

High Pressure Pump STREAMLINE™ SL-V 30-OEM

Expert's Technology Fits Into Any Cutting Machine

Our STREAMLINE™ SL-V 30-OEM is dedicated to all highly experienced Original Equipment Manufacturers (OEM) whose concept it is to integrate the high pressure pump unit into the framework of the machine.

Compact Size fits any machine

The proven KMT WATERJET SYSTEMS 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 accessible very easily.

Applicable for Pure Water and Abrasive Cutting

The STREAMLINE™ SL-V 30-OEM is 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.

New Hard Seal Endcap Design (HSEC)

The new 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.

Junction Box

The junction box provides the interface to the CNC controller of the OEM's waterjet cutting machine, which takes over the intensifier operation using the installed and prewired sensors and switches.



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.

Oil/Water Heat Exchanger included

The standard package includes of an oil/water heat exchanger. Pre-installed connections on the frame bulkhead enable you to connect the cooling water supply to the pump. If the unit runs constantly at ambient temperatures of less than 30°C KMT WATERJET recommends consider the installation of an optional oil/air cooler.

Options

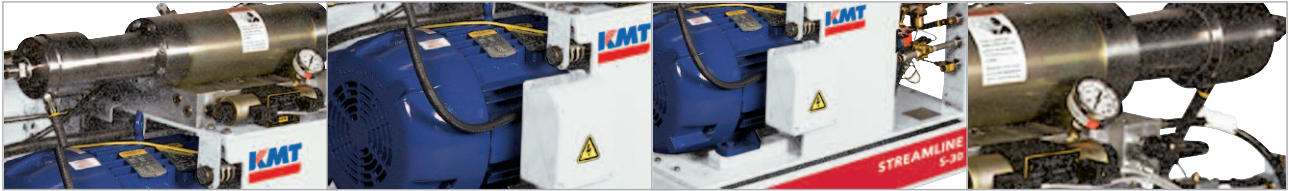
The pump was designed for experienced Waterjet machine manufacturers with the necessary high pressure technology implementation skills and the ability to add all control and safety features. Optional Kits are available to be installed by the manufacturer:

- Safety Dump Valve Kit
- Low Pressure Booster Kit
- Electric control panel
- Oil/air cooler
- Redundant Kit

the application requirements are.

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Technical Data

Nominal Power Rate	22 kW
Max. Flow Rate	2,3 l/min
Pressure Range	500 - 3.800 bar
Current Consumption at 400 V / 50 Hz	43 A
Control Voltage	24 VDC
Length	1.380 mm
Width	823 mm
Height	914 mm
Weight	1.16 kg
Max. Noise Level	<= 75,5 dB(A)
Accumulator Volume	1,0 l
Volume Oil Tank	95 l
Required Water Inlet Pressure	2,4 bar
Required Air Pressure f. Shut-Off Valve	5 - 6 bar
Ambient Temperature Oil/Air Cooler (option)	5 - 30°C
Ambient Temperature Oil/Water Cooler	5 - 48°C
Electronic Reversing	●
HSEC Topwork Design	●
Ceramic Plunger	●
HYPERLIFE™ Seal	●
Dual Pressure Compensator	●
Inlet Shut-Off Valve	●
Quick Disconnect of LP Water Supply	●
Control System (MOELLER MI4)	○
Electric Panel	○
Low Pressure Booster Kit	○
Safety Dump Valve Kit	○
Oil-/Air Cooler	○
Oil / Water Heat Exchanger	○
Proportional Control Valve	○
Accessories	○
Tool Kit	○

Spare Parts Kit	○
Threading & Coning Tools	○
Closed Loop Cooling Systems	○
Waste Water Filtration Systems	○
Water Treatment Systems	○

● = Standard

○ = Optional Features

* = English, Finnish, French, German, Italian, Polish, Spanish, Swedish

** = others on request

Max. Qty of orifices at 3.800 bar

Ø in mm	Qty. of orifices***
0,10	7
0,12	5
0,15	3
0,17	3
0,20	2
0,23	1
0,25	1
0,28	1

*** The maximum quantity of orifices installed can be increased or larger orifice sizes can be installed by reducing the working pressure. Please feel free to contact us for your individual calculation.

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