

# H2O JET<sup>®</sup>

## Integral Diamond Eductor III



*Dead-on alignment  
Faster cutting speeds  
No maintenance  
Reduced operating costs*



**AHB**

Tooling & Machinery, Inc.

Complete Metalworking Solutions

Roseville Saginaw & Jackson, MI

ISO Certified

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Dual Port IDE™ III



Single Port IDE™ III



94k EP IDE™

### Take Your Cutting Head to the Next Level

The H2O JET Integral Diamond Eductor III consistently demonstrates superior performance and reduces operating cost when compared to competitive brand abrasive cutting heads.

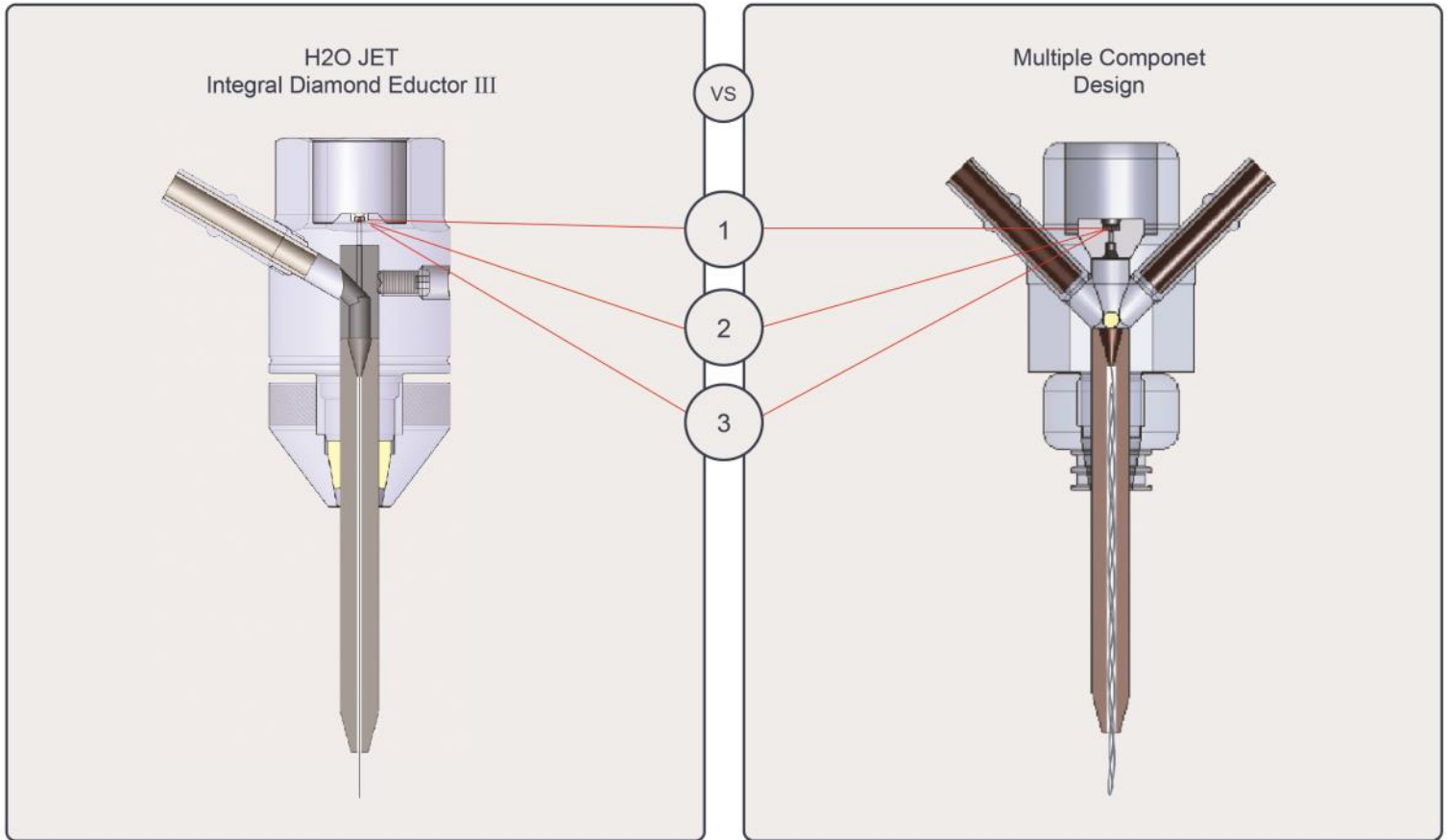


- ◆ Up to 50% faster cutting - No lost time due to constant orifice replacement
- ◆ From 10 to 20 times greater service life
- ◆ Superior edge quality
- ◆ Dead-On Alignment  
The diamond orifice is imbedded, thus integral to the mixing chamber. The jet stream is precisely directed through the abrasive nozzle eliminating misalignment, over-torquing and stack up errors.
- ◆ Revolutionary Mixing Chamber Design  
H2O JET has redefined the concept of the "mixing chamber" with our coalescing plenum. The advanced coalescing plenum provides a more effective and more efficient abrasive feed. The result is **no maintenance** on the cutting head, maximum cutting power and ultimate performance.
- ◆ Faster Cutting Speed  
Precise alignment of the diamond orifice with the mixing tube allows maximum power to be delivered to the cutting surface. This extends the nozzle life and increases the cutting speed. **H2O JET guarantees every Integral Diamond Eductor III for a minimum of \*500 hours.** (\*500 hours or 4 months from ship date when used with Short Stop Filter)
- ◆ Reduced Operating Cost  
The integral diamond orifice reduces operating costs with faster cutting, extended nozzle life and dramatically reduced downtime. The H2O JET Integral Diamond Eductor III has demonstrated 1000+ cutting hours in the field for many applications.

# FEATURES & SPECIFICATIONS

## MOUNT ALIGNMENT COMPARISON

### H2O JET vs. COMPETITIVE BRANDS



VS

1

2

3

VS

VS

VS

1 - The H2O JET natural diamond orifice is virtually indestructible and never needs replacing.

1 - Sapphire and ruby orifices demand repetitive replacement and create unwanted downtime leading to higher cost and lower productivity.

2 - The H2O JET diamond orifice is integrated into the cutting head so there is 0% chance of mis-alignment. This means maximum accuracy and cutting effectiveness.

2 - Sapphire or ruby orifice assemblies are separate from the cutting head causing mis-alignment and decreased accuracy and effectiveness

