

Specialists in the design, manufacture and repair of hydraulic and pneumatic products and gearboxes







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Who we are	1
Mission	1
Vision	1
Meet the team	3
Our philosophy	5
Quality	6
One-stop solution	6
Customer service and collaboration	6
Enterprise development and BBBEE	6
So why us?	7
Anderson & Kerr offers	7
Our facilities and capacity	7
Cylinder production	9
Design: Cylinder	10
Design: Rod surfaces and seal technology	10
Manufacture: Manufacturing and assembly	12
Manufacture: Quality and reliability	12
Cylinder service	13
Repair and re-engineer	14
Life cycle support	14
Products & services	15
Gearbox reconditioning	15
Line boring	15
Value added services: Consulting solutions	15
Value added services: On-site maintenance	16
Comprehensive testing	16
Products & applications	17
We design, manufacture and repair	18
Steel & rolling mills	18
Mining	18
General engineering	18
Marine & offshore	18
sipho Capital Holdings	19
Kholeka Engineering	20
Smith Capital Equipment	21
Mr Coach	22
Anderson and Kerr Cape	23
Grind Right	24



Who we are

Mission statement

Continuously applying the best practices in the design, manufacture and remanufacturing of hydraulic and pneumatic solutions, and the machining of large size/complex engineering services.

Vision statement

Through creating a safe working environment and utilising our experience and knowhow we strive to achieve:

- total equality management systems and processes
- driving down the total cost of ownership
- on time delivery
- alignment with OEM's and customers
- · empowerment of human capital
- investing in state of the art equipment.

Specialists in the design, manufacture and repair of hydraulic and pneumatic products

Anderson and Kerr Engineering (Pty) Ltd was established in 1974 by Mr Anderson and Mr Kerr. In 1983 Japie Coetzee joined the business and acquired full control of the business in 1998. It was during this time that the company undertook major upgrade and immense growth. Through Japie's leadership and experience Anderson & Kerr made major strides in the design, manufacture and remanufacturing of hydraulic and pneumatic solutions. This resulted in the company being the supplier to Komatsu mining in Germany and Komatsu Southern Africa amongst others.

In the machining and engineering services it was at this time that Anderson & Kerr designed and manufactured cylinders as well as undertaking large size machining work for blue chip companies, such as ArcelorMittal, Highveld Steel, Columbus Stainless and Saldanha Steel, Hulamin, Frankwen Forge, FL Schmidt, Hytec, Hydac etc.

In June 2016 Isipho Capital Holdings acquired 90% equity, a deal facilitated by the IDC which not only empowers the business but has in its structure the empowerment of staff. The new investors bring as part of the mandate operational and strategic involvement in the business. Given this transaction, Anderson & Kerr is now a proudly level 4 BBBEE company. This now position the business to retain and extent current customers whilst also pursuing and attracting new customers, particularly in the State Owned Enterprise (SOE), the mining sector, throughout Africa, etc. Isipho Capital Holdings brings with it Smith Capital Equipment which is now a proud customer to Anderson & Kerr for the design, manufacture and reconditioning of hydraulic cylinders.

In our pursuit to entrenching our position as a world class organisation we have enrolled the services of Productivity SA on a 3 year term to implement best practices in lean manufacturing. Coupled with this project we are continuously harnessing the capabilities, experience and knowledge of the total work force and improving safety and environmental issues.





Mr Sipho Mdanda Executive Chairman

Mr Sipho Mdanda, the Executive Chairman, holds a Master's degree in Business Leadership from UNISA and a B.Com Honours - as well as a degree in Education. Sipho is an experienced banker, procurement professional and entrepreneur. His goals include unlocking stakeholder value, creating platforms for young staff to grow and creating a strong sustainable equity base.



Mr Japie Coetzee Managing Director

Mr Japie Coetzee, our Managing Director, holds a degree in Mechanical Engineering from the University of Pretoria. Japie is an expert in the design, manufacture and functional testing of hydraulic equipment. Driven by his passion for large manufacturing machines, he takes pride in providing the best cost-effective solutions possible.



