



Ultra High Pressure Pumps

STREAMLINE™ SL-V 150/200

Advanced Technology for
Cleaning and Cutting Applications



Company Background

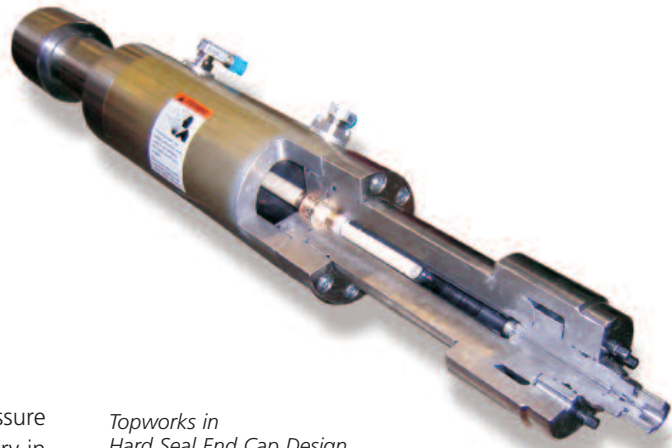
KMT WATERJET is a leading manufacturer of high pressure waterjet systems. Having launched the waterjet industry in the early 1970's with the first sale of a waterjet machine for cutting cardboard, the company has advanced the design for waterjet equipment to the current, advanced level – the STREAMLINE™ SL-V – by using an approach with a high emphasis on ease-of-use and reliability.

To deliver on these objectives, strong attention was given to using the most advanced manufacturing processes for the best precision, a requirement for reliability under extreme pressures.

The design of the STREAMLINE™ series has been so successful it is now used by more waterjet system builders than any other high pressure equipment.

STREAMLINE™ Reputation

The line of STREAMLINE™ pumps has been used in industry for over 30 years. The pumps have been progressively improving as technology for precision machining has developed. The latest version is the SL-V. This version includes technology enabling pumps to deliver 4.136 bar.



*Topworks in
Hard Seal End Cap Design*

STREAMLINE™ SL-V 150 / 200



The new high volume pump STREAMLINE™ SL-V150/200 is designed for both cutting and cleaning applications. It can feed up to 46 cutting heads and / or appropriate cleaning equipment. The engineers of KMT WATERJET have integrated the successful Hard Seal End Cap (HSEC) top-work design which is common to the whole STREAMLINE™ SL-V series.

Over time, the STREAMLINE™ name has become known for:

• Ease of Use

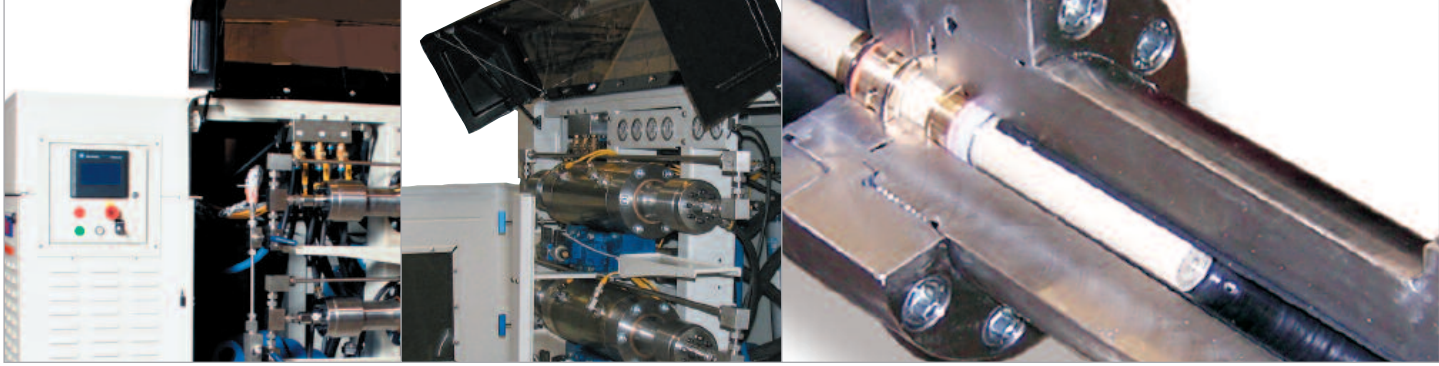
Seal changes and maintenance could not be much easier or faster. With an intensifier that has cylinders which thread together, STREAMLINE™ pumps can quickly be taken apart and reassembled for maintenance.

