KOIKE

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.**

*The picture shown above is F type single torch set for gas cutting.

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.

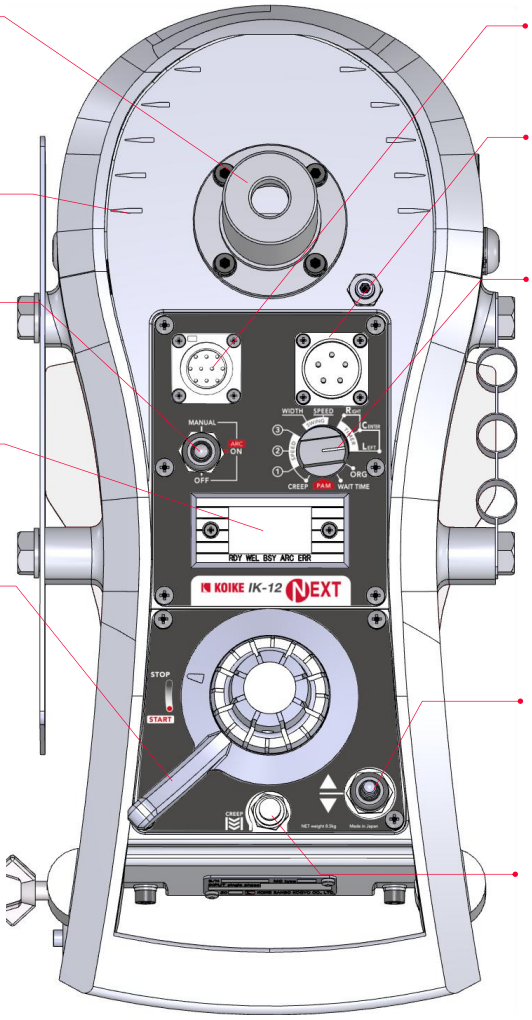
Arc Control Toggle Switch
Welding and Plasma Cutting are controlled by the signal of the toggle switch.

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.

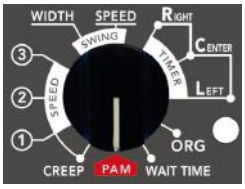




Weaving Control Connector
For use of the weaving holder setting.

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

Model Name			IK-12 NEXT
Stock No.			20506283
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.

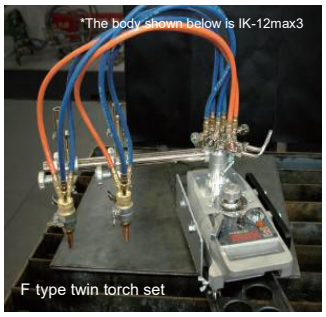
■ **E type Single Torch Set / E type Twin Torch Sets**
Torch set with pantograph plate tracing system.

■ **V-Bevel Cutting Set**
Twin torch set specialized into V-Bevel and Y-Bevel cutting.

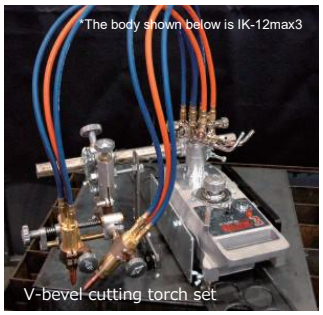
■ **X-Bevel Cutting Torch Set**
Triple torch set specialized into X-Bevel and K-Bevel cutting.

■ **100 type for Thick Plate Cutting Set / 6023 Thick Plate Cutting Set**
Thick plate cutting set with tip mixing type.

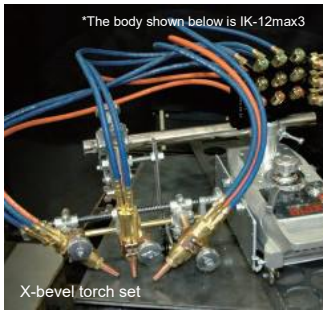
■ **EPOCH Thick Cutting Set** (LPG only)
Thick plate cutting set with post-mixing type and high resistance to backfire.



