



**KMT**  
**WATERJET**

WORLD'S FASTEST WATERJET



## KMT WATERJET SYSTEMS. OVER 50 YEARS OF GLOBAL WATERJET TECHNOLOGY!

In 1971, KMT became the "Birthplace of Waterjet" and history was made when the very first commercial use waterjet cutting system was installed in a cardboard box manufacturing facility.

Known as the "Fluid Jet Cutting System", it eliminated the use of commercial saws, and was designed for the contour cutting of furniture packing forms.

Over 45 Years later, KMT Waterjet is known as the Global Leader in Waterjet Technology with the release of the World's Fastest Waterjet, the PRO-III Series 90,000psi intensifier pumps and PRO Series precision cutting heads.

Thousands of companies around the world have harnessed waterjet cutting to manufacture products for use in a variety of industries including Aerospace, Automotive, Agriculture, Baking, Construction, Energy, Oil & Gas, Manufacturing, Marble/Stone, Signage and much more.

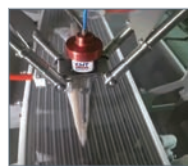


## WATERJET BENEFITS:

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>• Burr Free Finish</li> <li>• Tight Nesting of Parts</li> <li>• Smaller Cutting Kerf</li> <li>• No HAZ (Heat Affected Zone)</li> <li>• Eliminates Most Finishing</li> <li>• Environmentally Friendly</li> <li>• Cuts Multilayer Materials</li> </ul> | <ul style="list-style-type: none"> <li>• Cuts Materials &amp; Thicknesses:<br/>Thin foil to 12" Titanium</li> <li>• High Speeds for Most Materials</li> <li>• Easily Adapted to Automation</li> <li>• Contouring Systems</li> <li>• Easy Programming w/Standard CAD/CAM Systems</li> </ul> | <ul style="list-style-type: none"> <li>• Multiple-axis Cutting Capability</li> <li>• Allows Rapid Prototyping</li> <li>• Minimal Fixturing Required</li> <li>• No Material Stress or Crushing</li> <li>• No Tool Sharpening</li> <li>• No Dust, Fumes or Gases</li> </ul> |
|---|--|---|

## OEM SYSTEM OPTIONS:

- Standard and Customized Tables
- Multiple Cutting Heads
- X-Y, X-Y-Z, 4, 5 & 6 Axis Cutting
- Robotic Integration
- Combination Systems: Saw, Plasma & Drill
- Conveyors for Food Production
- Vision Systems - Fish & Chicken Portioning
- Cake & Pastry Unique Shape Cutting Machines



**KMT Original Equipment Manufacturers (OEM's) design, engineer & manufacture the right waterjet cutting system for your application.**

KMT Waterjet Integrators are experienced in waterjet cutting to ensure that you and your employees are well trained, and have all the tools and support you need for a successful and profitable waterjet cutting business.

# STREAMLINE® PRO-III SERIES 90,000PSI PUMPS



125hp/60hp Dual Head Cutting, Redundant Intensifiers

When you factor in the greater productivity of cutting faster, a 50-100% increase in capacity, reduced abrasive costs up to 50% and increase gross margins, the PRO III 90,000psi waterjet system is an attractive alternative to the standard 60,000psi waterjet technology.

## WORLD'S FASTEST WATERJET

- Increase Productivity and Profitability
- Lowest Cost Per Part
- Thinner Kerf, less waste of raw materials
- Reduced Abrasive Costs
- Increased Capacity

### MAX. ORIFICE SIZE:

PRO-III 60HP: .011  
PRO-III 125HP: .016



NEW! Cut Calculator APP 2.0  
Compare 90,000psi to 60,000psi cutting.  
Increase Productivity @ 90,000psi!



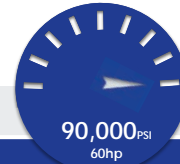
## THE PRO-III ADVANTAGE: 60,000PSI vs. 90,000PSI Comparison

The diagrams below shows the KMT PRO-III 90,000psi (60hp & 125hp) pumps compared to standard 60,000psi (50hp) waterjet pumps. The data demonstrates when cutting 1 inch aluminum at 90,000psi, there is a significant improvement in productivity, lower cost per part and substantial abrasive savings.

