



# Supplying Hydraulic Solutions.....

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# Company Overview

Since 1985 CFP Hydraulics limited have been proud to be specialists in the design, manufacture and servicing of hydraulic systems, as well as being first call suppliers for major component manufacturers within the hydraulic industry.

From a central UK location CFP can swiftly deal with problems from single component enquiries though to design, build, installation, commissioning and after sales service and refurbishment of complete hydraulic turn key systems.

## **CFP provide:**

- : -Experienced technical design and manufacture of hydraulic power systems.
- : -Installation, repair, maintenance and refurbishment services.
- : -Electro-hydraulic, filtration and reservoir component suppliers.
- : -Suppliers of high pressure work holding and maintenance equipment.
- : -Development of hydraulic systems from enquiry to final commissioning and after sales service.
- : -Top quality components to give maximum reliability.
- : -Fully tested and documented systems before delivery to provide peace of mind.
- : -A certificate of incorporation to BSEN982 hydraulics supplied to meet requirements for the CE machinery directive.

The company has built its reputation on providing a complete turnkey solution to any hydraulic requirement from bespoke single power packs to complete power solutions for major installations in any industry.

The experience and expertise within the core team, along with their ability to meet harsh production deadlines has enabled CFP to become a first call, well respected complete hydraulic solutions provider to a global client portfolio. This portfolio includes many major blue chip organisations and has given CFP a solid position within the hydraulic sector as well as a sought after portfolio of projects.

The on site service and repair team are able to quickly and efficiently diagnose and repair most faults on site or complete a full service. Should a more serious problem occur, the team are able to remove the power unit and transport directly to a fully equipped workshop for complete overhaul and rebuild to ensure minimum downtime of equipment.

The experienced on site stores team can provide most hydraulic components ex stock or on next day delivery direct to site from most major hydraulic suppliers. If the component is no longer available then a suitable replacement will be sourced whenever possible to ensure your packs are kept performing.

# Component Supplies

CFP Hydraulic Systems Ltd has built a reputation within its client base to be able to provide and source any component within the hydraulic industry or offer alternative configurations to keep the end user going when other hydraulic supply companies may fall short.

With a full range of hydraulic components off the shelf, as well as next day delivery service available from all major manufacturers of hydraulic components and supplies, you can always rely on CFP to be your ONE source supply for all your hydraulic needs.



Utilising our extensive breadth of product knowledge; we can provide unlimited solution possibilities. No matter what component you're looking for, or how old and obscure, CFP will source a replacement or alternative solution for you.

With every conceivable component from valves and cylinders to can filters or even the smaller items like washers and seals, you need never look any further than CFP stores to find a solution to your problem in a timeframe and budget to suit you.

Plus with an extensive catalogue of service equipment for both testing and maintenance of hydraulic packs we can ensure your internal engineers are fully equipped for any routine maintenance task.

Our experienced team are always on hand to help you find the component you're looking for to keep your hydraulic equipment running and avoid costly downtime.



ATOS

MP Filtri

JBJ Techniques

Sun Hydraulics

QHP

Hydac

Jason Hydraulic Cylinders

Related Fluid Power

EPP Magnus

Miller Fluid Power

Steerforth

Slack and Parr

Fawcett Christie

Vickers

Rexroth

Parker

Bosch

Danfoss

Aron

Hawe

Raripress

Duplomatic

Enerpac

Marzocchi



# Servicing

CFP Hydraulic Systems Ltd offer professional on site test and servicing of all types of hydraulic equipment. Our experienced team are hand picked for their fault finding, repair and maintenance skills to ensure our customers are guaranteed a highly professional service during every visit.

Their experience covers all types of plant and equipment including systems built using component from all major manufacturers such as Rexroth-Bosch, Vickers, Parker, MP Filtri and Atos to name a few. Each service truck is fully equipped with everything required to fully service and maintain your pack to get you up and running again as quickly as possible.

Working side-by-side with your maintenance personnel, CFP can locate and evaluate issues that may need modifications to better accommodate your unique application, saving you valuable maintenance man-hours and costly equipment downtime.

