KMT Waterjet System Integrators More Options, Better Choices!





KMT Waterjet Systems has the largest and most advanced global network of Original Equipment Manufacturers (OEM) who will design, engineer, and manufacture the right waterjet cutting system for your cutting application.

The KMT Waterjet OEM network contains accomplished manufacturers in their field of integration, whether its One Dimensional, X-Y, X-Y-Z, or 4, 5 and 6-Axis (3D) Robotic cutting application.

KMT Waterjet System 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.

With KMT Waterjet Integrators, **You Can Choose From These Options:**

Standard and Customized Tables • Multiple Cutting Heads X-Y, X-Y-Z, 4, 5 & 6 Axis Cutting Robotic Trimming Combination Waterjet Systems include: Saw, Plasma, or Drill



KMT OEM



KMT Waterjet Systems Inc.

635 W. 12th Street • P.O. Box 231 • Baxter Springs, KS 66713 800-826-9274 • Tel.: +1-620-856-2151 • Fax: +1-620-856-5050



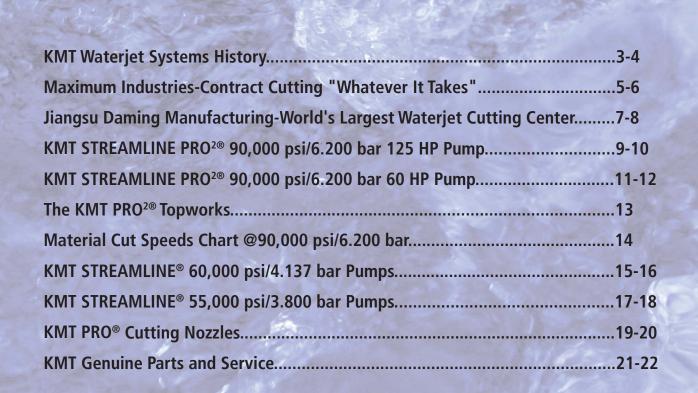








INSIDE FEATURES

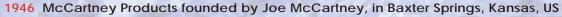




KMT Waterjet Systems is a world leader in the development of waterjet cutting technology and offers a wide range of ultrahigh waterjet pumps, advanced cutting nozzles, aftermarket KMT Genuine Parts and accessories for waterjet cutting technology. KMT Waterjet operates using a certified ISO9001 Quality Management System standard.

1

Waterjet Pioneers



- 1951 Manufacturer of first LDPE high pressure pump with 36,000 psi/2.500 bar for the chemical industry
- 1964 Ingersoll Rand acquires McCartney Products and lays foundation for Waterjet Division



1971

Ingersoll Rand launches the STREAMLINE® SL-I, the first 55,000 psi/4.000 bar high pressure pump for waterjet cutting

1986 Best-Matic opens the waterjet center in Bad Nauheim, Germany



1988

STREAMLINE® SL-II 55,000 psi/4.000 bar introduced

1989 Ingersoll Rand (IR) takes over the Best-Matic Group

1990

STREAMLINE® SL-III 55,000 psi/4.000 bar launched

1993 IR Bad Nauheim appointed sales office for HP pumps for ESA (Europe, Africa, Middle East & Asia)



1996

STREAMLINE® SL-IV 55,000 psi, with fewer intensifier parts introduced

1996

Autoline® cutting head is introduced with interchangeable orifices, representing an alignment efficiency and performance breakthrough

- 2001 AMS abrasive management system launched
- 2002 STREAMLINE™ SL-IV Plus with 60,000 psi/4.137 bar high pressure introduced

2003 Karolin Machine Tool (KMT) purchases the waterjet division from Ingersoll Rand



2004

STREAMLINE® SL-V 60,000 psi/4.137 bar with HSEC (Hard Seal End Cap) Technology is introduced with a metal-to-metal seal, reducing consumables to save operating costs

- 2005 KMT acquires Aqua-Dyne® water blasting products
- 2006 KMT acquires H2O Jet™, waterjet pumps, and aftermarket parts products
- 2008 Acquisition of the KMT Group by the Swedish investment company Nordstjernan

2008

Launch of IDE® Cutting Nozzle with permanent diamond mounted orifice improving alignment and cutting performance

2009 KMT opens Shanghai, China office for sales and service to the Asia-Pacific Region

2009

KMT introduced the STREAMLINE PRO®
90,000 psi/6.200 bar 60 HP Ultra-High Pressure Pump

