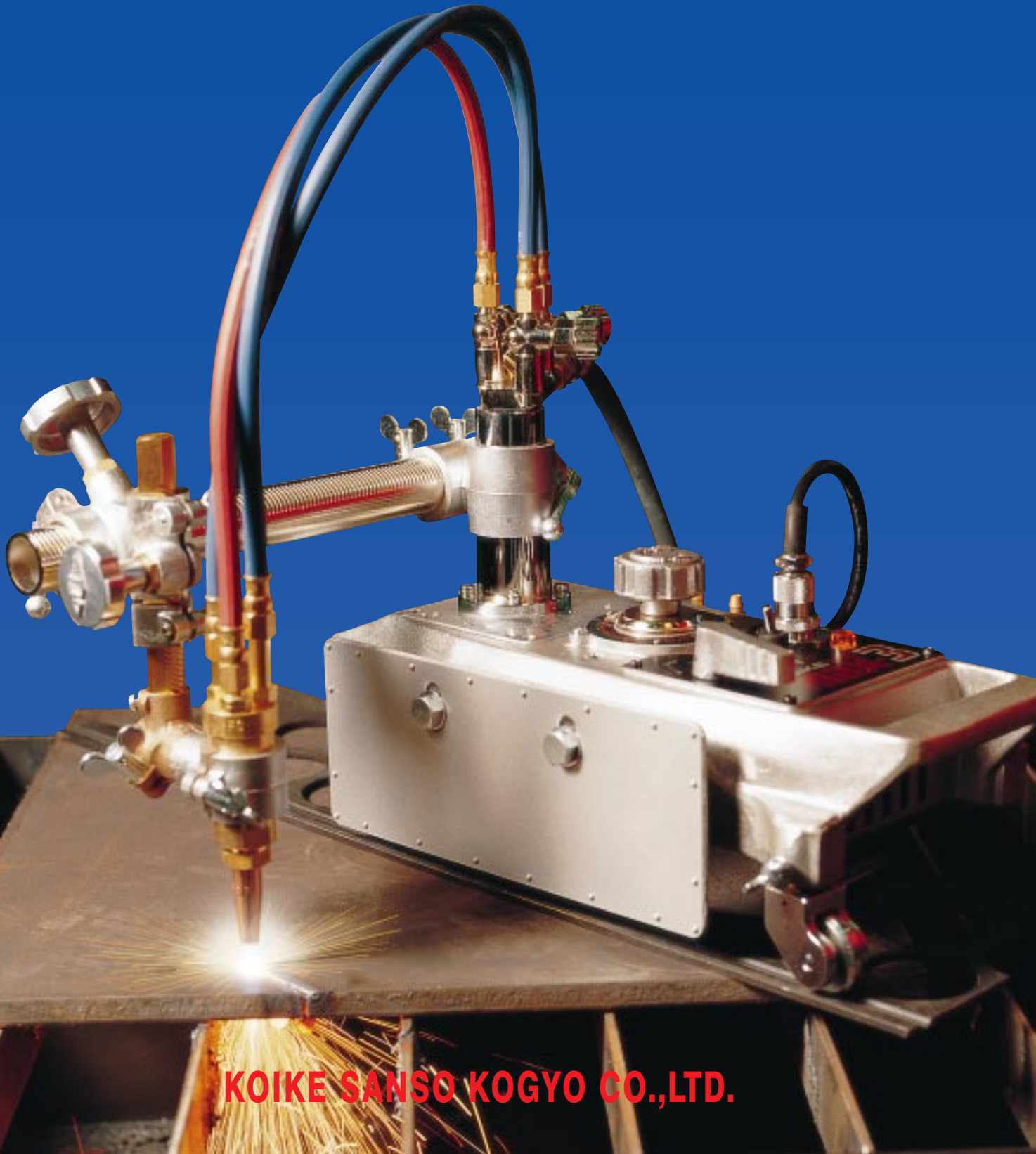


IK-12 MAX.3

PORTABLE FLAME CUTTING SYSTEM



KOIKE SANSO KOGYO CO.,LTD.

MAX.3 is a new generation machine applicable not only to gas/plasma cutting but as a welding carriage!!