### Increase Productivity/Profitability



1,000 Parts/Day  
x \$1/Part  
\$1,000



1,500 Parts/Day  
x \$1/Part  
\$1,500

### Lowest Cost Per Part



14:03  
7"  
\$8.30

Cutting Time  
In/Min  
Cost Per Part



9:42  
11"  
\$5.89

### Reduce Abrasive Cost



14/43  
1.43  
10 hours/day = 50 hours  
\$1,285  
\$66,820/Year

Nozzle  
Abrasive lbs/min  
Hours/Week  
Weekly \$\$  
JOB TOTAL COST  
(Same Quantity of Parts)



11/30  
1.08  
6.9 hours/day = 35 hours  
\$615  
\$31,980/Year

**Total Job  
Cost Savings  
\$34,840  
Year!**

### Increase Capacity



\*60,000psi Parts  
Shown for  
Comparison



# STREAMLINE™ SL-VI 60,000PSI PUMPS



## THE RIGHT SOLUTION FOR EVERY APPLICATION

The KMT SL-VI Series utilizes the latest technology and a configurable design for ease of use, reliability and convenience. The result is a system that delivers the highest efficiency & profit. Available in 30hp, 40hp, 50hp & 100hp, and an Optional Redundant Intensifier, the KMT SL-VI has the Horsepower, Pressure and Options to Fulfill Most Every Application.

### INCREASED ORIFICE SIZES = INCREASED PRODUCTIVITY

SL-VI Single Head Cutting	
Orifice Size @ 30hp	.011
Orifice Size @ 40hp	.013
Orifice Size @ 50hp	.014



**SL-VI 15hp**  
(Available only as shown)



#### SL-VI s-Series BASIC MODEL

- No Doors
- No Cover
- No Electric Panel

#### SL-VI e-Series ECONOMICAL MODEL

- No Cover

#### SL-VI i-Series INDUSTRIAL MODEL

- Fully Loaded

#### More SL-VI Information



# NEO™ 60,000PSI PUMPS



Removeable Magnetic Doors  
For Faster Maintenance

## WORLD CLASS ENGINEERING

Available in 50hp & 30hp

Time tested & proven performance of the NEO 50 components are the foundation for it's Lowest Cost of Ownership. New HMI cutting edge technology permits real time monitoring & puts the command and control with the operator.

### STANDARD FEATURES

- ✓ Proportional Control Provides Ultimate Pressure Control
- ✓ Booster Pump For Positive Water Pressure to Topworks
- ✓ Soft Start Motor Eliminates Voltage Spikes

### Remote HMI



#### More NEO Information



# CUTTING NOZZLES - 60,000PSI & 90,000PSI



## AUTOLINE® PRO 90,000PSI NOZZLE

### HIGH SPEED, SELF-ALIGNING ABRASIVE CUTTING NOZZLE

Independent tests prove the KMT AUTOLINE® Series of Abrasive Nozzles cut faster and at a lower cost than any other nozzle. The Next Generation of the AUTOLINE® Series, the AUTOLINE® PRO, is designed to provide the ultimate in cutting efficiency at 90,000 PSI/6,200 bar.

#### Simple, Self-aligning Components

The self-aligning components of the KMT AUTOLINE PRO® provide true, perfect alignment to extend the life of focusing tubes and mixing chambers.

AUTOLINE® 60,000PSI PRESSURE AVAILABLE



## IDE® PRO DIAMOND 90,000PSI NOZZLE

(IDE - Integrated Diamond Eductor)

### DIAMOND MOUNTING DESIGN IMPROVES ALIGNMENT AND CUTTING PERFORMANCE

The KMT Diamond Orifice Integrated Diamond Eductor PRO is integral to the cutting head & factory aligned for life. The IDE® PRO cutting nozzle is a 1 piece body, with a permanent mounted orifice, reducing operating downtime compared to changing a diamond orifice.

The IDE® PRO has achieved successful test cutting performance at 100,000psi & has demonstrated 1,000+ cutting hours in the field for many applications. The IDE® PRO performance rating is 10-20 times better over sapphires or rubies.

