

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		IK-12 NEXT	
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 multipurpose

Gas cutting

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

■ Single torch set / Twin torch sets

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

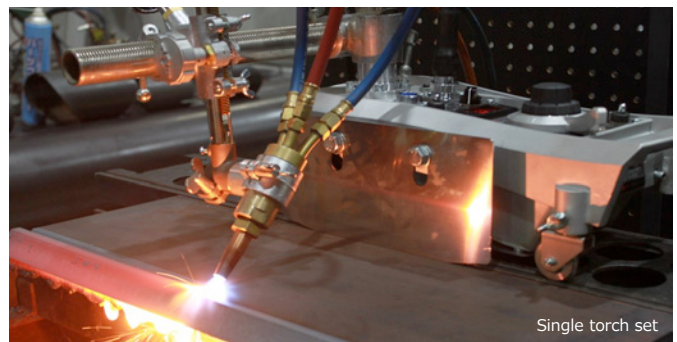
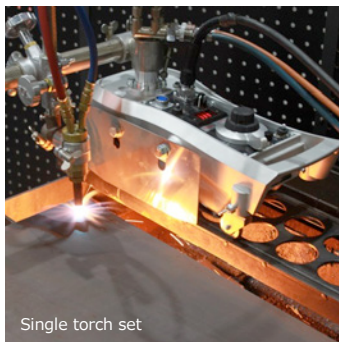
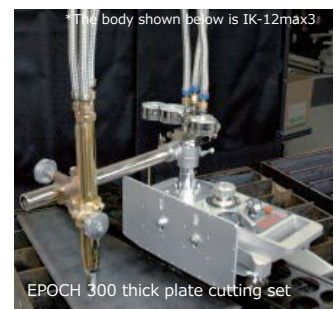
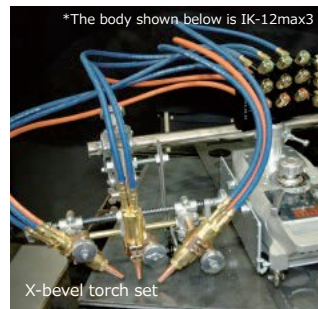
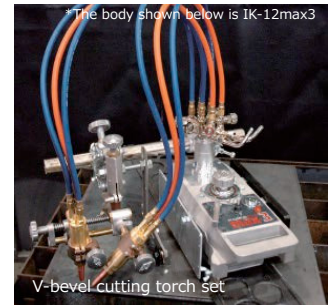
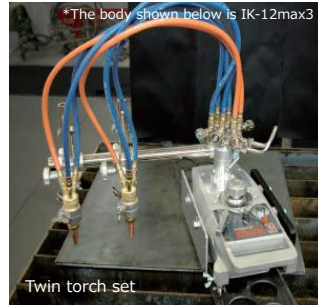
Triple torch set specializing into X-bevel cutting and K-bevel cutting.

■ 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)



Welding

Torch set for butt weld

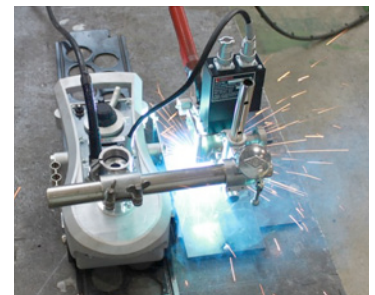
■ A type welding holder set

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)

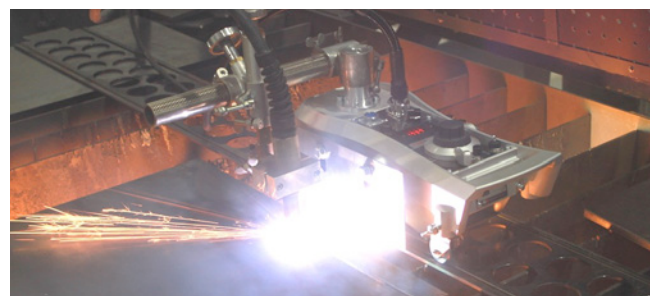


Plasma cutting

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.

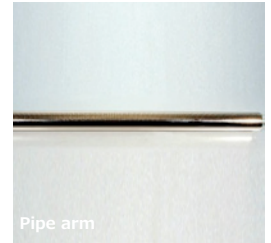


Optional

Stock No.	Part Name	Note
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 ϕ 40-360, ϕ 770-1150
60030389	IK-12 Circle cutting attachment	Cutting diameter ϕ 400-2400mm
D6010	Rail fixing magnet	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
60030321	Pipe arm 500L	Length : 500mm
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	Accurate bevel without tilting the torch
BQC00002	Twin torch	Tandem cutting twin torch
BQA00002	Snap bulb B-Type	IK-12 F/E Single torch set
BQA00003	Snap bulb C-Type	IK-12 F/E Twin torch set
60030346	Counter weight	Weight : 3kg
60036271	Plasma torch holder	Torch diameter ϕ 35mm, Shaft diameter Φ 16mm
60061282	Fitting bush Φ 16 \rightarrow Φ 24mm	Plasma fitting holder (torch set)
60038070	Torch bush Φ 35 \rightarrow Φ 25mm	ϕ 25mm Torch bush (Need plasma fitting holder)
60038073	Torch bush Φ 35 \rightarrow Φ 30mm	ϕ 30mm Torch bush (Need plasma fitting holder)



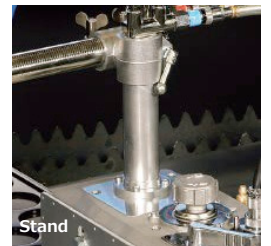
Circle rail



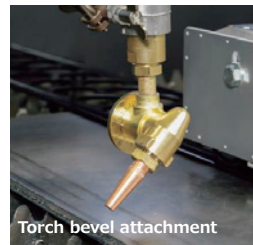
Pipe arm



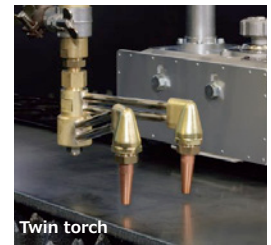
Snap bulb



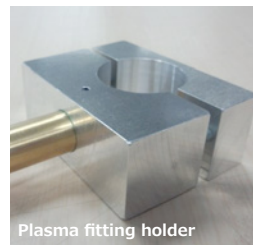
Stand



Torch bevel attachment



Twin torch



Plasma fitting holder



Fitting bush Φ 16 \rightarrow Φ 24mm

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