

Introducing IWM portable waterjet cutting machine

Portable waterjet machine mainly consists of two major components, a pump to generate water pressure and track system that moves the cutting head.

We have two types of pump, Type I and II. And we have mainly four types of cutting tools (tracks), Namely: pipe cutting track, straight cutting track, circle cutting track, and a handheld cutting gun. Each of these tools (tracks) can work with the Type I and II pump.

Type I pump is suitable to work with none metal cutting or locations that does not require explosion proof. Type I machine cuts on metal with carbon (such as Mild steel, stainless steel) with visible sparks.

Type II pump is suitable to cut any materials. It cuts without sparks.

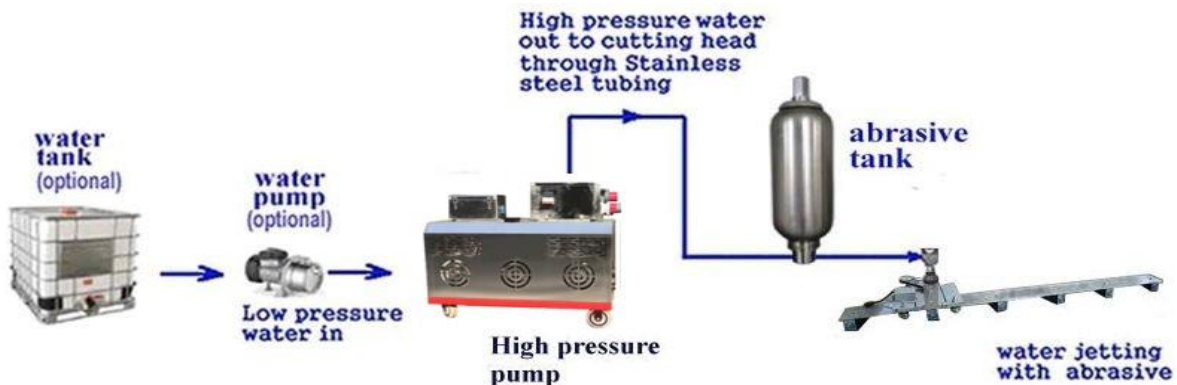
Type II consumes more water and abrasive then Type I, and Type II has less over all cutting efficiency compared to Type I.

Pump

Type I: with pressure of 40,000 psi, and consumes water at 1 gal per minute. This type of pump can yield sparks when cutting steel, but no heat generated. This machine consumes abrasive 0.35kg/min.



Type II: with pressure of 6,000 psi, and water flow of 3 gal per minute. This type pump does not yield sparks when cutting. It generates no heat. This machine consumes abrasive 3kg/min.



Type I uses 22kw motor, 3 phase, 220V/380V/415V/480VAC. Type II is 15kw motor. Voltage maybe specified at time of ordering.

Tracks:

For portable waterjet cutting, we offer four types of tool (track) system to move the cutting head.

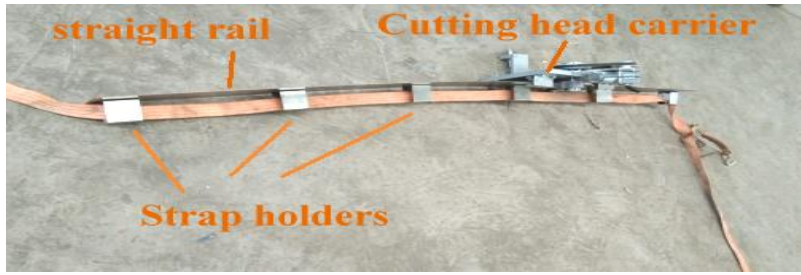
Type one: mode M1, pipe track: it uses a chain or belt to go around the pipe or cylindrical tank, and the cutting head moves along the chain to make cutting. The size of pipe that can be cut is diameter 1 ft to 10 ft.



Metal chain can close the loop and make full cutting around the tank or pipe without 2nd mounting. There is optional manual tilting head available to make bevel cuts.

Type two: model M2 , straight track:

Normally the straight track is attached to the tank with magnets. But if the tank is stainless steel, we can use straps. The track is flexible. It can be strapped to the tank horizontally. The length of the track is about 4-6 feet.



Straight track on the tank wall with magnets

When in need of vertical cutting, we will use double strap to fix the track on the wall.



Double Straps



with magnets

Type three: model M3, circular track:

This track can cut circles from 2"-39" of diameter.



Type four: model M4, handheld cutting gun

It is highly recommended that the handheld cutting gun should be mounted on a stand for better stability and safety.

