



## HYDRAULIC VERSACUTTER

Jet Edge's Hydraulic Versacutter is a portable abrasivejet cutting system. Rigid or flexible tracks allow the Hydraulic Versacutter to operate on flat surfaces. The system is used in a variety of cutting applications including pipelines, steel reinforced concrete, reactor vessels and fabricated metal structures. It is especially suited for cutting in hazardous zones where flames and heat are restricted.

The Versacutter carriage is a sealed unit that contains a hydraulic motor. The hydraulic motor is connected to a gear reducer and a drive sprocket. The sprocket engages the track to drive the carriage along the track. Guide wheels support the carriage by clamping it onto the track. A lever retracts the drive sprocket so the drive unit can be positioned freely on the track and extends the drive sprocket to engage the holes in the track. The carriage has several clamps and tubes to adjust the position of the cutting head.

Two 8' sections of track; one rigid, one flexible, are available. Additional track sections can be connected up to any desired length, limited only by the reach of the support equipment hoses. Track sections are bolted together for extended cuts. The rigid track is used on flat surfaces. The track is stiffened with two support rails. Mounting plates can be attached to the support rail allowing the track to be bolted to a surface. The flexible track is used on cylinders and undulating surfaces. On/off magnets on the flexible track, controlled by rotary knobs, attach to steel surfaces to help hold the track in position during setup. A winch and cable assembly tightens the track to secure it in position so track alignment does not shift while cutting is being performed.

A pneumatic delivery system meters the abrasive from the hopper to the cutting head. The hopper holds up to 400 pounds of abrasive for uninterrupted cutting. Quick setup and maneuverability are achieved by mounting the hopper on pneumatic tires, and the weight-saving design enables operation in difficult overhead and vertical applications.



### Carriage Dimensions

Height:	9-1/2 in (241 mm)
Width:	9-1/32 in (230 mm)
Length:	14-7/8 in (378 mm)

<b>Carriage Weight:</b>	23 lb (10.4 kg)
<b>Track Weight:</b>	32 lb (14.5 kg) per 96 in (2438 mm) track section
<b>Magnetic Standoff:</b>	70–80 lb (32–36 kg) holding power
<b>Movement Speed:</b>	0.8–16.5 ipm (20–440 mm/min)
<b>Hydraulic Supply Required:</b>	
Pressure:	1500 psi (103 bar)
Flow:	1–4 gpm (4.5–18.2 lpm)

### POWERED BY JET EDGE!



Model iP55-280DS

The Versacutter is powered by a Jet Edge waterjet intensifier pump.



Specifications subject to change.

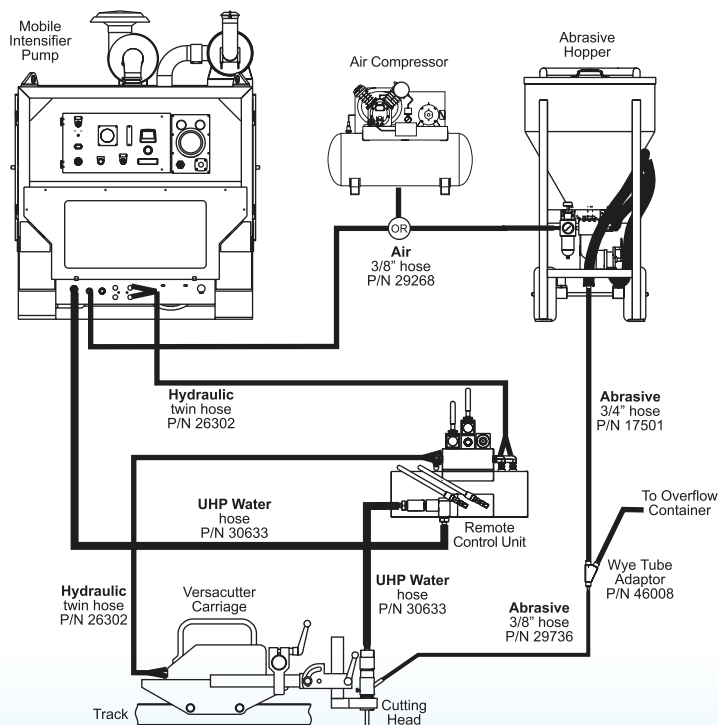
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### Operation

The Hydraulic Versacutter is operated via a remote control unit. The remote control unit is designed to hang on the rear brace of the abrasive hopper.

The remote control unit includes several valves to control the operation of the hydraulic cutting package:

- A three-position valve ports hydraulic fluid to the hydraulic motor to move the carriage forward, reverse, and stop movement.
- Two flow control valves adjust the forward and reverse speeds.
- A two-position valve turns the UHP water on and off.
- An emergency stop valve can turn off the hydraulic fluid flow and UHP water from the Hydraulic Versacutter.