2010

STREAMLINE PRO® 90,000 psi/6.200 bar 125 HP
Ultra-High Pressure Pump--- World's Fastest Waterjet
Cutting is introduced

2011

NEOLine® 55,000 psi/3.800 bar 40 HP Pump is launched as a value option for small job shops





1971

Ingersoll Rand first commercial waterjet installation in Alton, IL

1972

Tulsa World newspaper feature waterjet story on Ingersoll Rand and the "Blade That's Always Sharp"





1976

Ingersoll Rand featured in Business Week magazine on General Motors' use of Waterjet cutting

KMT WATERJET. THE BROADEST RANGE OF WATERJET SOLUTIONS!





Maximum Industries

Irving, Texas maximumind.com 972-501-9990



Video

Maximum Industries utilizes the latest technology in CNC equipment for waterjet cutting, laser cutting, machining, routing and precision laser marking. Maximum Industries has five waterjet systems including a true 5-axis system powered by the KMT STREAMLINE PRO^{2®} 125 HP 90,000 psi pump. There are also two dual cutting head waterjet systems and two single head systems to handle large production runs and multiple projects. Maximum Industries. "Whatever It Takes" to exceed customer expectations.







Jiangsu Daming Manufacturing

Wuxi, China wuxidm.cn 0086-510-8385-8000



Video

Jiangsu Daming Manufacturing is a leading large scale stainless steel processing manufacturer with numerous locations including Wuxi, China. The production facilities machinery includes waterjet technology, laser, plasma, plate sawing, surface polishing, and processing platforms. Daming operates multiple waterjet systems including 5-axis cutting. Daming's primary contract applications include shipyards, bridges, and pressure containers.





KMT STREAMLINE PRO^{2®} 125 HP

MAXIMUM POWER, MAXIMUM PERFORMANCE, 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 PRO^{2®} 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.

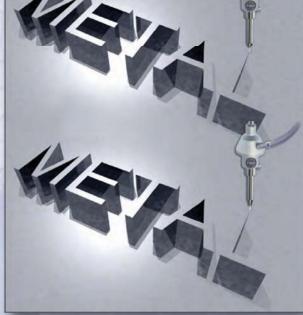


Industry Standard 60,000 psi/50 HP **Single Head Cutting**

Cut twice the material in the same time frame!

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

FASTER



35 psi (2.4 bar)

Included

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

Weight:

Cut thick metals including steel, stainless steel, titanium, and aluminum. The KMT STREAMLINE PRO²⁰ 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) 0.016" (0.406 mm) Maximum Single Orifice Diameter: Number of Language Options on Display: Control Voltage & Power Supply: 24 V DC; 5 Amps DC

Max. Noise Level: 84 dB (A) Min.: 40° F (5° C) Ambient Operating Temperature: Max.: 104° F (40° C) 88.00" (2,230 mm) Lenath 59.09" (1,500 mm) Width: Height: 61.12" (1,552 mm)

6,850 lbs (3,107 kg)

High Pressure Water System Inlet Flow Rate:

Minimum Inlet Cutting Water Pressure Plunger Diameter: Max. Nominal Strokes per Minute (at 90,000 psi, 6.200 bar): Accumulator Volume:

9.2 gpm (34.8 lpm) 35 psi (2.4 bar) 0.875" (22.2 mm)

45 Per Intensifier 0.42 Gal. (1.6 L)

Hvdraulic System

Max. Hydraulic Pressure, Operating at Maximum Water Pressure: Hydraulic Reservoir Capacity: Single Hydraulic Pump Flow Rate at 60Hz (@1,750 rpm):

2,400 psi (165 bar) 110 gal (416 L)

64 gpm (242 lpm)

Cooling System

Cooling Water Consumption at 75° F (24° C) Water Temp. (Max): Minimum Cooling Water Pressure:

Options & Other Features Booster Pump (adjustable & protected):

Soft Start: **Dual Pressure Control:** 6.5 gpm (24.6 lpm) Dual Intensifier Topworks: Proportional Control: Remote Online Diagnostics (via Modem):

Included Standard Standard Standard Optional Standard Digital Pressure Display

KMT STREAMLINE PRO^{2®} 60 HP

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 PRO^{2®} 60 pump delivers the manufacturer a substantial improvement over cutting at 60,000 psi - 50 HP for a greater return on investment. When compared with 60,000 psi cutting speeds, the new STREAMLINE PRO^{2®} 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/50 HP **Single Head** Cutting

Increase Productivity!



