

KMT WATERJET SYSTEMS INC.



STREAMLINE PRO2® 125 HP

STREAMLINE PRO2® 60 HP

WE BRING HORSES TO WATER



kmtwaterjet.com



KMT STREAMLINE PRO²® 125 HP



Perfect for high volume production from single head to multiple cutting head requirements and for intricate detailed cutting with tight tolerance requirements.

Cut thick metals including steel, stainless steel, titanium, and aluminum.

The KMT STREAMLINE PRO²® 125 is the World's Fastest Waterjet Cutting Solution.

SYSTEM INFORMATION:

| | |
|---|------------------------|
| Nominal Power Rate: | 125 HP (93kW) |
| Maximum Pressure Range: | 90,000 psi (6.200 bar) |
| Max. Water Flow Rate @ 90,000psi (6.200 bar): | 1.43 gpm (5.4 lpm) |
| Maximum Single Orifice Diameter: | 0.016" (0.406 mm) |
| Number of Language Options on Display: | 5 |
| Control Voltage & Power Supply: | 24 V DC; 5 Amps DC |

| | |
|--------------------------------|--|
| Max. Noise Level: | 84 dB (A) |
| Ambient Operating Temperature: | Min.: 40° F (5° C) Max.: 104° F (40° C) |
| Length: | 88.00" (2,230 mm) |
| Width: | 59.09" (1,500 mm) |
| Height: | 61.12" (1,552 mm) |
| Weight: | 6,850 lbs (3,107 kg) |

High Pressure Water System

| | |
|--|--------------------|
| Inlet Flow Rate: | 9.2 gpm (34.8 lpm) |
| Minimum Inlet Cutting Water Pressure: | 35 psi (2.4 bar) |
| Plunger Diameter: | 0.875" (22.2 mm) |
| Max. Nominal Strokes per Minute (at 90,000 psi, 6.200 bar): | 45 Per Intensifier |
| Accumulator Volume: | 0.42 Gal. (1.6 L) |

MAXIMUM PERFORMANCE, MAXIMUM POWER, FASTEST CUTTING!

KMT Waterjet Systems introduces the Next Generation of waterjet pumps, a 90,000 psi/6.200 bar, 125 HP pump.

The KMT STREAMLINE PRO2® 125 pump is the BEST solution for manufacturers requiring maximum performance and exceptional value.

Increased Production

With waterjet pressure up to 90,000 psi/6.200 bar, the advanced KMT STREAMLINE PRO2® 125 pump delivers the manufacturer twice the power, by cutting products in half the time over conventional 60,000 psi - 100 HP waterjet systems.

Faster, Easier Maintenance

Intelligent design simplifies and speeds the access to seals and wear parts.

Fastest Cutting in the Waterjet Industry

Continuous production of 90,000 psi/6.200 bar with dual phase intensifiers to virtually eliminate pressure drop and enables twice the cutting power over lower pressure systems. Perfect for cutting thick steel, titanium, aluminum, brass and much more.

Essential Features

- 90,000 psi at 125 HP with dual phase intensifiers.
- Dual Intensifiers for Maximum UHP, Maximum HP and Maximum Productivity.
- Downwards compatible to 30,000 psi operational pressure when less waterjet force is needed to complete the project.
- Sophisticated software includes remote access and ability to network multiple pumps.
- Double front doors for easy access and maintenance with padded insulation for sound reduction.
- Multiple language controls.
- Ceramic plungers for maximum reliability.

Industry Standard 60,000 psi/100 HP Single Head Cutting



Cut twice the material in the same time frame!