Ms Fortunate Mdanda Director

Ms Fortunate Mdanda, a shareholder and director at Anderson & Kerr, is a highly qualified and experienced Corporate Manager. She holds a Bachelor of Accounting Science degree, Honours Bachelor of Commerce in Auditing and Masters in Business Administration from the University of South Africa. Fortunate is also the CEO of Smith Capital Equipment.

Our team here at Anderson & Kerr consistently work towards outstanding excellence and long practical experience. Our team is fully equipped to help with your hydraulic and pneumatic cylinders, including power packs, weight loaded accumulators, rotary actuators and many more. We are experienced in the fields of Yellow Metal Equipment OEM, Marine and Offshore, Mining and Material Handling, Steel Rolling Mills and many more. Our directors are at the forefront of this excellence, overseeing the activities of the company.

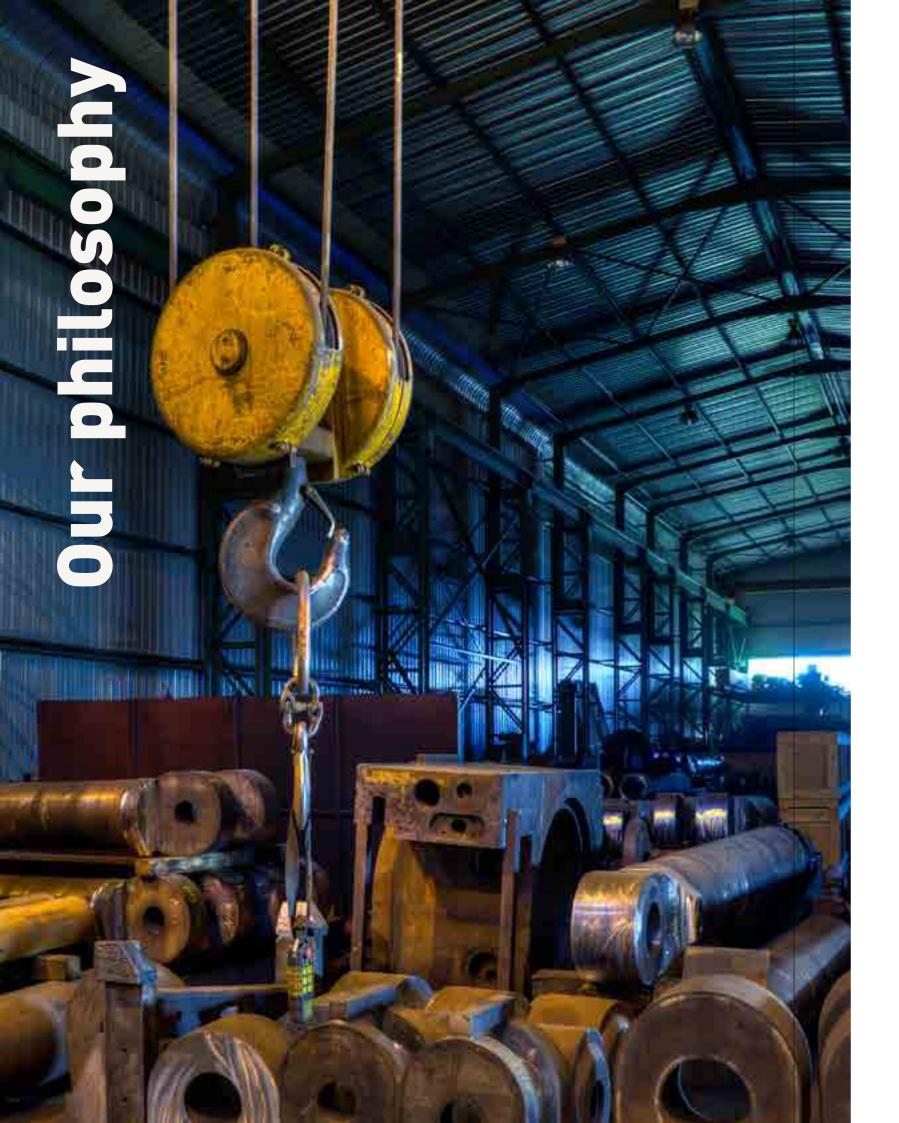
Here we strive to build a great future on a foundation of excellence

