

Abrasive Management System

AMS I

Advanced Solution for Automated Cutting Process

The development in the Abrasive cutting area has been increasingly focused on the Optimization and Automation of the cutting process. As the pioneer of Waterjet cutting, KMT WATERJET SYSTEMS has an obligation to our customers to provide solutions in this segment which are complementary to our leading high pressure technology.



Best Performance from Abrasive Filtering to Cutting

Our latest development is the ABRASIVE MANAGEMENT SYSTEM AMS I. Starting with filtration of the Abrasive, up to a highly precise, highly economical cutting result on the material, the AMS I guarantees a continuously monitored cutting process.

Cost Saving by Optimization of Abrasive Consumption

The abrasive consumption is one of the largest cost factors when running a waterjet machine. KMT understands that this is an important issue, and the optimization of the cutting parameters was a key feature of our development work. As a result, the AMS I was created.



The package includes:

- ACTIVE AUTOLINE™ I Abrasive Cutting Head
- ABRALINE III Abrasive Transfer System
- FEEDLINE III Abrasive Feeder

The system is available in multiple variations:

- AMS I S SC 3.3: For Single Head Machines
- AMS I D SC 3.3: For Dual Head Machines
- AMS I T SC 3.3: For Triple Head Machines
- AMS I Q SC 3.3: For Four Head Machines

AUTOLINE™ I

The AUTOLINE™ I Abrasive cutting head has proven its reliability and efficiency in the field. Its strong economical performance, in addition to easy maintenance, and reliability have yet to be matched. The simple design enables tool free nozzle replacement in a matter of seconds – time consuming centering procedures are a thing of the past. As the lifetimes of the three main wear parts differ from each other, they are designed to be replaced separately. The ACTIVE AUTOLINE™ I is a complete unit including the nozzle valve and nozzle tube.



FEEDLINE III

Cutting of thin materials requires vastly less abrasive than work performed on thick materials. Waterjet machine users with a fixed abrasive flow rate are oftentimes forced to use economically unreasonable abrasive feed rates, which substantially decreases their competitiveness. The FEEDLINE III enables infinitely variable adjustment of the abrasive feed rate through an external potentiometer or the main controller of the cutting table.

ABRALINE III

Whether when cutting brittle materials, by automatic cutting processes or by cutting of expensive materials, high reliability of sand delivery is required. Should this be interrupted, the piece may be broken, since a pure waterjet hits the material. As a result new material must be purchased and the whole cutting job started over. The ABRALINE III Abrasive-Feeding system eliminates this issue, as a integrated controller continuously monitors the status of the quantity of sand in the tank. Should the level be too low, a warning signal allows for timely refilling to insure constant operation.



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