



HYDRAULIC CYLINDERS -  
A COMPREHENSIVE  
CAPABILITY

**SABS**  
ISO 9001





Kappa Engineering was founded by Gerhard Hauptfleisch in 1987 as a general engineering company specialising in the manufacture, assembly, testing and repair of hydraulic cylinders.

### Industries we support

- Mining
- Earthmoving
- Drilling and exploration
- Waste removal

The Kappa group is strong in the underground trackless mining markets, in earthmoving, drilling and exploration, and in the waste removal market, all of which require different sizes and different shapes of hydraulic cylinders.





## PRODUCTS AND SERVICES



<b>Core Products</b> <ul style="list-style-type: none"><li>• Kappa 250 series</li><li>• Kappa 350 series</li></ul>	<b>Accessories</b> <ul style="list-style-type: none"><li>• Pistons</li><li>• Rods</li><li>• Clevis</li><li>• Bases &amp; rods</li><li>• Seals</li><li>• Cylinder kits</li><li>• Barrels</li><li>• Bearings</li><li>• Glazier bushes</li><li>• Valve blocks</li></ul>
<b>Standard Hydraulic Cylinders</b> <ul style="list-style-type: none"><li>• Welded cylinders</li><li>• Milled cylinders</li><li>• Tie-rod cylinders</li><li>• Telescopic cylinders</li></ul>	

### Repairs

Kappa has a dedicated repair department to ensure that DOWNTIME turns into PRODUCTION TIME. Repairs to all types of hydraulic cylinders are carried out to the highest quality standards.

### Three Steps:

1. Stripping, assessment and proposal
  - Individual quotation number tagged to cylinder and associated parts, ensuring traceability back to the customer at any stage during the repair process
  - Components stripped and cleaned
  - Spare parts kept together in bins to eradicate contamination with other cylinder parts
  - Failure analysis and damage assessment
  - Itemised and transparent proposal
2. Customer go-ahead
  - Contract review to ensure Kappa's understanding of customer's specific requirements
  - Route sheet and job number allocation
  - Drawings made according to specification
  - Cylinder repaired to exact specification
  - First and final inspections carried out in accordance with ISO 9001:2000
  - Pressure testing carried out using new-cylinder procedures
3. Packaging and delivery in optimal refurbished condition



# TECHNICAL CAPABILITIES

## Design

Kappa Engineering has all the latest design packages, including AutoCAD 2009.

## Stock

At any one time, we carry stock of more than 600 tons of tubing, and 200 tons of cylinder chromed rod and cast iron.

## Honing

We have 21 honing machines capable of honing diameters of up to 1 metre and lengths up to 20 metres.

## Chroming

Our grinding and chroming equipment enables us to grind and chrome cylinder rods up to 1,2 metres in diameter and lengths up to 10 metres. We have facilities to strip and repair chromed products.

## Machining

Kappa has a full complement of highly experienced, comprehensively trained fitters and turners. Machining is carried out to customer specification using the most sophisticated CNC machines on the market.

## Quality

Kappa has gone beyond the procedures required by its ISO 9000:2001 listing, improving each and every system and procedure to maximise all aspects of quality, and reduce lead time to a minimum.





## OUR PROMISE TO YOU



### **Tradition**

Since 1987, Kappa Engineering has specialised in the manufacture, assembling, testing and repair of hydraulic cylinders for applications in mining, earthmoving, transport, agriculture, waste and exploration.

Some 140 people work within the Kappa Group as one team towards personal growth and the success of the group as a whole.

### **Reputation**

Kappa's motto is: Building a reputation. Not leaning on one.

Our continuous efforts to provide more than a conventional service to our customers, to create our own identity and reputation through innovation and commitment, ensure that we are a leading force in hydraulic engineering.

### **Vision**

We aspire to be a leader in general hydraulic precision engineering through partnerships we have with our clients and our employees. Building a reputation not leaning on one, we strive to identify the requirements of our clients and produce outputs which conform to these requirements.

### **Mission**

We are committed to producing our services consistently and efficiently, thereby growing the wealth of our shareholders, employees and clients through maximised profits, and contributing more to our communities, societies and the country.

Discover ...

The world of hydraulic cylinders

[www.kappaeng.co.za](http://www.kappaeng.co.za)



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