3.5 gpm (13.2 lpm)

PRO® 90,000 psi/60 HP **Single Head Cutting**

SYSTEM INFORMATION:

Nominal Power Rate: Maximum Pressure Range: Max. Water Flow Rate @ 90,000psi (6.200 bar): Maximum Single Orifice Diameter: Number of Language Options on Display: Control Voltage & Power Supply:

60 HP (45kW) 90,000 psi (6.200 bar) .73 gpm (2.8 lpm) 0.011" (0.279 mm)

24 V DC; 10 Amps DC

Max. Noise Level: Ambient Operating Temperature:

Min.: 40° F (5° C) Max.: 104° F (40° C) Length: 78.00" (1,981 mm) Width: 36.00" (914 mm) 57.19" (1,453 mm) Height: Weight: 3,450 lbs (1,565 kg)

72.5 dB (A)

High Pressure Water System Inlet Flow Rate: Minimum Inlet Cutting Water Pressure:

Plunger Diameter: Max. Nominal Strokes per Minute (at 90,000 psi, 6.200 bar): Accumulator Volume:

4.0 gpm (15.0 lpm) 35 psi (2.4 bar) 0.875" (22.2 mm)

0.42 Gal. (1.6 L)

Hydraulic System Max. Hydraulic Pressure, Operating at Maximum Water Pressure: Hydraulic Reservoir Capacity: Hydraulic Pump Flow Rate at 60Hz (@1,750 rpm):

2,350 psi (162 bar) 48 gal (182 L)

64.0 gpm (242 lpm)

Cooling System Cooling Water Consumption at 75° F (24° C) Water Temp. (Max): Minimum Cooling Water Pressure:

35 psi (2.4 bar) Options & Other Features Booster Pump (adjustable & protected): Included

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

Optional Included Optional Standard Optional Standard

KMT STREAMLINE PRO^{2®}

DELIVER THE PRESSURE!

PRODUCTS

THE KMT INTENSIFIER

THE SOURCE OF PRESSURE. No other system incorporates the features of the KMT STREAMLINE PRO^{2®} 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



Dual Intensifiers





STREAMLINE PRO^{2®} View Rapid Seal Change video

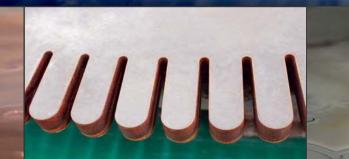
KMT STREAMLINE PRO^{2®} Intensifier Cross Section





Download the KMT PRO^{2®} 90,000 psi Cut Calculator





KMT WATERJET STREAMLINE® PUMPS

THE RIGHT PUMP MATTERS!

High Pressure Pumps for 60,000 psi Cutting KMT STREAMLINE® Series Pumps The Industry Standard and an Exceptional Value



STREAMLINE® SL-V 50 Plus Specifications

Nominal Po er Rate	50hp (37 kW)					
Max. Continuous Pressure	60,000 psi (4.137 bar)					
Max. Water Flo Rate	1.0 gpm (3.79 L min)					
Max. Single Ori ice Dia. (ull pressure)	.014 in. (0.355 mm)					
Control Voltage & Po er Supply	24V DC; 10 Amps DC					
Ambient Operating Temperature	Min. 40 F (5 C), Max. 104 F (40 C)					
Hydraulic Reser oir Capacity	28 gal (106 L)					
Cooling Water Flo 75 (24 C) Water Temp.	3 gpm (11.4 L min)					
Attenuator Volume	.25 gal (.96 L)					
Length	67.75" (1.7 m)					
Width	36" (914 mm)					
Height	57.19" (1,453 mm)					
Weight	2,900 lbs.					



The KMT STREAMLINE® Series utilizes the latest technology and an innovative design for ease of use, reliability and convenience. The result is a system that delivers the highest efficiency and profit.

Our full-featured, SL-V pumps are available in more sizes and with new "Cutting Edge" options only from KMT Waterjet. These pumps are the easiest to maintain and the most advanced STREAMLINE® pumps ever offered. Depending on pressure and water quality, KMT seals last longer than any other system – allowing for continuous operation in the most demanding production schedules.