STREAMLINE PRO® 90,000 psi/125 HP Dual Head Cutting

Hydraulic System

Max. Hydraulic Pressure, Operating at Maximum Water Pressure: **2,400 psi (165 bar)**
 Hydraulic Reservoir Capacity: **110 gal (416 L)**
 Single Hydraulic Pump Flow Rate at 60Hz (@1,750 rpm): **64 gpm (242 lpm)**

Cooling System

Cooling Water Consumption at 75° F (24° C) Water Temp. (Max): **6.5 gpm (24.6 lpm)**
 Minimum Cooling Water Pressure: **35 psi (2.4 bar)**

Options & Other Features

Booster Pump (adjustable & protected): **Included**

Soft Start:

Dual Pressure Control: **Included**
 Dual Intensifier Topworks: **Standard**
 Proportional Control: **Standard**
 Remote Online Diagnostics (via Modem): **Optional**
 Digital Pressure Display: **Standard**

Included
Standard
Standard
Optional
Standard

KMT STREAMLINE PRO²® 60 HP



SYSTEM INFORMATION:

Nominal Power Rate: 60 HP (45kW)
Maximum Pressure Range: 90,000 psi (6,200 bar)
Max. Water Flow Rate @ 90,000psi (6,200 bar): .73 gpm (2.8 lpm)
Maximum Single Orifice Diameter: 0.011" (0.279 mm)
Number of Language Options on Display: 5
Control Voltage & Power Supply: 24 V DC; 10 Amps DC

Max. Noise Level: 72.5 dB (A)
Ambient Operating Temperature: Min.: 40° F (5° C)
Max.: 104° F (40° C)
Length: 78.00" (1,981 mm)
Width: 36.00" (914 mm)
Height: 57.19" (1,453 mm)
Weight: 3,450 lbs (1,565 kg)

High Pressure Water System

Inlet Flow Rate: 4.0 gpm (15.0 lpm)
Minimum Inlet Cutting Water Pressure: 35 psi (2.4 bar)
Plunger Diameter: 0.875" (22.2 mm)
Max. Nominal Strokes per Minute (at 90,000 psi, 6,200 bar): 45
Accumulator Volume: 0.42 Gal. (1.6 L)

INCREASE PRESSURE, INCREASE SPEED, INCREASE PRODUCTIVITY!

KMT Waterjet Systems introduces the Next Generation of water jet pumps, a 90,000 psi/6.200 bar, 60 HP pump. The KMT STREAMLINE PRO²® 60 pump is the BEST solution for manufacturers requiring higher performance and outstanding value.

Increased Production

With waterjet pressure up to 90,000 psi/6.200 bar, the advanced KMT STREAMLINE PRO²® 60 pump delivers the manufacturer a substantial improvement over cutting at 60,000 psi - 100 HP for a greater return on investment. When compared with 60,000 psi cutting speeds, the new STREAMLINE PRO²® 60 pump will significantly increase cutting productivity by 30% - 40%.

Faster, Easier Maintenance

Intelligent design simplifies and speeds access to seals and wear parts.

Faster Cutting

Continuous production of 90,000 psi/6.200 bar enables faster cutting over lower pressure systems. Perfect for cutting thick steel, titanium, aluminum, brass and much more.

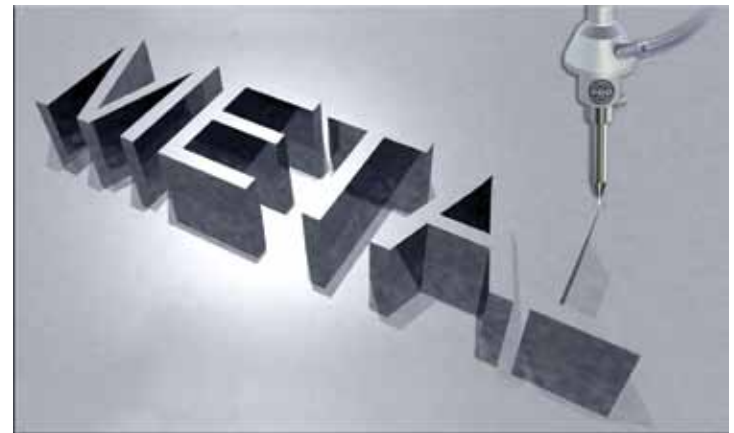
Essential Features

- 90,000 psi at 60 HP
- Threaded, stud design utilizes hydraulic tension for ease of maintenance.
- Downwards compatible to 30,000 psi operational pressure when less waterjet force is needed to complete the project.
- Sophisticated software includes remote access & ability to network multiple pumps.
- Multiple language controls
- Maximum Pressure

Industry Standard 60,000 psi/100 HP Single Head Cutting



Increase Productivity!



