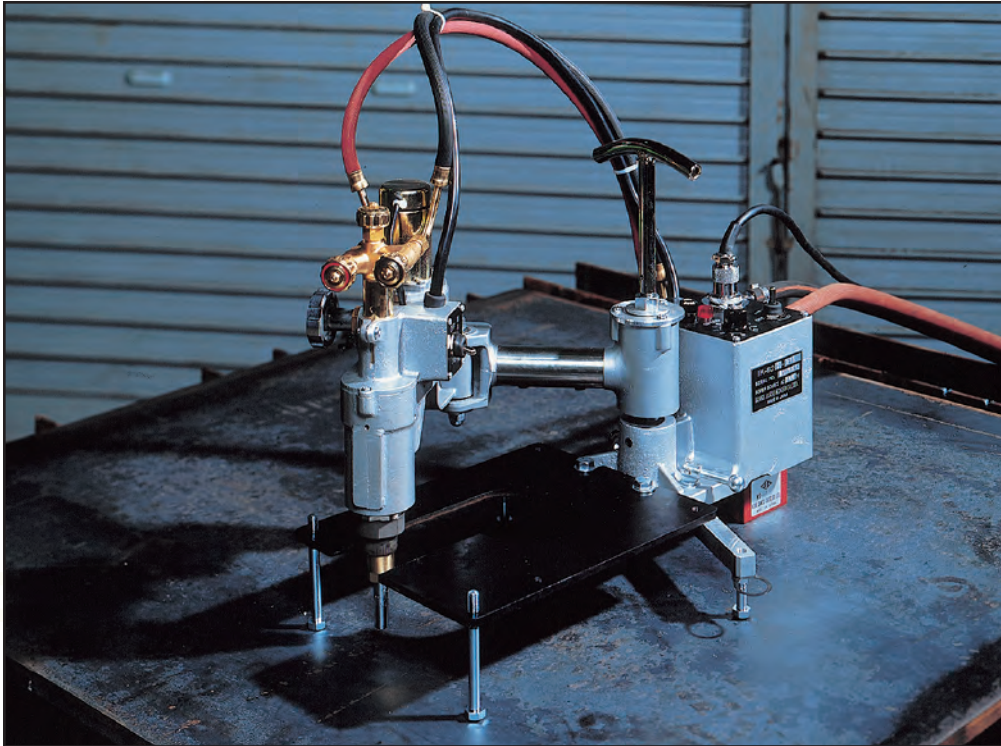


IK-82

Portable Shape Gas Cutting Machine



Most Advanced Magnetic Tracing Machine

Koike's IK-82 is the most advanced magnetic tracing type gas cutter on the market. The innovative design and unique modular structure was created to reduce equipment mass and weight and to provide a system configuration that ensures easy operation. The IK-82 comes in three types; S, M and L, according to the effective cutting length. Types S and M employ interchangeable arms, while type L allows cutting of long parts by using a unique rolling guide rail system. Try the Koike IK-82 series gas cutter for more effective cutting operations.

Features & Benefits

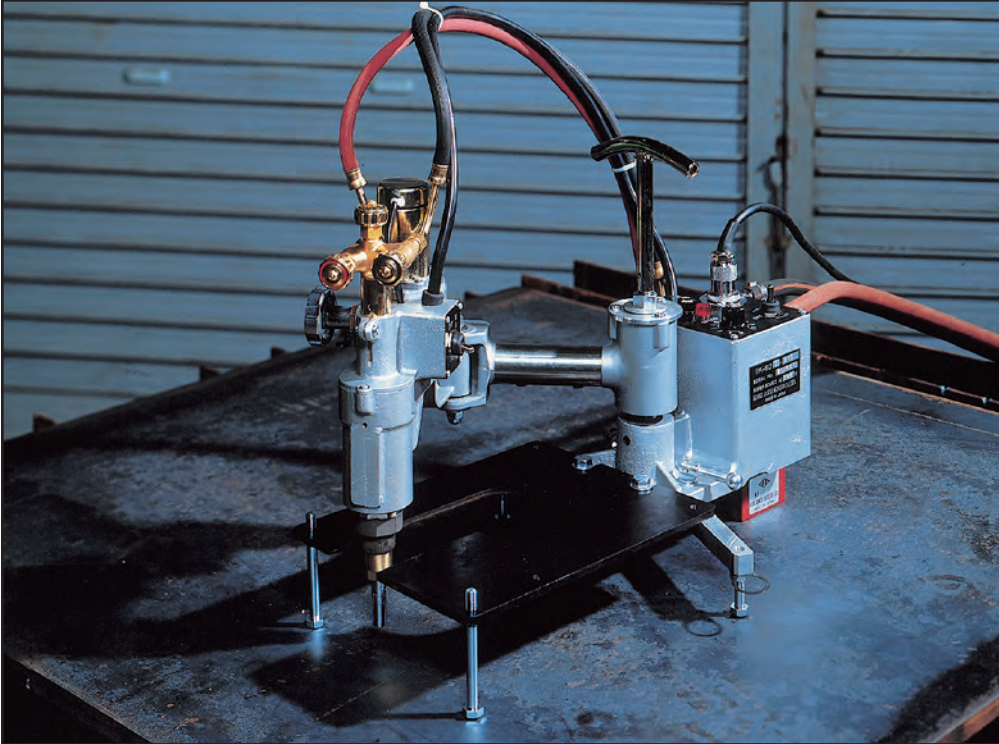
- **Oxy Fuel Pattern Cutter**
Shape cut steel parts
- **Smaller Version of IK-54D**
More portable and compact making it easier to use in smaller spaces
- **Three Sizes - S, M and L**
Size machine to application
- **Tracing Head Tilts Out of Way**
Clean or replace tip quickly
- **Permanent Magnet in Machine Base**
Secures machine to workpiece for smooth, accurate cuts



