



Mechatronics from your hydraulic partner

PMC Hydraulics Smart Solutions

pmchydraulics



Worry less, achieve more.

From hydraulic components to programmable controllers and cloud-connected monitoring, we've got you covered. Let PMC handle the integration and programming, so you can focus on what you do best.

SUSTAINABILITY AND COST

- **Condition monitoring.** By using sensors, our particle counter, and our control system, you will be able to change the filters at the right time. This will maximize the lifetime of the filter and keep the oil in the best possible condition. You will also maximise the oil lifetime and reduce the oil changes for a more sustainable hydraulic solution. By utilising the connectivity option, you can get notification directly to the service department.

INCREASED CONTROLLABILITY

- **Machine function.** Through our control system, you can modify the control signal and create a customized response to the joystick. This will create optimised steering and an improved usability for the operator.
- **Advanced hydraulics.** With distributed controllers, you can create internal loops to remove hysteresis or deadband in valves. You can also, with meter-in/meter-out control and position feedback, design systems with PMC poppet valves
- **System design.** Combine the PMC controllers with customised manifolds and poppet valves for a more compact and unique solution.

LONG PRODUCT LIFE CYCLE

- **Upgradability.** The easy-to-use and cost-effective software coupled with a firmware library that covers most needs, makes it easy to add functionality. This means that you can, with or without support from PMC, easily implement upgrades on earlier deliveries to extend your products' life.

LOWER COST

- **Simplify building and repairing.** With a CAN bus solution you will reduce and simplify the work effort for a quicker installation and easier maintenance.
- **Sourcing.** As you will not be locked-in to a unique supplier's hardware offering and also be using open-source coding, you can easily mix different suppliers – Build the best solution!
- **Easier service.** With our two software solutions, Canto and Redi, you simplify error tracing and fault finding, both on-site and remotely. This will give a quicker, easier, and cheaper service and maintenance of the machine.

Application examples:



Plow with sand /salt scatterer

All plow movements controlled from HMI/display in the cabin. Data logging and transmission from control system.

- Automatic pressurisation of plow.
- Adjust amount and spreading width.
- Booster function to change amount of sand/salt using GPS to adapt to changes in demands.



Backhoe and front loader attachment

Control function for attachments installed post-delivery on agricultural tractors. Also includes programmed sequences for extra functions like a bucket shake, support legs engaged.



Harvester head

All functions for harvester head control.

- Wood diameter and length measurement.
- Automatic cutting to desired length.
- Data logging and local storage. Option of cloud storage.



Ferry

Automatic sequences for full functionality of visor and ramp at quayside.

- Complete hydraulic power units
- Hydraulic power units control and diagnostics with remote connection for software updates and online maintenance and service.



PMC Hydraulics Smart Solutions

Simplify your processes and elevate efficiency with our one-stop-shop solution, combining mechanical design expertise with comprehensive control systems. Benefit from seamless integration, remote monitoring, and expert programming.

By combining Smart Solutions with PMC's patented poppet valve design and customized manifolds, PMC can supply you with an energy efficient and compact hydraulic solution to fill your every need and wish.

Adding PMC's CycloneConcept or the COT water remover solution, you will reduce the oil volume, increase the life of the oil, and improve the total cost of ownership for the system.

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