

HCE

ENGINEERING SOLUTIONS

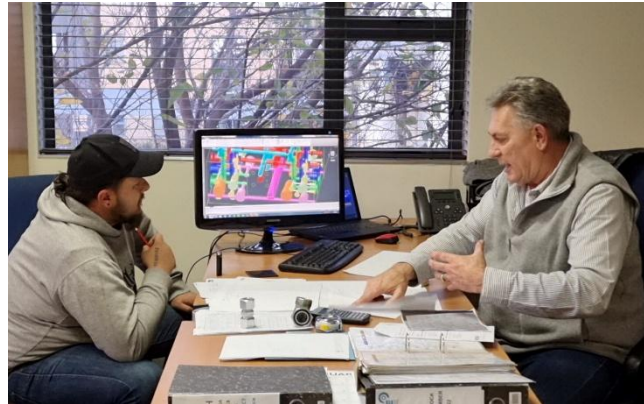
HCE has been in the hydraulic industry since 1997. Our experience is deeply rooted in all sectors of our industry, with on hand knowledge and experience of 4 decades. In 2022 HCE KZN was registered to service Kwa Zulu Natal industrial sector and became our projecting house.



HCE has set our footprint firmly in our industry, providing our clients with engineering projecting solutions. Successfully transitioning our company from manufacturing cylinders to engineering, projecting, consulting, design of small machines and the manufacturing of hydraulic, pneumatic systems, as well as electrical panels and manifold blocks. Our full turnkey solution is complemented with full installation and back up service and advice.

- Engineering
- Consulting services
- Draughting
- Manufacturing
- Fabrication
- Electrical panels
- Testing and Installation

DESIGN, FABRICATION & MANUFACTURE



Throughout a project our clients are kept informed of the projects progress. Testing is performed proving that all functionality of the hydraulic systems meets all standards, requirements and specification.



- Onboarding
- Installations and commissioning
- Data books QCP's, Instruction manuals and certificates
- Systems Upgrades
- Repairs, refurbishment, maintenance
- Fault finding and Diagnostics

HYDRAULIC SYSTEMS



SYSTEMS & INSTALLATION



ENGINEERING, PROJECTING & CONSULTING SERVICES

HCE offers an engineering consulting service in all sectors of our industry and assist companies as an advisory consultant for on-site and off-site projects.

HCE has over four decades of experience in projecting and have assisted from start-up, installation to on-site hot and cold commissioning. HCE covers instruction manuals, data books, QCP's, certifications, as well as on site or off-site training relating to projects. HCE has experience with the development and manufacture of RND projects, and have registered patents of our own. HCE therefor have a fundamental understanding of the inner and outer workings of a project.

RND PROJECTS & SMALL MACHINES



HCE offers a unique approach of providing services to our clients, which we simply termed and coined the phrase.

“Engineering through Partnerships”.

Our vision is to enhance our client's proficiency within their industrial sectors.

Our mission is to work as though we are an extension of our client's company. Providing a strong technical and backup support for our clients.



DIRECTIONAL CONTROL VALVES

Ponar Wadowice S.A is the largest Polish producer and the leaders in the production of oil hydraulic components and systems, and have 6 decades of experience in the industry. Ponar valves are interchangeable with Bosch Rexroth valves and are very well priced in the market and delivers the exact same quality and performance. HCE can attest to both quality, performance and endurance as all the hydraulic systems built at HCE are fitted with Ponar valves. HCE are the sole agents in SA for Ponar.



MANIFOLD BLOCKS AND POPULATION

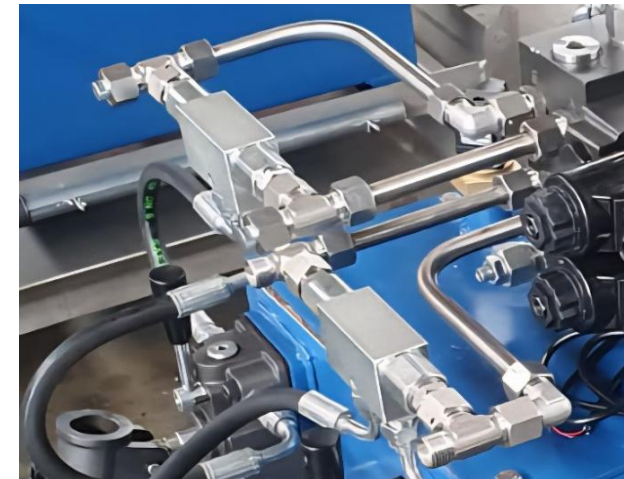


HCE design and manufacture manifold blocks to American, European and Asian specifications. HCE have the ability to manufacture manifold blocks to fit Sun cartridges. All hydraulic systems designed and manufactured by HCE are mostly populated with Ponar valves and Fluid App components.



HYDRAULIC COMPONENTS

Fluid-App is a company with two decades of experience in the design and manufacture of hydraulic valves and component which are used for many applications: from the agricultural to the earth-moving sector, from building to ecology, from transport to industrial vehicles. Fluid App's production plant is situated in Reggio Emilia in the heart of Italy.



HYDRAULIC CYLINDERS

HCE first produced cylinders in 1997 with technology that was brought over from Italy. HCE are able to manufacture all types of cylinders for any specific application and can advise on solutions in regard to design and application.

HCE designed, registered and trademarked our own agricultural cylinder called the "Harvesta". In 2009 HCE designed, developed and patented the Electro hydraulic actuator. Originally designed for the mining sector to facilitate the ease of operation of underground door systems.

In 2019 HCE built the largest pneumatic cylinders is SA, 2250mm stroke, 450mm bore, weighing 832kg and to date have manufactured 22 of these cylinders.

