



CBP-3000 CBP-3002 Circle Burner



For straight or beveled flame cut holes on domed heads, vessels and large diameter pipe, without wrap-up of power cable or gas hoses (CBP-3000 - 120/50-60/1). 220 Volt also available (CBP-3002).

Mounts on carriage or manipulator

Features:

Permanent magnet motor.

2-hose machine torch with one tip
[Specify Fuel Gas].

Brushes and collector rings for power supply

Rack and pinion adjustment of torch, vertical and horizontal.

50 ft. (15.24 m) control cable.

Capacities:

For square cut holes: 4"-48" (100-1220 mm).

For bevel cut holes: 1.5"-42" (40-1060 mm).

100% duty cycle.

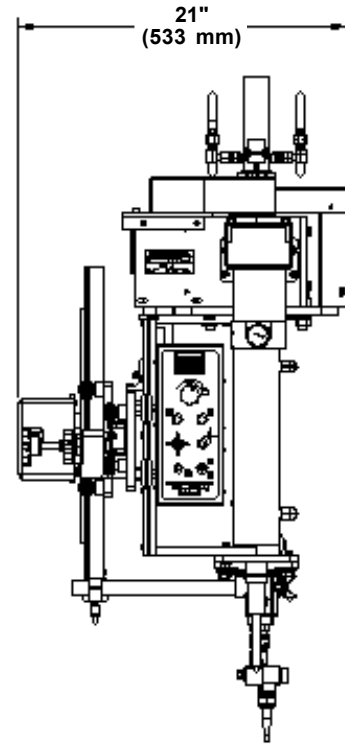
Rise and fall is controlled by motorized drive and encoder positioning.

Rotation speed 3-160 ipm (76-4064 mm/min).

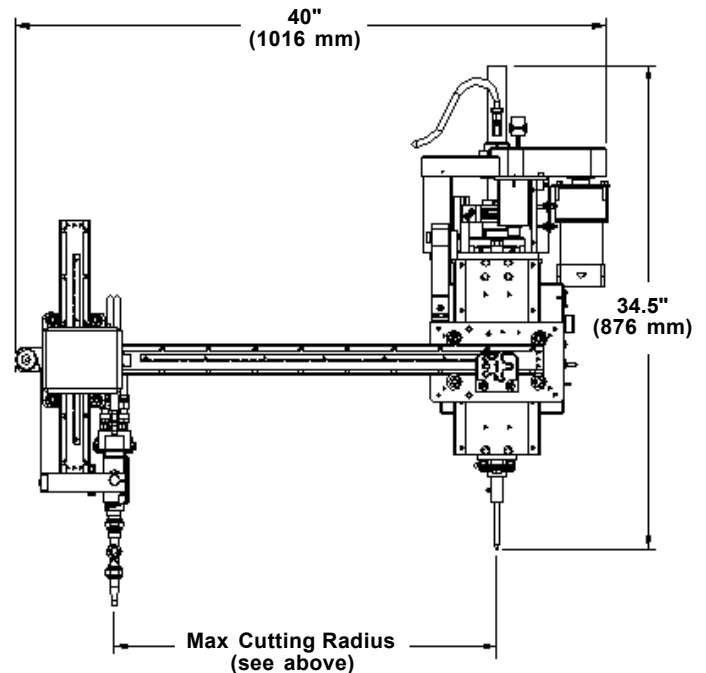
Technical Data:

Cutting Diameter: Square Cut Holes: 4"-48" (100-1220 mm)
Bevel Cut Holes: 1.5"-42" (40-1060 mm)
Input Voltage: 120 or 220 VAC
Rotation Speed: .1-2 rpm
Height: 34.5" (876 mm)
Net Weight: 125 lbs. (56.7 kg)

FRONT ELEVATION



SIDE ELEVATION



Programming:

