



## Field Service & Project Management

CA108 Revision 02



# About Us

### ❑ Company Summary

- Adlam Engineering (Pty) Ltd, based in Boksburg, RSA, was established for the purpose of manufacturing mining and industrial components by turning, milling and welding operations. We Engineer, design and manufacture mining equipment and also replacement parts for the surface and the underground industry. We offer our expert experience and constantly invest in the latest CNC machines, tooling & software

### ❑ Consultation / Inspections

- State of the art software and equipment is used.
- The Complete Management of any Project

### ❑ Gearbox Overhauls, Upgrades and Rebuilds

- Any gearbox type, age, make or size can be upgraded or rebuild up to (or exceeding) original OEM specifications.
- Drop-in replacement parts are available.
- Any Improvements on the Gear Train can be designed.
- 24 hour Support.
- Fast deliveries
- Superb Quality as we are ISO-9001 accredited
- Your one-stop-shop

### ❑ Custom Build Gear Drives

- True custom designed and full manufactured gearboxes, with no compromises.
- No catalogue limits.
- Quick delivery times.
- Any type and size gearbox.
- Customer interaction.

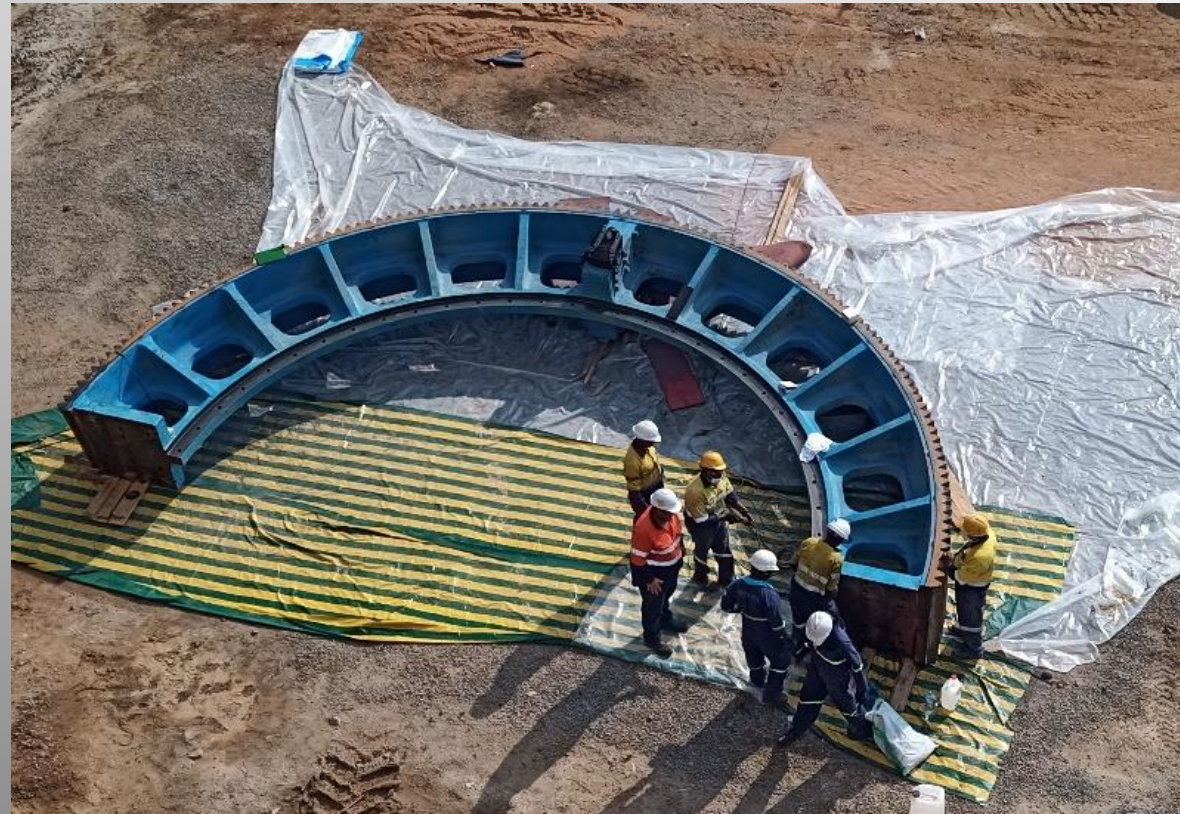
### ❑ Replacement Parts

- Any machine component can be designed, re-designed or even reverse engineered & manufactured accordingly.
- Up to (and exceeding) OEM standards.
- Flexible in-house component manufacturing capabilities.
- Over 45 years experience in manufacturing,



## Our Capabilities

- Adlam Engineering (Pty) Ltd professionally designs industrial gear drives, and applicable AGMA, ISO and DIN Standards are used throughout the gear calculations.
- We still value our customers and our personal interaction in order to understand their complete requirements and thus design and build true custom-made gearboxes, with no compromises or catalogue limits and delivery at the earliest possible time.
- Latest software is used and Finite Element Analysis (FEM) are used on gearbox housings and gears.
- Optimized gear and contact analysis of the complete gear train is done with bearing calculations according to the latest industry standards
