

IK-12 NEXT is the latest model of IK-12 series, one of the most popular and long-seller gas cutting carriage.

New control panel and torch set: Wide range of application is possible to enable not only gas / plasma cutting, but also welding with the same carriage.

Newly equipped function: "CREEP MODE" (Patent pending): By simply pressing the button, normal speed can instantly be switched to low speed mode for easy adjustment at start/end point of thick plate cutting.

Adding Weaving Unit option: Butt-welding for thick plate can be easily made by Weaving Unit.

No need to add a separate control box for plasma cutting and welding application. Signal interface is already implemented into the machine.

## IK-12 NEXT

**NEXT generation of portable carriage! With NEW design & functions for WIDE range of applications!**

- Wide range of speed setting 40~2400mm/min.
- New control system allows wide range of application; gas/ plasma cutting and welding.
- Stable and accurate speed control is achieved with encoder motor and digital speed indicator.
- Easy speed control with "creep mode" at lead-in/ out of thick plate cutting. IK-12 Next directly inherits various options of IK-12 max3, which can be used as such.



# KOIKE

*Your cutting needs – achieved.*

# IK-12 NEXT

Easy gas cutting as ever before. Newly equipped with welding and plasma cutting function.

## ● Stand

Compatible with previous machine "IK-12 max3". Torch set series can be equipped.

## ● Right angle marking

The right angle of pipe arm can be easily set.

## ● Arc control toggle switch

Welding and plasma cutting are controlled by the signal of the toggle switch.

## ● Digital display

Numerical data of speed or other settings can be managed.

## ● Mechanical clutch

Releasing the mechanical clutch, the body can move without lifting up from the rail.

## ● NEW Heat emission mechanism

(Patented) The bottom is designed for heat emission design, which prevents heat affect to the machine.

## ● Weaving control connector

For use of the weaving holder setting.

## ● Input power connector

For use of 3P power supply and arc signal 2p connector setting.

## ● Function Dial



Speed pre-set function can record 3 speed settings.

Also, easier to adjust creep speed for gas cutting and plasma weaving welding.

## ● Running direction toggle switch

Make the machine run backward / forward.

## ● NEW Creep batten (Patented)

When pushing the creep button, the speed setting instantly changes into slow-mode, which control lead-in / lead-out of thick plate cutting.

## IK-12 NEXT main specification

Model Name		IK-12 NEXT
Stock No.		90140
Specification Of Carriage	Travel Speed	40~2400 mm/min
	Motor	DC24V Encoder electronic control
	Speed Dial	Infinite rotation multifunctional dial
	Digital Display	Travel Speed and parameters
	Max. load weight	50 kg
Gas Cutting	Straight cutting	○ (with the same rail for IK-12)
	Circle cutting	○ (With circle cutting rail or circle cutting attachment)
	Creep mode	○
Plasma Cutting	Plasma arc interlocking start	○
	Arc test	○
	Wait time for carriage running start	0.0~10.0 sec
Welding	Position	Butt weld with straight downward position
	Weld interlocking start	○
	Arc test	○
	Wait time for carriage running start	0 ~10.0 sec
	Swing speed (mm/min)	400~1500 mm/min
	Swing range (mm)	0~100.0 mm/min
Weaving control	Left/middle/Right stop time (sec)	0.0~10.0 second
Input Power Source		Single phase AC100~240V 50Hz-60Hz
Body weight(kg)		8.5
Machine size Length×Width×Height(mm)		432 x 220 x 160 (Without stand part)



## Torch sets for multipurpose

### Gas cutting

IK-12 can be used with previous gas cutting torch for high quality cut

#### ■ S100 single torch set / S200 twin torch set

Our standard torch set. Vertical motion is smoothly adjusted by pipe and rack system.

#### ■ SP single torch set / SP twin torch sets

Torch set with pantograph plate tracing system.

#### ■ V-bevel cutting set

Twin torch set specializing into V-bevel cutting and Y-bevel cutting.

#### ■ X-bevel cutting torch set

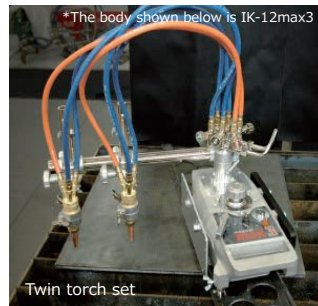
Triple torch set specializing into X-bevel cutting and K-bevel cutting.

#### ■ High speed nozzle / thick plate cutting nozzle

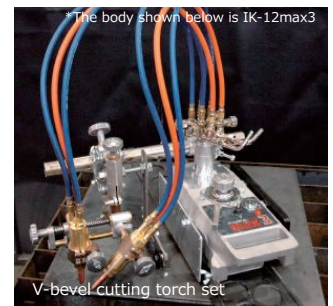
Thick plate cutting with tip mixing type nozzle, over 150mm thickness with out-mixing type nozzle.