Anderson & Kerr believe in staffing people who show innovation and demonstrate customer value. We are constantly looking for new solutions to assist with our customers' unique needs. This is possible through the expertise and experience of our 80+ workforce at Anderson & Kerr. Our team collectively works towards the same goal, customer satisfaction and quality.

Our collective skills are that which sets us apart from others. By ensuring a high level of education in all fields practiced, we provide our workforce with excellent practical manufacturing skills. This level of competence and skill is translated to our end-products. Our main workforce comprises of boilermakers, turners and fitters, spray painters and machinists.







Quality

We are an ISO 9001:2015 accredited supplier and a member of the Founding South African Fluid Power Association. Our experienced engineers, technical and admin staff ensure that we deliver excellent quality to our stakeholders.

One-stop solution

With our focus on long term strategic relationships with our stakeholders we deliver end-to-end solutions; being the design, sourcing, manufacture, assembly and delivery with minimum reliance on outsourcing. In this way we are in control of the quality of the product we produce and at all times meeting the stringent customer requirements.

Customer service and collaboration

At the centre of our DNA is a commitment to meeting and exceeding the expectations of our customers. We manufacture, refurbish and machine components to global OEM standards. We also carry a large selection of service exchange units based on the needs of the customer.

Enterprise development and BBBEE

We strongly believe in supporting the governments' initiative around supporting emerging enterprises in the hydraulic cylinder market. We also strongly believe in creating a training ground for future artisans and in this regard we have partnered with the Ekurhuleni TVET College, Merseta, TLIU, etc and we are constantly exposing and training future fitters and turners focusing particularly on women. We are constantly analysing our procurement spend with a view of identifying products that can be sourced from BBBEE companies.

As of the 1st June 2017, through a 70% equity stake by Isipho Capital Holdings, (funded by the IDC and identified as part of the IDC's Black Industrialist Program) Anderson & Kerr is now a proud Level 4 Black Women Owned business.



Anderson & Kerr offers

- Experienced design capabilities and drawing office facilities.
- Products customised and manufactured to customer requirements.
- Through expertise and experience we are able to provide valuable input to advance product performance and quality.
- Shorter lead times are possible compared to most original equipment manufacturers and European suppliers.
- We pride ourselves in providing high quality products, often surpassing the OEM requirements.
- Owner run business reflects personal care and concern for product quality and customer satisfaction.
- By arrangement we can offer service exchange units to reduce downtime in case of breakdowns.
- Machinery and equipment primarily suited to handle large unit production requirements.
- Due to a combination of conventional and CNC machining, capability production can be adapted from single item to high volume production.

Our facilities and capacity

- Factory area: 10 000m²
- 17 Overhead cranes, max. 50 tons
- 18 Lathes, max. swing Ø1.1m x 11m long
- Horizontal bore mills, max. table size 3m x 3m, carrying weight 50 tons
- 2 Vertical bore mills, max. swing 2.2m x 2m
- 2 Outside diameter grinding machines, Ø400mm max.
- 2 Deep hole drilling machines, max. drill size Ø125
- Honing machines, max. Ø1.1m x 12m
- CNC lathes, max. swing Ø1m x 7m
- Axis machine centres, max. travel 12m x 2.5m x 1.5m
- CNC bore mill, table dimension 2.2m x 2.2m
- 7 Axis universal lathe



Cylinder production

Anderson & Kerr combines three decades of manufacturing experience, intelligent engineering, highly controlled production processes, and a thorough understanding of the unique applications in order to produce large bore hydraulic cylinders that are robust, reliable and cost efficient.

