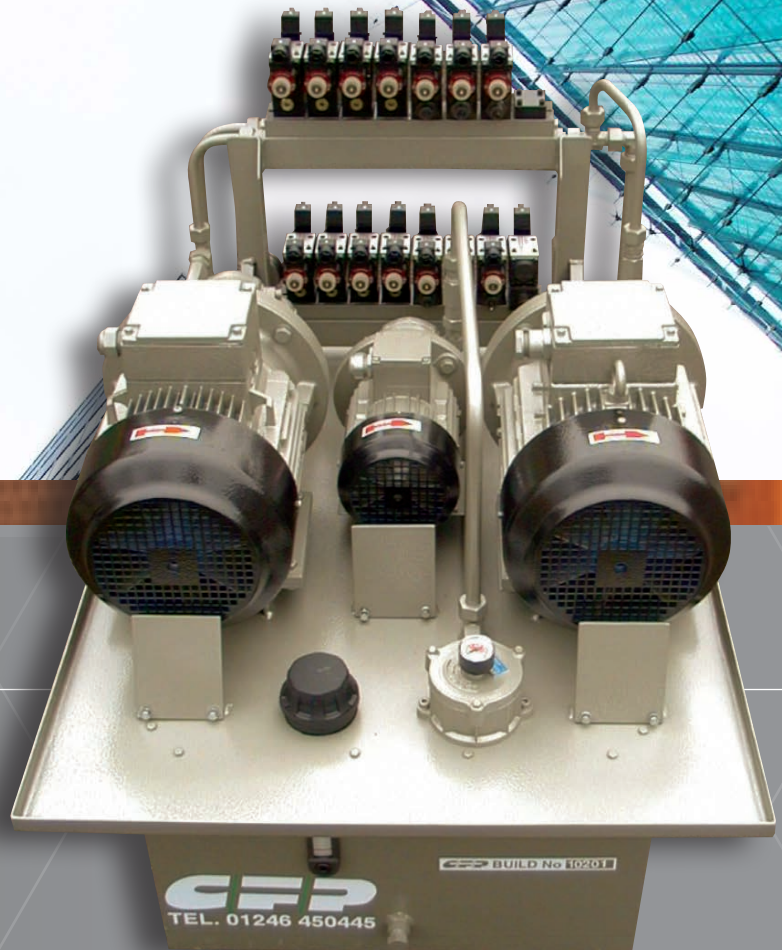


# CHALLENGER



HYDRAULIC SYSTEM SPECIALISTS  
DESIGN | MANUFACTURE | INSTALL | MAINTAIN

TAKING YOUR PROJECT FROM CONCEPT TO BUILD AND BEYOND



- Hydraulic systems
- Design - Manufacture
- Install - Commission
- Fault finding service & repair
- Refurbishment
- Maintenance packages



The Challenger Group name has been synonymous with high quality engineering solutions for nearly 30 years. Manufacturing a range of products and services from hydraulic cylinders and balers to roller conveyors and IBC reconditioning, our core strength is providing professional bespoke engineering solutions.

The Group is split into four divisions;

- ◆ **CFP Hydraulic Systems  
Hydraulic Power Units**
- ◆ **Challenger Hydraulics  
Cylinders**
- ◆ **Comet Fluid Power  
Hose & fittings**
- ◆ **Challenger Handling  
Waste handling machinery, heavy engineering**

All divisions offer a comprehensive design, manufacturing, installation and after sales service for equipment that meets the exacting standards in a diverse range of applications throughout all industry sectors Worldwide. Great emphasis is placed on providing a high level of technical input through experience, innovative design and by the use of 3-D solid modelling to ensure that our products meet the specification and demands of the desired application. Also, accreditation to the ISO 9001 quality standard, within those divisions that have it, helps to ensure that the products that we manufacture are of the highest possible standard.

From a simple hydraulic hose or hydraulic cylinder to a project managed production line – whatever your requirements, the Challenger Group has all the technical experience and manufacturing capabilities to satisfy your needs.



## POWER UNITS AND SYSTEMS

Technology at work for you. If a lack of electrical power is an issue, we can manufacture diesel or petrol driven systems and even provide a transport solution to get the pack to the job in hand.

- ◆ **Standard and bespoke pack builds available**
- ◆ **3 phase and single phase electric motor, diesel and 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 and hydraulic powered or piloted valves**
- ◆ **Hand pump back up if required**

## DON'T LET IT GET THIS BAD

Have you checked the cost of a drum of oil lately?

Call our experienced team to any leaks or other maintenance issues you may have.



## HOW MUCH DOES A LEAK LOSE?

Have you ever thought how much oil your systems is losing through those small insignificant drips and at what cost?

Then see below....

### ONE DROP PER SECOND

1 DAY = 5.4L

1 WEEK = 36.5L

1 MONTH = 155.4L

### TWO DROPS PER SECOND

1 DAY = 11L

1 WEEK = 72L

1 MONTH = 310L

### DROP BREAKS INTO STREAM

1 HOUR = 4.5L

1 DAY = 109L

1 WEEK = 636L

1 MONTH = 2545L



**1 DAY  
= 5.4L**

**1 DAY  
= 11L**

Challenger CFP can offer a maintenance package to suite your needs to ensure things never get this bad. From a fault find, remedial work or service on a single power pack to a fully managed maintenance program for your entire facility.



It really is worth servicing your hydraulic unit. Pictured left opposite are some of the worst we have ever seen. Due to a neglected service schedule.



## IF IT GETS THIS BAD

If you have a pack that is under performing we offer a fault finding and repair service. We can alternatively remove from site for complete refurbishment as illustrated in these before and after shots.

