

PORTABLE, H-SHAPE STEEL GAS CUTTING MACHINE

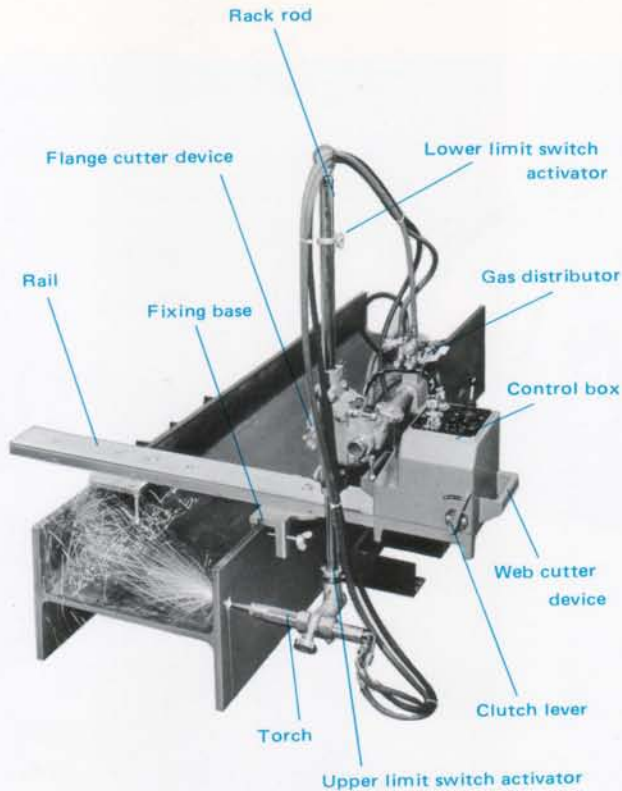
MINI-MANTIS II



 KOIKE SANZO KOGYO CO., LTD.

**FOR EASIER, MORE ACCURATE,
CLEANER H-SHAPE CUTS**

MINI-MANTIS II



The Mini-Mantis II is an automatic gas cutting unit for rapid and precise cutting of H-shape web and flange. Mini-Mantis II has four features which contribute to on-site efficiency and labor reduction.

- * Rail and main unit have been combined, so setting-up time is greatly reduced.
- * Single-lever rail clamping.
- * SCR control for smooth, even cutting speed.
- * Unit construction for easy maintenance and checking.

Add to these features the famous KOIKE quality construction which ensures durability and trouble-free operation, and you have an economical, efficient compact gas cutting machine for small H-shape steel. There are two versions of the Mini-Mantis II, the LT long torch and the ST short torch. Choose the one best suited to your job requirements.

Reasons for choosing the Mini-Mantis II.

1) Rapid gas adjustment

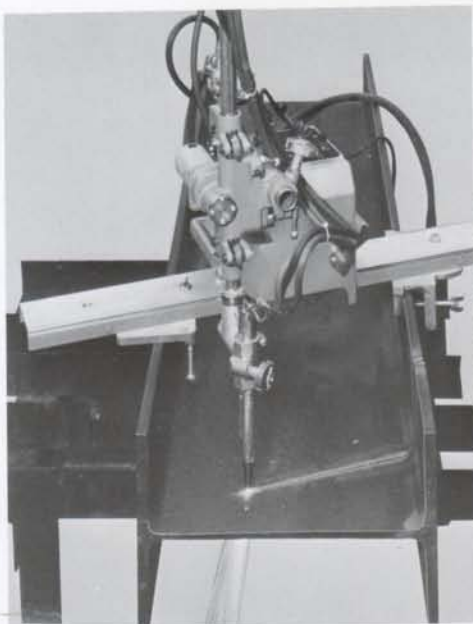
Koike's unique "One touch flame adjuster" is used in the gas distribution system, so the flame only has to be adjusted once, after which a flip of a lever stabilizes the flame at that setting, and also the pilot flame can be left on until the next cutting operation, which results in a considerable saving of labor.