STREAMLINE PRO²® 90,000 psi/60 HP Dual Head Cutting

Hydraulic System

Max. Hydraulic Pressure, Operating at Maximum Water Pressure: **2,350 psi (162 bar)**
Hydraulic Reservoir Capacity: **48 gal (182 L)**
Hydraulic Pump Flow Rate at 60Hz (@1,750 rpm): **64.0 gpm (242 lpm)**

Cooling System

Cooling Water Consumption at 75° F (24° C) Water Temp. (Max): **3.5 gpm (13.2 lpm)**
Minimum Cooling Water Pressure: **35 psi (2.4 bar)**
Options & Other Features
Booster Pump (adjustable & protected): **Included**

Wye-Delta Starter or Soft Start: **Optional**
Dual Pressure Compensator: **Included**
Redundant Intensifier Topworks: **Optional**
Proportional Control: **Standard**
Remote Online Diagnostics (via Modem): **Optional**
Digital Pressure Display: **Standard**

Optional
Included
Optional
Standard
Optional
Standard

KMT STREAMLINE PRO²®

THE KMT INTENSIFIER

THE SOURCE OF PRESSURE. No other system incorporates the features of the KMT STREAMLINE PRO²® to deliver the simplest, easiest-to-operate, most reliable system.

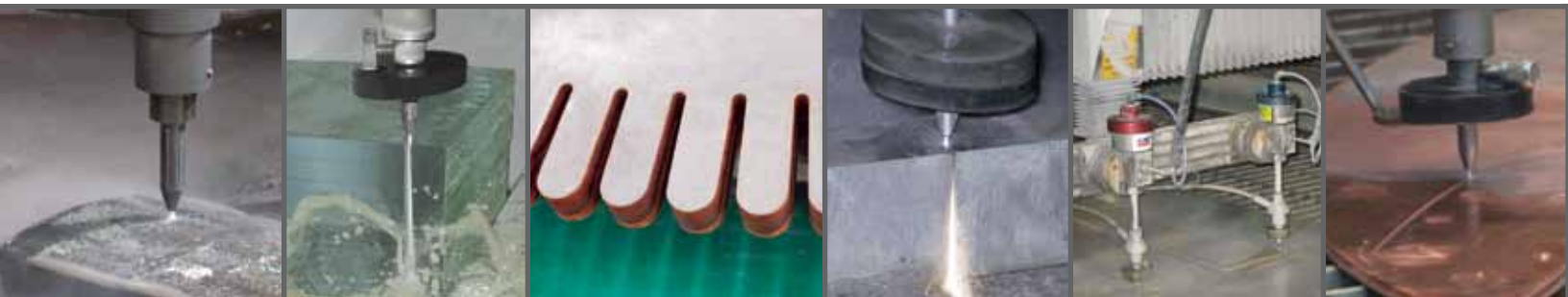
The KMT intensifier can be disassembled one side at a time and features quick, one-step seal replacement.