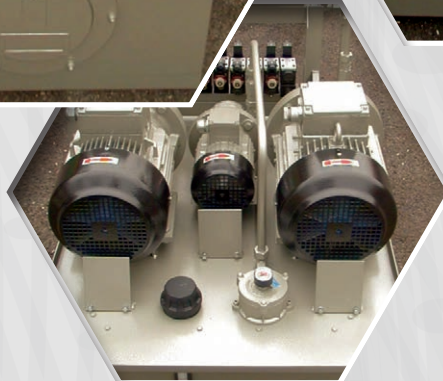
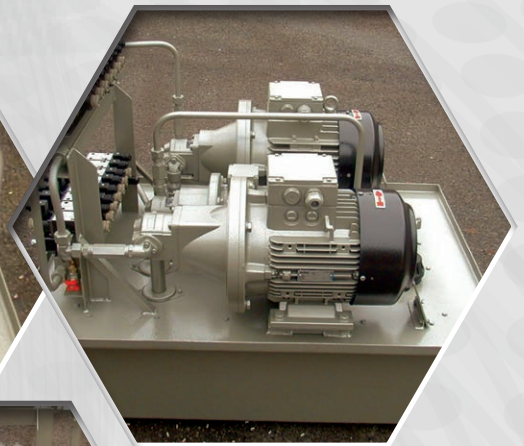
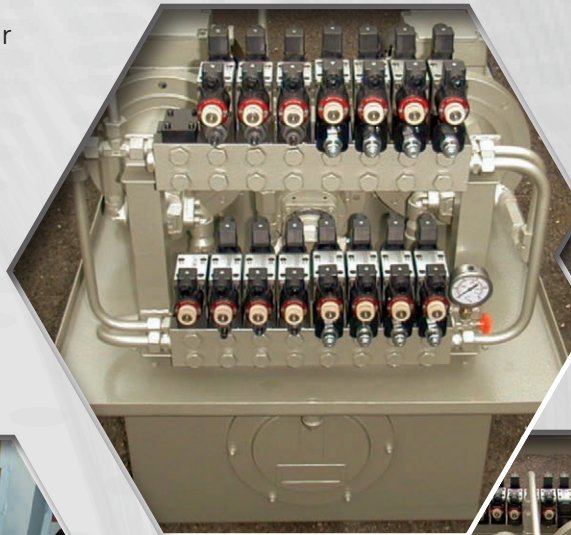


**AFTER**



We of course also offer a full installation and commission service.

If space is an issue we can design the reservoir and component layout to suit your needs.





## FEATURED PROJECT - ANGEL BUILDING COURTYARD

If you ever go to the Angel Building courtyard in London, look up and you will see the wonderful atrium that opens in 7 roof sections to ventilate the area below. The PLC controlled hydraulic system was designed to ensure accurate sequenced opening of the roof sections. This was necessary due to very tight tolerances and sophisticated hinge geometry required to comply with the fire regulations.



## WE'LL COME TO YOU

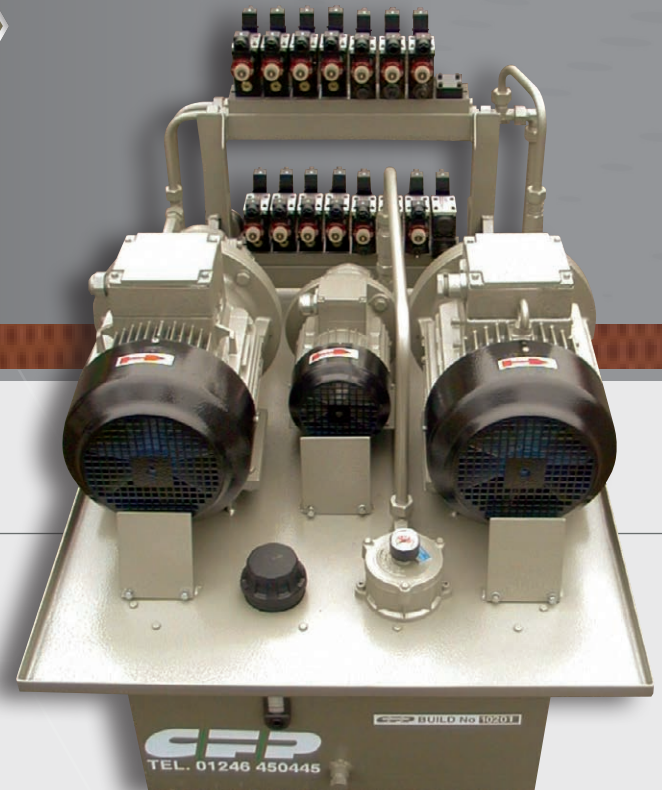
It is always our pleasure to come on to your site, connect and set-up your new power unit to your system requirements using our highly skilled and experienced site engineers.





## FEATURED PROJECT -

One of our larger projects which used over half a mile of hydraulic tube, over 250 hoses, 120 cylinders of various bespoke types supplied by Challenger hydraulics and hundreds of hydraulic connectors supplied by Comet Fluid Power all fitted, tested and commissioned by Challenger CFP.



**CHALLENGER** **CFP**

DESIGN, IMPLEMENT AND MAINTAINING HYDRAULICS

Carrwood Road  
Chesterfield Trading Estate  
Sheepbridge  
Chesterfield  
Derbyshire  
United Kingdom S41 9QB

☎ +44 (0)1246 450445  
✉ [sales@cfphydraulics.co.uk](mailto:sales@cfphydraulics.co.uk)  
🌐 [www.challenger-group.co.uk](http://www.challenger-group.co.uk)