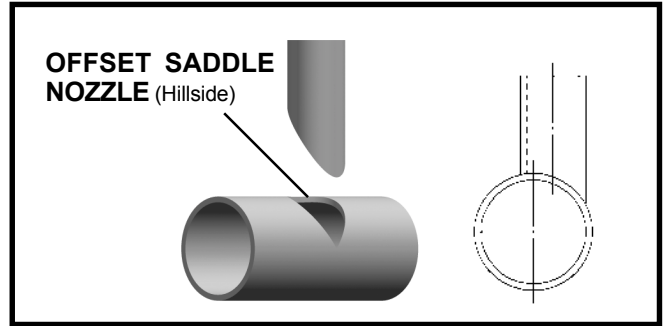
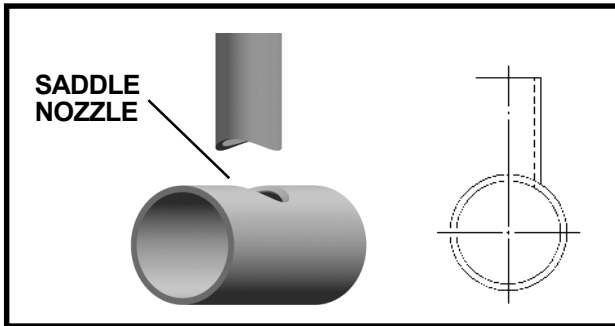
Dimensions and Program parameter data is entered on the built in terminal, with keypad and text display.

The alpha keys used are listed below with their functions:

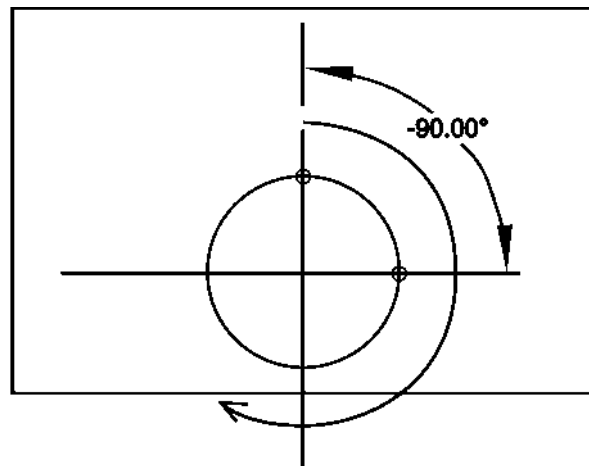
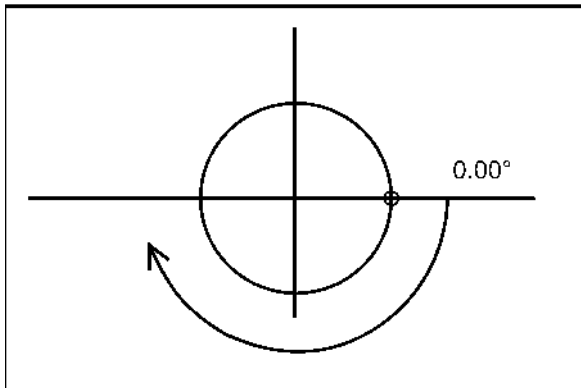
- A: To enter all dimensions
- B: To enter the time delay to pierce.
- C: To change the Program No. (switch to a different number) from 0 to 99
- D: To display all the programmed parameters for the current program
- E: To enter the number of passes the gun goes around the joint
- F: To enter the start angle, so the cut can be started at the preferred point around the joint

DATA REQUIRED FOR PROGRAM:

1. Small diameter (nozzle size)
2. Large diameter (main pipe)



3. Offset distance between centerlines of main pipe and nozzle, if any
4. Overlap Angle (additional rotation after 1 or more complete passes)
5. Start Angle : to specify the start point angle around the joint



Besides the above, background parameters that are retained for all programs, and are set individually are:

1. Time Delay, from when the cutting oxygen starts until the torch starts moving.
2. No. of passes : if a multiple pass weld is required. If 0 or nothing entered, the default is one rotation.

When entering Diameter values, the inside, outside diameter, or anything in between can be used. The machine will move along a path where those diameters intersect. Usually the ID of the nozzle and the OD of the main pipe is used; this allows for a bevel on the nozzle so the ID fits the OD of the main pipe.