STREAMLINE® SL-V 100 Plus Specifications

Nominal Po er Rate	100hp (75 kW)					
Max. Continuous Pressure	60,000 psi (4.137 bar)					
Max. Water Flo Rate	2.0 gpm (7.57 L min)					
Max. Single Ori ice Dia. (ull pressure)	.020 in. (0.508 mm)					
Control Voltage & Po er Supply	24V DC; 10 Amps DC					
Ambient Operating Temperature	Min. 40 F (5 C), Max. 104 F (40 C)					
Hydraulic Reser oir Capacity	48 gal (182 L)					
Cooling Water Flo 75 (24 C) Water Temp.	4 gpm (15.1 L min)					
Attenuator Volume	.51 gal (1.92 L)					
Length	77.75" (2.0 m)					
Width	36" (914 mm)					
Height	57.19" (1,453 mm)					
Weight	4,200 lbs.					



Easiest to Maintain

- Single Topwork per Pump 60,000 psi is produced with just one topwork, delivering lower maintenance costs, and quieter operation with fewer parts.
- Larger Plunger The longer, slower strokes of the ceramic plunger move more water with each stroke, providing more uptime and longer seal life.
- "Quick Release" Plunger Exclusive plunger removal design simplifies removal. Cartridge seal system design is the fastest change-out design and provides a redundant sealing system.

STREAMLINE® SL-V 200R Plus Specifications

Nominal Po er Rate	200hp (149 kW)					
Max. Continuous Pressure	60,000 psi (4.137 bar)					
Max. Water Flo Rate	4.0 gpm (14 L min)					
Max. Single Ori ice Dia. (ull pressure)	.028 in. (0.71 mm)					
Control Voltage & Po er Supply	24V DC; 10 Amps DC					
Ambient Operating Temperature	Min. 40 F (5 C), Max. 104 F (40 C)					
Hydraulic Reser oir Capacity	125 gal (473 L)					
Cooling Water Flo 75 (24 C) Water Temp.	16 gpm (61 L min)					
Attenuator Volume	.8 gal (3 L)					
Length	91" (231 cm)					
Width	67" (170 cm)					
Height	70" (178 cm)					
Weight	9,220 lbs.					



Optional Redundant Topworks

• Adding a Redundant Topworks provides a completely identical high pressure production system to any pump over 15 HP.

Activating the redundant system takes just a few minutes and maintains a continuous flow of maximum high pressure for continuous production. The option is well worth the investment for shops under tight production schedules and in need of continuous, reliable production from just one machine. It is nearly the equivalent of having two pumps in one, while consuming less space - and far less capital.

STREAMLINE® SL-V 15 Plus Specifications

Nominal Po er Rate	15hp (11kW)					
Max. Continuous Pressure	60,000 psi (4,137 bar)					
Max. Water Flo Rate	0.30 gpm (1.14 L min)					
Max. Single Ori ice Dia. (ull pressure)	.007 in. (0.178 mm)					
Control Voltage & Po er Supply	24V DC; 10 Amps DC					
Ambient Operating Temperature	Min. 40 F (5 C), Max. 104 F (40 C)					
Hydraulic Reser oir Capacity	12 gal (45 L)					
Cooling Water Flo 75 (24 C) Water Temp.	2 gpm (7.6 L min)					
Attenuator Volume	.11 gal (.41L)					
Length	56" (1.4 m)					
Width	28" (711 mm)					
Height	33" (838 mm)					
Weight	1,800 lbs.					



KMT WATERJET

THE BROADEST RANGE OF WATERJET PUMPS!



High Pressure Pumps for 55,000 psi Cutting KMT NEOLine® and STREAMLINE® Series
Proven Reliability & Most Affordable



Download the 60,000 psi Cut Calculator

The Perfect Solution for Small Job Shop Cutting

The KMT Waterjet NEOLine® 40i Pump is the NEW Low Cost Option for Multiple Waterjet Cutting Applications.

The KMT Waterjet NEOLine® 40i pump uses KMT proven intensifier technology for superior performance with less maintenance.

The durable and reliable NEOLine® 40i pump is ideally suited for small job shops, sign and automotive shops requiring the versatility and flexibility found only with waterjet cutting.

The NEOLine® 40i features a new, low profile cabinetry design for easy access to pump controls and components along with 55,000 psi operating pressure to cut steel, glass, granite, tile, plastic, aluminum, stone and much more.