- Adlam Engineering offers Product Support with full technical assistance on your general queries, daily tasks or breakdowns.
- Installation, commissioning, maintenance and also repairs can be done by our Technicians
- Alignment, Vibration Analysis & Balancing, Failure Analysis and Condition Monitoring
- We have the expertise to resolve any issue that might arise with regards to our own, as well as other suppliers', products.
- We produce accurate and reliable results due to comprehensive technology being used and excellent product knowledge.



# Area and Industry



### Area

Our reach has no limits, with our Technicians being able to travel to any location in South Africa, as well as outside our borders. This includes, for example,:

- Democratic Republic of Congo
- Tanzania
- Zambia
- Namibia
- Zimbabwe
- Botswana

### Industry

We operate in all major Industry Sectors:

- Mining Processing
- Paper & Pulp
- Sugar and Starch
- Aggregate
- Steelmaking
- Marine



# Your Complete Solution

## 1. Consultations



Product Support with full technical assistance on general queries, daily tasks or breakdowns.

## 2. Diagnostics / Failure Analysis



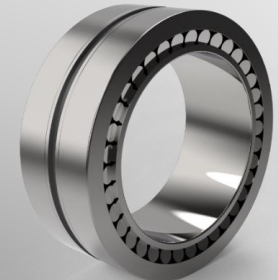
Condition Monitoring; Vibration Analysis; Leak detection and Ultrasonic Testing; Machine Protection; Lubrication Particle Counting; Power Monitoring

## 3. Turnkey Project Management



Possibility for custom-made units, designed to fit in with customer requirements and constraints, and manufactured in-house.

## 4. Technical Data / Information



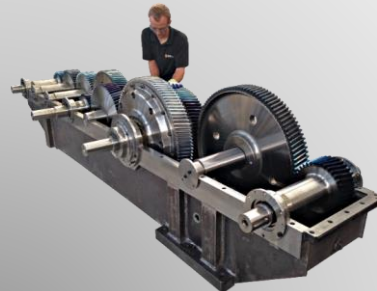
Professionally designed Industrial Gear Drives, taking AGMA, ISO and DIN Standards always into consideration.

## 5. Installation & Commissioning



New or Refurbished units, according to the design parameters as intended.

## 6. Specialist Technicians



Full support to our customers with early problem detection thus reduced repair costs.

## 7. Maintenance & Repairs



Shaft and Pulley Alignments; Bearing replacements; Possibility of entering into maintenance contracts

## 8. Overhauls, Upgrades & Modifications



Any Gearbox type, age, make or size can be upgraded, rebuild or modified up to OEM standards, or exceeding.



