

Abrasive Waterjet Cutting

IDE™ PRO Cutting Head (Integrated Diamond Educator)



Breakthrough Simplicity & Performance at 90,000 PSI!

- New Diamond Mounting Design Improves Alignment & Cutting Performance
- Newly Designed Nozzle Increases Performance
- Less Seal Torque Required
- User Friendly Retro-fit for Current Users
- Engineered for the New, Faster Cutting Streamline PRO 90,000 PSI Pump



The Next Generation in Ultra High Pressure Diamond Abrasive Cutting!

The KMT 90,000 PSI/6.200 bar, Integral Diamond Educator PRO, which has achieved successful cutting performance at 100,000 PSI, consistently demonstrates superior performance and reduced operating cost when compared to competitive brand abrasive cutting heads.

- Up to 50% more productivity-no maintenance down time
- From 10 to 20 times greater mean time between failure
- Superior edge quality

KMT's expertise in diamond orifice manufacturing brings you a superior cutting head that has revolutionized the waterjet cutting industry.

■ Dead-On Alignment

The diamond orifice is imbedded, thus integral to the mixing chamber. The jet stream is precisely directed through the focusing tube eliminating misalignment, over-torquing, and stack up errors.

■ Revolutionary Mixing Chamber Design

KMT 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

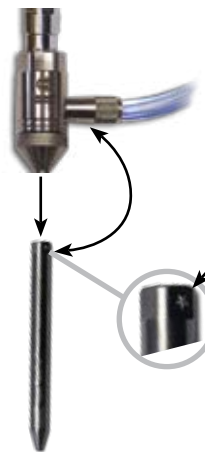
Precise alignment of the diamond orifice with the mixing tube allows maximum power to be delivered to the cutting surface. This extends the focusing tube life and increases the cutting speed.

■ Reduced Operating Cost

The integral diamond orifice reduces operating costs with faster cutting, extended focusing tube life and dramatically reduced downtime. The KMT Integral Diamond Educator has demonstrated 1000+ cutting hours in the field for many applications.

■ HyperTube™ PRO Focusing Tube

The superior design of the HyperTube™ PRO is engineered for longer, more uniform wear preventing "focusing tube blow-out". The HyperTube™ PRO includes an *Indexing* feature to insure uniform internal abrasive wear. *(HyperTube™ PRO Trademark US Patent Pending)*

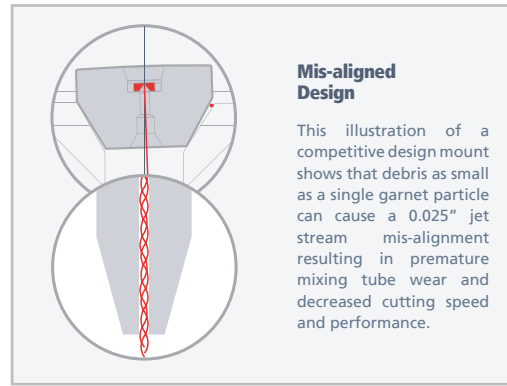
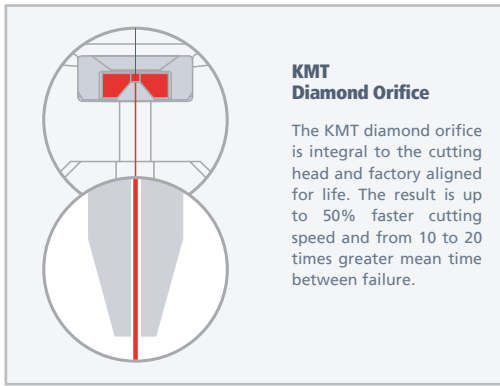


Indexing Feature:

Before using HyperTube™ PRO, line up "star" marking on same face as the abrasive feed connection.

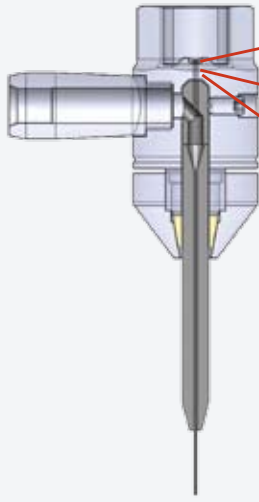
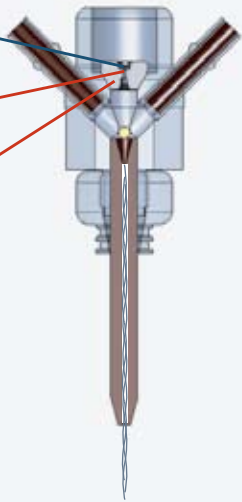
Rotate 90° clockwise on a regular, scheduled maintenance program 3X before replacing.





MOUNT ALIGNMENT COMPARISON

KMT vs. COMPETITIVE BRANDS

KMT Integral Diamond Eductor PRO	vs	Multiple Component Design
	1	
<p>1 - The KMT diamond orifice is virtually indestructible and never needs replacing.</p>	vs	<p>1 - Sapphire and ruby orifices demand repetitive replacement and create inopportune downtime leading to higher cost and lower productivity.</p>
<p>2 - The KMT diamond orifice is integrated into the cutting head so there is 0% chance of mis-alignment. This means maximum accuracy and cutting effectiveness.</p>	vs	<p>2 - Sapphire or ruby orifice assemblies are separate from the cutting head causing misalignment and decreased accuracy and effectiveness.</p>
<p>3 - The KMT Integral Diamond Eductor PRO has no orifice mount. This eliminates the need to change blown-out orifices, and results in faster cutting, longer mixing tube life and superior edge quality.</p>	vs	<p>3 - Other waterjet head designs require a separate orifice mount that needs constant replacing; is vulnerable to abrasive media; and results in shorter life for the mixing tube and slower cutting.</p>

Streamline™ PRO 90,000 PSI Pump



KMT Waterjet Systems Inc. introduces the *Next Generation* of waterjet pumps, an ultra high pressure (UHP) 90,000 PSI/6.200 bar pump. The KMT Streamline™ PRO UHP pump is the solution for manufacturers requiring performance and exceptional value.

**Increase Speed,
Increase Productivity!**

**PSC (Precision System Components)
100,000 PSI Replacement Parts**



KMT supplies a full line of ultra high pressure elbows, tees and fittings rated to 100,000 PSI/6.900 bar and ideal for use with the KMT Streamline™ PRO pump and other high pressure applications.



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