	600	1220	1525	2000	2500	3050
	Length	600	3100	Minus 1.65m from rail length			
Min. Torch Spacing	mm	75	55				
No. of Torches		2	4	4	6	6	6
Straight Line cutting	Possible 4 directions without energizing tracer head						
Auto. Lead-in	Possible in 4 directions			Possible in 8 directions			
Cutting speed	Standard 100 – 1000 mm/min , option up to 3,000 m/min.						
Tracer	HL 90		HL 81 Std / HL 82 High Speed			HL 71B / HL 875	
Drive	Co-ordinate drive by X & Y drive motors						
Tracing	Circle Scanning edge tracing						
Kerf Compensation	+ 1.5mm						
Tracing Accuracy	+ 0.25 mm deviation from edge of line on straight line.						
Tracer Head position	Left side of machine						
Motor Drive	Roller Friction travel by D.C. servo motor with reduction gear						
O <sub>2</sub> Cut off valve	Emergency Oxygen shut off link to tracer.						
Power Supply	Single Phase 110 / 220 volts , + 10 % , 50 – 60 Hz						

## NANOGRAPH CNC FLAME & PLASMA CUTTING MACHINE

Entry level CNC investment for high cutting productivity in a small workshop.



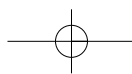
Type : NANOGRAPH	2500	3000	3500
Main Body	Gantry Bridge / Single Side Drive		
Operator Console	Selectable Left or Right side		
Drive method	Rack and Pinion drive for X and Y axis.		
Rail span	2500 mm	3000 mm	3500 mm
Effective Cutting width	1600 mm	2100 mm	2600 mm
Effective cutting length	Rail length ( Standard 6000 mm ) minus 2400 mm		
Torch mounting system	Steel band connection system		
Cutting Speed	6 000 mm/min		
Rapid/Marking speed	10 000 mm/min		
CNC Control system	Hybrid D10		
No. of Torch block	Maximum 4 torches		
Minimum torch distance	125 mm		
Oxy-Fuel cutting capacity	6 – 100 mm ( Max. 50mm by 4 torches)		
Power Supply	Single phase 110 / 220 volts + 10% , 50/60 Hz		

## MAXIGRAPH CNC FLAME & PLASMA CUTTING MACHINE

Heavy Duty advanced CNC investment for high cutting productivity in shipbuilding industry.



Type : MAXIGRAPH	SD 2.5 / 3.0 / 3.5 m	DD 3.5 / 4.0 / 4.5 / 5.0 m
Main Body	Gantry Bridge / Single or Double Side Drive	
Operator Console	Selectable Left or Right side	
Drive method	Rack and Pinion drive for X and Y axis.	
Effective Cutting width	1.6 / 2.1 / 2.6 m	2.6 / 3.1 / 3.6 / 4.1 m
Effective cutting length	Rail length minus 2.35m / Rail length minus 1.75 m	
Torch mounting system	Steel band connection system	
Cutting Speed	6 000 mm/min	
Rapid/Marking speed	9 m/min / 6 m/min	15 m/min / 9 m/min
CNC Control system	Hybrid 400 / D-Oi FS	
No. of Torch block	Maximum 4 torches	Maximum 6 torches
Minimum torch distance	125 mm	
Oxy-Fuel cutting capacity	6 – 100 mm ( Max. 50mm by 4 torches)	
Power Supply	1 phase 110v / 3 phase 220 v + 10% , 50/60 Hz	



## VERSAGRAPH CNC FLAME & PLASMA CUTTING MACHINE

An advanced investment for high cutting productivity with Plasma beveling capability.



Type : VERSAGRAPH	4000 / 4500 / 5000 / 5500 / 6000 DXI
Main Body	Gantry Bridge / Double Side Drive
Operator Console	Selectable Left or Right side
Drive method	Rack and Pinion drive for X and Y axis.
Effective cutting width	Rail span minus 900 mm
Effective cutting length	Rail length (15 000 mm ) minus 2 100 mm
Torch mounting system	Steel band connection system
Cutting Speed	6 000 mm/min
Rapid/Marking speed	18 000 mm/min / 12 000 mm/min
CNC Control system	Hybrid 400 / D-Oi FS
No. of Torch block	Maximum 8 torches
Minimum torch distance	125 mm
Oxy-Fuel cutting capacity	6 – 100 mm ( Max. 50mm by 4 torches)
Power Supply	1 phase 110v / 3 phase 220 v + 10% , 50/60 Hz

## FLAME PLANER MACHINE

Heavy Duty, Precision and Multiple flame stripping machine.



Type : FLAME PLANER	4 000 to 12 000 mm
Main Body	Gantry Bridge / Single Side Drive
Operator Console	Left side
Drive method	Friction
Effective cutting length	Rail length minus 4.0 m
Effective cutting width	Rail span minus 1.0 m
Plate thickness & Shapes	5 – 500 mm / I , V , Y , X .
Minimum Cutting Width	Parallel - 50 mm / Bevel – 550 mm
Parallel / Bevel Cutting Torch	Any number
Cutting Speed	100 – 1 200 mm/min
Speed Control	S.C.R. Control
Driving Direction	Forward and Reverse
Longitudinal Accuracy	Long. Straightness + 0.1 mm / 12 000 mm
Power Supply	1 phase 110v / 3 phase 220 v + 10% , 50/60 Hz

## ABGRAPH CNC ANGLE BAR PROFILING MACHINE

Special profile cutting system for flats, angle, L, T, bulb profiles in the shipbuilding industry.



Rail Span	: 1,700 mm
Machine Length	: 5,600 mm
Machine Width	: 3,800 mm
Cutting Speed	: 6,000 mm/min
Marking Speed	: 12,000 mm/min
Rapid Travel	: 36,000 mm/min
Precision Oxygen Plasma Cutting System	
Powder Marking for Line.	
Dot Marking for Labeling.	
Integrated Fume Collection.	
ABPRO system accepts TRIBON files.	
FANUC Industrial CNC Control System	