# 1. Consultations



It is only by being aware of our customers needs / wants and expectations that we are able to design, develop, build and deliver according to customer satisfaction

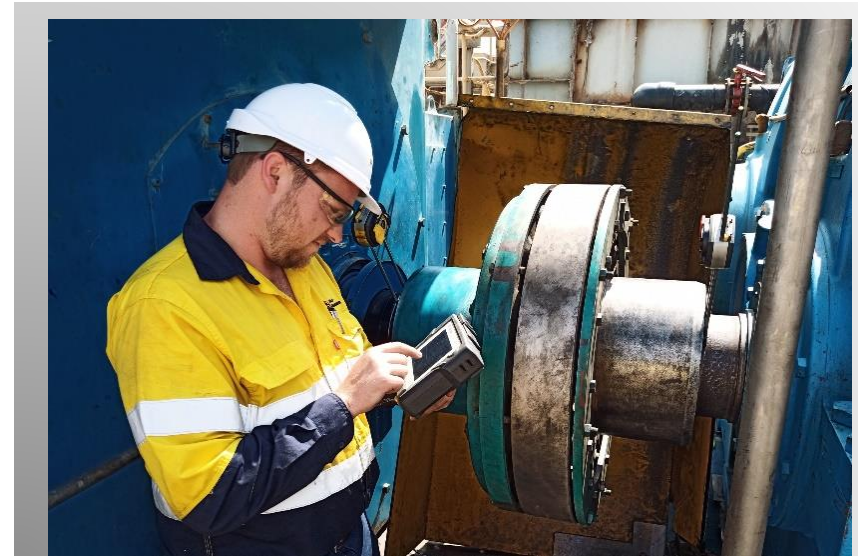
With our expert Design and Manufacturing operations at Adlam Engineering, we are well placed to understand and meet the needs of our customers from the beginning of the process, all the way through to the after sales product support

We provide our customers with a cost-effective solution for the asset management.



## 2. Diagnostic / Failure Analysis

- Condition Monitoring;
  - Vibration Analysis and balancing
  - Infrared Thermography
- Leak detection and Ultrasonic Testing;
- Machine Protection
- Lubrication Particle Counting;
- Power Monitoring
- Alignment of Rotary Machinery:
  - Shaft Alignments
  - Geometrical measurements
  - Pulley Alignments
- Using the latest technology, tools and software



### 3. Turnkey Project Management

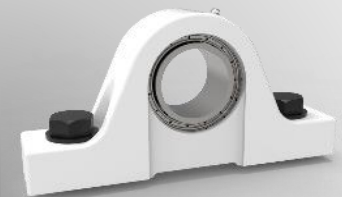
Adlam Engineering offers our customers the benefit of the Complete management of your project requirements and solutions. This includes designing capabilities according to customer specifications

Examples include:

- Grinding Mill repairs
- Plant upgrades and modifications
- Warranty Management
- Service and Maintenance options

Our Service includes full assessment and analysis of customer requirements, with complete management of the entire project, including cost analysis and optimisation.

Designing of customer specific items, delivery to site and the installation and commissioning are all included. We also supply replacement and spare parts, and the required parts for installation



## 4. Technical Data / Information

Professionally designed Industrial Gear Drives.

True custom-made gearboxes with no compromises or catalogue limits.

Applicable AGMA, ISO and DIN Standards are used through-out all gear calculations.

Complete Gearbox Simulations using the latest software, and Finite Element Analysis (FEM) on gearbox housings and gears.

Optimized gear and contact analysis.

Customers are furnished with complete Data-Books with delivery of their Gearboxes.

Items can be measured and Reverse Engineered, should no drawings be available.



## 5. Installation and Commissioning



# Installation and Commissioning

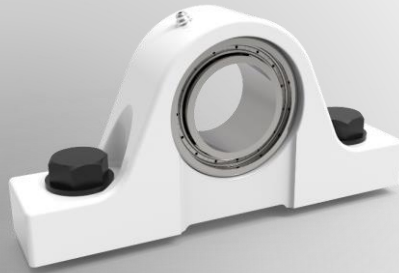
We are available to Install and Commission your New or Refurbished gearbox, in accordance with the design parameters it was intended for. This unit can be a standard or a custom-made unit, and delivery to site can also be arranged by us.

