



Portable Machines and Gas EquipmentProduct Catalogue















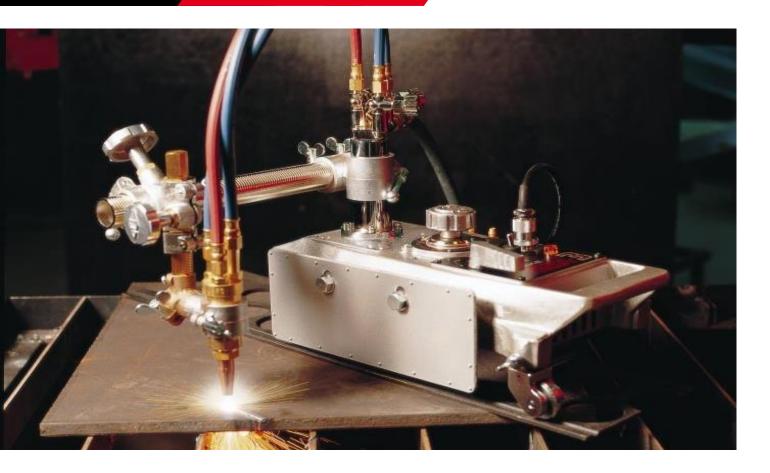




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IK-12 MAX3

The Portable Multi-purpose Carriage

Features and Benefits

 Maximum reliability in most heavy-duty environment

Not affected by intense heat and fluctuating voltage, the maximum driving mechanism ensures steady traveling

■ Double Cone Stepless Drive System

Ensures extremely smooth speed transition, speed micro-adjustment and constant travel speed, which provides the IK-12 Max3's famous sharp, fine cuts.

Choice of accessory and options

Features wide variety of options that makes the machine suitable to achieve various cutting needs.

Selectable torch set and rails

Each torch set is specially designed for the purpose, ensuring the maximum results.

Versatility

Ready for oxyfuel cutting, plasma cutting, or welding

The **IK-12 Max3** is an incredibly robust tractor, which has been highly rated among the portable oxy-fuel cutting machines. Body structure is systematized to apply to different types of work and meet the needs of plasma cutting and automatic welding. Each component is functionally worked out as independent units, selection and assortment are at the customer's disposal to create the system needed for the requirement.

Enjoy the maximum efficiency, versatility and productivity with the **IK-12 Max3**.

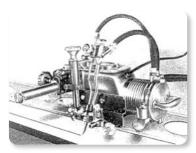


Carriage

The Original.

Since 1951 when the first model was released in Japan, Koike IK-12 series have been serving professionals who demand the highest quality in plate cutting.

Today, the state-of-the-art 6th generation, **IK-12 Max3** is equipped with double cone stepless drive system to maximize the reliability in cutting. Electrical and mechanical components, grease, soldering and wiring are carefully selected to ensure long service life in the most heavy-duty working environment.



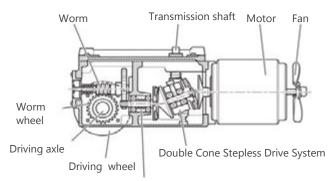
The first generation. Japan, 1951

Double Cone Stepless Drive System

Speed control mechanism of IK-12 Max3 has adopted Double Cone Stepless Drive System, developed by KOIKE, which functions with a condenser motor rotating at constant speed (1500 rpm @50Hz) to prevent heat and voltage problems from occurring.

Because no reduction gear is employed in the mechanism, any knocking from backlash, noise or vibration does not take place. 50kg maximum loading weight with entire use of heat-resisting grease, high temperature soldering and minimal electrical component, IK-12 Max3 is reliable and durable for long continuous operation.

Also the condenser motor rotating at a constant low speed prolongs the service life of bearing and maintains the machine condition for a long period of time.



Friction adjustment mechanism

Suitable for most cutting and welding applications.

Machine selections

There are three different models available with IK-12 Max3.

IK-12 Max3 Standard 80 - 800 mm/min.

