



Flow

## UltraPierce™ Vacuum Assist System

*The UltraPierce system makes it possible to pierce brittle or laminated materials—such as stone, tile, glass, and composites—faster and more economically than ever before, without pre-drilling, breakage or de-lamination.*

UltraPierce, with FLOW's patented vacuum-assist process, pulls abrasive into the waterjet cutting head just above the water stream, entraining abrasive particles within the waterjet stream. Since abrasive is mixed within the jet stream from the first moment you start cutting, the work piece is pierced much more quickly, and the impact of the jet on the topside of the material is greatly reduced, preventing material de-lamination or breakage.

*"With 75% of our company's waterjet operations devoted to glass cutting, UltraPierce was a life saver. Not only did we increase our throughput 25% by eliminating pre-drilling and maintenance, we also save on material costs by virtually eliminating part cracking. UltraPierce is a great investment."*

Mark Polak—Denver Marble



### Features & Benefits

- Fewer moving parts and a higher-density, more wear-resistant liner makes UltraPierce virtually maintenance-free, reducing material and inventory carrying costs.
- With four times greater vacuum force, UltraPierce requires half the air volume of earlier models. (15 SCFM vs. 30 SCFM).
- UltraPierce eliminates in-line garnet clogging in nearly all circumstances, reducing processing time and lowering production costs.
- Because it is smaller and lighter, UltraPierce is unobtrusive and can remain attached to your PASER® cutting head even when it is not in use, increasing uptime. Simply slip it over the abrasive inlet tube for quick and easy set-up, with no clamping required.
- The UltraPierce vacuum setting is easily adjusted to the required air pressure level through periodic use of a vacuum gauge (included within the UltraPierce retrofit or start-up kit.) No in-process monitoring is required.
- UltraPierce is optimized for use with FLOW's PASER ECL Plus™, THE BEST SELLING CUTTING HEAD IN THE WORLD!

### Getting Started

- For IFB and IFB with DWJ:
  - If you own FLOW's current vacuum assist (P/N 010329), simply order new kit number 014570-1 and follow the instructions for retrofit.
  - If you do not currently have a vacuum assist unit, order kit number 014658,-1 which includes all the electrical and hose connections you'll need to get started. (Call Tech Service in Washington state at 253-813-3318 or in Michigan at 248-669-4003 to discuss installation.)
- For DWJ WMC or standard WMC, with or without current vacuum assist, please contact Tech Service for specific part numbers.

**To order the correct kit for your needs, contact FLOW Customer Service at 1-800-526-4810.**



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