Our Service includes:

- Alignment of Rotary Machinery
- Civil Works
- Electrical Works
- Mechanical Works
- Condition Monitoring

We also supply replacement and spare parts, and the required parts for installation, such as:

- Mounting bolts and nuts
- Roller and White Metal Bearings
- Bearing housings and bases
- Couplings
- Fluid Drives
- Seals, Gaskets, Breathers & Filters
- Auto Lubrication Systems
- Etc.



**Bearing Housings**



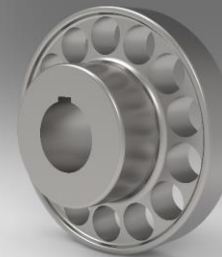
**Mounting Bolts and Nuts**



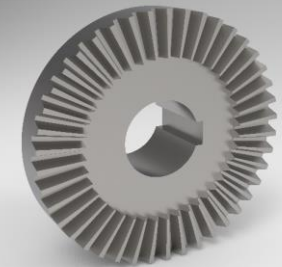
**Packaging and Delivery**



**Bearings**



**Pin Bush Couplings**



**Crown Output Couplings**

## 6. Specialist Technicians / Field Service



### The Team

- Our Field Service Department consists of Specialist Technicians, giving our valued customers the benefit of a well established brand being supported professionally and sufficiently.
- By utilising our Field Service Technicians for your on-site commissioning, the product quality and efficiency is ensured with correct analysis and installation.
- Expert product functionality knowledge is passed from our workshop and engineers to the customer operations.
- Any product proposals on enhancements are passed to our Research and Development Department, thus streamlining correct communication
- Ensure our products are installed, operated and maintained within the correct parameters it was designed for

## Specialist Technicians / Field Service



### Our Capabilities

- Alignment for Rotary Machinery
  - Shaft Alignments
  - Geometrical measurements
  - Pulley Alignments
- Maintenance
- Repairs
- Services
- Stripping and Reporting on Damages
- Bearing Installations
- Periodic Maintenance
- Condition Monitoring
  - Vibration Analysis and Balancing
  - Infrared Thermography

### Our Service

- Our Technical specialists offer full support with regards to the functionality and operation of the equipment.
- This supports in reduced maintenance or repair costs due to early problem detection and the technical advice from our Technicians or Engineers.
- Should an intervention be required, our Technicians can be despatched to any location within South Africa and abroad (EG. DRC, Tanzania, Namibia, etc.)

## 7. Maintenance and Repairs



- Our Field Service team consists of specialist technicians in our said field, and they are always available for technical support.
- Should your query/challenge require specialised consideration we can come to you, making our expertise and knowledge transferable and available to your doorstep.
- We also assist with Shaft and Pulley Alignments, as well as bearing replacements
- We are also in the position to offer our Customers tailor made Maintenance / Service Contracts. This ensures your gearbox is inspected on regular intervals, reducing the possibility of breakdowns with regular maintenance being conducted.

## 8. Overhauls, Upgrades and Modifications

Adlam Engineering (Pty) Ltd, being a manufacturer of a wide range of Industrial Gearboxes and Gear-related components, serve the Mining and Industrial sectors in South Africa and abroad.

We can custom build any gearbox according to customer specifications, up to 6000kW

We also have a complete Gear Cutting and Grinding division, and with the latest CNC machinery, tools and software we can manufacture any component.

Adlam Engineering (Pty) Ltd has highly qualified Engineers in our Research and Development department, with expert capabilities to design or re-design any gearbox for our customers.

Modifications can be done, and should you have no drawing available we are able to measure and reverse engineer drawings.

Our latest addition to our product manufacturing range are Compressor Impellers (up to 800mm diameter)



# Field Service and Project Management

## Your Complete Solution

### Additional Services:

- Replacements
- Alignments
- Lubrication systems
- Installations

### New Girth Gears

- Flange / tangent plate mounting
- T and Y section gears
- Spur and Helical designs

Mounting Bolts & Nuts

Mill Overall

- Supply of New and / or Refurbishment of Bearing Housings
- White Metal Bearings

New Mill Pinions:  
Split or Solid.

