



LAS-H350 Continuous Liquid Additive Skid

1. Detachable and modular design. The skid base is an integral piece and the additive tank is detachable.

The module mainly consists of additive tank module, pump module, electricity to driving hydraulic module and control module. The modular design makes LAS system easy and quick to install, disconnect, and transport.

2. A Progressive cavity type pump is used as the liquid additive pump. It is reliable and has a high volumetric efficiency when pumping different kinds of additives with various viscosities.

3. This system uses hydraulics to power the chemical pumps and agitators.

4. The power for its driving system required is 440V/60HZ or 380V/50HZ.

5. The amount of liquid additives added into the suction port of the mix water pump of the cement pumping skid (truck) changes with the fluctuation of the mix water flow rate. The Progressive cavity pump meters the amount of the liquid additives added, and the programmable controller of LAS system automatically adjusts the flow to ensure the reliable and accurate addition of the desired liquid additives.

6. For the convenience of transportation and storage all the modules can be placed together in a standard container.

7. The control cabinet for the skid base has a manual control system; it is designed as a backup system in case the auto control system fails to work.

8. The system utilizes commercially available DOT stainless tanks. Each tank has a hydraulic powered agitator to prevent settling.

Scope of Applications and Features

The LAS system is designed to continuously add liquid additives into the slurry during the process of offshore or inland oilfield cement jobs. It greatly simplifies the storage of base cement materials. That is, the system makes it possible to satisfy various cement jobs that have different technical requirements with only one grade of cement material stored.

The LAS system is a more scientific and rational solution to liquid additive addition. In addition, the LAS system is the most common practice introduced by all the major cementing companies.

For a specific cement job, first input into the programmable controller parameters like code for each required additive and proportion. The LAS system automatically delivers the desired amount of each kind of additive in accordance with the flow rate detected from the cement pumping skid (truck). It is more convenient and less costly than the regular practice because the system ensures the slurry is strictly made up according to the real amount required for a cement job. It reduces the amount of liquid additives usage and also helps protect the environment (less disposal of unused material).

Main Specifications

Total Weight.....	9240 lbs
Overall Dimension.....	20 ft (L) x 6.6 ft (W) x 9.7ft (H)
Voltage.....	380v/50hz or 460v/60 hz
Electrical Motor.....	Abb 45 kw
Hydraulic Pump.....	Parker P2 type heavy duty piston pump
Metering Pump.....	Roper screw 71000 series pump
Agitators.....	Hydraulic driving, speed range 0-180 rpm



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	SCREW PUMP			
	<u>Pump Modular One</u>	<u>Pump Modular Two</u>	<u>Pump Modular Three</u>	<u>Pump Modular Four</u>
Model No.	713025	71201	71202	71205
Working Speed(rpm)	200-1200	200-1201	200-1202	100-900
Displacement (gpm)	0.52-3.12	1.72-10.32	4.04-24.24	5.2-46.8
	TANK			
	<u>Pump Modular One</u>	<u>Pump Modular Two</u>	<u>Pump Modular Three</u>	<u>Pump Modular Four</u>
Length	42	42	42	82
Width	48	48	48	48
Height	51	51	51	51
Volume	350	350	350	550
	INVERTER MOTOR			
	<u>Pump Modular One</u>	<u>Pump Modular Two</u>	<u>Pump Modular Three</u>	<u>Pump Modular Four</u>
Model No.	Fbfc-3.7-4p	Fbfc-3.7-4p	Fbfc-5.5-4p	Fbfc-5.5-6p
Power (kw)	3.7	3.7	5.5	5.5
Max Speed	1440	1440	1440	960