MAXIMUM..... IK-12 MAX, true to its name, has been highly rated among the portable flame cutting machines. Exploring the "MAXIMUM" in the new age, IK-12 MAX is redesigned into IK-12 MAX.3.

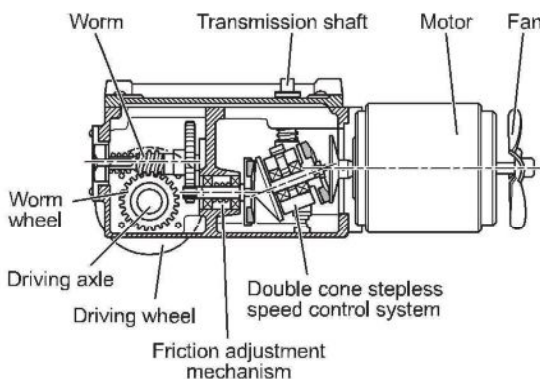
Body structure is systematized to apply to different types of work and meet the needs of plasma cutting and automatic welding. Since 3 major parts of the system – (1) travelling carriage, (2) cutting torch unit and (3) plate track and accessories – are functionally worked out as independent units, selection and assortment are at the customer's disposal to create the system needed for the requirement.

Try a new MAX.3 made with new technology from new materials, and enjoy "maximum efficiency", "maximum versatility" and "maximum productivity".

PART 1 Travelling carriage

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

Speed Control Mechanism of IK-12 MAX.3 has adopted an exclusive Double Cone Stepless Speed control system (See the drawing), developed by KOIKE, which functions with a condensor motor rotating at regular speed to prevent heat and voltage problems from occurring. No reduction gear is employed in the mechanism. Therefore, any knocking from backlash, noise or vibration does not take place. With entire use of heat-resisting grease, high temperature soldering and Teflon wiring, heat protection is considered perfect and durable for long continuous operation. In addition, the condensor motor rotating at a constant low speed (1,500 r.p.m./50Hz) prolongs the service life of bearings and maintains the "maximum state" for a long period of time.



IK-12 MAX.3 Specifications [Standard Model]

Travelling Speed:	80–800 mm/min (50Hz) (3"~31") 100–1,000 mm/min (60Hz) (4"~39")
Speed Control:	double cone stepless speed control system
Driving:	Condensor Type Induction Motor Output 9/10W (50Hz/60Hz)
Speed Meter:	Dial Indication (w/conversion scale)
Weight:	11,5 kg (25 lbs)
Max. Loading Weight:	50,0 kg (110 lbs)
Overall Measurement:	430 mm (L) x 170 mm (W) x 215 mm (H) (17"x 7" x 8-1/2")

PART 2 Cutting torch unit

Cutting Torch Units of 8 kinds able to perform I to V; K, X cutting. See how sharply it cuts.

■ S-100 – for square of V-bevel cutting

A single torch unit equipped with a simple holder having no floating function. Standard Pipe Arm Length: 350 mm (14"). Vertical axis steel pipe and Vertical adjustment up to 80 mm (3")

■ S-200 – for square, V, Y or X-bevel cutting

2 torch model of SR-100. Standard Pipe Arm Length: 500 mm (20"). Balance weight attached. Bevel cutting and parallel cutting both possible.

■ SP-100 – for square of V-bevel cutting

A single torch unit equipped with a panta-holder having floating function to maintain the distance between tip and workpiece. Standard Pipe Arm Length: 350 mm (14"). Vertical axis steel pipe and Vertical adjustment is up to 120 mm (5").

■ SP-200 – for square, V, Y, or X-bevel cutting

2 torch model of SPR-100. Standard Pipe Arm Length: 500 mm (20") – Balance weight attached. Bevel cutting and parallel cutting possible.

■ SP-300 (V-Cutting Unit)–for square, V, Y, or X-bevel cutting

A combination unit of panta-holder having floating function and 2 torches of V bevel block. Clean and sharp bevel V, Y and X cutting is ensured.

■ SP-400 (X-Cutting Unit) – for square, V, Y, X or K-bevel cutting

A combination unit of panta-holder having floating function and 3 torches of X bevel block. Clean and sharp X and K bevel cutting is ensured.