We also offer a lift and replace service, where your equipment is removed from site, completely overhauled in our fully equipped workshop and returned to you in an 'as new' condition.



Using the latest particle counters, our team can also complete a full condition check of the oil within your systems to monitor their ongoing performance.

This will identify any areas of concern that could lead to possible equipment failure further down the line and reduce production down-time.

All this can be carried out at a time that fits in with your production cycle so that it doesn't affect your business.

Whether you need a single fault find and repair, full service, oil condition check or regular service contract, CFP have the right solution to fit in with your needs and budget.

# Power Units And Systems

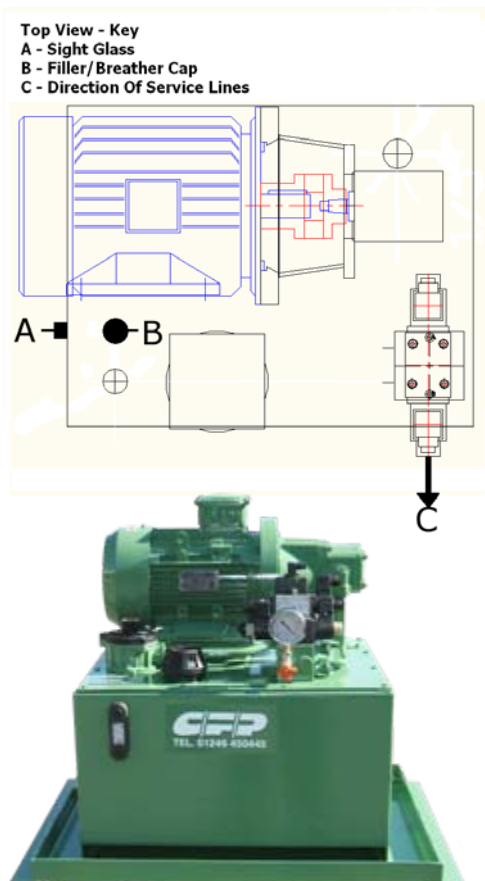
- Standard and bespoke pack builds available.
- 3 Phase & single phase electric motor, diesel & petrol engine, also compressed air driven units.
- Pressures up to 700 Bar ( 10000psi ).
- Fixed or variable delivery piston or vane pumps.
- Most fluids catered for i.e mineral, water glycol etc.
- Electric, manual, pneumatic & hydraulic powered or piloted valves.
- Hand pump back up if required.

## Excell (Standard) Power Packs

A standard range of customisable power packs able to suit most general installation, designed and built in house.

All Excell Packs Supplied Complete With:

- Robust fixed displacement pump.
- Pressure relief valve.
- Pressure gauge and isolator valve.
- Suction filter.
- Lge capacity filler/air breather cap.
- Return line filter C/W visual blockage indicator.
- Options Include:
  - Single or three phase electric motors, diesel petrol or compressed air motors.
  - Fixed gear or vane, variable vane or piston pumps.
  - Electric, manual, hydraulic piloted and pneumatic control valves.
  - Pressure filter C/W visual blockage indicator.
  - Directional control valve – Manual.
  - Solenoid – Pilot Operated.
  - Stackable circuit valves (CETOP 3, 5, & 7).
  - Additional directional control valves and manifold.
  - Level/temperature switch.
  - Electrical filter blockage indicator.



# Excell (Standard) Power Packs



If you're looking to get the most cost effective and reliable solution to your power pack needs, then our Excell range of power packs will suit you:

- From 5 to 20 LPM.
- 70 to 200 bar.
- 20 to 85 Litre Reservoirs.
- 0.75 kw to 7.5 kw Electric Motors.

