

NEW!
Featured at
IMTS '08

Ultra High Pressure Pump

STREAMLINE™ PRO

**Increase Speed,
Increase Productivity!**

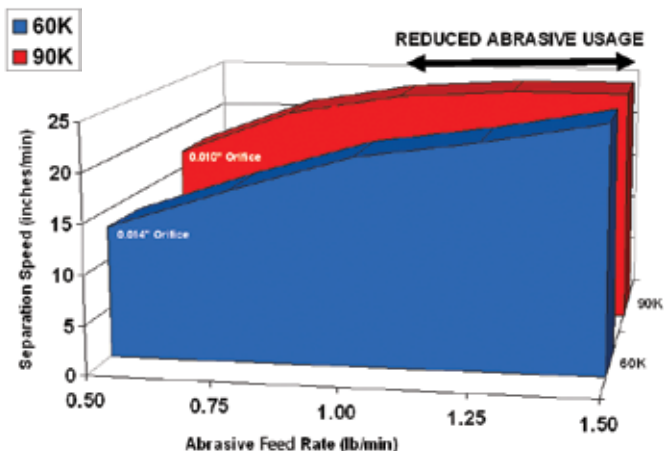
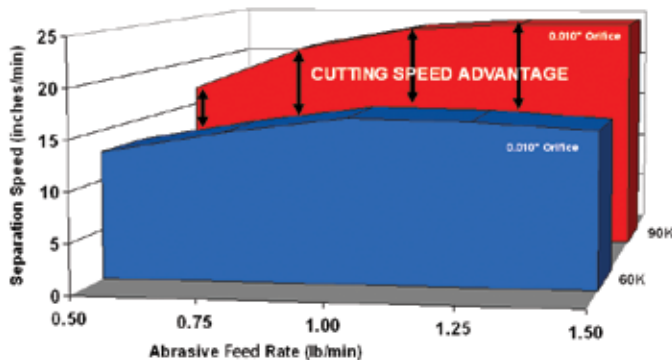


KMT Waterjet Systems Inc. introduces the *Next Generation* of waterjet pumps, an ultra high pressure (UHP) 90,000 PSI/6.200 bar pump. The KMT Streamline™ PRO UHP pump is the solution for manufacturers requiring maximum performance and exceptional value.

Increased Production

With waterjet pressure up to 90,000 PSI/6.200 bar, the advanced KMT Streamline™ PRO pump delivers the manufacturer a reduction in operating costs by cutting products in less time than conventional waterjet systems. When compared with 60,000 PSI cutting speeds, the new PROline pump will significantly increase cutting productivity.

- Increase Cutting Speed
- Maximum Power
- Highest Efficiency
- Increase Production
- Reduce Operating Costs
- Eliminates Heat-Affected Zones



Faster, Easier Maintenance

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

Fast Cutting

Continuous production of 90,000 PSI/6.200 bar enables faster cutting over lower pressure systems.

Essential Features

- Threaded, stud design utilizes hydraulic tension for ease of maintenance.
- Downward compatible to 60,000 PSI operational pressure when less waterjet force is needed to complete the project.
- Sophisticated software includes remote access and ability to network multiple pumps.
- One intensifier reduces maintenance operating costs.
- Multiple language controls
- Dual pressure compensator



Abrasive Waterjet Cutting Speeds
Approximate Medium Edge Quality,
Inches per Minute
At 90,000 PSI (6.200 bar)

KMT can determine the ideal mix of water and pressure by providing sample cuts or drawing on extensive experience with cutting materials.

The table provides general information about cutting speeds; please call to arrange for free sample cuts of your specific materials.