■ L-100 (Thick Plate Cutting Unit)

A single torch unit having Type 6023 cutting tip and 6023 torch that have been specially developed for quality cutting of thick plate. A distribution unit equipped with pressure gauge.

Cutting Thickness:

200 – 250 mm (8"~10") (using tip model 6023-250)

250 – 350 mm (10"~14") (using tip model 6023-350)

■ EPOCH 300/600 (EPOCH Thick Plate Cutting Unit)

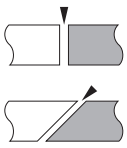
A single torch unit having an EPOCH cutting tip of special structure designed exclusively for thick plate cutting. A distribution unit equipped with pressure gauge.

Cutting Thickness:

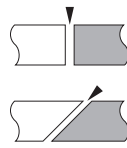
100 – 300 mm (4"~12") (using tip model EPOCH 300)

300 – 600 mm (12"~24") (using tip model EPOCH 600)

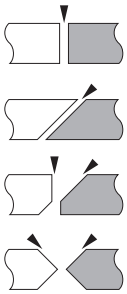
S-100



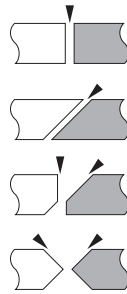
SP-100



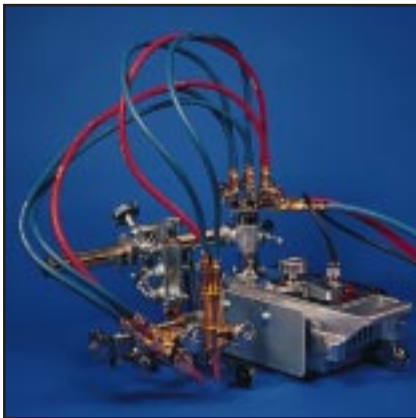
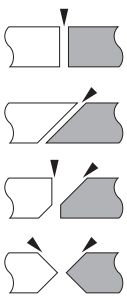
S-200



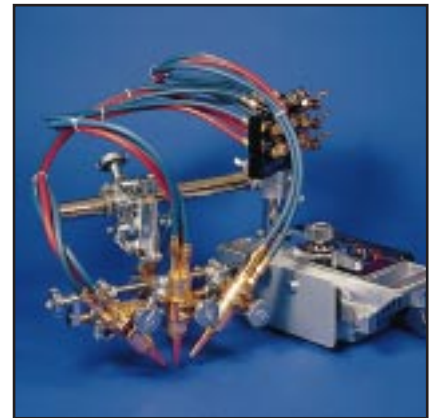
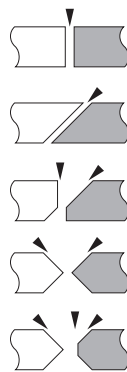
SP-200



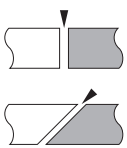
SP-300



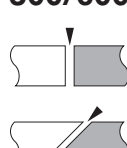
SP-400



L-100



**EPOCH
300/600**



PART 3 Plate track and accessories

Various plate track and optional accessories can support maximum quality of processing

■ Straight-line Extension Track

Each track of 1.800 mm (72") long is extensible to the requirement.

■ Circle Cutting Track (Option)

Recommended for cutting circles of comparatively large diameter.

Cutting Range:

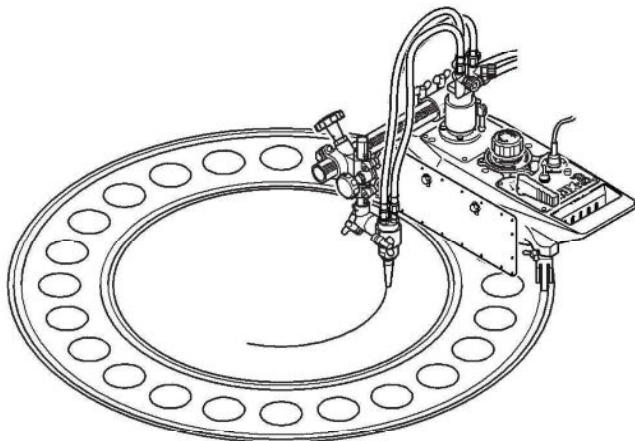
- Ø 40-360 mm (1-1/2" ~ 14") at inside, and
- Ø 770-1.150 mm (30" ~ 45") at outside



■ Circle Cutting Attachments (Adjustable Radius Bar) (Option)

They are mounted on the main body. Recommended for cutting circles of large diameter.