With the facilities to accommodate large-scale production, Anderson & Kerr can manufacture up to 12-meter cylinders in length. Our entire cylinder production process is ISO 9001:2015 compliant. This gives us the confidence to deliver solutions that meet your specific needs.

All reconditioned and newly manufactured items are stringently tested to OEM specifications

DESIGN

Designing for customer application is key. This is done through the use of powerful 3D CAD applications and tested using traditional stress measurement methods. By using the Finite Element Method (FEM), cylinder components are optimised for the loads and stresses they will endure during operation.

Cylinder design

Anderson & Kerr's engineers calculate the longitudinal, radial and tangential forces, as well as the Hoop stress that will be exerted on the barrel of the cylinder while in operation. The shaft of the cylinder is meticulously analysed to ensure it can withstand buckling, compression and unusual loading. The loads that will be placed on the bearing are precisely calculated and then compared to standard ratings. The final design is compared to a force stroke diagram as a final verification. This detailed process ensures a safe, reliable, and cost efficient cylinder is produced.

Rod surfaces and seal technology design

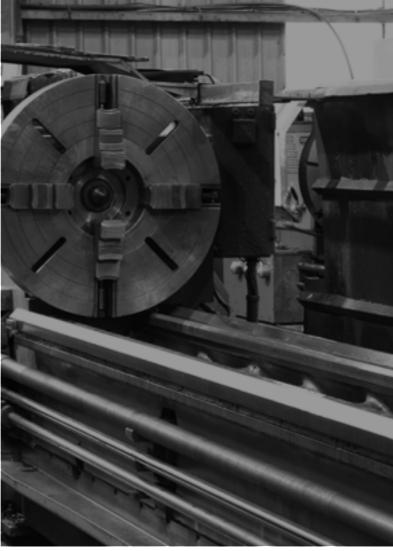
The correct combination of piston rod surface and seal technology is critical in determining cylinder reliability. Anderson & Kerr relies on decades of experience and continuous performance measurements to determine the optimal combination of rod surface and seal technology for each cylinder's application.

Chrome, hard chrome, multi-layer chrome plating and proven HVOF technologies are available for the rod surfaces, depending on the application. Special attention is paid to the surface finish of each rod, to ensure surface roughness is within specification. Depending on application, there are various surface coatings available.

Selecting the correct seal requires an understanding of the friction, lubrication and wear on the rod surfaces and seals in the application process. The individual profile design of each seal type shows specific characteristics that need to be in line with the application requirements. Only the highest quality seals used from the world's leading seal manufacturers are applied by Anderson & Kerr.









MANUFACTURE

By continuously applying world-class best practices in the industry we are creating products with lasting quality to help you achieve your own targets. We are no stranger to our products working under harsh conditions; therefor we give special care to durability, excellence, efficiency and reliability. Anderson & Kerr is one of the largest distributors to the mining industry in South Africa as well as bordering countries.

Manufacturing and assembly

Anderson & Kerr have the fundamental skills when it comes to the manufacture and assembly of piston rods and cylinder tubes. The manufacturing accuracy of each component part is critical for the successful functioning and long term reliability of large hydraulic cylinders. In order to consistently achieve the required tolerances, state of the art boring, turning, and milling centers are used throughout the production process, while advanced welding technology ensures reliability in any application.

Quality and reliability

The manufacturing process of a new cylinder is carefully controlled at every stage. Ensuring the production of a product that guarantees reliability and a long service life. The quality management process of Anderson & Kerr used to control design and manufacture, is certified in accordance with ISO 9001:2000. Additionally, all welding is done in accordance with required specifications. Our processes and products have been consistently approved by classification societies such as Lloyd's Register, ABS and DNV.