• Precision

Precision machining allows for metal-to-metal seals, longer lasting and better performing components, and extended life for consumables at extreme pressures.

• Reliability

Consistent performers, STREAMLINE™ pumps are designed to keep up with the most demanding production schedules.



More Advanced Precision for Smoother, Reliable Operation

- Just Two Intensifiers for Full Power**

Each can use up to 100hp to deliver 7.6 l/min. Because the intensifiers are larger than conventional concepts, they stroke slower for smoother performance and longer seal life.

- Stacked Intensifiers**

Exclusive design has the intensifiers close to the front for ergonomic access.

- Transparent Windows**

The doors have transparent windows for easy visual inspection.

- Hard Seal End Cap Design (HSEC)**

The innovative, new end cap design provides a metal-to-metal seal, eliminating rubber seals thus reducing consumables and saving operating costs at increased uptime of your cutting system.

- Big Attenuator Capacity**

3 liter accumulator volume (PLUS version: 4 liter) provides better, more consistent pressure signal for smoother cuts or more consistent cleaning.

- Proportional Pressure Control**

A standard feature on the 150 and 200 hp pumps enabling fast, automatic pressure changes.

1 See-through Cover

2 Main Intensifiers

3 Removable Doors with windows

4 Reserve Intensifier (Option)

5 Attenuator(s)



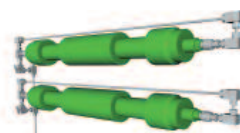
Intensifier Capacity Modes

- Partial Operation Mode**

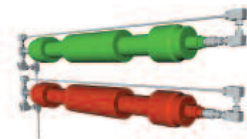
In order to keep the production running even if one intensifier needs maintenance, the pump can run with one intensifier only. This feature provides 50% uptime.

- Reserve Mode (Option)**

Add an optional third intensifier as a backup source of pressure. The third intensifier can be used when one (or two) of the others needs to be taken offline for maintenance. Each intensifier can use up to 100hp to deliver up to 7.6 l/min.

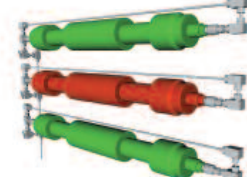
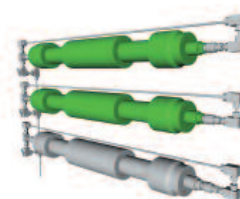


Normal operations



▲ Partial operation

▼ Reserve operation



Intensifier/s: ● in operations ● in maintenance ● as standby

Technical Data

System Information	Unit	SL-V 150 PLUS	SL-V 200 PLUS
Nominal Power Rate	kW/PS	112 / 150	149 / 200
Max. Continuous Pressure	bar		500 – 4.136
Max. Water Flow Rate @ Max. Pressure	l/min	9,1	13,6
Theo. Max. Single Orifice Diameter	mm	0,61	0,71
No. of Language Options on Display	9*		
Control Voltage & Power Supply	VDC		24
Nom. Motor Current at 400V/50Hz	A	180	259
Circuit Braker at 400V/50Hz	A	250	350
Max. Noise Level/Operators Noise Level	dB(A)		< 84,5
Ambient Operating Temperature	°C		4 – 37
Length	cm		231
Width	cm		170
Height	cm		177
Weight (Redundant Model)	kg	3.855 (4.037)	4.082 (4.182)
Control System		Touch-Screen-Display (Moeller)	