3 - The H2O JET Integral Diamond Eductor III has no orifice mount. This eliminated the need to change blown-out orifices, and results in faster cutting, longer mixing tube life and superior edge quality.

3 - Other waterjet head designs require a separate orifice mount that needs constant replacing & is vulnerable to abrasive media; that results in shorter life for the mixing tube and slower cutting.

OUR LEADERSHIP AND PIONEERING TECHNOLOGY WILL KEEP YOU COMPETITIVE

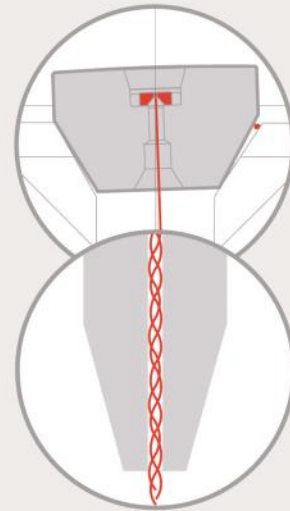


**100% ALIGNED FOR LIFE**



**H2O JET  
Diamond Orifice**

The H2O JET Diamond orifice is integral to the cutting head and factory aligned for life. The result is up to 50% faster cutting speed and from 10 to 20 times greater service life.



**Mis-aligned  
Design**

This illustration of a competitive, mis-aligned design mount shows that debris as small as a single garnet particle can cause 0.025" jet stream mis-alignment resulting in premature mixing tube wear and decreased cutting speed and performance

PART NUMBER	DESCRIPTION
301329-1-xx	IDE™ III Cutting Head, Single Port, .0xx" (.281 ID)
301329-2-xx	IDE™ III Cutting Head, Dual Port, .0xx" (.281 ID)
301329-1-xx-SSF	IDE™ III Cutting Head, Single Port, .0xx" (.281 ID) w/Short Stop Filter
301329-2-xx-SSF	IDE™ III Cutting Head, Dual Port, .0xx" (.281 ID) w/Short Stop Filter
391130-1-xx	IDE™ 94k Cutting Head, Dual Port, .0xx" (.281 ID)
391130-1-xx-SSF	IDE™ 94k Cutting Head, Dual Port, .0xx" (.281 ID) w/Short Stop Filter

**H2O JET is the World Leader in Diamond Orifice Technology**

The H2O Jet Integral Diamond Educator III offers superior performance over other competitive brand products. Our Educator saves you time, money and minimizes downtime. It is hands-down the best way to maximize effectiveness of your cutting machines. Every H2O JET Integral Diamond Educator III is backed by a 500 hour guarantee and the finest customer service and support in the industry. Let us take your cutting head to the next level.

**H2O JET - Working with YOU**

At H2O Jet we don't have customers...We have partners. We are continuously looking for ways to improve your water jet cutting operation with innovative products, superior customer service and the highest levels of quality. H2O JET equipment and components are designed and manufactured to ensure optimum efficiency and productivity for you. Visit our website or call us to request a catalog of our complete product lineup. We look forward to working with you.

**Nozzle Body Adapters Available for most Waterjet Brands.**




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