

# ROMEO ENGINEERING, Inc.



## Abrasive Cutting Nozzle

## AUTOLINE™

## High Speed, Self-aligning, Cutting Nozzle



Independent tests have shown the AUTOLINE™ Abrasive Cutting Nozzle cuts faster and at a lower cost than any other nozzle.

### Convenient, Modular Design

Unlike other nozzles, the AUTOLINE™ is a modular nozzle. The mixing chamber and focusing tube were designed as two separate parts which can be replaced independently as needed, reducing costs.

### Simpler, Self-aligning Components

The self-aligning components of the AUTOLINE™ require no tools to assemble or disassemble when changing the orifice. It literally takes seconds to perform the quick, quarter-turn of the nozzle to remove the nozzle and orifice (abrasive line can stay attached). Once reassembled, the nozzle is right back to the Tool Center Point – without machine realignment. It can also be completely removed without tools to allow cutting with water only.

### Proven to be Best

Tests performed by the University of Missouri-Rolla, showed the AUTOLINE™ Cutting Nozzle achieved best overall cutting performance. Fast cutting and low abrasive consumption helped it to win the top position.

The net result is an outstanding nozzle that delivers a sharper, more coherent, cutting stream for faster cutting while using less abrasive.

*The AUTOLINE™ were designed to work with the complete line of KMT Waterjet cutting head components and the new STREAMLINE™ SL-V line of pumps. This new line of pumps is available in more sizes and with state-of-the-art features.*

CERTIFIED GENUINE PART



**KMT** Waterjet Systems

**ROMEO ENGINEERING, Inc. — "Solution Provider" for your Cutting Needs**

4217 Hahn Blvd. • Fort Worth, Texas 76117 • Tel: 800-259-0048 • Fax: 817-581-9332 • sales@romeoeng.com • www.romeoeng.com

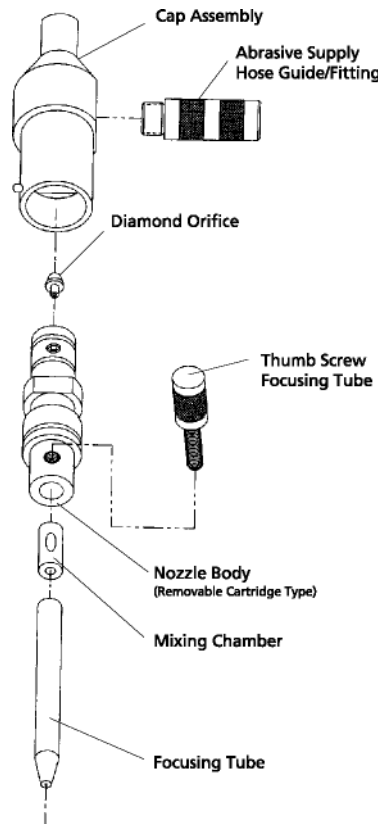
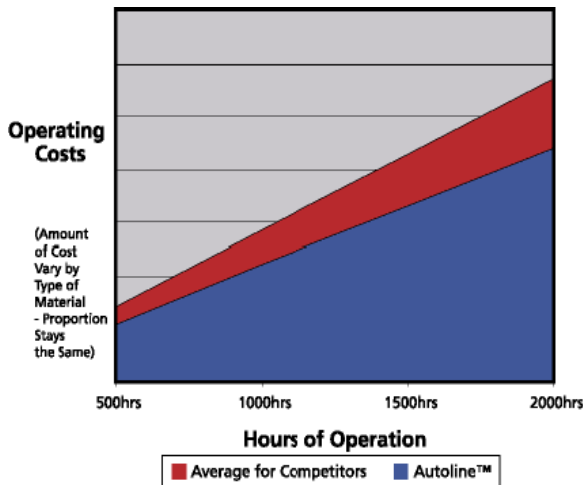


## AUTOLINE™ Abrasive Cutting Nozzle

### Operating Cost Analysis of Abrasive Cutting Nozzles

Comparison made using identical operating conditions

Test results provided by Missouri-Rolla



Note:  
Diamond orifice and focusing tube sold separately

### Summary of Features

- **Self-aligning design** retains the Tool Center Point to provide more machine time
- **Tighter alignment** with the orifice extends the life of consumable parts
- **Tool-free, hand-tightening design** of the nozzle is faster to install and protects the orifice
- **Tighter waterjet stream** increases cutting speed while using less abrasive
- **Lightweight, compact design** integrates with any high-pressure system

### Standard Nozzle Configurations

Orifice	Focusing Tube (ID)
.007" (.17mm)	.021" (.54mm)
.010" (.25mm)	.030" (.76mm)
.012" (.30mm)	.043" (1.10mm)
.014" (.35mm)	.043" (1.10mm)
.018" (.45mm)	.052" (1.30mm)



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