Material	Material Thickness	.010" Orifice	.014 Orifice
Aluminum	0.25" (6mm)	40	71
	0.50" (13mm)	7	30
	0.75" (19mm)	10	18
Stainless Steel	0.25" (6mm)	13	24
	0.50" (13mm)	6	10
	0.75" (19mm)	3	6
Titanium	0.25" (6mm)	16	28
	0.50" (13mm)	7	12
	0.75" (19mm)	4	7
Marble	0.25" (6mm)	85	149
	0.50" (13mm)	36	63
	0.75" (19mm)	21	38
Glass	0.25" (6mm)	67	118
	0.50" (13mm)	28	51
	0.75" (19mm)	17	30
Abrasive Feed Rate (Pounds/minute - 80 mesh)		0.75	1.5

KMT ULTRA HIGH PRESSURE COMPONENTS

KMT supplies a full line of ultra high pressure components and parts for use with the Streamline™ PRO Pump.

KMT Autoline™ PRO Diamond Abrasive Cutting Nozzle

The KMT Autoline PRO is designed to provide the ultimate in cutting efficiency at 90,000 PSI, and cuts faster at a lower cost than any other nozzle. Independent tests performed by the University of Missouri-Science & Technology have shown that the AUTOLINE™ design is the ultimate in efficiency and has the lowest operating cost.



PSC (Precision System Components) 100,000 PSI/6.900 bar Replacement Parts

KMT supplies a full line of ultra high pressure elbows, tees and fittings rated to 100,000 PSI/6.900 bar and ideal for use with the Streamline™ PRO pump and other high pressure applications.



System Information

Nominal Power Rate:	60hp (45kW)	125hp (93kW)
Maximum Pressure Range:	90,000 PSI (6.200 bar)	90,000 PSI (6.200 bar)
Max. Water Flow Rate @ 55,000psi (3,792 bar) :	1.2 gpm (4.54 lpm)	2.0 gpm (7.56 lpm)
Maximum Single Orifice Diameter:	0.015" (0.381 mm)	0.019" (0.482 mm)
Number of Language Options on Display:	5	5
Control Voltage & Power Supply:	24 V DC; 10 Amps DC	24 V DC; 10 Amps DC

Max. Noise Level:	72.5 dB (A)	72.5 dB (A)
Ambient Operating Temperature:	Min.: 40° F (5° C); Max.: 104° F (40° C)	Min.: 40° F (5° C); Max.: 104° F (40° C)
Length:	67.75" (1.7 m)	96.00" (2.4 m)
Width:	36.00" (914 mm)	48.00" (914 mm)
Height:	57.19" (1,453 mm)	57.19" (1,453 mm)
Weight:	3,400 lbs (1,542 kg)	5,000 lbs (2,268 kg)

Cutting Water (flowing)

Minimum Inlet Cutting Water Flow:	4.8 gpm (18.2 lpm)	8.0 gpm (30.3 lpm)
Minimum Inlet Cutting Water Pressure:	35 PSI (2.4 bar)	35 PSI (2.4 bar)
Plunger Diameter:	0.875" (22.2 mm)	0.875" (22.2 mm)
Max. Nominal Strokes per Minute (at 55,000 psi, 3,792 bar):	64	64
Accumulator Volume:	1.2 Liter	2.4 Liter

Hydraulic System

Max. Hydraulic Pressure, operating at maximum water pressure:	3,000 PSI (207 bar)	3,000 PSI (207 bar)
Hydraulic Reservoir Capacity:	28 gal (106 L)	100 gal (106 L)
Hydraulic Pump Flow Rate at 60Hz (@1,750 rpm):	33.0 gpm (125 lpm)	33.0 gpm (125 lpm)

Cooling System

Cooling Water Consumption at 75° F (24° C) Water Temp. (Max):	3.5 gpm (13.2 lpm)	4.5 gpm (17.0 lpm)
Minimum Cooling Water Pressure:	35 PSI (2.4 bar)	35 PSI (2.4 bar)

Options & Other Features

Booster Pump (adjustable & protected):	Included	Included
Wye-Delta Starter or Soft Start:	Optional	Optional
Dual Pressure Compensator:	Included	Included
Redundant Topworks:	Optional	N/A
Proportional Control:	Optional	Optional
Remote Online Diagnostics (via Modem):	Optional	Optional



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