KOIKE ARONSON, INC.



IK-82 Portable Shape Gas Cutting Machine



Superior Functions Means Superior Cutting

Tracer Head for Handling Ease and Precision Cutting: For easy positioning, the tracer head has a cutting tip at the center of the magnet roller. Cutting is done in close contact with the tracing template to ensure clean, high precision cut faces.

Light-Weight and Rugged Arm with Stainless Steel Pipe Structure (type S and M):

The S and M type arms employ simple, rugged stainless steel tubes for substantial weight reduction allowing for improved portability. (Type M weight is 36% less than that of the IK-54D.)

Easy Tip Replacement: The tip can be easily cleaned and replaced. Flame adjustment is made easy by simply raising the tracer head.

■ **Magnetic Roller Selectable for Your Requirements** (types S and M)

The 16mm (5/8in) diameter roller type is used when templates are not mounted on the machine while the 25mm (1in) diameter roller type is used when templates are mounted on the machine. The 25mm can also be used for the template not mounted on the machine when the height is adjusted. (For details, refer to "Major Points for Template Production" section on next page)

■ **Rail Carriage Featuring Adjustable Rail Length According to Workpiece** (type L)

The rail of type L is only limited by the length of the template used. The design of the moving rail system allows virtually unlimited cutting in length. This allows the machine to be used in many applications.

Template Production

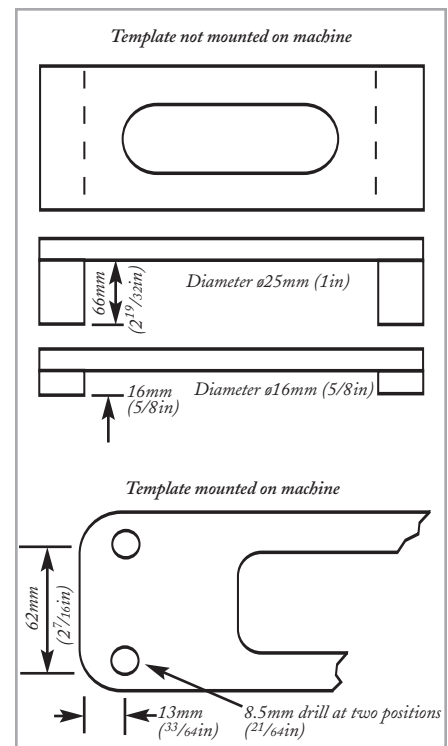
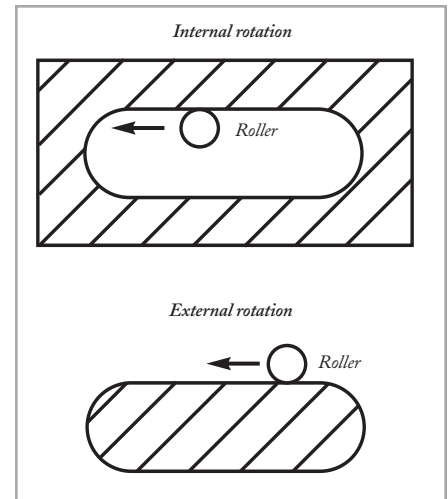
In the IK-82 series, the location of the magnetic roller movement is the same as that of the torch movement. When making the template, take the following into consideration:

- Normally an internal rotation type template is used. If the external rotation type is used, the template may drop with the workpiece when cutting operation has completed.
- Make sure the template has a plate thickness of 6mm (1/4in) or more.
- Template dimensions and layout:
 - (1) When the outer section of the cutout workpiece is the product:
Product + roller diameter - cut width = template
 - (2) When the inner section of the cutout workpiece is the product:
Product + roller diameter + cut width = template

* Note that the cut width varies according to the type number of the tip.
(For details, refer to the operator's manual)

Major Points for Template Production

- **When the template is not mounted on machine:**
Clamp the template or apply load to prevent it from being drawn up by the magnet roller or being moved out of position. Create the template so that die bottom will match the roller bottom.
- **Template mounted on machine:**
To mount the template on the machine, drill the fitting holes on the template as illustrated to the right. Use the template mounting bolt hole (M8) on the machine when mounting the template. If the template is large, install as auxiliary template leg at the position where it does not interrupt magnetic roller travel. This will stabilize the machine.