IK-12 Max3-S High Speed 80 - 800 mm/min, 240 - 2400 mm/min. Dual speed range. Suitable for plasma.

IK-12 Max3-ML 40 - 400 mm/min. Suitable for thick plate cutting and bevelling.

Slow Speed

(speeds indicated above are with 50 Hz power supply)



Torch set

Oxy-fuel cutting torch set



S-100 Torch Set

Standard 1 torch unit



SP-100 Torch Set

1 torch unit with mechanical automatic torch height control



S-200 Torch Set

Standard 2 torch unit



SP-200 Torch Set

 2 torch unit with mechanical automatic torch height control on each torch unit



SP-300 Torch Set

- 2 torch unit with mechanical automatic torch height control
- Maintains angle of 2 torches for accurate Y and X bevel cuts



SP-400 Torch Set

- 3 torch unit with mechanical automatic torch height control
- Maintains angle of 3 torches for accurate Y, X, and K bevel cuts



L-100 Torch Set

- Heavy duty torch designed to cut up to 300 mm plate thickness.
- Water cooled



EPOCH-300/600 Torch Set

- A safe, flashback-free out mixing torch, designed to cut up to 600mm plate thickness.
- Water cooled
- For propane gas

Torch set Stock No.		S-100	SP-100	S-200	SP-200	SP-300	SP-400	L-100	EPOCH-300	EPOCH-600
		90036	90038	90037	90039	90040	90041	90042	90043	90046
Max. cutting thickness (1 torch)		150 mm	150 mm	150 mm	150 mm	100 mm	100 mm	300 mm	300 mm	600 mm
Number of torch	า	1	1	2	2	2	3	1	1	1
Gas mixing	Tip mixing	•	•	•	•	•	•	•	-	-
	Out mixing	-	-	-	-	-	-	-	•	•
Mechanical auto	height control	-	•	-	•	•	•	-	-	-
Standard pipe b	ar length (mm)	350	350	500	500	500	500	500	500	500
Vertical torch str	roke (mm)	80	120	80	120	120	120	-	-	-
		•	•	•	•	•	•	•		•
		•		•		•		•		•
Cutting type		-	-	•	•	-	-	-	-	-
		-	-	•	•	-	-	-	-	-
		-	-	•	•	•	•	-	-	-
		-	-	•	•	•	•	-	-	-
		-	-	-	-	-		-	-	-
Optional torch	accessories									
Long pipe bar		•	•	•		•	•	•	•	•
Long slide bar	-	•	•	•	•	-	-	-	-	-
Snap valve		•	•	•	•	-	-	-	-	-
Pre-set stop valve		•	•	•	•	-	-	-	-	-

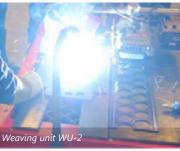


















Plasma cutting, welding torch set and related accessories



IK-12 Plasma Torch Set

- For 35mm torch diameter
- Torch set only
- Plasma ON/OFF Remote controller sold separately (FR-III Controller)



MP-100 Welding Torch Set

- For straight line butt welding
- Torch set only



Weaving unit WU-2

■ Pendulum weaving unit for IK-12 Max3, including weaving unit, pipe bar and controller



FR-III Controller

- For Plasma cutting or welding
- Arc delay function
- Controls IK-12 Max3 and power source simultaneously

Torch set / Controller Stock No.		IK-12 Plasma	MP-100 Welding	Weaving Unit WU-2	FR-III Controller 61003427 (220V) BUB01553 (110V)	
		90045	BUA31301	90219		
Manding or a literary	AC 220V	-	-	-	•	
Working voltage	AC 110 V	-	-	•	•	
Torch clamp diameter		Ø 35 mm	Ø 16 - 20 mm	Ø 16 - 20 mm	-	
Pipe bar length (n	Pipe bar length (mm)		350	500	-	
	Plasma cutting	•	-	-	•	
Application	Continuous Welding	-	•	•	•	
	Weaving welding	-	-	•	-	

