

ABRASIVE WATERJET PIPE & TANK CUTTING SYSTEMS

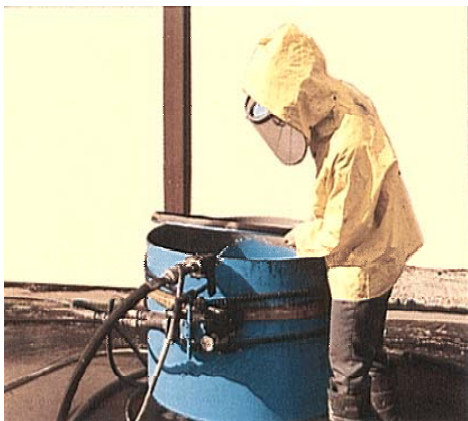
STEEL PIPES, TANKS, BEAMS, CONCRETE CAN BE CUT QUICKLY & PRECISELY



EQUIPMENT SETUP



EQUIPMENT CUTTING



FINAL INSPECTION

Using Aqua Energy's nozzle to mix high pressure water and an abrasive, it is possible to economically cut a wide variety of materials such as metal, glass, plastic, rubber, concrete or stone at pressures of 690 bar (10,000 psi) to 2,800 bar (40,600 psi). This means that a water-jetting pump will be capable of work which in the past required 4,000bar (60,000 psi).

The lightweight pipe cutter can be set up easily by one or two men in the field. Designed to operate from a horizontal or a vertical position, the whole system is held in place during cutting phase by a wrap around chains and a four-wheel drive system. Hoses bring high pressure water and abrasives to the focusing nozzle where they mix to form a high efficiency low cost abrasive waterjet.

Faster cutting speeds in addition to improved surface finishes are achievable with Aqua Energy's Pipe cutting system using inexpensive abrasives such as copper slag, sand. Improved cutting is obtained by using garnet etc.

The cutter can be adapted indoor or out to cut a variety of materials and thickness at varying angles depending on the volume and pressure of water available. The cutter will work in conjunction with an ordinary water jetting pump unit at pressures from 10 to 41,000 psi. Rotation of the cutter around the pipe is via hydraulic power with variable speed control valve.

Whenever there is a danger of fire or explosion when cutting a pipe or tank, or when high quality distortion free surface is required. Aqua Energy's abrasive waterjet pipe cutting system will perform the task.

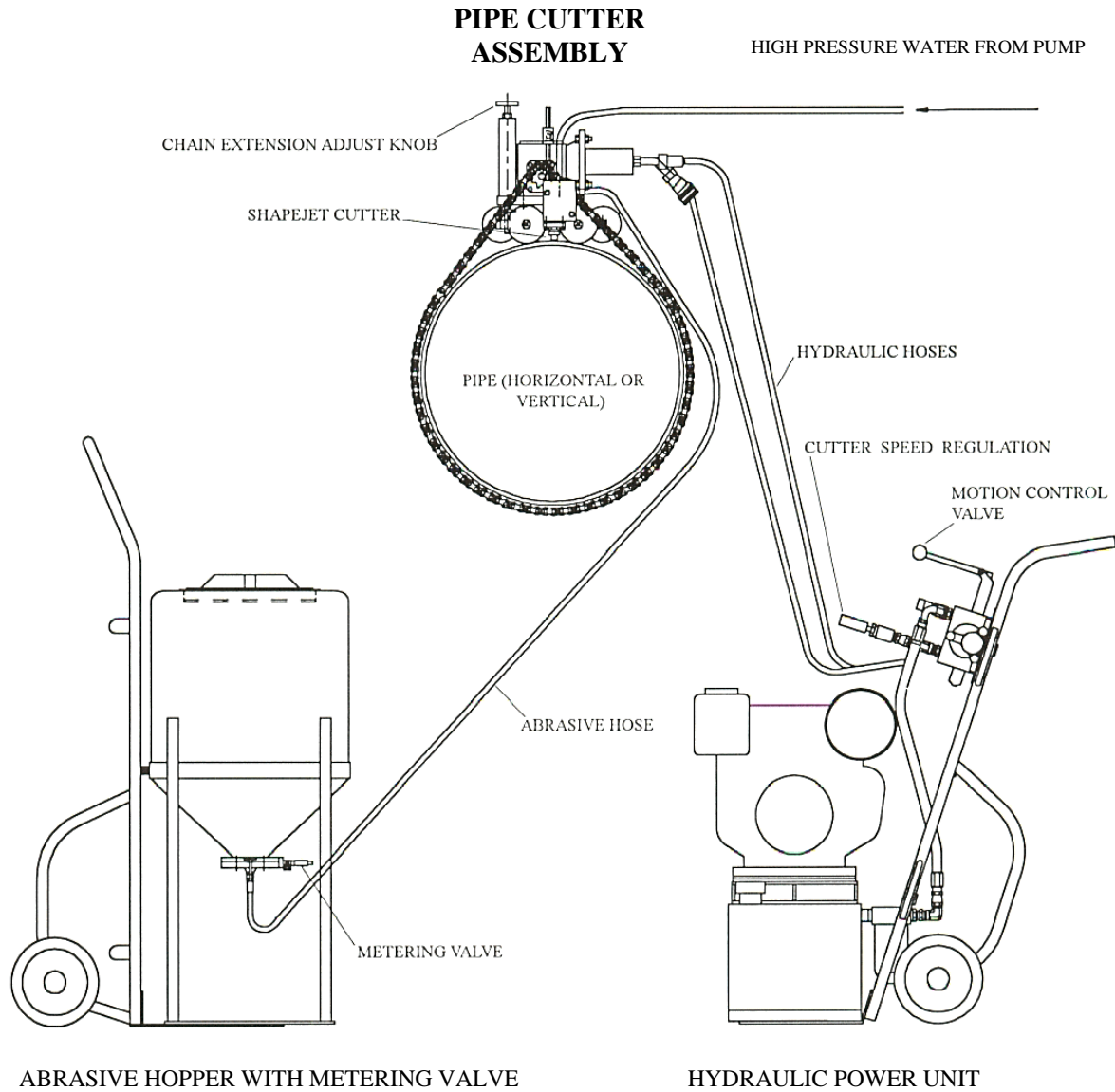
The cut shown in the photos was achieved using 20,000 psi waterjet pressure. The pump used was a 200 horsepower unit. A wide variety of power and pump configuration are available for different waterjet cutting tasks.

Final inspection (photo # 3) shows a smooth-edge cut around the circumference of the pipe. The 3/8" x 9" minute cut was performed using 1.5 Kg of abrasive.

With special design the system can cut underwater at depths to 180 metres (594 feet).

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TYPICAL PIPE-TANK CUTTER SETUP



PARTS LIST			
NO.	QTY	DESCRIPTION	PART NO.
1	1	PIPE CUTTER ASSEMBLY	D40278-69
2	1	ABRASIVE HOPPER WITH METERING VALVE	D40278-63
3	1	HYDRAULIC POWER UNIT	D40277-42

AQUA ENERGY