

NEXT generation of portable carriage! With NEW Design & Functions for WIDE Range of Applications!

# IK-12 NEXT

## Overview

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.

**New drive control system,** allows you to set precise and wide range of travel speed from thin to thick plate thickness cutting application.

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

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

No need to add a separate control box for weaving function for its control unit is already built-in on IK-12 NEXT.

- 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-12max3, which can be used as such.

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 as well as other settings can be easily managed.
- Mechanical Clutch**  
 Releasing the mechanical clutch, the body can move without lifting up from the rail.
- New Heat Dissipation Mechanism (Patented)**  
 Machine's bottom is designed for heat dissipation, which prevents the heat to affect machine's body and internal components.
- Weaving Control Connector**  
 For use of the weaving holder setting.
- Input Power Connector**  
 Connector setting with Power Supply (3P) and arc signal (2P).
- Function Dial**  
 Speed pre-set function can record 3 speed settings. Also, it is easy to adjust creep speed for gas/plasma cutting and plasma weaving welding.
- Running Direction Toggle Switch**  
 When the toggle switch is set to the bottom position, the machine starts to run.
- New Creep Button (Patented)**  
 When pushing the creep button, the speed setting instantly change into slow-mode, which control Lead-In / Lead-Out on thick plate cutting.

IK-12 NEXT Main Specification		IK-12 NEXT	
<b>Model Name</b>		<b>IK-12 NEXT</b>	
Stock No.		<b>20506283</b>	
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	
	Weaving control	Swing speed (mm/min)	400~1500 mm/min
		Swing range (mm)	0~100.0 mm/min
		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 Multipurposes

### Gas Cutting

IK-12 is compatible with previous gas cutting torch sets and can be used with high quality cutting.

#### ■ **F type Single Torch Set / F type Twin Torch Sets**

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

#### ■ **E type Single Torch Set / E type Twin Torch Sets**

Torch set with pantograph plate tracing system.

#### ■ **V-Bevel Cutting Set**

Twin torch set specialized into V-Bevel and Y-Bevel cutting.

#### ■ **X-Bevel Cutting Torch Set**

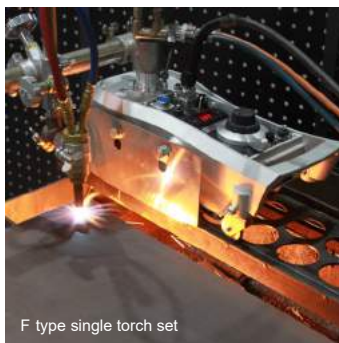
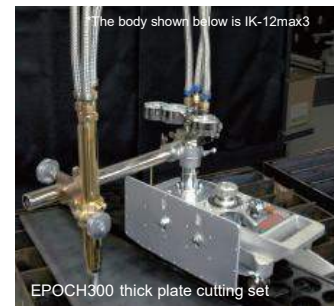
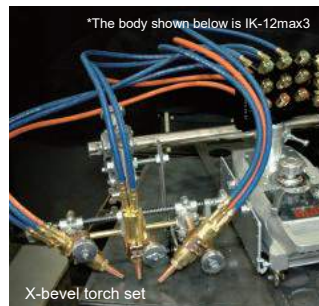
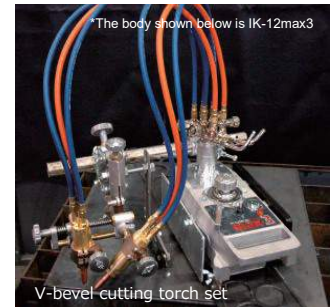
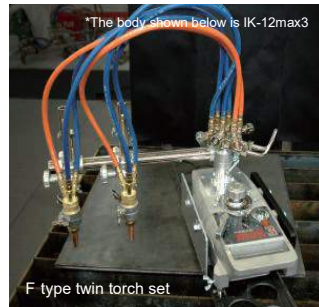
Triple torch set specialized into X-Bevel and K-Bevel cutting.

#### ■ **100 type for Thick Plate Cutting Set / 6023 Thick Plate Cutting Set**

Thick plate cutting set with tip mixing type.

#### ■ **EPOCH Thick Cutting Set (LPG only)**

Thick plate cutting set with post-mixing type and high resistance to backfire.



