

**STRAIGHT  
LINE SERIES  
KC-12M**



*Wasp*

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 **Q-CUT**

The machine reduction gear adopts unique double cone system and is durable for the application in rigid condition.

**KC-12M**

**wasp**



# KC-12M Wasp

The machine reduction gear adopts unique double cone system and is durable for the application in rigid condition.

## PART 1 Unique mechanism

### Features & benefits

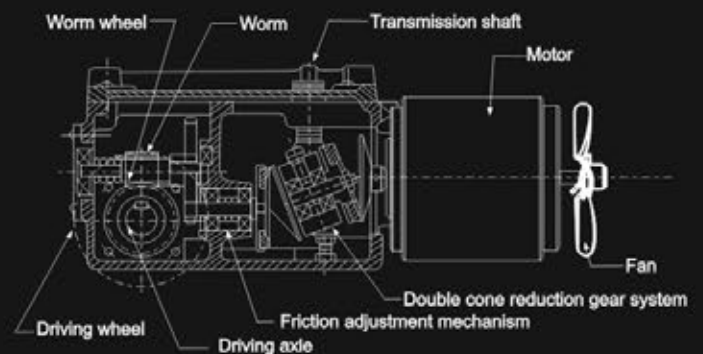
- ◆ Superior heat-proof for normal portable cutting machines
- ◆ Reliable speed control
- ◆ Readable speed with digital gauge display of speed
- ◆ Easily controllable clutch
- ◆ Application for linear, circular, bevel cutting
- ◆ Extendable line track
- ◆ Adjustable radius bar for circle cutting

### Technic specification

| Model                                 | KC-12M wasp  |
|---------------------------------------|--|
| Cutting Capacity:                     | 5 to 100 mm  |
| Bevels:                               | 0° to 45°  |
| Straight Cuts:                        | 1.8 m and multiples                                  |
| Circle Cutting (Diameter):            | 40 to 2650 mm  |
| Cutting Speed:                        | 80 to 800 mm/min (50HZ)<br>100 to 1000 mm/min (60HZ) |
| Torch:                                | Injector Type to suit Acetylene / LPG                |
| Gas Connection (Fuel LH & Oxygen RH): | 1/4" G; 9/16" etc.                                   |
| Gross Weight:                         | 11.5kg W/ 1 torch<br>16kg W/ 2 torches.              |
| Dimensions W/o rail (mm):             | 440 × 205 × 215                                      |

### Travelling carriage

Not affected by intense heat and fluctuating voltage, the maximum driving mechanism ensures steady travelling. Speed Control Mechanism of KC-12 MAX has adopted an exclusive Double Cone Stepless Speed control system (See the drawing), which functions with a condenser 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 condenser 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.



### KC-12M wasp standard configuration

|              | S-100 Acetylene Kit                 | S-100 LPG Kit | S-200 Acetylene Kit | S-200 LPG Kit |
|--------------|-------------------------------------|---------------|---------------------|---------------|
| Order No.    | KC12M100102                         | KC12M100106   | KC12M100102         | KC12M200106   |
| Torch Number | 1 torch                             | 1 torch       | 2 torches           | 2 torches     |
| Track        | One 72" (1800mm) concave pored rail |               |                     |               |
| Tips model   | ANME                                | PNME          | ANME                | PNME          |
| Bevel shape  | I,V                                 | I,V           | I,V,Y               | I,V,Y         |
| Power        | AC42/110/220V                       |               |                     |               |





## A max that surpassed the max...

### PART 2 Cutting torch unit

#### S-100 For Square or V-Bevel:

Single torch unit equipped with a simple holder having no floating function.  
Standard pipe arm length: 400 mm  
Vertical adjustment up to 65mm

#### S-200 For square, V, Y or X-Bevel cutting:

Two torch model of S-100.  
Standard pipe arm length: 600mm  
Balance weight attached.  
Bevel and parallel cutting possible.

#### SP-100 For Square or V-Bevel Cutting:

Single torch unit equipped with a plate rider having floating function to maintain distance between tip and workpiece. Standard pipe arm length: 400mm; Vertical axis steel pipe: Vertical adjustment up to 120mm

#### SP-200 For Square, V, Y, or X Bevel Cutting

Two torch model of SP-100 equipped with a plate rider having floating function to maintain distance between tip and workpiece. Standard pipe arm length: 600mm  
Balance weight attached.  
Bevel and parallel cutting possible.

#### SP-300 (Y-Cutting unit) For Square, V, Y, or X-Bevel Cutting:

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

#### SP-400X1 (X-Cutting unit) For Square, V, Y, X or K-Bevel Cutting:

Combination unit of plate rider having floating function and 3 torches of X bevel block for precision X and K bevel cutting.

SP-400X2 (without floating function) available

**KC-12MP:** Uses expandable torch holder for use with most plasma systems; Using remote pendant supplied by the plasma manufacturer.





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## PART 3 Configuration

Cross-feed knob

Torch lifting knob

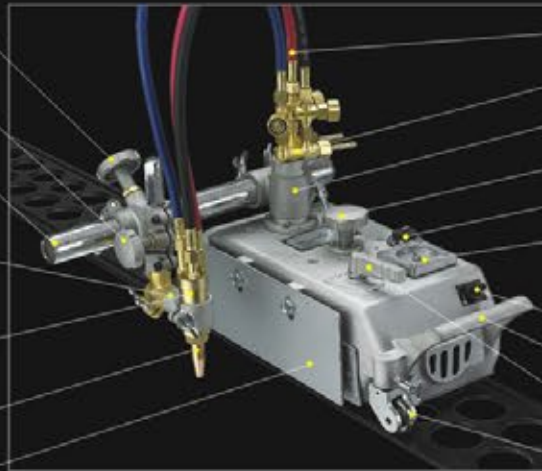
Cross slide rack bar

Torch holder assembly

Flame cutting torch

Oxy-fuel cutting tip

Heat shield plate



Hoses(distributor -torch)

Gas distributor

Racking bar holder

Speeding knob

Electric power plug

Speed dial movement

Forward/Reverse Switch

Carrying handle

Clutch lever

Guide wheel

## PART 4 Plate track and accessories

### Optional accessories

#### Straight rail:

Each track of 1.8m (72") long is extensible to the requirement.

#### Circle cutting attachment:

Recommended for cutting circles of large diameter:  $\phi$  50~2,400 mm

#### Circle cutting rail:

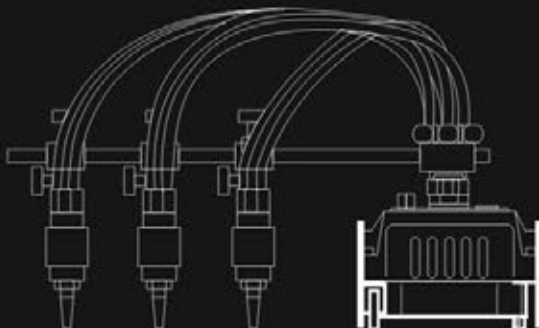
Recommended for cutting circles of comparatively large diameter.

Cutting Range:  $\phi$  40~360 mm and  $\phi$  1,150~2,400 mm

### Multiple - torch option

\*Pipe arm (Long type 1,000mm)

Parallel cutting of wide products can be made with multiple torches



Long type arm for multiple-torch application



Circle cut w / radius rod



Circle cut w / circle rail