Koike Gives You Better Features

For Better Functioning



Specifications

IK82-2000-0305



IK-82 Portable Shape Gas Cutting Machine

IK-82 S200 SPECIFICATIONS

Effective Cutting Capacity	Circle 200mm (8in) diameter Ellipse 420 x 160mm (16 1/2 x 16 1/4in)
Motor	100VDC, 6W 10,000 rpm
Speed Control	By transistor
Speed Adjustment	By dial
Cutting Speed	100-900mm/min (4-35in/min)
Power	120 or 220 V AC 50/60 Hz
Magnetic Roller Diameter	25mm (1in)
Cutting Thickness	5-50mm (1/4-2in)
Tip	Acetylene 402ST type; LPG 406NT type
Weight	7.5kg (16.5lbs)
Setting	50kg (110lbs) magnet with lever

IK-82 M300 SPECIFICATIONS

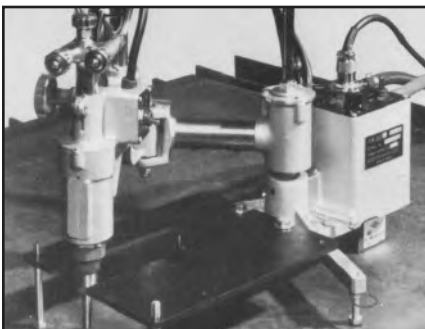
Effective Cutting Capacity	Circle 300mm (12in) diameter Ellipse 600 x 200mm (8 x 24in)
Motor	100VDC, 6W 10,000 rpm
Speed Control	By transistor
Speed Adjustment	By dial
Cutting Speed	100-600mm/min (4-24in/min)
Power	110, 120, 220 V AC 50/60 Hz
Magnetic Roller Diameter	16mm (5/8in)
Cutting Thickness	5-50mm (1/4-2in)
Tip	Acetylene 402ST type; LPG 406NT type
Weight	9.5kg (20.9lbs)
Setting	50kg (110lbs) magnet with lever

IK-82 L900 SPECIFICATIONS

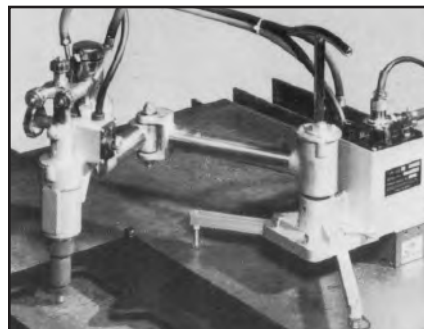
Effective Cutting Capacity	900mm (36in) (wide) x desired length
Rail Carriage Weight	40kg (8.8 lbs)
Motor	100VDC, 6W 10,000 rpm
Rail Length	1,120mm (44 3/32in) standard
Speed Control	By transistor
Speed Adjustment	By dial
Cutting Speed	100-900mm/min (4-35in/min)
Power	120 or 220 V AC 50/60 Hz
Magnetic Roller Diameter	16mm (5/8in) standard
Cutting Thickness	5-50mm (1/4-2in)
Tip	Acetylene 402ST type; LPG 406NT type
Weight	5.5kg (12.1lbs)
Setting	50kg (110lbs) magnet with lever

MODELS

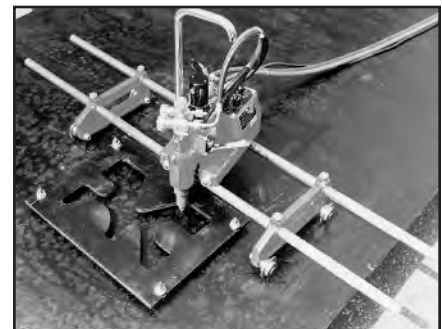
Description	Part #
IK-82 S-200 Cpt w/ 3 402ST Tips Acetylene	ZA410-4017
IK-82 S-200 Cpt w/ 3 402NT Tips LPG	ZA410-4018
IK-82 M-300 Cpt w/ 3 406ST Tips Acetylene	ZA410-3017
IK-82 M-300 Cpt w/ 3 406NT Tips LPG	ZA410-3018
IK-82 L-900 Cpt w/ 3 402ST Tips Acetylene with L-900 Rail	ZA410-2017
IK-82 L-900 Cpt w/ 3 402NT Tips LPG with L-900 Rail	ZA410-2018
Optional L-900 Rail	ZA410-2105



IK-82 S200 model - This is the basic model of the IK-82 series, and is equipped with a standard small arm and 25mm (63/64") diameter magnetic roller. It is often used to cut shapes in C-channel, H-beams, T-joints and bulb flats.



IK-82 M300 model - This model features a cutting capacity up to a circle of 300mm in diameter and ellipse of 600 x 200mm. (23 5/8 x 7 7/8 in) Use this model to cut C-channel, H-beams, T-joints, and bulb flats as well as general template.



IK-82 L900 model - This is a large-sized template cutter using a rail carriage. The length can be adjusted as required. It can be used to cut workpieces of any desired length based on template.



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