

From the Service Manager's Desk

The E-Series, a new member of the intensifier family, will be a premium contender for applications that do not require pressures in excess of 52K. The ease of maintenance is almost identical to that of the more "loaded" unit, the PLUS-Series. Poppet style inlet and outlet check valves provide service intervals which will please even the

hardcore waterjet critic. The brawn which drives the beast is the same type of axial piston hydraulic system which has proven to outperform most others in terms of time between failure. This system is used throughout the entire KMT Waterjet line of intensifiers to provide maximum uptime.

Tips from the Tech – Autoline™ Nozzle

The KMT Waterjet Autoline™ cutting nozzle has been proven to be ahead of the pack when it comes to cutting efficiency. Longevity of the nozzle, when properly maintained is outstanding. What is there to maintain on the nozzle?

- The tube to orifice seal should be maintained to make sure no abrasive is between the two. If abrasive is between the tube and orifice, the nozzle cap will heat up to warn that there is a leak.
- The abrasive inlet hose should be positioned completely against the inner Autoline™ body. This prevents erosion of the inner body.
- Verify that the abrasive wear insert is wearing evenly around the water entry hole. If this is not the case, the insert and other parts of the inner body will erode. A star shaped pattern around the hole in the

insert is an indicator of past water leakage around the orifice.

NOTE: Anytime the Autoline™ nozzle is removed and reinstalled, there is the risk of water leakage. To test for this, run the nozzle for two minutes without abrasive flowing. With the nozzle shut off, feel the cap for heat. If heat is present, so is leakage around the orifice under the cap. Remove the orifice and check to be sure it is clean. Then simply tighten the nozzle a little bit tighter than before and repeat the two minute test. This same test can be used for water-only applications. After shutting off the system, check the retaining nut for heat. If you make this test standard operating procedure, you will see an improvement in the life of the diamonds.

Marty Jones

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E-Series Pump Offers Efficiency

The E-Series pump complements the full-featured PLUS-Series including essential options without compromising on performance. Designed with the most popular and essential pump features for efficient production of 52,000 psi, the E-Series is sold at a very economical price.

Benefits delivered by the E-Series are:

- **Greater Productivity** – Production is enhanced by hydraulic power, which is used to slow the plunger stroke rates. The slow stroke rates and smooth surface of the tungsten carbide plungers extend seal life, achieving longer run times.
- **Faster, Easier Maintenance** – The intelligent design of the easily accessible components, seals and parts allow for quicker and easier maintenance.
- **Fast Cutting** – Continuously producing pressure of 52,000 psi, this system is designed to cut faster than lower pressure systems. This allows for higher productivity.
- **Economical Price** – Some of the PLUS-Series features are available as options, and the frame was designed to be less expensive to provide a lower price. The overall design remains efficient, open, and functional.

Excellent Value

The result of these features is a pump with excellent performance and excellent value.

Designed Precision in Waterjet Cutting

Call today to learn more about the efficient, new E-Series pumps.



COMING
SOON!

See the new E-50 Pump at WESTEC, Booth #3964.



E50 Design Features
New E-Series, 50 HP Pump

The E50 is designed with the same convenience and ease of access for maintenance and service as the SL-V PLUS Series. The hydraulic cylinder head simply bolts to the hydraulic cylinder. Each high pressure assembly can be removed and serviced independently, and the hydraulic seal cartridge can be quickly replaced as a single unit. The E50 design incorporates proven performance features to deliver superior reliability.

- Hard seal end caps create a metal-to-metal seal against the sealing heads, eliminating the potential for leaks.
- Patented HyperLife™ seals dramatically increase seal life and optimize performance by conforming to the cylinder bore as it expands under pressure.
- Fault detection and troubleshooting logic monitor crucial temperature and fluid levels, while warning and shutdown sensors safeguard against potential equipment damage.

System options, such as side panels and a top cover, are available at the time of purchase or as upgrades to existing equipment. An optional booster pump and filter assembly ensure water quality and supply to the high pressure system. This provides additional temperature and pressure fault detection.

The E50 combines the features you require and the operational efficiency you demand, with a price that fits your capital investment budget.

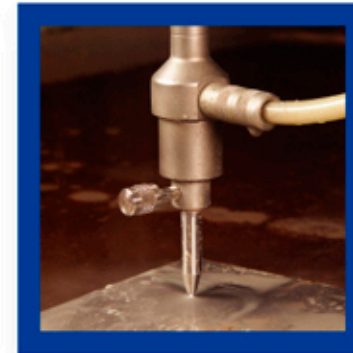
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KMT Waterjet Systems

- Innovative Leader in High Pressure Production
- Easiest Systems to Own and Operate
- Worldwide Sales and Support Network
- Continuous Advancement for Customers



Protect your investment!
Use Only Certified Genuine Parts!



Did you know...

KMT Waterjet Systems uses natural diamonds for the orifices. Natural diamonds last longer and are able to withstand the debris in the line better than synthetics.

While competitive diamonds use a press fit to mount the jewel in the assembly, KMT Waterjet uses a sintered mounting process. These press fit mounted diamonds used by competitors have a greater chance of the bore not being perpendicular with the assembly. This affects the Tool Center Point especially when there is a significant stand-off from the material being cut in water-only applications. In abrasive applications, a non-perpendicular stream results in prematurely worn nozzle components. This happens from the stream bouncing off the ID walls, and a degraded cutting stream due to the lost energy.



KMT Waterjet diamonds are manufactured to insure that the bore of the jewel is in the exact center of the assembly. This is critical to efficient abrasive cutting. The outer dimensions are machined to ensure perfect alignment by using the bore location as a reference. This process ensures central location of the bore and guarantees perpendicularity.

Call for details!

Operating or Performance Questions?

E-mail your questions to: sales@kmtwaterjet.com