Precision Designed, Rapid Change UHP Intensifier

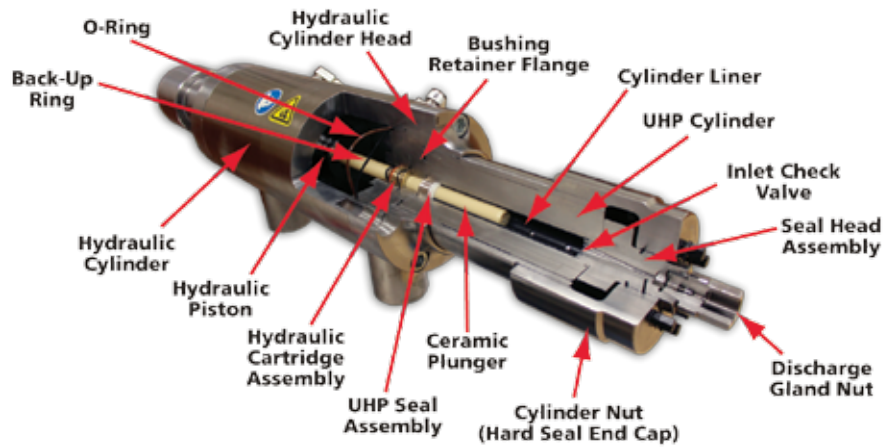
- Unsurpassed Productivity
- Reduced Maintenance

Benefits of KMT's Rapid Change UHP IntensifierSM:

- ✓ Maintenance friendly design = more uptime
- ✓ Reduces seal change time by 50% vs. comparable UHP pumps
- ✓ Low torque hard seal end cap metal-to-metal design
- ✓ Eliminates complicated bolt tensioning and tie rods
- ✓ No specialty hydraulic tools required
- ✓ Longer life on seals & consumable parts
- ✓ Improved cylinder alignment
- ✓ Fewer component parts
- ✓ Improved UHP cylinder, seal head and check valve life



DELIVER THE PRESSURE!



