



PRESS INFORMATION

Bad Nauheim, 7 September 2009

KMT GmbH, Waterjet Systems is the leading worldwide supplier of Waterjet Cutting technology. The Waterjet Cutting Systems Division in Bad Nauheim is active and renowned in basically all industries and application areas of this innovative technology. Many years' experience and significant research work, as well as an innovative company structure are reflected in the high quality and reputation of brand names such as STREAMLINE™, ACTIVE AUTOLINE™, AQUALINE™, ABRALINE™ and FEEDLINE™ etc. The complete product range of high quality system components make KMT Waterjet Systems an ideal partner for everybody interested in cold cutting methods.

New ultra high pressure pump for waterjet cutting with 6,200 bar

The high-performance STREAMLINE PRO-I 125 ultra high pressure pump from KMT Waterjet is now available. The unit generates a cutting pressure of 6,200 bar. With a motor power of 125 HP (93kW), the pump produces a maximum volumetric flow of 5.4 litres per minute. This makes it for example possible to simultaneously operate two cutting heads with 0.25 mm nozzles at a pressure of 6,200 bar. Alternatively, the unit can be run with a single cutting head and a nozzle diameter of 0.38 mm to cut extremely thick materials.

The cutting pressure of 6,200 bar is produced with the help of two pressure intensifiers operated with a phase shift that pump the cutting water through a 1.6 l pressure accumulator to the cutting heads. The standard machine comes with proportional pressure control system for the stepless adjustment of the cutting pressure. It is also equipped with a pressure transducer monitoring the cutting pressure in the high pressure line. This control circuit ensures equal utilisation of the two pressure intensifiers and optimises the pressure signal which significantly affects the cutting edge quality at the workpiece.

The "REMOTELINE" online remote diagnostic tool is available as an option. This web-based application enables users to analyse the operating state of the pump from a remote location. Plant standstills can thus be minimised, as trained operators can use the software for troubleshooting. Should a customer nevertheless required the support of KMT Waterjet, he can contact the company through the software and work together with our service technician to eliminate the fault using online tools. This approach saves time and costs as there is no need to travel to the site.



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Maximum level of flexibility for all waterjet applications

The Ultra High-Pressure Pump STREAMLINE™ PRO is yet another top-range addition to KMT Waterjet's unique range of high-pressure pumps. KMT Waterjet's STREAMLINE™ series comprises a range of waterjet systems that is guaranteed to meet all needs – no matter whether you are looking for high flow rates, extremely high pressure or just a basic model simply featuring no more than essential water cutting equipment.

Customer-oriented design

The PRO series was especially designed to enable it to be serviced and maintained easily and with no fuss. The simple, modular structure of all of the PRO systems' components makes them extremely easy to replace when worn. This type of structure furthermore ensures that each of the components is guaranteed to perform to the end of its natural life cycle.

The new PRO – High-Pressure series

At KMT Waterjet, PRO is synonymous with turnkey waterjet cutting systems using pressures of up to 6,200 bar and that are supplied with all of the components required for waterjet cutting – from the high-pressure generator to the nozzle from which the cutting jet is aimed at the material requiring cutting. The 6,200 bar of pressure represent a nearly 50 % increase of the pressure conventionally used!

The advantages presented by this leap in technological progress include:

- Higher cutting speeds
- Improved cutting quality
- Less abrasive wear

This new development also means that waterjet cutting will now also become of interest to those using alternative cutting technologies such as, e.g. plasma or laser cutters, when considering buying new equipment.

In order to enable users to gain the maximum possible benefit from this huge increase in operating pressure, KMT also carefully re-examined all of the components inside the high-pressure unit up to the cutting head, which led to the development of the following brand-new products:

- The STREAMLINE PRO Ultra High-Pressure Pump
- The ACTIVE AUTOLINE PRO and ACTIVE IDE II Abrasive Cutting Head
- The pure water Cutting Head AQUALINE PRO
- The AMS PRO Abrasion Management System
- The PSC PRO Valves, Pipes and Fittings

In view of the increased pressures they are exposed to, these products were redesigned such that their lifetime behaviour guarantees that they are extremely economical to operate over their entire lives. KMT Waterjet's original PRO series is the perfect high-pressure equipment for high demands with respect to both reliability and cutting quality over time.

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