IDE® 60,000PSI PRESSURE AVAILABLE

## AQUALINE® PRO PURE WATER VALVES

### PROVEN PERFORMANCE AT EXTREME PRESSURES

Pure water cutting applications are among the most demanding of subcontracting jobs in the industry.

Demands put on waterjet components and some industry production units usually run 3 x 8-hour shifts throughout the complete week highlighting a need for extremely high reliability and speed.

AQUALINE® 60,000PSI PRESSURE AVAILABLE



Normally Open & Normally Closed Options





# ACCESSORIES - Abrasive Systems

## FEEDLINE V (ABRASIVE METERING SYSTEM)

**OPTIMIZED ABRASIVE FLOW FOR CUSTOMIZED APPLICATIONS**

Stable and Repeatable Parameters are a fundamental requirement for high quality waterjet cutting. Without this controlled supply, the mixing chamber for abrasive, air and water would become clogged up and lead to higher costs.

The FEEDLINE V accurately controls the abrasive flow required for each application, further lowering costs of operation.



## FEEDLINE PRECISION (ABRASIVE METERING SYSTEM)

**COMPACT, LIGHTWEIGHT, AND RELIABLE!**

An Accurate & Consistent Abrasive Feed Rate is critical and a well regulated feed rate of abrasive cuts down on waste and results in a tighter cutting stream with a cleaner, smoother cutting edge.

The KMT EZ Feedline™ is EZ to mount, operate and maintain---no tools required to replace wear components! The gravity fed abrasive automatically feeds to the fill line.



## ADS SERIES HOPPERS (ABRASIVE DELIVERY SYSTEM)

**CONTINUOUS LEVEL MONITORING --FOR EFFICIENT PRODUCTION!**

**Abrasive Monitoring Saves Time & Costs**  
KMT ADS SERIES HOPPERS precisely monitor the availability of sufficient abrasive closely during the entire cutting process.

The abrasive level indicator uses a weighing mechanism combined with a low-level alarm (or warning light on 2,000lb unit) to detect the low limit (100 lbs.) and notify the user.

Available in 500 LB. & 2,000 LB. Capacity.

## KMT Genuine Parts & Service

WATERJET  
SHAPE TECHNOLOGIES GROUP®

Your business is worth it.



KMT offers a Preventive Maintenance (PM) Program which provides a 65 Point Comprehensive Inspection for your KMT pumps, parts and components

### PARTS & SERVICE CONTACTS



800-826-9274

24 Hours a Day/7 Days a Week

Normal business hours are 7:00AM CDT to 5:00PM CDT

kmtgenuineparts@kmtwaterjet.com

kmtgenuineservice@kmtwaterjet.com

Order Parts Online:  
[kmtgenuineparts.com](http://kmtgenuineparts.com)



More Information on KMT Genuine Service PM Program



- Trained & Certified Technicians
- Worldwide Sales & Support Network
- ISO 9001:2015 Compliant
  - CSA & CE Marked
- USDA Equipment Certification



**KMT**  
WATERJET  
SHAPE TECHNOLOGIES GROUP®

KMT Waterjet Systems Inc.  
635 West 12th Street  
Baxter Springs, KS 66713 USA  
620-856-2151 • 800-826-9274  
sales@kmtwaterjet.com  
kmtwaterjet.com



**NEW! Cut Calculator APP 2.0**  
Compare 90,000psi to 60,000psi cutting.  
*Increase Productivity @ 90,000psi!*



## KMT WATERJET CUTS...

- Alloys
- Marble
- Granola Bars
- Steel
- Plexiglass
- Titanium
- Aluminum
- Composites
- Tile
- Cardboard
- Granite
- Broccoli
- Copper
- Plastic
- Acrylic
- Food
- Inconel
- Stone
- St. Steel
- Phenolics
- Ceramic
- Rubber
- Graphite
- Paper
- Glass
- Bronze
- Produce
- Textiles
- Laminates
- Foam
- Porcelain
- Carpet
- Cake
- Carbon Fiber
- & more...