### Welding

Torch set for butt weld

#### ■ **A type Welding Holder Set**

Torch clamp can be set with less than  $\Phi 30\text{mm}$  by easy adjustment for forward, backward or target angle.



#### ■ **Weaving Holder Set**

Weaving unit increase the welding deposition with few pass. Numerical control for swing width and speed are available.



### Plasma cutting

IK-12 NEXT has arc control function built-in, which is easily applied for plasma cutting.

#### ■ **Plasma Holder Set**

Standard type of holder is compatible with  $\phi 35\text{mm}$  plasma torch. For  $\phi 30\text{mm}$  or  $\phi 25\text{mm}$  torches, torch bush has to be added as a option.

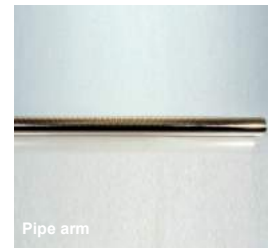


## Optional

Stock No.	Part Name	Note
BCD19102	IK-12 Straight rail 1.8m	Standard rail 1.8m
BCD19108	IK-12 Epoch rail 1.8m	Thick plate cutting rail 1.8m
BCD19109	IK-12 max3 NEXT circle rail	Cutting diameter $\phi 40$ -360, $\phi 770$ -1150
60030389	IK-12 Circle cutting attachment	Cutting diameter $\phi 400$ -2400mm
323-6015	Rail fixing magnet DS6010	For IK-12 Straight rail
60035082	E/F Slide bar 200L (Standard)	High and low range 120mm
60035093	E/F Slide bar 250L	High and low range 170mm
60035094	E/F Slide bar 300L	High and low range 220mm
60035095	E/F Slide bar 350L	High and low range 270mm
67000336	E/F Slide bar 400L	High and low range 330mm
60030300	Pipe arm 350L	Length: 350mm F type/E type 1 torch Standard
60030321	Pipe arm 500L	Length: 500mm Other torch set Standard
60030422	Pipe arm 600L	Length: 600mm
60030423	Pipe arm 700L	Length: 700mm
60030424	Pipe arm 800L	Length: 800mm
60030425	Pipe arm 1000L	Length: 1000mm
60030426	Pipe arm 1200L	Length: 1200mm
60030427	Pipe arm 1500L	Length: 1500mm
60030428	Pipe arm 2000L	Length: 2000mm
60030429	Pipe arm 2500L	Length: 2500mm
60030204	Stand (Standard)	Length: 84mm, Standard
60030440	Stand 180L	Welding set, bevel attachment, and twin torch
60030378	Stand (EPOCH)	Length: 114mm EPOCH
60032374	Stand 300L	Length: 300mm
60032375	Stand 400L	Length: 400mm
60032376	Stand 500L	Length: 500mm
BQA00003	Torch bevel attachment	Bevel (Positive/Negative) cutting torch with angle gauge
BQC00002	Twin torch	Tandem cutting twin torch
BQA00002	Snap valve B-Type	IK-12 F/E Single torch set
BQA00003	Snap valve C-Type	IK-12 F/E Twin torch set
60030346	Counter weight	Weight : 3kg
60036271	Plasma torch holder	Torch diameter $\phi 35$ mm, Shaft diameter $\phi 16$ mm
60061282	Fitting bush $\phi 16 \rightarrow \phi 24$ mm	Plasma fitting holder (F type torch set)
60038070	Torch bush $\phi 35 \rightarrow \phi 25$ mm	$\phi 25$ mm Torch bush (Need plasma fitting holder)
60038073	Torch bush $\phi 35 \rightarrow \phi 30$ mm	$\phi 30$ mm Torch bush (Need plasma fitting holder)



Circle rail



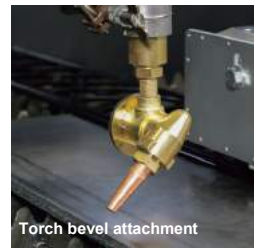
Pipe arm



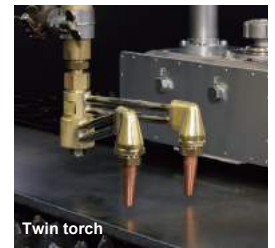
Snap valve



Stand



Torch bevel attachment



Twin torch



Plasma fitting holder



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



Total system supplier of Gas, Welding and Cutting

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