

KMT WATERJET – Product Line System Components for Waterjet Cutting Machinery

**Genuine KMT Products –
A Guarantee
for Your Progress**



A waterjet cutting machine consists of many individual components, each of them required to deliver high performance and reliability and top operator and maintenance friendliness. Our engineers feel a strong commitment to these demands and feel excited to present our latest high tech range of products.

STREAMLINE™ – Ultra High Pressure Pump Series

The latest STREAMLINE™ generation provides reliable waterjet cutting technology. Its PRO versions allow the enduser to operate the cutting system at 6.200 bar / 90.000 psi, which helps increase the cutting speeds and output. The new HSEC topworks design is compact and service friendly.



Available Versions:

- STREAMLINE PRO-I 60 / 125
- STREAMLINE™ SL-V 15
- STREAMLINE™ SL-V 30-100
- STREAMLINE™ SL-V 150 / 200
- STREAMLINE™ SL-V Classic 30 / 50

Pure Water Cutting Head AQUALINE I and AQUALINE PRO

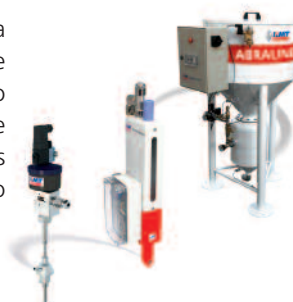
The AQUALINE I pure water cutting head is a proven tool in the automotive industry and all heavy duty non-abrasive applications. This industry operates at maximum on/off cycle counts which consequently means that all wear parts must be very resistant and robust in order



to guarantee the quickest and most reliable performance. Depending on the individual application, the attached high pressure actuating valve can be either normally closed N/C or normally open N/O. Both sapphire and diamond orifices are used in the field. The PRO version is designed for 6.200 bar applications.

AMS III – Abrasive Management System

The Abrasive Management System AMS III is a complete ready-to-go package for abrasive cutting applications. It enables our customers to operate reliably by constantly monitoring the availability of sufficient abrasive volume. This is especially important if the valuable material to be cut is brittle and breakable.



The complete system consists of the components listed below:

- ACTIVE AUTOLINE™ II or Active IDE™ II
Cutting Head Assembly
- FEEDLINE IV Abrasive Metering system
- ABRALINE III Bulk Transfer System





Abrasive Cutting Heads

The ACTIVE AUTOLINE II™ is a complete cutting head, which can easily upgrade any cutting system in the field. It enables the customer to benefit from the top level performance of the AUTOLINE™ II abrasive cutting head. The complete assembly includes the HP nozzle valve, the solenoid control valve, the nozzle tube according to your required length, the abrasive hose as well as the AUTOLINE™ I cutting head with diamond orifice and focusing tube.



As the ACTIVE IDE™ II cutting head contains a minimum number of individual components, it is particularly easy to handle while producing high-precision cuts. The key advantages of the ACTIVE IDE™ II are the exact targeted cutting jet, the pre-filter protecting the orifice and the advanced nozzle valve design. The unit is also virtually maintenance-free. To achieve a perfect cutting jet, all you need to do is exchange the focussing tube. The PRO version of both cutting heads is designed for 6.200 bar applications.

FEEDLINE IV – Abrasive Metering System

The FEEDLINE IV abrasive metering system is your perfect tool to control the sand flow rate released to the cutting head in a reliably and precise manner. It covers a range of 0 – 1.000 g/min, which can be adjusted linearly by simply turning a potentiometer, or by changing the value in the control software of the machine's



control system. This machine could be any 2-D cutting table, a multi-axis cutting system or a 3-D robotic unit. A sensor can be installed in the lower area of the tank in order to give a warning signal to the operator or to stop the cutting process if necessary.

ABRALINE III – Bulk Transfer System

The ABRALINE III bulk transfer system feeds the abrasive to the metering system of each cutting head. It also constantly monitors the availability of sand and provides the operator with warning signals and messages on a display in case the system runs out of abrasive. This helps the operator save material and operating cost in



particular while cutting breakable and brittle materials such as glass, natural stone etc.



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