Cutting Water

Minimum Inlet Cutting Water Flow	l/min	45	60
Minimum Inlet Cutting Water Pressure	bar		2,4
Max. Nominal Strokes per Minute	min-1	51	71
Accumulator Volume	l		4
LP Filter	µm abs.		10

Hydraulic System

Max. Hydraulic Pressure	bar		183
Hydraulic Reservoir Capacity	l		473
Hydraulic Pump Flow Rate at Max Output	l/min	2 x 129	2 x 174

Cooling System

Minimal Cooling Water Pressure	bar		2,4
Cooling Water Consumption at 24°C Water Temperature	l/min	19	22,7

Options & Other Features

Booster Pump (adjustable & protected)	●
Soft Starter	●
Oil / Air-Cooler (Closed Loop Cooling System)	○
Redundant Topworks	○
Proportional Control	●
Remote Online Diagnostics	○
Networking Interface Kit	○
Door Swing Open (Remove Easily)	●
ProfiBus Connection	○
Food Grade Oil	○
Tool Kit	○
Spare Parts Kit	○
CE Mark attached	●

* english, german, french, spanish, italian, swedish, finnish, polish, czech

● = Standard
○ = Optional Feature

Orifice Size in mm at 3.800 bar resp. 4.136 bar

SL-V	0,10	0,12	0,15	0,17*	0,20	0,23*	0,25*	0,28	0,30*	0,33*	0,35*	0,40*	0,45	0,50	0,55	0,65
150	3.800	34	22	15	11	8	7	5	4	4	3	3	2	1	1	0
	4.136	27	17	12	9	7	5	4	3	3	2	2	1	1	1	0
200	3.800	46	30	21	15	11	9	8	6	5	4	4	3	2	1	1
	4.136	40	26	18	13	10	8	6	5	4	4	3	2	2	1	1

* This orifice size is used for abrasive cutting also.

Advanced Pumps for Large, Demanding High Pressure Water Applications

The new high volume intensifiers from KMT WATERJET are designed for ease-of-use, simpler maintenance and lower total costs. Benefits include the following:



High Pressure Water Reliability

- All KMT WATERJET intensifiers have the reserve option – the option of adding an additional intensifier as standby. Having an extra intensifier available, with a 7.6 l/min capacity, provides reliability for demanding production schedules.
- These pumps use the same advanced technology as the entire STREAMLINE™ family which became a standard in the waterjet cutting industry.

Minimal Floor Space Required

- One 200 horsepower pump requires much less floor space than e.g. four 50 horsepower pumps.
- Reduced efforts in terms of installation material and external balancing equipment saves additional space.

Customer-Focused Design

- Intensifiers are located at front of the machine for easy access during physical inspections and maintenance.
- Removable swinging front doors additionally facilitate the maintenance procedures.

Reduced Total Costs

- The costs of one pump (both operating cost and investment cost) are lower than those of several smaller pumps.
- The minimized number of wear parts of just one pump results in lower operating costs.

More Standard Features

- The high volume STREAMLINE™ pumps have attractive standard features such as softstart, proportional control, see-through doors, etc. Best of all, these pumps are backed by the high level of customer support which KMT WATERJET customers have grown to expect.

Reduced Maintenance

- Just two intensifiers provide full power. Each delivers up to 7.6 l/min, using 100hp. The 150hp pump, which also has two intensifiers for full capacity, is limited to a total output of 11.4 l/min.

Service

- 24-hour (or faster) shipment of stock items.
- same-day emergency shipments, worldwide (7 days per week).
- telephone hotline service for ordering parts and answering technical questions.

Local Presence

- KMT subsidiaries worldwide
- Immediate global field service technician support

Online Shop ORDERLINE ANYWHERE

As a registered customer, you can now order your original KMT spare parts online through our ORDERLINE ANYWHERE portal. Simply look up your part in the electronic spare parts catalogue and add it to your virtual shopping basket. In addition, you can track your orders online and make use of a number of other useful functions.



KMT Waterjet Systems

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