NEOLine® 40i Specifications

	Nominal Po er Rate	40hp (29 kW)					
	Max. Continuous Pressure	55,000 psi (3.800 bar)					
	Max. Water Flo Rate	0.72 gpm (2.73 L min)					
	Max. Single Ori ice Dia. (ull pressure)	.012 in. (0.30 mm)					
ı	Control Voltage & Po er Supply	24V DC; 5 Amps DC					
ı	Ambient Operating Temperature	Min. 40 F (5 C), Max. 104 F (40 C)					
ı	Hydraulic Reser oir Capacity	32 gal (121 L)					
	Cooling Water Flo 75 (24 C) Water Temp.	3 gpm (11.4 L min)					
	Attenuator Volume	.26 gal (1L)					
ı	Length	56.53" (143.58 cm)					
	Width	42" (106.68 cm)					
	Height	39.5" (100.33 cm)					
	Weight	2,000 lbs.					



The E-Series of KMT STREAMLINE® pumps are equipped with the most popular and essential pump features for efficient production of 55,000 psi water pressure, at a very economical price.

Efficient Design

Controls include the dual pressure compensator (providing two pressure levels) but exclude features enabling use of the proportional control (electronic pressure adjustment).

The frame was redesigned to be less expensive, while remaining open and functional. Top covers have also been eliminated.

STREAMLINE® SL-V E-Series Specifications

		E-30	E-50			
	Nominal Po er Rate	30hp (22 kW)	50hp (37 kW)			
	Max. Continuous Pressure	55,000 psi (3.800 bar)	55,000 psi (3.800 bar)			
	Max. Water Flo Rate	0.6 gpm (2.3 L min)	1.0 gpm (3.8 L min)			
	Max. Single Ori ice Dia. (ull pressure)	.011 in. (0.28 mm)	.014 in. (0.36 mm)			
E)	Control Voltage & Po er Supply	24V DC; 5 Amps DC	24V DC; 5 Amps DC			
	Ambient Operating Temperature	Min. 40 F (5 C), Max. 104 F (40 C)	Min. 40 F (5 C), Max. 104 F (40 C)			
	Hydraulic Reser oir Capacity	40 gal (154 L)	40 gal (154 L)			
	Cooling Water Flo 75 (24 C) Water Temp.	1.5 gpm (5.7 L min)	3 gpm (11.4 L min)			
	Attenuator Volume	.26 gal (1L)	.26 gal (1L)			
	Length	68" (1.727 mm)	68" (1.727 mm)			
	Width	36" (914 mm)	36" (914 mm)			
	Height	49.2" (1,250 mm)	49.2" (1,250 mm)			
	Weight	2,350 lbs.	2,615 lbs.			



KMT Waterjet offers the S-Series, an intensifier pump manufactured for complete system integration.

The S-30 & S-50 intensifiers are designed for the user that prefers to design and build the pump control logic, including shutdown due to overstroking, overheating, loss of water pressure and all other aspects of pump control.

STREAMLINE® S-Series Specifications

	S-30	S-50			
Nominal Po er Rate	30hp (22 kW)	50hp (37 kW)			
Max. Continuous Pressure	60,000 psi (4.137 bar)	60,000 psi (4.137 bar)			
Max. Water Flo Rate	0.52 gpm (1.97 L min)	0.88 gpm (3.3 L min)			
Max. Single Ori ice Dia. (ull pressure)	.010 in. (0.25 mm)	.014 in. (0.35 mm)			
Control Voltage & Po er Supply	24V DC; 5 Amps DC	24V DC; 5 Amps DC			
Ambient Operating Temperature	Min. 40 F (5 C), Max. 104 F (40 C)	Min. 40 F (5 C), Max. 104 F (40 C)			
Hydraulic Reser oir Capacity	28 gal (106 L)	40 gal (154 L)			
Cooling Water Flo 75 (24 C) Water Temp.	2.5 gpm (9.5 L min)	3 gpm (11.4 L min)			
Attenuator Volume	.25 gal (.96L)	.25 gal (.96L)			
Length	44" (1.118 mm)	84.25" (2.140 mm)			
Width	37" (940 mm)	39" (991 mm)			
Height	36" (914 mm)	44.8" (1,140 mm)			
Weight	2,101 lbs.	3,100 lbs.			











