

High Pressure Pump **STREAMLINE™ S-30**

Advanced Intensifier For Tight System Integration



The advanced Streamline™ S-30 intensifier includes the latest advances in high pressure pump technology but is specifically designed to be operated and controlled by the main motion control software program. It does not have a control panel or enclosure and will not run as a stand-alone unit. 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 be operated and controlled from one convenient location.

S-30 Features

Other than the control panel, the S-30 pump includes the same industry-leading features of the Streamline™ PLUS intensifiers.

Faster, Easier Maintenance

The plungers have a quick release. This design allows instant removal of the plunger.

Lower Cost, Longer Life

This pump utilizes a larger ceramic plunger. The longer, slower strokes of the plunger move more water with each stroke, providing more uptime and longer seal life. A longer life seal design provides reliable and improved production volumes and delivers a lower operating cost than on any other type of pump.

Faster Cut, Thicker Material

Continuous production of 60,000 psi allows for faster cutting and thicker material.

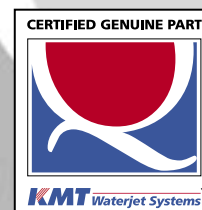
Most Intelligently Designed System

End caps, high pressure cylinder and hydraulic cylinder are all threaded together, simplifying access to the seals. In addition, each side of the intensifier can be disassembled independently of the other.

Excellent Value

With the capabilities of the PLUS-series in an economical package cost, this product is of great value to the end user.

*The **STREAMLINE™ S-30** was designed as part of the complete KMT Waterjet cutting system. Other products include the Streamline™ SL-V PLUS-series pumps, cutting head valves, diamond orifices and the top-performing, industry-leading Autoline™ abrasive cutting head. Please call to discuss your applications or to receive more information on any high pressure component. KMT Waterjet has a network of trained and certified technicians available to provide solutions for "Designed Precision in Waterjet Cutting."*



THE SYMBOL
OF QUALITY



System Information		S-30
Nominal Power Rate		30hp (22kW)
Maximum Continuous Pressure		60,000psi (4,137bar)
Maximum Water Flow Rate @ Maximum Pressure		0.52 gpm (1.97 lpm)
Maximum Single Orifice Diameter (at full pressure)		0.010" (0.254mm)
Number of Language Options on Display		NA
Control Voltage & Power Supply		Must be supplied: 24V DC
Maximum Noise Level		NA
Ambient Operating Temperature		Minimum: 40°F (5°C); Maximum: 104°F (40°C)
Length		44" (1,118 mm)
Width		37" (940 mm)
Height		36" 914 mm)
Weight		953 kg
Cutting Water		
Minimum Inlet Cutting Water Flow		2.5 gpm (9.5 lpm)
Minimum Inlet Cutting Water Pressure		35 psi (2.4 bar) flowing
Plunger Diameter		0.875" (22.2mm)
Maximum Nominal Stroke per Minute (at 52,000 psi, 3,600 bar)		34
Accumulator Volume		0.25 gal (0.96 L)
Hydraulic System		
Maximum Hydraulic Pressure (operating at max water pressure)		3,000 psi (207 bar)
Hydraulic Reservoir Capacity		28 gal (106 L)
Cooling System		
Cooling Water Consumption @ 75°F (24°C) Water Temperature		2.5 gpm (9.5 lpm)
Minimum Cooling Water Pressure		35 psi (2.4 bar)
Options & Other Features		
Booster Pump with filter (adjustable & protected)		Optional
Wye-Delta Starter		NA
Oil / Air-Cooler		Optional
Dual Pressure Compensator		Included
Redundant Topworks		Optional
Proportional Control		Optional
Remote Online Diagnostics (via Modem)		NA
EQUALIZER Networking Kit Compatible		NA

Standard Equipment

- Variable displacement, pressure compensated hydraulic pump
- Efficiency heat exchanger in the hydraulic recirculation pump circuit
- Dual pressure control
- Hydraulic safety shutdown for low oil level and high oil temperature
- Unique leak detection sensing capability

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.
- **Faster Cutting**
60,000 psi is continuously generated allowing for faster cutting and cutting of thicker material.
- **Longer Seal Life**
The high pressure plungers use hydraulic power to achieve slower stroke rates, extending seal life.
- **Lower Cost**
The longer-lasting seal design delivers a lower operating cost than on any other type of pump.

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