### Abrasive Hopper

Height	43 in (109 cm)
Width	23 in (58 cm)
Depth	36 in (92 cm)
Weight	85 lbs (38 kg)
Capacity	400 lbs (180 kg)
Power	80-90 psi air (5.5-6.2 bar)
Delivery rate	0.25 to 3 lbs/min (.11 to 1.4 kg/min)

### Permalign II Abrasive Head

Operating air pressure (min)	60 psi (4 bar)
Water Supply	55,000 psi (3800 bar) maximum
Orifice range	0.003–0.020 in (0.076–0.508 mm)
Nozzle range	0.020–0.125 in (0.508–3.175 mm)

### High Flow Abrasive Head (suited for cutting 2-3' thick sections.)

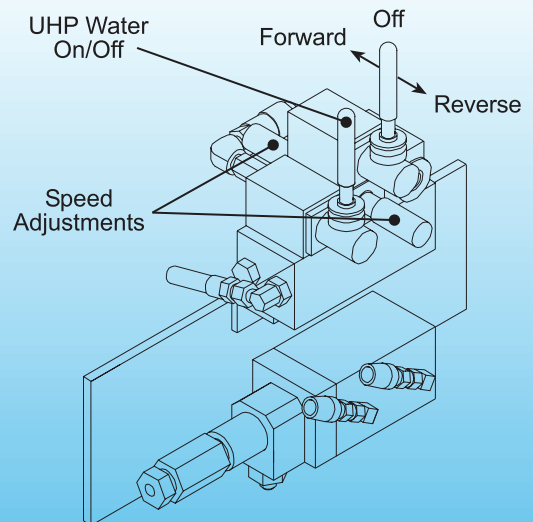
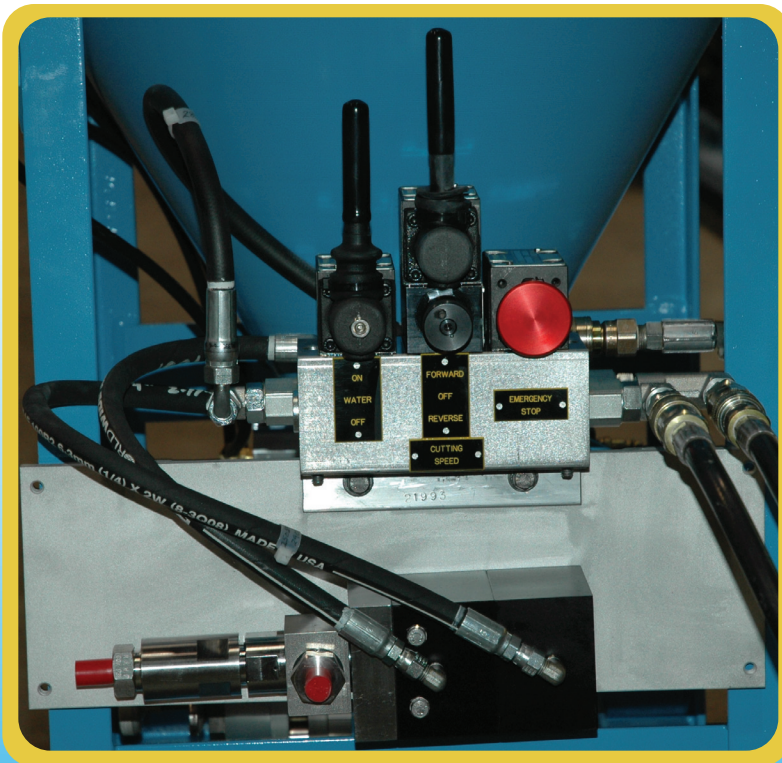
Operating air pressure (min)	60 psi (4 bar)
Water Supply	55,000 psi (3800 bar) maximum
Orifice range	0.023–0.042 in (0.059–1 mm)
Nozzle range	0.095–0.125 in (2.4–3.175 mm)



## HYDRAULIC VERSACUTTER

### Hydraulic Versacutter Controls

- Movement:** A three-position valve allows the operator to select the movement of the Hydraulic Versacutter. The valve stays in the set position. The middle position stops the Hydraulic Versacutter movement.
- UHP Water:** A two-position valve is used to turn the ultra high pressure water on and off.
- Speed Control:** Two flow control valves (one on the front, one on the back) are used to adjust the hydraulic flow that sets the forward and reverse speeds of the Hydraulic Versacutter.
- Abrasive Control:** A two-position valve is used to control the compressed air supply that operates the abrasive supply from the hopper. The abrasive control valve is mounted to the hopper. (Not Shown)
- Emergency Stop:** Pressing the Emergency Stop button stops the hydraulic fluid flow to the Hydraulic Versacutter and the UHP water to the cutting head. The emergency stop valve latches when it is pressed; the valve must be reset to the out position for the remote control unit to function.



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