Repair and re-engineer

At Anderson & Kerr we do not merely repair a cylinder; we reengineer it. Our repair process begins with a complete root cause investigation of the failure mode of a damaged hydraulic cylinder. This process often begins with an on-site inspection of the hydraulic cylinders in their environment. This is to determine if the root cause comes from the hydraulic system as a whole or within a specific component.

If it is established that the root cause of the failure mode is the hydraulic cylinder itself, focus is placed on the engineering of the hydraulic cylinder. The durability of each specific component is inspected for accuracy. The cushioning design and rod surface finish is analyssed in conjunction with the seal configuration to ensure they are all correct and functioning.

The hydraulic cylinder is then re-engineered in accordance with the results of the investigation. Resulting in a hydraulic cylinder with improved operations and reliability.

With all the resources in place we can remanufacture all your large scale components

Life cycle support

Anderson & Kerr offers lifetime global life cycle support on all our hydraulic cylinders. From supported installation, commissioning and training, to repair, and recertification. All new hydraulic cylinders are supplied with detailed operating and maintenance manuals. Technicians are also available for on-site troubleshooting and technical assistance.



Anderson & Kerr Engineering offers integrated solutions specific to your business and cylindrical needs. We are specialists in the design, manufacture and repair of hydraulic and pneumatic cylinders and power packs. We take care of every process when a cylinder comes to our workshop; from design, manufacture, service and testing, to painting and installation. We have a dedicated team of engineers and draughtsmen who work according to OEM specifications to produce all necessary components.

Gearbox reconditioning

We are constantly trying to produce cost effective solutions for our customers, and gearbox reconditioning is an important part of our process. Reconditioned gearboxes cost a fraction of the price and time of new gearboxes. While the cost is significantly lower for a reconditioned gearbox, the quality remains of the same high standard as a new gearbox. As with all our other products, we manufacture all reconditioned gearboxes according to OEM standards.

Line boring

There are a couple of reasons why a product may no longer function correctly; old age, lack of grease, high carrying loads or other determining factors. Our workforce is there to skillfully apply their experience to quality line boring.

VALUE ADDED SERVICES

When you purchase an Anderson & Kerr product, you are also receiving a strong commitment from us. We provide consulting solutions as well as on-site maintenance for all customers. We believe in close working relationships with our customers to understand our customer's need and how we can assist.

Consulting solutions

We offer a comprehensive consulting solution to all our clients. This service was created to ensure the productivity of your business grows while we create custom-made solutions fit for your business. Our consulting services are there to deliver a comprehensive understanding of the operational requirements and to learn of any operational challenges that might be experienced in implementing new solutions in order to offer an efficient solution. We are there to further help identify any gaps overlooked within your business that can result in potential improvements.



On-site maintenance

To help customers optimise the performance of their machinery, we offer on-site maintenance. We believe this to be a big factor in saving our clients' time and day-to-day running expenses. Most importantly, we ensure their hydraulic and pneumatic machines remain in top condition for optimal production. Technicians are available to assist with installation, and where required, operating manuals can also be supplied.

Comprehensive testing

Our last process before shipping is the function testing of all products. This ensures we only send out quality of the highest standard. Accompanied by your same-as-new cylinder, we also include comprehensive maintenance manuals, as well as a test certificate, material certificate, heat treatment and other related testing certificates and processes as required by the customer's specifications.





applications **Products**

Anderson & Kerr covers the full spectrum of large bore hydraulic cylinders for use in all applications. All cylinders are available with optional integrated measuring systems, limit and proximity switches, integrated valves, stoke dampening, application of specific rod coatings, and adapted sealing systems.