**Range of basic flow, pressure & 1 off single valve stations complete with relief valve.**

Part No.	Pressure Bar	Flow LPM	Motor kw	Tank Capacity Ltr	Tank Size - L, W, H
05-70-20	70	5	0.75	20	400 x 310 x 325
10-70-55	70	10	1.5	55	500 x 400 x 325
15-70-55	70	15	2.2	55	500 x 400 x 420
20-70-85	70	20	3	85	550 x 400 x 530
05-150-20	150	5	1.5	20	400 x 310 x 325
10-150-55	150	10	4	55	500 x 400 x 420
15-150-85	150	15	5.5	55	500 x 400 x 420
20-150-85	150	20	7.5	85	550 x 400 x 530
05-200-20	200	5	1.5	20	400 x 310 x 325
10-200-55	200	10	4	55	500 x 400 x 420
15-200-55	200	15	7.5	55	500 x 400 x 420
20-200-85	200	20	7.5	85	550 x 400 x 530

## Options on control and condition valves:

Title	Symbol	Part Code
Directional Control Valve		DCV 1
Directional Control Valve		DCV 2
Directional Control Valve		DCV 3
Directional Control Valve		DCV 4
System Unloading Valve		DCV 5
Pilot Operated Check Valve		POC
Flow Control Valve (IN)		FCBO
Flow Control Valve (OUT)		FCBI
Extra Manifold Stations	1 Extra 2 Extra 3 Extra	1 EVS 2 EVS 3 EVS

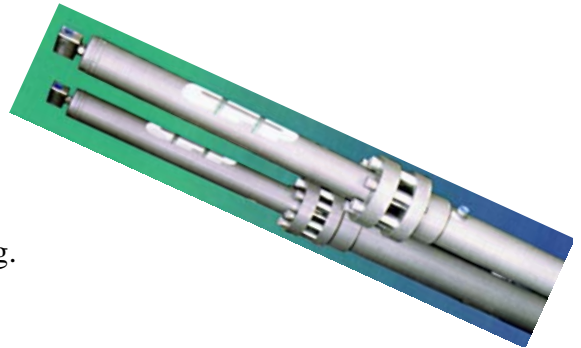
**All Exel range will be fitted with:**

- ATOS Valves.
- M.P. Filtri Tank Accessories And Filter Units
- Exico M Series Electric Motors.

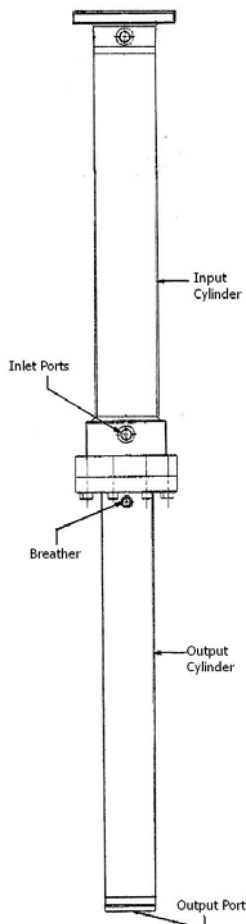
# Pressure Testing System

Designed and built exclusively by CFP, the high pressure intensifier enables users to deliver fluid pressures up to 700 bar at a single stroke. Suitable for use with test mediums of oil or emulsions, the CFP intensifier is the ideal choice for pressure testing of cylinders, valves, containers and vessels where pressure is of critical importance in the testing function. Producing controlled pressures steadily and smoothly without shocks or variances, with an accuracy of  $\pm 0.25\%$  and a smooth pressure change you can accurately and safely check pressure at any point during the test cycle.

- High accuracy pressure testing.
- Enables fast testing of your products.
- Proven and well developed.
- Reliable and easy to maintain.
- Produces controlled test pressures in fluid.
- Absolute constant flow; no jetting or pulsing.
- Output pressures up to 700 bar.
- Cost effective.



Using accurately controlled hydraulic pressure at sub 250 bar levels, the intensifier applies this to a pressure intensification device. This produces secondary pressures up to a ratio of 3:1 of the original hydraulic pressure.



By manipulating fluid in this way, the intensifier can operate with both oil or water mediums. Test volumes up to 2.5 litres are available with either manual or electronic pressure controls.