Couplings

Any Gearbox design and as new  
Drop-in replacements

Bearing Units

### Alignment for Rotary Machinery

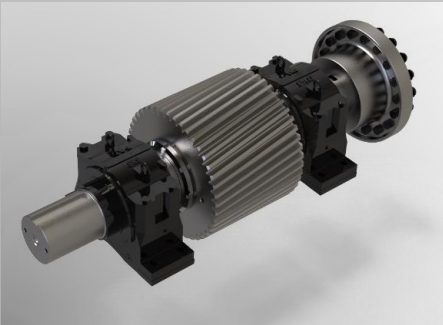
- Shaft Alignments
- Geometrical measurements
- Pulley Alignments

Civil Works

- Spur or Helical Pinions
- Grounded
- Case Hardened or Through Hardened
- Gear Teeth Quality – DIN 4

Mounting Bolts  
& Nuts

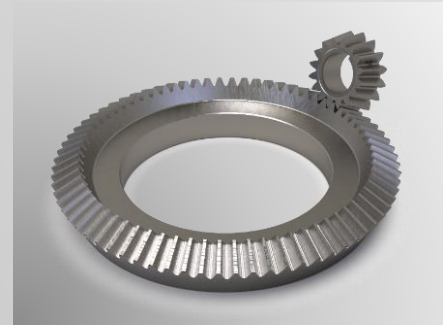
# **Spare Parts / Installation Parts / Units**



**Complete Mill Pinion**



**Any Gearbox (Size, type, etc.)**



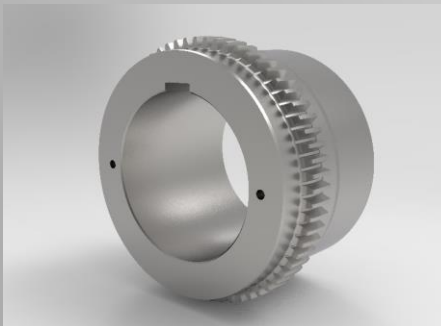
**All your gearing solutions**



**Complete Couplings**



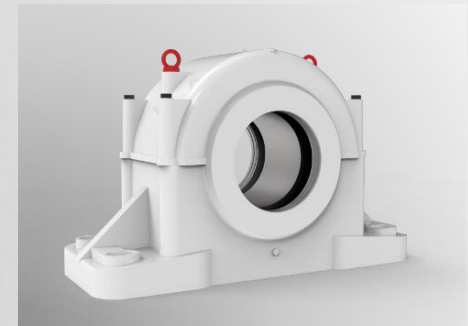
**Girth Gears**



**Crown Couplings**



**Mounting Bolts & Nuts**



**Bearing Housings**

# Industries we Serve and our Type of Work



**Mining and Minerals**



**Sugar Processing**



**Mining and Minerals**

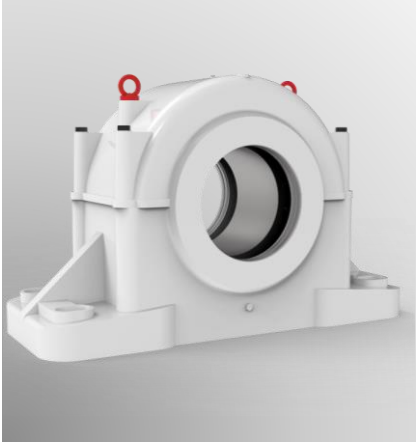


**Cement**



**Power Generation**

## Bearing Replacement on Kiln Drives



# Field Service and Project Management

ADLAM Customers / References





# **ADLAM ENGINEERING**

**YOUR PARTNER IN MANUFACTURING**



+27 (0) 11 841 9608



[sales@adlameng.co.za](mailto:sales@adlameng.co.za)



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



Cnr Van Dyk and Reservoir Roads  
Boksburg East; 1459  
Gauteng; South Africa



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