We design, manufacture and repair:

- Descaling valves
- Hydraulic power packs
- Manifold blocks
- Weight loaded accumulators
- Heavy engineering components
- Mill spindles
- Fan shafts
- Continuous caster segments

- Hydraulic cylinders
- Heavy duty industrial cylinders
- Pneumatic cylinders
- Slipping units for electric air furnaces
- Rotary actuators
- Rotary joints
- Cartridge valves
- Coiler mandrels

Steel & rolling mills

- Ladle turret cylinders and lifting
- Swivel joints
- Segment clamp cylinders
- Gauge control blocks
- Capsules
- Coiler mandrel expand & collapse cylinders
- Distributor/Rotary feed units
- Coiler wrapper roll and transfer

- Roll change cylinders
- Furnace tilt
- Re-heat furnace WB
- Electrode regulating & lift
- Pusher cylinder
- Stripper cylinder
- Spindle balance
- AOD vessel exchange
- Slipping device

Mining

- Stackers & reclaimers
- Bucket wheel & crawler steering
- Spreader cylinders
- Rail clamp brake cylinders
- Roof anchor & equipment recovery
- Hard rock mining stabilizer block
- Excavators, face shovels & back hoe's

General engineering

- Dump cylinder
- Mold squeeze
- Sluice gate cylinder
- Billet press
- Servo cylinder
- Weight loaded accumulators

Marine & offshore

- Heave compensator
- Mooring winch compensator
- Winch drum

- A-frame luffing
- Cable drum lift
- Propeller service lift

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The world of private equity solutions is exciting, dynamic and often turbulent. No two days are the same. It requires insight, a well-considered strategy and above all, a winning attitude. At Isipho Capital Holdings, we believe in a partnership model that involves accepting risks and sharing in the upside with all our partners.

In everything we do, we bring to the fore extensive banking experience and are always on the lookout for businesses with a unique market position coupled with strong cash generation. This is where we align our interest with those of our partners - creating the incentive for maximising shareholder value.

To provide strategic, financial and technical value-add to investee companies, while giving management teams the autonomy to run the business.

New world investments require a new way of thinking

The company is run by husband and wife team Sipho and Fortunate Mdanda. Both are at the forefront on South Africa's new wave of Black industrialists.

Isipho Capital Holdings (Pty) Ltd is a proud Level 1 Majority 65% Black Women Owned company. We manufacture in South Africa, contributing to local employment, skills development and our country's export market. We are proud to have also set up a trust where Management and Staff enjoy a share in the company's success. This is how we assist our country to pursue broad-based empowerment goals.

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Kholeka Trailers and Truck Bodies have been producing commercial vehicle and trailer bodies since 2003 and are based in Durban, KwaZulu-Natal.

The custom-built property has plenty of room for the fabrication team to process large chassis; from cutting and bending, through to spraying in the 3-bay spray shop. Since opening its doors, Kholeka has manufactured a massive range of vehicle bodies that were customised to specific tasks. Kholeka's impressive client list includes the eThekwini Municipality, MAN Trucks, Mercedes Benz, Nissan, FUSO/Mitsubishi, Hino, Isuzu, Hyundai and Tata.

Commercial vehicle body, truck and trailer manufacturers

Kholeka Engineering (Pty) Ltd is Level 1 valued added BEE (Black Economic Empowerment) rated; thereby qualifying it as an empowered supplier to both state and corporate clients. This affords clients a 135% procurement spend advantage.

Automotive applications

- Panel vans
- Tippers
- Taut-line bodies
- Water & vacuum tankers
- Storm water maintenance
- Luxury safari vehicles

- Roll-back bodies
- Fire support vehicles
- Flat deck bodies
- Crane bodies
- Cherry pickers
- Electricity installers

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Smith Capital Equipment (Pty) Ltd is a Lifting Machinery Enterprise. We have the most registered Lifting Machinery Inspectors in the industry, and our trainers are accredited by SETA. Smith Capital Equipment is 100% BBBEE Compliant with a Level 2 Rating and we are an ISO 9001:2008 accredited company.

With over 40 year's experience, Smith Capital Equipment is committed to providing our clients with solutions and not just products. Through our full range of Aerial Platforms we cater to our client's specific needs and can supply aerials which can reach between 10 and 100 meters in working height. Our world class product offering includes both insulated and standard models.