FASTER CUTTING KMT WATERJET NOZZLES

FOR PEAK PERFORMANCE!

PRODUCTS



Abrasive Cutting Nozzle AUTOLINE® PRO

High Speed, Sel aligning, Cutting No le

Independent tests pro e the MT Autoline Series o Abrasi e Cutting No les cut aster and at a lo er cost than any other no le. The Next Generation o the Autoline Series, the MT Autoline PRO, is designed to pro ide the ultimate in cutting e iciency at 100,000 psi, hile maintain ing ease o use and exacting per ormance.

Ne , Simpli ied Modular Design

The new 90,000 psi 6.200 bar Autoline PRO has the same modular design and components found in the MT Autoline . Like the original MT Autoline, all wear components can be changed individually, as needed, allowing maximum efficiency. In all abrasive cutting heads, there are three areas of wear: the orifice, the mixing chamber, and the focusing tube. The Autoline enables the individual replacement of any wear component, giving you the lowest operating cost.

Pro en to be Best

Independent tests have shown that the MT Autoline design is the ultimate in efficiency and has the lowest operating cost. Tests performed by the niversity of Missouri-Science & Technology showed that the Autoline design achieved the best overall cutting performance for speed and efficiency. Fast cutting and low abrasive consumption helped it to win the top position. Of course, if you're more interested in speed, the orifice can be replaced in seconds with a larger size with just a uarter turn of the insert body.

The net result is an outstanding nozzle that delivers a sharper, more coherent, cutting stream for faster cutting while using less abrasive. The new MT Autoline PRO is the best, most precise

- Wear Insert Larger & relocated or isibility & easy access.
- Same Interior Geometries as Autoline High per ormance ith ery e icient abrasi e usage.
- Easy Ori ice Change No tools re uired.
- Weep Hole Indicator Sho s hen ori ice needs to be tightened urther, eliminating o er tightening to protect both the ori ice and the no le tube.
- Re designed nob T nob designed or easy ocusing tube tightening and disassembling.
- Angled Abrasi e Inlet Inlet is mounted an angle hich allo s or a smoother abrasi e lo
- Easier Hose Attachment Abrasi e eed hose slips o er inlet or easier isual attachment.



Summary o Features

- ni ue Ne Diamond Mounting Design Impro es Alignment & Cutting Per ormance
- Ne ly Designed No le Increases Per ormance
- Less Seal Tor ue Re uired
- ser Friendly Retro it or Current sers
- Engineered or the Ne , Faster Cutting Streamline PRO 90,000 psi Pump

Diamond Cutting Nozzle IDE® PRO

The ext eneration in Itra High Pressure Diamond Abrasi e Cutting

The MT 90,000 psi 6.200 bar, Integral Diamond Eductor PRO, hich has achie ed success ul cutting per ormance at 100,000 psi, consistently demonstrates superior per ormance and reduced operating cost. When compared to competiti e brand abrasi e cutting heads:

- p to 50 more productifity no maintenance do in time
- From 10 to 20 times greater mean time bet een ailure
- Superior edge uality

MT's expertise in diamond ori ice manu acturing brings you a superior cutting head that has re olutioni ed the ater et cutting industry.

HyperTube™ PRO Indexing Focusing Tube for the IDE™ PRO & Autoline™ PRO



Indexing Feature:

Before using HyperTube™ PRO, line up "star" marking on same face as the abrasive feed

Rotate 90° clockwise on a regular, 3X before replacing

HyperTube PRO Focusing Tube

The superior design of the HyperTube PRO is engineered for longer, more uniform wear preventing focusing tube blow-out. The HyperTube PRO includes an Indexing feature to insure uniform internal abrasive wear. (HyperTube PRO Trademark S Patent

Pure Water Pneumatic Nozzle AOUALINE

Pure ater cutting applications are among the most demanding o subcontracting obs in the industry.

Demands put on ater et components and some industry production units usually run 3 x 8 hour shi ts throughout the complete eek highlighting a need or extremely high reliability

Any production stop is e ui alent to expensi e delays and shutdo ns o processes urther do n the production lo stream.

Wide Range o Applications

KMT

NO (Normally Open)

and NC (Normally Closed)

Pneumatically Operated

Water Only No les

Pure water cutting applications usually work with significantly higher cutting speeds compared to those of abrasive cutting. The typical applications of this nature are found in the Automotive and Aerospace Industries, as well as miscellaneous plastic and composite paneling. askets, foams and food are also sizeable application areas for pure waterjets.