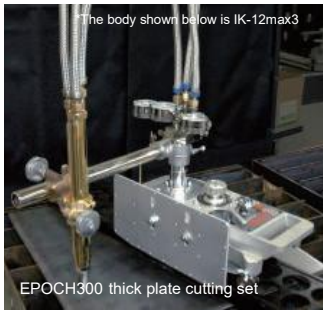
F type twin torch set



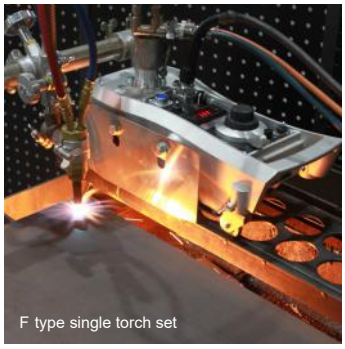
V-bevel cutting torch set



X-bevel torch set



EPOCH300 thick plate cutting set


F type single torch set

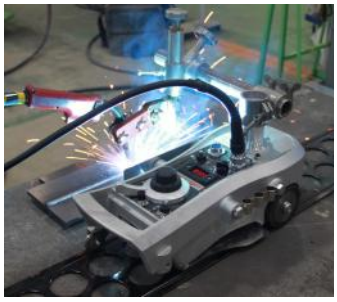



F type single torch set

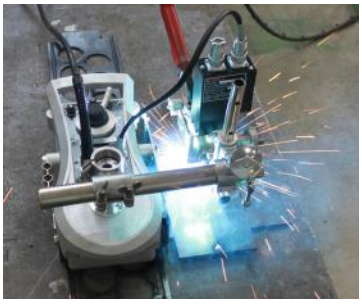
Welding

Torch set for butt weld

■ **A type Welding Holder Set**
Torch clamp can be set with less than Φ30mm by easy adjustment for forward, backward or target angle.



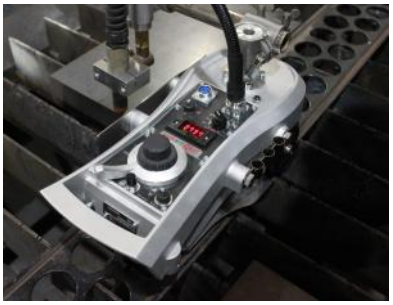
■ **Weaving Holder Set**
Weaving unit increase the welding deposition with few pass. Numerical control for swing width and speed are available.

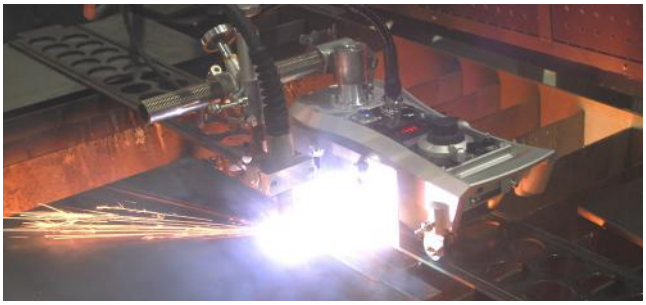


Plasma cutting

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 φ35mm plasma torch.
For φ30mm or φ25mm torches, torch bush has to be added as a option.

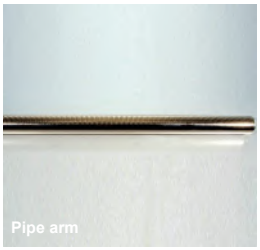


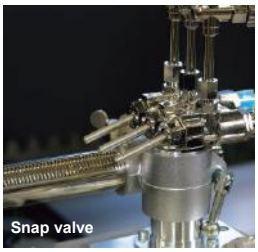


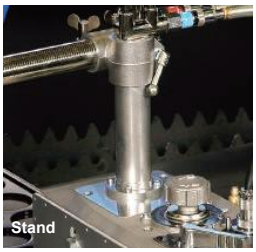
Optional

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 φ40-360、φ770-1150
60030389	IK-12 Circle cutting attachment	Cutting diameter φ400-2400mm
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 φ35mm、Shaft diameter Φ16mm
60061282	Fitting bush Φ16→Φ24mm	Plasma fitting holder (F type torch set)
60038070	Torch bush Φ35→Φ25mm	φ25mmTorch bush (Need plasma fitting holder)
60038073	Torch bush Φ35→Φ30mm	φ30mmTorch bush (Need plasma fitting holder)

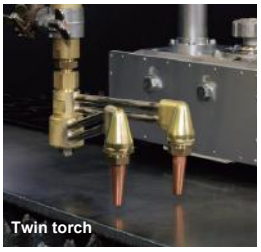

Circle rail

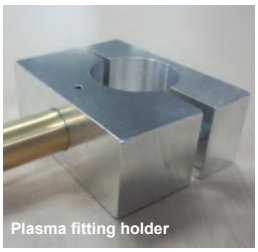

Pipe arm


Snap valve


Stand


Torch bevel attachment


Twin torch


Plasma fitting holder


Fitting bush Φ16→Φ24mm

Total system supplier of Gas, Welding and Cutting

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The contents in this catalog is related to April 2018