2) More highly automated

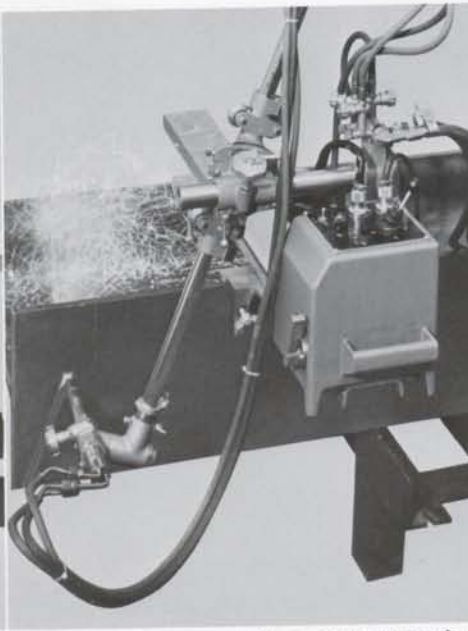
Use the 4-way switch and the cutting oxygen jets out and cutting smoothly commences. Except for flange → web torch movement, nearly everything is automatic; setting the stop to the flange size, for instance, shuts off the cutting oxygen when flange cut is completed.

3) Functional, simple controls

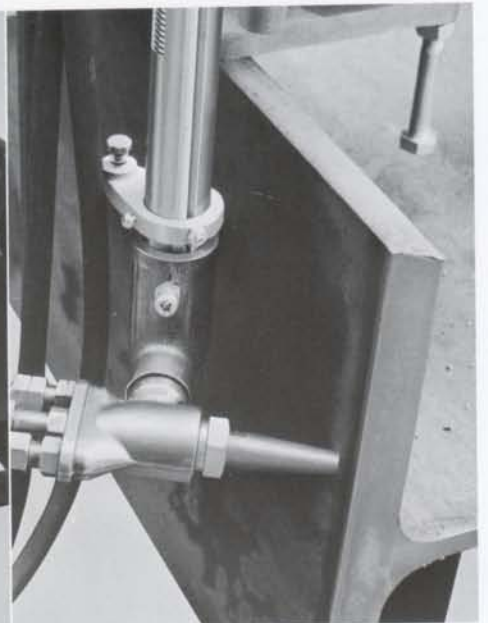
Power switch, speed control, 4-way torch direction switch, rapid traverse, and indicator lamp are all grouped for easy use on the control panel. Easy to see, and easy to use — even for someone using it for the first time.



Diagonal web cutting



Diagonal flange cutting



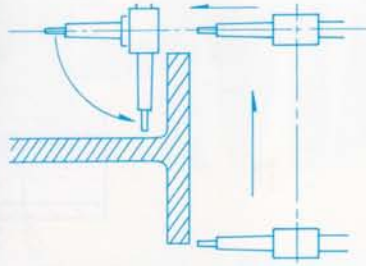
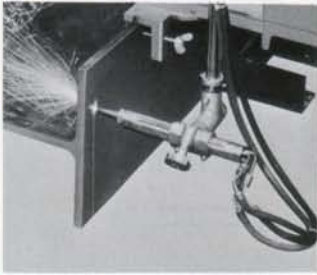
Flange bevel cutting

Which Mini-Mantis II is the one for you?

LT model

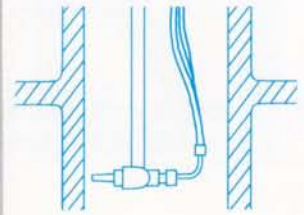
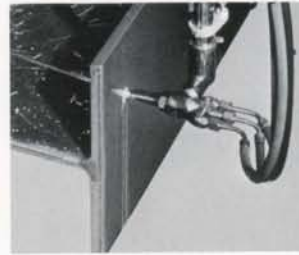
Simplifies web-cutting as the web-to-tip distance can be set with the torch vertical.

Also, no angle adjustment of the torch is necessary when making diagonal web cuts.



ST model

The short torch means that when cutting several H-shapes together, little spacing is required.



Easy to use

1) No need to prepare or move workpiece

The Mini-Mantis II has two motors, one for web-cutting and one for flange work. For web cuts, the carriage is driven along the rail, and for flange cuts, the torch assembly is moved vertically through a rack-and-pinion drive. Turning and marking the workpiece is unnecessary.

2) Can make diagonal cuts of the flange as well as the web, and bevel cutting

The angle is set by adjusting the rail or the vertical rack-bar and the result is a high-precision diagonal cut that is clean and sharp. And, you get the best flange bevel cuts.

3) Two for the price of one — plate-cuts also possible.

The Mini-Mantis II is for cutting H-shape, but can also be used on plate as well. Double versatility, and the low price means you get even greater cost-efficiency.

4) Quality cut-surface finish

The smooth, steady automatic cutting travel means that no follow-up work is needed, unlike manual cutters. You can start welding as soon as you've finished cutting.