Reliability nder Extreme Conditions

Our A ualine pure water cutting head has gained an industry-wide reputation for being among the uickest and the most reliable pure water cutting heads under extreme working conditions. The heads have the fastest reaction times while maintaining long component lifetimes with high uality.

Compact Design or Flexibility

The A ualine head is lightweight and ensures flexibility in both multi-head and -D applications.

Back up Solutions

The compact design allows it to be adapted to multiple cutting nozzles on a 1- or 2-D cutting machine to increase production throughput. The compactness also creates the possibility of installing a second set of cutting heads as a backup or redundant solution. In practice, more than 12 cutting heads have been hooked up to a single cutting system.

Ease o Maintenance

Leak holes protect the nozzle body, nozzle tube and nozzle nut from damages and indicate clearly which connection has to be tightened or which seal has to be replaced. The uni ue design allows for replacing the seal in under 5 min.

*KMT Autoline® and IDE® cutting nozzles are also available in pressure rated at 60,000 psi.

NUMBER OF CUTTING HEADS POSSIBLE @ 90,000 psi/6.200 bar MAXIMUM PRESSURE

Orifice	Inch	0.004	0.005	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.015	0.016
Size	mm	0.10	0.13	0.15	0.18	0.20	0.23	0.25	0.28	0.30	0.33	0.35	0.38	0.40
Pump	60 HP	7	4	3	2	1	1	1	1	0	0	0	0	0
Size	125 HP	15	10	6	5	4	3	2	2	1	1	1	1	1





KMT GENUINE PARTS AND SERVICE

SUPERIOR IN QUALITY AND PERFORMANCE



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.



KMT Genuine Service

Experienced Support for Maximum Performance and Reliability.

KMT Technicians provide the waterjet industry's best technical support averaging over 15 years waterjet experience.

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

BENEFITS OF THE KMT PM PROGRAM

- Improves operational performance, efficiency and dependability.
- Minimize maintenance costs.
- Reduce down times.
- Enable end users to focus resources on core business.
- Improve parts life and reduce down time with proper seal replacements.

KMT Waterjet Preventive Maintenance Comprehensive 65 Point Inspection

INTENSIFIER

- 1. HP Cylinders 2. Seal Heads

- 4. Liners 5. Plungers 6. Hydraulic Head 7. HSEC Nut
- 8. Jacking Bolts

- 9. Hydraulic Cylinder 10. Proximity Switch 11. Piston Assembly
- 12. Hydraulic Seal Cartridge
- 13. Hydraulic Seal Retaine
- 14. O-rings 15. Backup Ring 16. Retaining Ring

MOTOR/PUMP

- 17. Bearing Grease
- 18. Noise 19. Vibration

ELECTRICAL

- 21. Display Functio
- 22. Power Supply Tes 23. Voltage Check

- 25. Piston Pump 26. Recirculation Pum 27. Compensators

HYDRAULIC

- 28. High Pressure Relief Valve
- 29. Low Pressure Relief Valve
- 30. Pressure Gauge 31. Main Relief Valve
- 32. Directional Valve

CUTTING HEADS

- 54. N.C. Valve Body
- 55. Seals
- 56. Stem & Seat 57. Nozzle Tube
- 58. Wear Insert
- 60. Focus Tube

SYSTEM 34. HP Bent Tubino

HIGH PRESSURE

- 36. N.O. Valve 37. Seals
- 38. Stem & Seat
- 39. HP Fittings

LOW PRESSURE SYSTEM

- 41. Water Filters
- 42. Check Valves
- 43. Relief Valve
- 44. Booster Pump 45. Hoses
- 46. Pressure Switches
- 47. Pressure Gauges

- **COOLING** 48. Modulating Valve
- 49. Heat Exchanger

ABRASIVE FEEDERS AND VESSELS

- 61. Abrasive Hopp
- 62. Metering System
- 63. Wear In



IMPORTANT

- Imitation parts DO NOT meet KMT stringent requirements.
- Imitation parts may reduce component lifetimes.
- Imitation parts may compromise safe failure modes.
- Use of Imitation parts WILL void KMT pump warranty.





Order parts 24/7 @ kmtgenuineparts.com

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