Introducing the SHAPE Delta Series waterjet cutting mixing tubes — brought to you by the leading experts in waterjet. The Delta Series design draws on years of technical knowledge, detailed analysis of water and abrasive flow, and the latest data from real life applications. The result is a new, proprietary mixing tube design that creates efficient flow, reliably — the Delta Series.

Free-Flowing Design
Featuring an all new design, the Delta Series significantly improves abrasive and water flow beginning, of course, at the inlet. Understanding the flow of water and abrasive as it enters the mixing tube from the mixing chambers (even old and worn mixing chambers) is key to creating a design that encourages through-flow at every startup and every pierce. Our new design reduces clogging improving uptime and profit per hour.

Alignment - Reduced Wear
Improved flow into the mixing tube extends the mixing tube life. When the water and abrasive stream is aligned, energy is focused to pass through the center, reducing wear on the inside walls. This reduction in wear makes the Delta mixing tubes ideal for long-run jobs, while the alignment improvement creates a better, tighter stream.

Long, Cohesive Stream for Accuracy
An aligned jet stream results in a more cohesive, tighter, jet pattern, improving dimensional accuracy and consistency when producing finished parts in thin or thick materials. Reliably produce finished, more accurate parts directly on the waterjet, without the need for secondary processing.

Fast Cutting
When friction is reduced through the mixing tube, more energy is delivered to the part being cut and less abrasive is broken down before exiting the mixing tube. This enables more consistent results, faster cutting, and better edge quality in a wide range of materials.

Leveraging Materials
The new Delta Series design incorporates a wear-resistant carbide material with low boron content. Our materials are carefully controlled from raw material production and mineral ores to the development of the carbide powder, and finally, to the ultimate creation of the advanced material make-up itself with excellent wear properties to maximize your overall profit per cutting hour.
Our Waterjet Knowledge, Your Gain

The engineers behind the unique design of the Delta Series intimately understand what owners and operators need from their waterjet. Using data, years of waterjet knowledge, and research we crafted the next generation of mixing tube nozzles with operator performance in mind.

Delta & Delta NXT

Get right mixing tube to match your cutting and application requirements. Select from our Delta, and Delta NXT options.

Delta

Our Delta mixing tube offers reliable performance and optimized cutting for most jobs.

Delta NXT

Our Delta NXT mixing tubes offer higher performance and 20-30% longer life over the Delta line.

Pair the SHAPE Delta Series with diamond orifices for exceptional waterjet cutting performance. Diamond orifices optimize the water stream through the mixing chamber and into the mixing tube, even before it entering the mixing tube, improving cutting performance and speed.

Our SHAPE Delta Series mixing tubes are specifically designed for Shape Mined Material abrasives. Get consistent, reliable performance for your cut with performance streamlined by SHAPE.

*Performance will vary based on material and application.

Carbide Micrograph

Low boron carbide made with a proprietary process and strict quality control to minimize wear and ensure consistent performance.

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