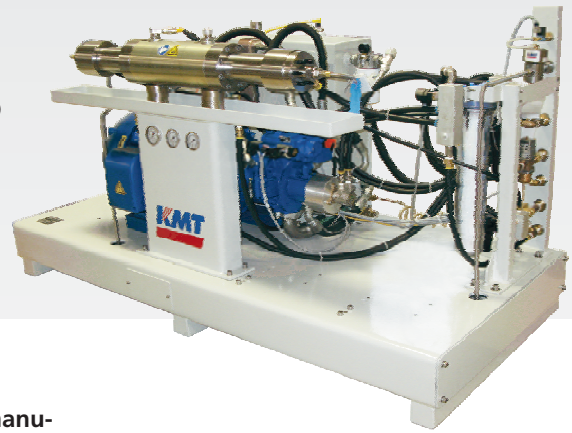
High Pressure Pump
STREAMLINE™ SL-V 30 / 50 OEM

Experts's Technology fits into any Cutting Machine



KMT WATERJET SYSTEMS offers an intensifier manufactured for complete system integration. The SL-V 30 / 50 OEM 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. The SL-V 50 is specifically designed for application operations requiring more powerful cutting.

Compact Size fits any machine
The proven KMT WATERJET technology enables experienced manufacturers of complete cutting machines to be implemented into the entire machine design. Its compact size allows the customer to hide the pressure generating source somewhere in the framework of the machine. All locations which require frequent maintenance are accessable very easily.

Applicable for Pure Water and Abrasive Cutting
The STREAMLINE™ SL-V OEM pumps are designed for flexible production in pure water as well as in abrasive applications. It is dedicated to cutting jobs requiring cutting pressures of up to 3.800 bar. Should higher pressure be needed, use the KMT WATERJET STREAMLINE™ SL-V Plus series. Please ask for our pump brochure.

Junction Box
The intensifier's electrical control panel, motor controls and PLC are replaced with an interface wiring junction box, allowing the system builder to supply all power, control and logic interface to the intensifier from the motion control panel. The entire waterjet cutting system can then be operated and controlled from one convenient location.

Hard Seal Endcap Design (HSEC)
The HSEC intensifier design is common on all high pressure pumps of the STREAMLINE™ SL-V series. Its light design allows to maintain the high pressure by tightening the check valves at the end of each cylinder by means of a small torque (only 48 Nm). In comparison a normal M10 – 8.8 bolt's torque spec is comparable.

Pressure Compensation for Brittle Materials
The integrated dual pressure compensator facilitates the machining of brittle or laminated materials. In order to avoid cracks or delamination a lower pressure is used while piercing into the material. Once the waterjet has pierced through the workpiece completely the operating pressure level can be selected to cut the material at maximum speed.

Options
The pump was designed for experienced Waterjet machine manufacturers with the necessary high pressure technology implementation skills and the ability to add all control and safety features. Optional Kits are available to be installed by the manufacturer.

Summary of Features
- **Easier to Maintain**
  The quick release feature of the plungers allows for easy maintenance, and the threaded cylinder design allows faster maintenance.
- **Flexibility**
  Compact design allows for easy integration into table systems.
- **Longer Seal Life**
  The high pressure plungers use hydraulic power to achieve slower stoke rates, extending seal life.
- **Lower Cost**
  The longer lasting seal design delivers a lower operating cost than on any other high pressure pump.

Technical Data

System Information	Unit	SL-V 30 OEM	SL-V 50 OEM
Nominal Power Rate	kW / PS	22 / 30	37 / 50
Pressure Range *	bar	500–4.137	500–4.137
Max. Water Flow Rate @ Max. Pressure	l/min	2,3	3,8
Theo. Max. Single Orifice Diameter @ Max. Pressure	mm	0,25	0,33
Control Voltage & Power Supply	VDC	24	24
Max. Noise Level	dB(A)	NA	NA
Ambient Operating Temperature	°C	5–40	5–40
Length	mm	1.359	2.168
Width	mm	823	1.000
Height	mm	940	1.139
Weight	kg	953	1.406
Cutting Water			
Min. Inlet Cutting Water Flow	l/min	9,5	13,2
Min. Inlet Cutting Water Pressure	bar (flowing)	2,4	2,4
Plunger Diameter	mm	22,2	22,2
Max. Nominal Strokes per Minute	min-1	34	54
Accumulator Volume	l	1	1
Hydraulic System			
Max. Hydraulic Pressure	bar	207	207
Hydraulic Reservoir Capacity	l	106	151
Cooling System			
Min. Cooling Water Pressure	bar	2,4	2,4
Cooling Water Consumption at 24°C Water Temp.	l/min	9,5	11,4
Options & other Features			
Booster Pump with Filter (adjustable & protected)		●	●
Safety Dump Valve		●	●
Dual Pressure Compensator		●	●
Heat Exchanger (Oil-Water)		●	●
Oil-Air Cooler		○	○
Proportional Control Valve		○	○
* Second Accumulator for 4.137 bar required (with 1l Accumulator working pressure up to 3.800 bar)		○	○

● = *Standard*
○ = *Option*

Maximum quantity of orifices at 3.800 / 4.137

Ø in mm	Quantity of orifices	
0,10	7 / 5	12 / 9
0,15	3 / 3	5 / 4
0,20	2 / 1	3 / 2
0,23	1 / 1	2 / 2
0,25	1 / 1	2 / 1
0,30	- / -	1 / 1
0,33	- / -	1 / 1
0,35	- / -	1 / -

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