5) Light and portable

Very light — total weight including rail is only 20 kg(44 lbs), making it easy to carry from place to place; small, so can be used easily even in small places. The Mini-Mantis II — power with economy.

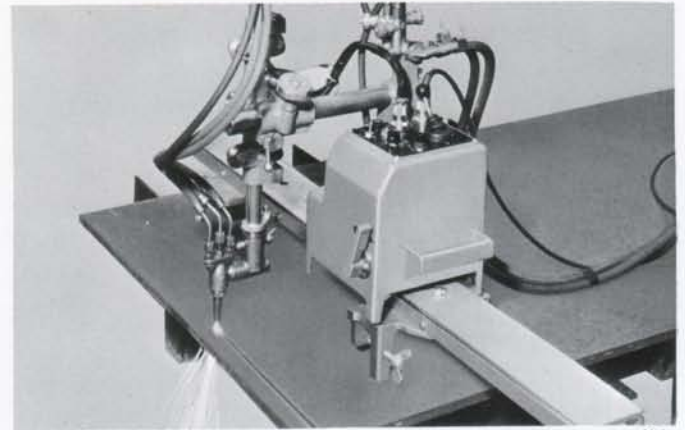
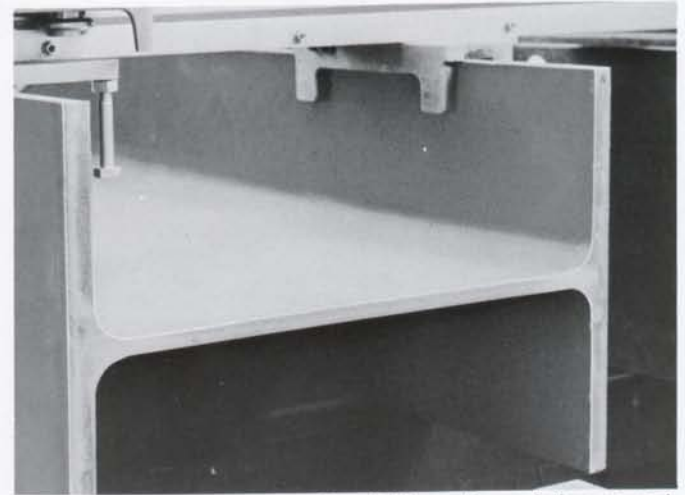


Plate-cuts also possible



Quality cut-surface finish needing no follow-up work



Light and portable

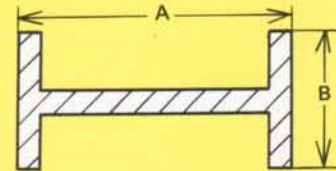
Capacity

1 Right-angle cutting

A = 150 – 600mm (6 – 24'')

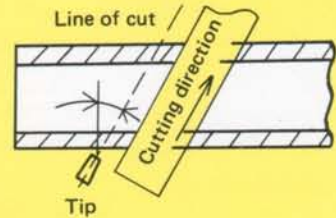
* Optionally an A of 150 – 900mm (6 – 36'') or wider is available.

B = 150 – 400mm (6 – 16'')



2 Diagonal web cutting

35° at 400mm (16'') diagonal web length

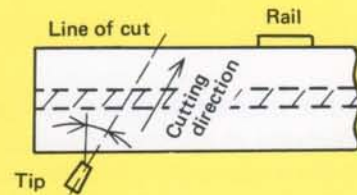


3 Bevel cutting

35° for both web and flange

4 Flange diagonal cutting

30° at 400mm (16'') maximum diagonal flange dimension



Specifications

	Web cutting	Flange cutting
Cutting		
Cutting capacity	5 – 32mm (0.2 – 1.28'')	
Cutting speed	100 – 700mm/min (4-28''/min)	
Cutting dimensions	See above	
General		
Total weight	20kg (44 lbs) with rail	
Drive motor	DC shunt-wound motor, 5W (with reduction gear)	DC shunt-wound motor, 15W (with reduction gear)
Speed control	S.C.R.	
Drive	Friction roller	Rack and pinion
Rail		
Length	1,100mm (44'')	
Fixing	Clamping bolts	

Standard accessories

Cable, 5m long	1
Tips, #0, 1, 2 of type 100	1 each
Fuses, 2A	2
Spanners, 3-spanner set	1 set
Tip cleaner	1 set
Hose band	2
Grease for one touch flame adjuster	1
Cross-head screwdriver	1
Centering jig	1



Total system supplier of welding and cutting

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