



OMNIJET CUTTING HEAD

The OmniJet Cutting Head creates a coherent waterjet cutting stream and provides responsive on/off control for the UHP water. Its lightweight and compact size offers versatility in multi-directional cutting applications with all motion control systems. Cutting performance, size, component service life and ease of maintenance make this the superior cutting tool for all waterjet cutting applications.

The OmniJet is designed and tested for pressures up to 60,000 psi and orifice sizes ranging from .003 to .020 inches. The cutting head has a fail-safe valve design requiring air pressure to open. Water flow to the orifice is regulated by the needle and seat. For waterjet cutting, the orifices are premounted in a set-screw style retainer making them easy to change with an allen wrench. Consistent stream coherency is achieved by stabilizing the water prior to entering the orifice.

The OmniJet also can be configured to accomplish custom-cutting arrangements. Longer orifice mounts are available for cutting hard-to-reach areas. The Remote Valve option supports multiple cutting streams by separating the valve from the cutting head. The OmniJet also is designed for abrasivejet applications with the addition of the Permalign II Cutting Head.



Construction

The OmniJet has been rigorously tested under high-duty cycle conditions. A unique seal and needle arrangement provides long life for all components, including the orifice. The modular design makes replacing parts a quick and simple procedure.

Multiple Configurations

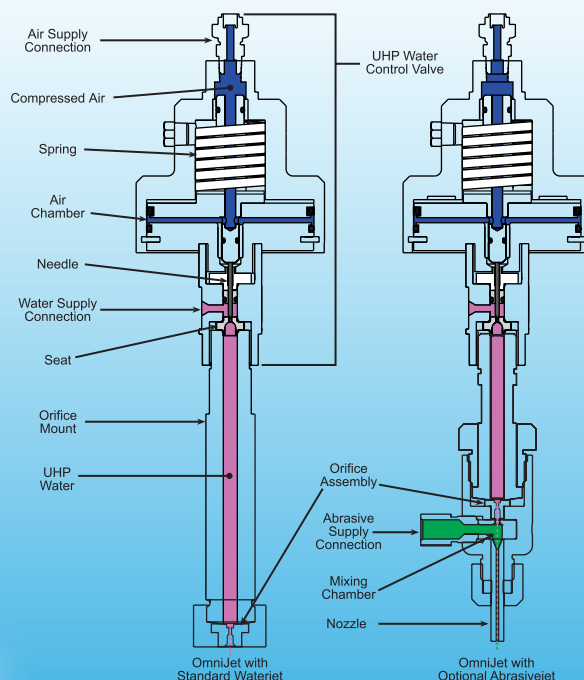
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Specifications

- Length 8.88-10.54 in (22.4-26.7 cm)
- Diameter at top 3.4 in (8.6 cm)
- Weight 3.25 lbs (1.5 kg)
- Operating air pressure minimum 80-90 psi (5.5-6.5 bar)
- Water pressure maximum 60,000 psi (4100 bar)
- Orifice range 0.003-0.045 in (0.0762-1.14 mm)

Options

- Extended Orifice Mount Lengths
- Remote Valve
- Permalign II-B Abrasive Cutting Head
- Various Mounting Arrangements
- Diamond Orifices
- tetraCORE™ Orifices



Specifications subject to change.



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