ELECTRO HYDRAULIC ACTUATOR



HYDRAULIC CYLINDERS



PNEUMATIC CYLINDERS



INDUSTRIAL TELEMATICS & CONTROL PANELS

HCE can assist in the integration of electronics on systems. Industrial Telematics is the future and gives us the ability to view, control and access data remotely.



ELECTRICAL PANELS



HCE supply electrical panels either standalone or the panels are accompanied by hydraulic systems. The systems are tested before delivery to ensure that the basic functionality is working. On site installation and commissioning can be arranged if required. USB ports can be installed with speakers. Training videos are uploaded to the units with sound feedback and basic fault-finding instructions.

“ENGINEERING THROUGH PARTNERSHIPS”

The hydraulic industry is facing a significant brain drain, leaving many companies stretched thin and searching for deep technical expertise. At HCE, we’re not just service providers; we’re your hands-on, strategic partners, ready to fill that void. This is why we coined the phrase;

“Engineering Through Partnerships”.

Our clients are increasingly calling on us for more than just a product delivery. They need active, technical guidance on projects, from initial concept to final implementation. That’s precisely what we excel at. With our comprehensive services in engineering, draughting, design, consulting and manufacturing, we seamlessly integrate with your team, providing the specialized knowledge and direction to ensure that projects succeed.

Think of us as an extension of your in-house capabilities, stepping in where you need us most. We provide the technical muscle and strategic insight to keep your projects running smoothly and efficiently, whilst working under our client’s banner.



SPECIAL PROJECTS

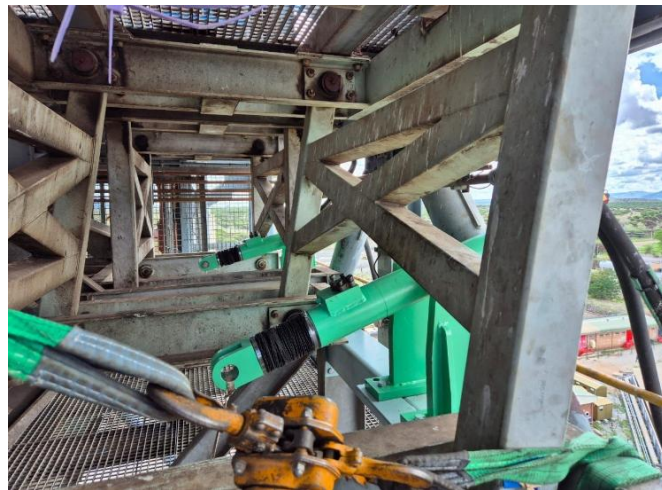
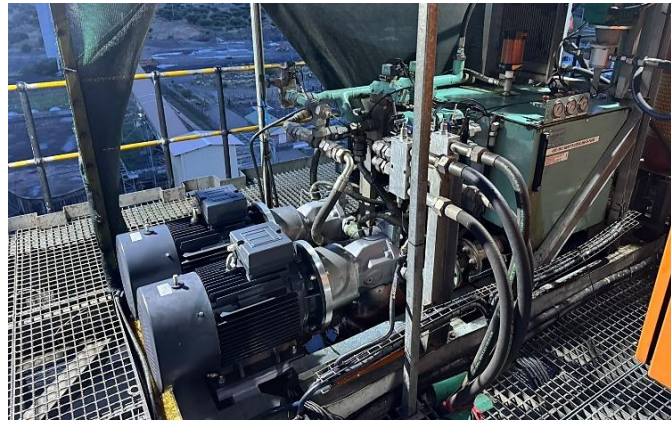
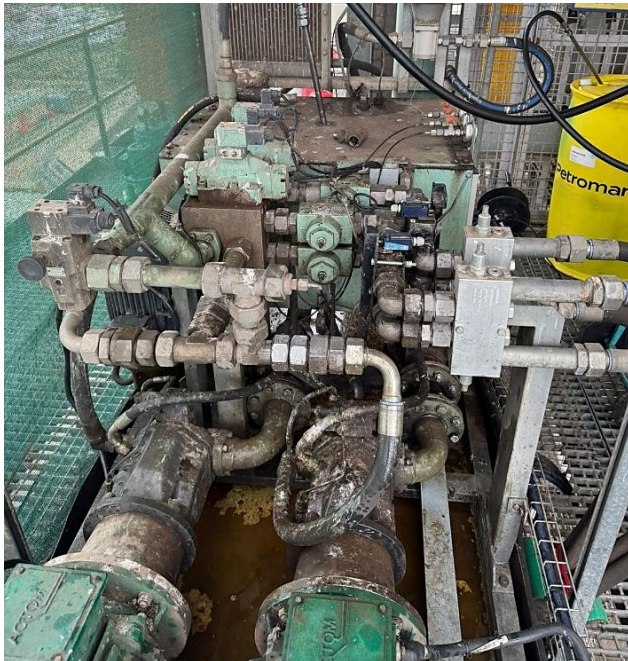


ANNUAL MAINTENANCE

Every year HCE embarks on providing maintenance services within our industrial sectors. This service is usually performed during annual shutdowns. An onsite evaluation of the system will be done two to three months prior to shut down. A report will be submitted regarding the maintenance, keeping in mind the specific concerns of the client.

General maintenance:

1. Revamp of pumps or replacement of pumps and electric motors
2. Inspection of valves and replacement of seals
3. Filtering of oil
4. Checking tanks for debris
5. Cylinder repair or replacement
6. Fitment of new accumulators
7. Repairing of leaks and the replacement of piping
8. General cleaning of equipment



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