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PLP

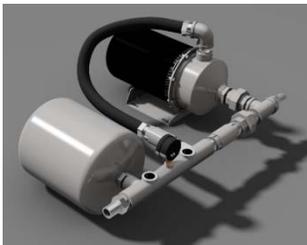
An intelligent device to manage your saw lubrication

Scalable, Modular and Evolutive

The PLP controls and monitors several critical variables on which your production rely on. More than that, it can react to problems arising and fix it before down times occur.

It controls water pressure

Three different options are available to accomplish this. If your water line is above the needed pressure, PLP will be built with a pressure regulator to lower and stabilize pressure. It will also measure it to make sure it is within the range. If your system is around the needed pressure it can be mounted with a pump to insure that the lower limit is not exceeded. If your water line is on the low limit for the process, it can be mounted with a pump on a VF Drive. Which provides a stabilized output.



Whatever option is installed, it will measure and monitor water pressure for alarm and event logging purpose.

It controls air pressure

As a differential of pressure is needed between air and water, water pressure is precisely measure up to 500 times a minute. Air pressure is automatically adjusted to

follow the requested differential. This feature insure that, No matter what appends to water pressure, the check valves will never allow dry run. Not even for a moment.

For high water flow recipe on really tight guide, as in twin or quad, the pressure differential automatically adjusts to allow more water. This appends on freshly shaped guides as the flow is more restricted than on worn out guides. This is caused by the fact that for a given leak orifice, at a given pressure, there is a maximum flow. By lowering the differential, it gives water a higher pressure drop, thus allowing more flow.

It controls water flow

Scalable from 1 to 4 water lines, it offers a wide range of application. From a single arbor gang edger to a quad.

Water lines can be cross-ported to reach higher flow (up-to 11gpm) or can be installed as a redundancy. The redundancy configuration help avoid clogged hoses or damaged components, which causes down time.

Every valve is proportionally controlled and has a close loop controller. The reading of the flow is done by ultrasonic flowmeters. Which means the controller doesn't control a valve position or setting. It controls the flow itself. By doing this it can detect that self-cleaning is required before serious damage can occur, by shutting the machine down automatically.



PLP Flyer April 2016

State of the art controller

The controller used in the PLP allows communication with the machine PLC by Ethernet, serial link or digital I/O (for older machines). This communication set-up, as for any hardware installation, is fully scalable and changeable. Which mean if you want to migrate your PLP from an older machine to your brand new one it is fully possible.

The best part is that you will not need a technician to do this on site. Everything in the PLP's software is already installed. Changing parameters through the HMI is the only thing you'll need to do.

The HMI and the PLC also have web server capability. Allowing you to access it remotely for monitoring purpose or programming. Even with only a smart phone. (Application download may be necessary.)

In the case of software update, there is no tricky procedure nor technical services needed. The PLC software can be flashed through an SD card. This way we will keep working hard to provide you the best performances over the full life of your PLP.

Interesting Features:

- All ports at the same place for easier installation.

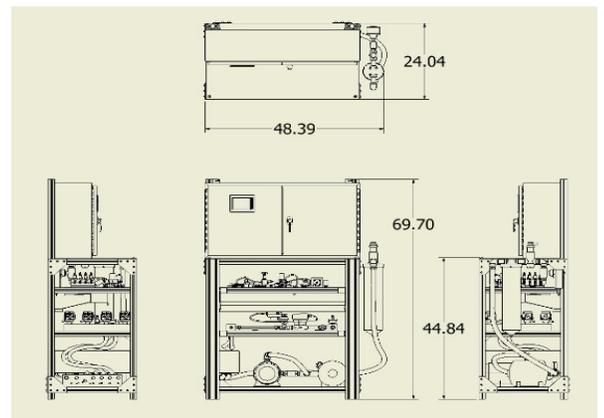


- Components arranged on drawers for easier maintenance.
- Wet components are all made of rust-proof material.

- Can be used in Duplex to feed two different machines¹.
- Input/output Manifold offer possibility to mix water based lubricant with water at the unit or carry mineral oil based lubricant separately to the mixing bloc.
- Available with sequential valve for lubricant metering or our new syringe type lubricant metering system.



- Analog input/output addresses customizable by parameter change. Which allows moving only one in case of damage instead of changing the complete I/O expansion module.
- Event logging allows archiving of data. Like total water quantity per shift or quantity use during idle condition.
- The capacity of measuring water flow gives the possibility to insure lubricant dilution is constant over time.



¹ Relative location and individual need of machines may inhibit duplex capacity.