

# TRIDENT™-2. Revolutionary Cartridge Technology.

## Integrated Diamond Cutting Head

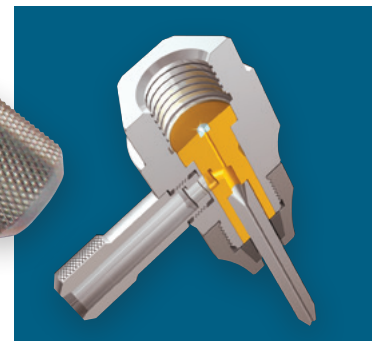
Exclusively from BARTON, an industry leader in high-performance waterjet cutting products, TRIDENT-2 is the most advanced integrated diamond cutting head available.

The advanced cartridge technology creates absolute alignment between the diamond orifice and the nozzle/mixing tube.

- Superior Accuracy
- Extended Nozzle Life
- Reduced Abrasive Consumption
- Lower Operating Costs & Greater Productivity

The logo features the word "TRIDENT" in a bold, black, sans-serif font. A large, stylized red number "2" is positioned behind the "I" and "D", partially overlapping them.

Made in the USA



# BARTON

# Revolutionary Cartridge Technology



## Factory-Aligned Cartridge

The TRIDENT-2 offers all the advantages of an integrated diamond design with the versatility of a replaceable orifice. A superior cutting head with revolutionary cartridge technology that ensures perfect orifice-to-nozzle alignment.

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### CARTRIDGE TECHNOLOGY FOR SUPERIOR ACCURACY

- The cartridge is factory machined in perfect alignment, resulting in zero stack-up errors between the diamond orifice and the cutting head assembly.
- Each cartridge is precision machined around a simulated jet stream to ensure perfect orifice-to-nozzle alignment.
- A diamond orifice ensures stream quality remains optimized over the life of the cartridge.

### EXTENDED ORIFICE AND NOZZLE LIFE

- A diamond orifice is far superior to ruby or sapphire orifices, offering both longer life and reliability as well as minimizing the chance of failure.
- Perfect orifice-to-nozzle alignment creates a straighter stream, equating to longer nozzle life.

### LOWER OPERATING COSTS & GREATER PROFITABILITY

- Superior accuracy, faster cutting with less consumed abrasive.
- The replaceable Diamond Orifice Cartridge can be swapped out for jobs requiring a different orifice size, extending the life and expanding the versatility of the cutting head.
- Diamond Orifice Cartridge is guaranteed for 500 hours when used with a Short Stop Filter assembly.

### GREATER PRODUCTIVITY, LESS DOWNTIME

- Efficient design means less maintenance and increased production.
- More efficient abrasive particle acceleration yields maximum cutting power.
- Absolute alignment of jewel and nozzle optimizes cutting power and speed.

### SHORT STOP FILTER

The Short Stop Filter effectively prevents in-line contaminants from damaging orifice assemblies by blocking debris from the most common sources within any high-pressure waterjet system. Installing our exclusive filter will boost productivity and reduce orifice-related maintenance.

Use of the Short Stop Filter is a requirement of the TRIDENT-2 warranty.

- Easily retrofitted.
- Robust construction — will not disintegrate like screen filters.

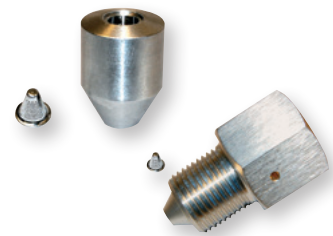
[STORE.BARTON.COM](http://STORE.BARTON.COM)



**TRIDENT-2 CUTTING HEAD**



**DIAMOND ORIFICE CARTRIDGE**



**SHORT STOP FILTERS**



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