#### ■ EPOCH nozzle (LPG only)

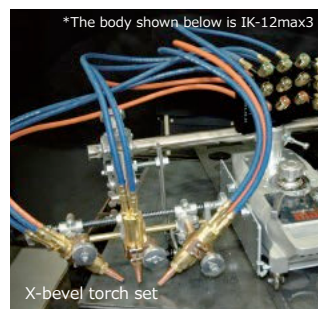
Thick plate cutting without mixing type for high resistance to backfire. (300mm to 600mm)



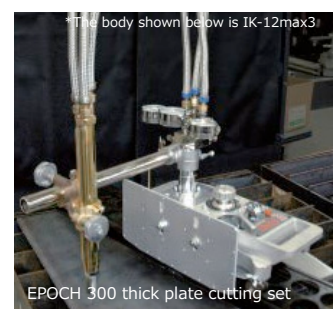
Twin torch set



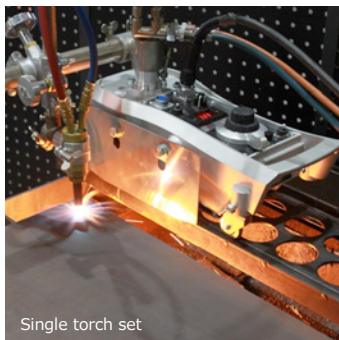
V-bevel cutting torch set



X-bevel torch set



EPOCH 300 thick plate cutting set



Single torch set



Single torch set

### Welding

Torch set for butt weld

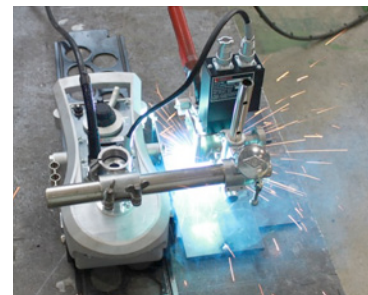
#### ■ A type welding holder set

Universal torch clamp, allows to setup a wide range of torch diameter.



#### ■ Weaving holder set

Weaving unit increasing welding deposition with one pass. Numerical control for swing width, swing speed and swing stop. (stop right, stop center, stop left)



### Plasma cutting

IK-12 NEXT is equipped with arc signal function, which is easily applied plasma cutting

#### ■ Plasma holder set

Holder for plasma torch. Standard Ø35mm, for smaller torch diameter please contact KOIKE.

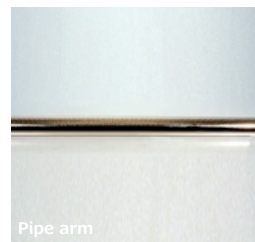


## Optional

Stock No.	Part Name	Note
30400	IK-12 Straight rail 1.8m	Standard rail 1.8m
90044	IK-12 Epoch rail 1.8m	Thick plate cutting rail 1.8m
30410	IK-12 NEXT circle rail	Cutting diameter $\phi 40-360$ , $\phi 770-1150$
30389	IK-12 Circle cutting attachment	Cutting diameter $\phi 400-2400$ mm
D6010	Rail fixing magnet	IK-12 Straight rail
30430	E/F Slide bar 250L	High and low range 170mm
30431	E/F Slide bar 300L	High and low range 220mm
30422	E/F Slide bar 400L	High and low range 330mm
30300	Pipe arm 350L	Length: 350mm F type/E type 1 torch standard
30321	Pipe arm 500L	Length: 500mm other torch set standard
30425	Pipe arm 1000L	Length: 1000mm
30427	Pipe arm 1500L	Length: 1500mm
30429	Pipe arm 2500L	Length: 2500mm
30204	Stand (standard)	Length: 84mm, standard
30440	Stand 180L	Incl. Welding set, bevel attachment and twin torch
30378	Stand 100	Length: 105mm
T60038959	Plate edge guide roller	Running without rail by tracking plate edge
ON002	Torch bevel attachment	Bevel rotating cutting torch with scale
ON001	Twin torch	Tandem cutting twin torch
80512	Snap bulb B-Type	IK-12 F/E Single torch set
80518	Preset stop valve	1 torch
61003543	Preset stop valve	2 torch
30346	Counter weight	Weight: 3kg
20511063	Plasma holder set	Torch diameter $\phi 35$ mm (signal cable not incl.)
20511064	Weaving holder set	Universal torch holder (signal cable not incl.)
20511050	Welding holder set	Universal torch holder (signal cable not incl.)
20508486	Weaving unit WU-3R	Holder set not included
61005388	Signal cable	Only for plasma and welding set up



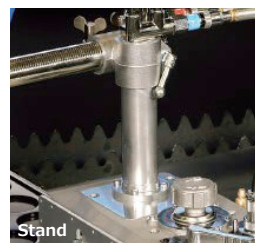
Circle rail



Pipe arm



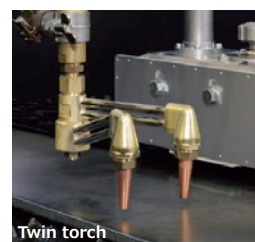
Snap bulb



Stand



Torch bevel attachment



Twin torch



Plasma fitting holder



Fitting bush  $\phi 16 \rightarrow \phi 24$ mm

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