All intensifiers are built specifically for purpose and to enable correct design, the following information is required:

- Test fluid required
- Maximum test pressure required
- Maximum test fluid volume
- Number of tests required per day
- Duration of test required
- Power source required/available
- Type of pressure control (manual or electronic)
- Pressure readout required (gauge or electronic)

To obtain a detailed specification for your requirements contact CFP Hydraulics who will then be able to design and build the correct type of intensifier for your needs.

# Bespoke Power pack Examples



Last year Airbus contacted Digitron Translift and King Trailers to design, develop and build a hydraulically operated trailer to carry, load and unload the completed wings for the A400M onto a specially built A380 to transport the wings from their manufacturing facility at Felton, UK to Toulouse where they would be fitted to the A400M.

CFP provided the hydraulic packs to control the trailers and commissioned a custom built pair of ALPATEK 4kw, 24dc electric motors. ATOS proportional valves with electronic drivers and built in adjustable ramp were used to control the movement of the conveyor for optimum accuracy. Finally, a remote wireless unit with a hard wired pendant back up from LODAR was used to provide the operator with maximum vision during use and a secondary backup system.



## Further Examples

REQUIREMENT: Pack to drive and engine block test rig for major car manufacturer.

A twin pump and motor set was supplied.



REQUIREMENT: Power pack driven by a Petrol engine to be used to test the load required to insert rail clips for a test laboratory.

REQUIREMENT: 50 packs to power Rubber Extrusion machines for a major manufacturer of Rubber car components. Includes electronic proportional flow and pressure control on the pump, monitored spool valve to conform to Annex 4 machine regulations and a purpose built valve manifold block.



REQUIREMENT: To drive a load test ram for up to 24 hours. A 15 Kw Power Pack with electrical controls at Our customers works prior to installation. The valves ensure that the extend and retract stroke of the ram are at the same speed and load.

# Bespoke Power pack Examples

REQUIREMENT: Pack with hours run meter for accurate servicing intervals, control valve handle position locking, operator pressure adjustment, diesel tank with sufficient fuel for 16 hours running and two equal flows to 100 bar.



REQUIREMENT: Hose Swaging Machine with a submerged Pump / motor set delivering a dual flow to a maximum pressure of 700 bar. The ram is designed for use up to 700 bar and has a stroke of 500mm and the pendant control allows the operator to operate the machine from remote areas.

REQUIREMENT: Twin pump and motor set with pumped filtration system. This power pack has control valves for 16 independent functions and runs on Water Glycol fire resistant fluid.



REQUIREMENT: A fixed displacement pumped power pack on a machine producing car seat slides.

This pack has a monitored Spool valve providing one channel of safety for the machine.

## Beachy Head Lighthouse

Due to erosion, Beachy Head Lighthouse was in serious danger of being lost to the sea forever. The only way of saving this historical structure was to physically move it inland away from the cliff edge. Abbey Underpinning were contracted for this task and immediately contacted CFP to supply the rams and power pack. These were used to accurately control the pull load and rate, ensuring the job was completed successfully and the lighthouse saved.



# Company Quality Control

To ensure complete customer satisfaction, it is the absolute policy of CFP Hydraulic Systems Limited to provide design and site services that fully and consistently meet the agreed requirements of our customers and ensure that the services comply with defined requirements and are fit for purpose.

To demonstrate this commitment to quality to both customers and staff, it is the policy of CFP Hydraulic Systems Limited to achieve and maintain a quality control procedure for all aspects of the company in line with the BS EN ISO 9002 (formally BS 5750Part 2:1987) procedure.

The Quality Policy of the Company is implemented through the operation of the Quality Management System. The requirements of this system are mandatory for all Company personnel and no unauthorised alterations or deviations are permitted unless expressly authorised after review by the Senior Team and Managing Director.

A hard copy of the company quality control procedure is available to all customers and suppliers from the main office upon request. This system is regularly reviewed and updated to ensure continuous high standards of quality of workmanship, with regular management reviews of projects to ensure all standards are continuously met providing a level of quality and customer satisfaction above the industry standard.

# How To Contact Us

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