Smith Capital's market leading post and poles-hole drills are used for erecting powerline poles and various utility applications. We specifically design and manufacture reverse circulation drilling rigs used for exploration drilling in mining applications.

A majority black woman owned aerial platforms, truck-mounted cranes and drilling rigs manufacturer

Our brand new line of Knuckle Boom Cranes has already played a large role in supporting some of the most prominent industrial companies across South Africa. We are the authorised distributors of PM Truck Mounted Cranes, the fourth largest manufacturer of knuckle boom cranes and the fastest growing in the world. Smith Capital Equipment utilises new innovative technology in the Utility, Municipal and Mining sectors.

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Mr Coach is South Africa's leading and Africa's fastest growing panel van and truck conversions company with a Level 1 65% Majority Black Women Owned rating. Established in 2005, Mr Coach offers a comprehensive range of custom-built conversions to suit any industry; from medical and office to the taxi industry.

We convert panel vans and trucks into people transporters; taxis, tourist buses, mobile homes, mobile clinics, ambulances, mobile labs and other special conversions.

Our name is renowned for good quality, attention to detail and quick turnaround times. Our commitment to our customers starts with understanding the needs of their business. We then match them with our expertise and a dedicated team of engineers that work with them. Starting with the initial drawings in order to deliver a solution that perfectly satisfies their transportation needs.

Mr Coach taps into the expertise of the Isipho Capital Holdings group of companies to deliver cutting-edge solutions for any industry.

Unmatched luxury in vehicle conversion

For us the major motivation is ensuring that the ordinary end user or commuter will feel the comfort of our product side by side with the quality of the manufactures product. The manufacturers' panel van, which is precision engineering at its best, needs to have a converted interior that will complement the already existing world-class quality...Mr Coach provides exactly that compliment.

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Having started as a humble service centre in 2002, Anderson and Kerr Cape (PTY) LTD rapidly expanded and took occupation of their new workshop in 2006. The company has since become a major role player in servicing both the local industry as well as the marine off-shore industry, and services clients as far afield as Sishen, Kimberly, Cape Town and Walvis Bay in Namibia.

The 2 000m² spacious workshop of Anderson and Kerr Cape offers unrivaled repair and manufacturing facilities in the area.

Specialist manufacturers of high performance hydraulic equipment for demanding applications

Machining capacity

- Descaling valves
- Hydraulic power packs
- Manifold blocks
- Weight loaded accumulators
- Heavy engineering components
- Mill spindles
- Fan shafts
- Continuous caster segments

- Hydraulic cylinders
- Heavy duty industrial cylinders
- Pneumatic cylinders
- Slipping units for electric air furnaces
- Rotary actuators
- Rotary joints
- Cartridge valves
- Coiler mandrels

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Grind Right

Grind Right Engineering (PTY) LTD was established in 2005, and has a well equipped manufacturing facility totaling 2 500m² in Middelburg, Mpumalanga.

Services include

- · Precision machining
- CNC machining
- fabrication site work and installation on site
- core drilling
- line boring
- as well as the manufacture and reconditioning of:
 - » Ferrous and non-ferrous bushes and liners
 - Rolls wheels and shafts (standard and hardened)
 - Buckets, sticks and booms
 - Hardened pins and bushes for all earth moving equipment
 - » Site crews are available for installation, maintenance, erections, fabrications, specialised welding, surveys and on-site line boring.

Main facilities and capacity

- 2 Cranes: Lifting capacity of 10 ton each
- Turning: (Conventional) Ø1 500 x 9 000 CNC milling 4 axis between centres
- Vertical boring Ø2 200 x 1 200
- 2 Horizontal boring mills Ø110mm spindle
- Honing Ø400 x 3 000
- On-site line boring Ø45 to Ø400
- Turning: CNC Ø760 x 2 000 between centres Welding: 500 Amp CO2, TIG and weld manipulators

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Stay in touch