Accessories

Optional accessories



Standard rail 1800 mm

- Extendable 1800 mm rail
- Built of special steel to ensure long life time



Circle cutting rail

- Cutting diameter Ø40 360 mm (inside); Ø770 –1150 mm (outside)
- Counter weight recommended



Heavy duty rail 1800 mm

- Extendable, robust structured rail that does not bend
- Recommended when cutting thick plate over 150 mm



Circle cutting attachment

Cutting diameter Ø400 - 2400 mm





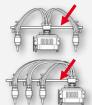
Long slide bar

- Extends torch up/down stroke, used when cutting from the side of the plate
- Available in different lengths



Plate edge guide roller

- Enables bevel cuts without rail by tracking plate edge
- For straight line cutting only



Long pipe arm

- Long pipe arm to enable different torch positioning
- Available in different lengths



Preset stop valve

- Single actin gas on/off
- 2 models; single or two torches



Snap valve B-type

- Single action gas on/off
- Increases productivity by eliminating flame adjustments each time after cut



Torch bevel attachment

- Accurate bevel cutting with angle indicator
- Cuts bevel without tilting the torch



Twin torch attachment

- Enables 2-torch parallel cutting by attaching to a torch.
- Torch distance 30 300 mm



Flashback arrestor hose set

- A set of flashback arrestors with metal bladed hose
- Includes 3x flashback arrestors and 3x metal bladed hoses



Rail fixing magnet

Holds the rail onto the place



MIG torch holder

- Simple welding torch holder, clamp diameter Ø16 - 20mm
- Fits on S-100 or SP-100 torch set by replacing oxy-fuel torch



Extended stand

105mm long stand

Accessory		
300 mm	30400	
1800 mm	90044	
ting rail	30410	
nent	90100	
er	T60038959	
1 torch	80518	
2 torch	61003543	
	80512	
ent	ON002	
nt	ON001	
	D6010	
MIG torch holder		
Transformer AC230V - 42V		
- 110V	90100	
	1800 mm 1800 mm ting rail nent er 1 torch 2 torch ent ent	

Accessor	Stock #	
	145 mm (standard)	30390
Long glide hay	250 mm	30430
Long slide bar	300 mm	30431
	400 mm	30422
Long pipe arm	350 mm	30300
	500 mm	30321
	1000 mm	30425
	1500 mm	30427
	2500 mm	30429
Chand	80 mm (standard)	30204
Stand	105 mm	30378
Floobbook awastar base set	600 mm hoses	on request
Flashback arrestor hose set	900 mm hoses	on request

Type and Specification

Specifications

		IK-12 Max3 Standard	IK-12 Max3-S	IK-12 Max3-ML			
Tananalian ann an d	@50 Hz	80 - 800 mm/min	80 - 800 mm/min 240 - 2400 mm/min	40 - 400 mm/min			
Traveling speed	@60 Hz	100 - 1000 mm/min	100 - 1000 mm/min 300 - 3000 mm/min	50 - 500 mm/min			
Input power		AC 220	AC 220V / AC 110V / AC 42V (+/- 10%)				
Cutting thickness		Depends on torch set					
Drive system Double Cone Stepless Drive System							
Motor	Motor Condenser-induction						
Machine construction		Aluminium die cast body					
Gear box		Closed gear box, highly resistant against heat and dust					
Max. loading weight		50 kg					
Machine dimension L430 x W220 x H215 mm							
Weight	Neight 10 kg 11 kg 11 kg			11 kg			

Types

Carriage Model	Stock #	
	42V	90029
IK-12 Max3 machine body	110V	90028
	220V	90027
	42V	90056
IK-12 Max3-S machine body	110V	90057
	220V	90026
IV 12 May 2 MI mashina hadu	220V	90033
IK-12 Max3-ML machine body	42V	90030

Scope of delivery

Scope of delivery
Machine body
Power cable
Tip support
Hexagon bolt (2pcs)
Operation manual





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