Cutting Range Ø 40-2.650 mm (1-1/2" ~ 104")



■ Heavy Duty Track for Thick Plate Cutting

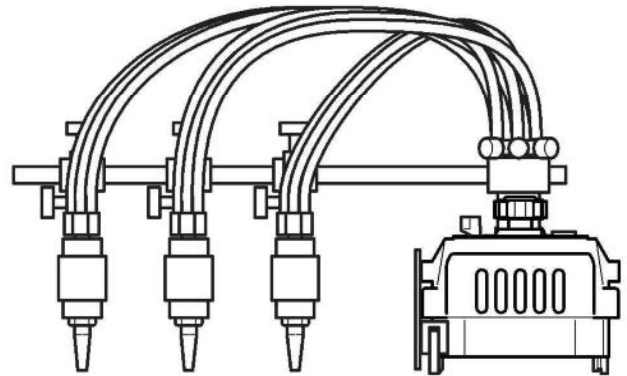
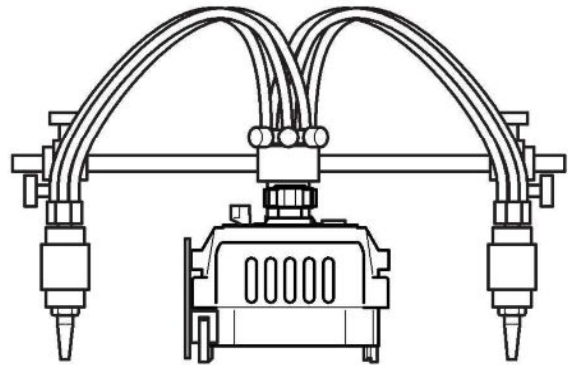
Each track of 1.800 mm (71") is extensible to the requirement. Heavy duty track is most appropriate for L-100 and Epoch 300/600 torch set.

■ Pipe Arm (Long Type) (Option)

Parallel cutting of wide products can be made with multiple torches.

[Type] 500 mm (20"), 600 mm (24"), 700 mm (28"),
800 mm (32"), 900 mm (36"), 1.000 mm (40"),
1.200 mm (48"), 1.500 mm (60"), 2.000 mm (80"),
2.500 mm (100")

■ Application Example of Pipe Arm (Long Type)



Standard accessories

Cutting tip	3 pcs. Each of 102HC or 106HC # 0-1 & 2
Cable cord	1 pc. 5 m (16,4')
Plate track	1 pc. 1.800 mm (72")
Wrench	1 pc.
Screw driver	1 pc.
Tip cleaner	1 set

How to order

Please advise us of these below mentioned items when you place an order.

- Supply voltage AC
- Name of Carriage and Torch unit
- Name of Fuel gas.
- Number of Plate track.
- Optional equipment

A MAX THAT SURPASSED THE MAX ... That is IK-12 MAX.3!

■ Advanced Form

Many cut-off spaces of the upper body makes observation of the wheel positions easier.

■ All-round Flat Surface

A universal type of flat surface usable for welding, plasma cutting, heating and defect detecting.

■ Smooth Speed Adjusting Dial

An easy accustoming design with a vernier to enable micro-adjustment.

■ Convenient Tip Support

Protecting the cutting tip from flaws, a convenient support to hold 3 tips.

■ Sharply Designed Speed Dial

■ Strong Heat Proof Board

Use of ceramic fibers remarkably improves heat proof effect.

■ Bright Pilot Lamp

A bright lamp to indicate power ON.

■ Light Clutch Handle

One of the important working elements that should be always reliable during operation. Nicely fitting to the operators hand.

■ Improvement of Workabilty in Circle Cutting

Lower part of the body is cut open widely, which makes circle cutting easier.

■ Seat for fixing the Auxiliary Stability Wheel

This is designed to install the 4-wheel structure for better stability.





Total system supplier of welding and cutting **KOIKE INTERNATIONAL GROUP**

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Specifications shown herein are subject to change without notice