KMT STREAMLINE PRO²⁰⁰ Intensifier Cross Section



STREAMLINE PRO²⁰⁰
View Rapid Seal
Change Video

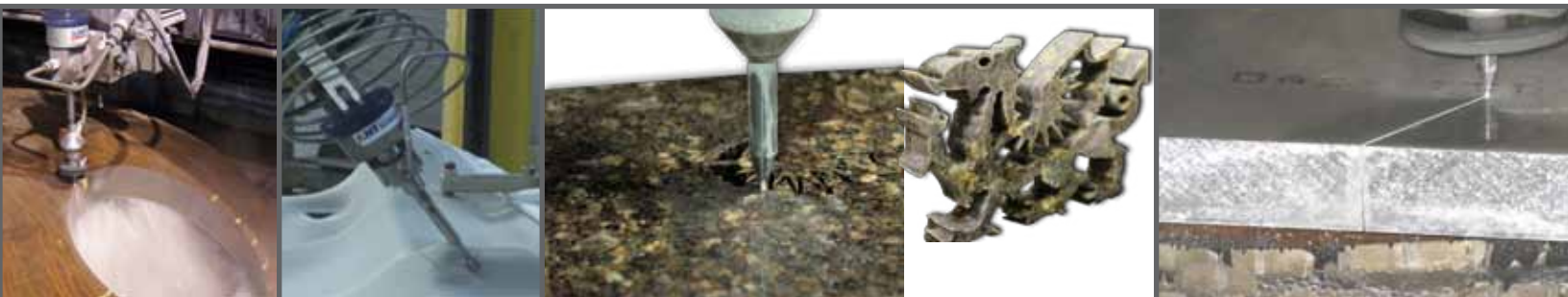
**Material/Cut
Speeds Chart**



| MATERIAL | ORIFICE DIA. | 0.011 | | | 0.016 | | Dual .011 | |
|------------------------------|--------------|-----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|
| | THICKNESS | Maximum Cut Speed ipm | Maximum Cut Speed ipm | Maximum Cut Rate ipm | Maximum Cut Speed ipm | Maximum Cut Rate ipm | Maximum Cut Speed ipm | Maximum Cut Rate ipm |
| Aluminum | 0.5"(13mm) | 55.08 | 76.38 | 110.16 | | | | |
| | 1.0"(25mm) | 21.14 | 29.26 | 42.28 | | | | |
| | 2.0"(51mm) | 7.87 | 10.86 | 15.74 | | | | |
| Stainless Steel | 0.5"(13mm) | 17.82 | 24.71 | 35.64 | | | | |
| | 1.0"(25mm) | 6.84 | 9.47 | 13.68 | | | | |
| | 2.0"(51mm) | 2.55 | 3.51 | 5.1 | | | | |
| Titanium | 0.5"(13mm) | 24.84 | 34.44 | 49.68 | | | | |
| | 1.0"(25mm) | 9.53 | 13.20 | 19.07 | | | | |
| | 2.0"(51mm) | 3.55 | 4.90 | 7.1 | | | | |
| Granite | 0.5"(13mm) | 62.16 | 53.72 | 124.32 | | | | |
| | 1.0"(25mm) | 23.81 | 20.41 | 47.62 | | | | |
| | 2.0"(51mm) | 8.83 | 7.43 | 17.66 | | | | |
| Abrasive Flow Rate Lbs./Min. | | 1.1 | 1.7 | 1.1 per head | | | | |



**Download the
KMT PRO²⁰⁰
90,000 psi Cut
Calculator**



KMT STREAMLINE PRO²® COMPONENTS



Abrasive Cutting Nozzle AUTOLINE® PRO

High Speed, Self-aligning, Cutting Nozzle!

Independent tests prove the KMT Autoline® Series of Abrasive Cutting Nozzles cut faster and at a lower cost than any other nozzle.

The Next Generation of the Autoline® Series, the KMT Autoline® PRO, is designed to provide the ultimate in cutting efficiency at 100,000 psi, while maintaining ease of use and exacting performance.



Diamond Cutting Nozzle IDE® PRO

The Next Generation in Ultra High Pressure Diamond Abrasive Cutting!

The KMT 90,000 psi/6.200 bar, Integral Diamond Eductor PRO, which has achieved successful cutting performance at 100,000 psi, consistently demonstrates superior performance and reduced operating cost.

KMT's expertise in diamond orifice manufacturing brings you a superior cutting head that has revolutionized the waterjet cutting industry.



Abrasive Metering System FEEDLINE V

Stable and repeatable operating parameters are a fundamental requirement for high-quality waterjet cutting. This applies in particular to abrasive applications used to cut brittle materials, where a constant flow of abrasive is simply a must.

KMT Waterjet Systems responded to this demand by developing the FEEDLINE V abrasive metering system. Controlled through a central CNC controller or a potentiometer, the FEEDLINE V supplies the cutting head with the optimized flow of abrasive.

This helps save material and costs.



Abrasive Metering System FEEDLINE PRECISION

KMT Waterjet Systems introduces the New FEEDLINE PRECISION variable dial control abrasive vessel. The full spectrum dial, notched in 1/10 lb. increments, delivers precise flow control of abrasive from 0 to 2-1/2 lbs./min. for cutting a variety of materials and thicknesses. The innovative Dial-It-In feature delivers flexible, economical and accurate delivery of abrasive to the cutting nozzle.



KMT GENUINE PARTS

There's No Substitute for Proven Precision and Reliability. For over 40 years, KMT Waterjet Genuine Parts are manufactured in the USA using the exact specifications as the original parts for KMT new pumps.

BENEFITS OF KMT GENUINE PARTS

- KMT Genuine Parts receive quality control inspections for superior durability.
- KMT Genuine Parts maintain pump warranty.
- KMT Genuine Parts are made to precise specifications best suited for KMT Pumps.
- 24/7 access to Customer Service and Technical Service.
- New improvements made to KMT Genuine Parts are incorporated into KMT Genuine aftermarket parts.



Abrasive Delivery System ADS SERIES HOPPERS

Our ADS SERIES HOPPERS precisely monitor the availability of sufficient abrasive closely during the entire cutting process. This protects your valuable material from damage and saves unnecessary costs and time. Its concept assures process stability, security and a very high degree of reliability. Available in 500 LB. & 2,000 LB. capacity.

KMT Genuine Parts
Your business is worth it.



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