

Reduce Costs & Increase Productivity

BENEFITS

- Component life increased by as much as 30% over previous generations of cutting heads
- Fast cut speeds and high-quality edges
- Optimized use of abrasive for the lowest possible cost of operation
- Easy operation and maintenance
- Consistent, smooth cutting
- Easy monitoring of cutting conditions

STANDARD FEATURES

- Highly-efficient cutting head designed to increase cut speed and component life
- Abrasive metering system
- Standard 500 lb. abrasive bulk transfer unit
- Peak performance monitor



PASER ECL Plus Redefines Peak Performance

Since its introduction, Flow's PASER 3 cutting system embodied peak performance within the abrasive waterjet industry. Now, Flow's PASER ECL Plus has redefined the metrics of peak performance—the fastest possible cutting speed and the lowest possible operating cost.

PASER ECL Plus combines the simple, yet sophisticated design of PASER 3, with refined and redesigned cutting head components. All PASER ECL Plus components are designed and manufactured within exceptionally tight tolerances. This results in more precise alignment of components and produces the most coherent and concentric waterjet stream achievable. The outcome is 30% greater concentricity in the waterjet stream as it passes through the cutting head and nozzle. More cutting power is directed at the work piece and less is deflected onto the cutting head components so that cutting is faster, more efficient, and parts last longer.

Highly Efficient Cutting Head

The central feature of PASER ECL Plus is the cutting head. Each of the following components contributes to its remarkable performance:

PASER ECL Plus nozzle body: Designed with multiple contact points to provide greater stability to the cutting head, and secure precision engagement between nozzle body, orifice, and cutting head, thereby eliminating potential for stream deflection.

DuraFlow™ orifice: Boasts an average life of 1000 hours. Its patented design provides optimum transference of pressure to velocity for a more precise and more powerful cutting stream. The jewel is installed in the mount and the two are finish-machined together to ensure exact alignment. The DuraFlow orifice is backwards compatible with PASER 3 cutting heads.

PASER ECL Plus mixing chamber: Anti-turbulence design reduces wear and optimizes abrasive entrainment. This translates into the most efficient use of abrasive, as needed to achieve optimum cutting speed.

ECL Premium™ mixing tube with pre-set performance ring: An extended-life carbide matrix mixing tube, featuring a new patent-pending performance ring. The performance ring provides a positive stop and seal to ensure the tube position is optimized for concentric wear and maximum cutting power. Carbide pins are no longer needed with ECL Premium mixing tubes.

PASER ECL Plus precision collet: Built with a 3:1 gripping ratio, this collet precisely centers the mixing tube radially and axially within the cutting head. Consequently, the waterjet stream is not deflected against the sides of the mixing tube, and the life of the tube is extended.

PASER ECL Plus pierce shield with blast disk: Dissipates back splash from the abrasive stream, and eliminates wear on the outside of the cutting head components and machine environment. The tough blast disk absorbs the majority of the jet's energy so that the life of the pierce shield is maximized.

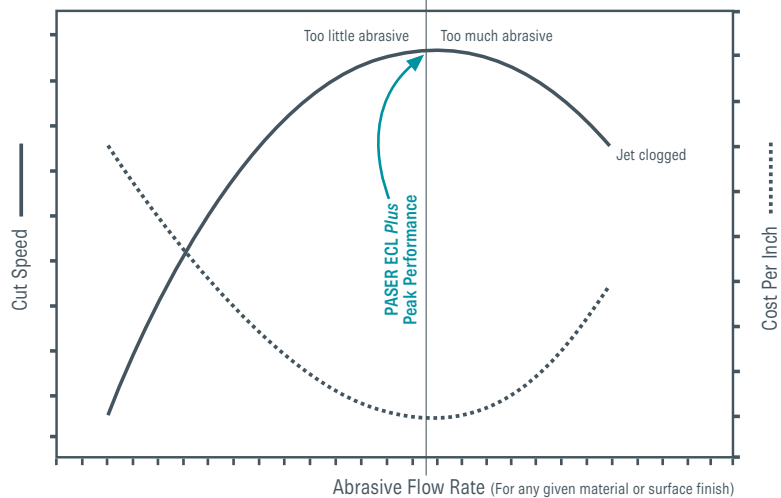


Optimized Use of Abrasive

Since abrasive is the single greatest component of operating cost, its optimal use is critical to the profitable operation of a waterjet. PASER ECL Plus features an abrasive metering system that delivers the precise amount of abrasive to the cutting head that is needed to achieve maximum cut speed. Inordinate or insufficient amounts of abrasive reduce cut speed. But with Flow's abrasive metering system, not an ounce of abrasive is wasted on inefficient cutting.

No operator adjustment of abrasive flow is necessary with PASER ECL Plus. The peak performance monitor continually analyzes cutting performance, so there is no guesswork and operators stay informed of cutting conditions at a glance. When abrasive requirements change, the abrasive metering disk is easily accessible with a quick turn by hand.

Peak Performance for an Abrasive Waterjet



Optional UltraPierce™ Vacuum Assist

Our patented UltraPierce Vacuum Assist technology is ideal for cutting brittle and laminated materials such as marble, stone, glass, and composites. The UltraPierce's exclusive no clog design pulls abrasive into the cutting head before the waterjet starts, so that the waterjet has abrasive particles entrained in the jet stream immediately. With UltraPierce, fragile materials pierce easily, saving time and raw material, and enhancing the quality of the finished product.

Optional 2200 lb. or Continuous Bulk Transfer Unit

Longer periods of uninterrupted cutting and increased productivity can be achieved with the addition of either a larger capacity or dual stage, continuous fill abrasive bulk transfer unit.

With the 2200 lb. unit it's possible to cut over 4 times longer than with a standard 500 lb. unit. With the dual stage, continuous fill unit, it's possible to cut for an unlimited amount of time before needing to stop your system and refill the abrasive transfer—cutting can continue without interruption. Both abrasive bulk transfer units are equipped with sensors to alert the operator when the abrasive level is low.

INNOVATION | EXPERTISE | COMMITMENT

Get It All with Flow

For over three decades, Flow has set the standard for excellence in waterjet technology. We are the only waterjet company in the world that offers total solutions and support from a single source, both before and after your waterjet system is installed. We learn your business requirements. We help you select and implement the right solution. We train your staff and we are there for you for the entire lifecycle of our products.

When you partner with Flow, you get more than a product:

Our **INNOVATION** ensures that you will always have the latest and highest quality technology.

Our **EXPERTISE** ensures that you will always have the right technology for your individual business needs.

Our **COMMITMENT** to customer service ensures that you will always receive the support you need to stay productive.

For your complimentary needs analysis or a product demonstration, please call one of our waterjet experts at **1-800-446-3569**.

We look forward to partnering with you in your success.

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