

MGR Fluid Power Ltd

Hydraulic System Portfolio

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What makes a great hydraulic system?

We think the following;

- The cost represents good value
- Your views on the design are represented
- The system performs to your requirements
- The system is reliable
- The system contains all the necessary safety features
- The lead time is reasonable

MGR Fluid Power design, manufacture, install and maintain hydraulic systems. Our capability and knowledge underpins our capability in hydraulic systems. This document describes some of the systems we have designed and built to date. If you have a hydraulic system requirement and you think that our capabilities meet your requirements then give us a call on **01926 420847**.



Milling Machine HPU

This power pack needed to be reliable, working up to 12 hours a day, and controllable. We supplied a system with;

- Remote control pendant for operation at the machine
- Pressure compensated flow control for exact speed control
- An air blast cooler with sufficient capacity to keep the oil at a reasonable temperature.
- A full capacity bund to hold the reservoir oil in case of leakage.
- 50 metres of hose on the A & B lines for remote operation.

Designed and manufactured in 4 weeks.



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Hydraulic Flushing Trolley

We designed and manufactured two hydraulic flushing trolleys for use with Skydrol for flushing aero engines. The trolley had to be portable and fully functional. All parts were resistant to the corrosive effects of Skydrol. The features of this trolley were;

- Large 3 micron filter which clean the oil to a high standard and reduced replacement costs.
- Off line water removal— Skydrol attracts water.
- Automatic particle counter. So you have up to the minute information on system cleanliness.



400 l/min Hydraulic System

This is one of the largest systems we have manufactured and we understand it is used for powering a hose test machine.

The system consisted of the following;

- Two separate pump skids for easy on site positioning
- 1 micron fine off line filtration to keep the oil ultra clean.
- Air blast coolers for temperature control.
- 180 kW of installed power supplying fluid at 200 l/min at a maximum of 207 bar.



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Marine Power Pack and System

We packaged a 90 kW hydraulic power unit in a DNV certified ISO 10 ft container. The power unit contained two separate pump sets, a water/oil heat exchanger, control/starter panel and filtration on the pressure and return lines.

The system was designed and manufactured for use in a marine environment. The power pack was required to control motors that rotated rollers to rotate a cable reel. The control manifold with proportional flow control was also supplied.



This picture shows the container in the background and a 200 Tonne cable reel on the structure. The white manifold controls the flow and direction of the motors.



Hydraulic Sub Assembly

Hydraulic valves in an electrical enclosure, keeping the valves away from the elements in a mobile application. The valves had mechanical overrides so access was required for emergency operation.



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