

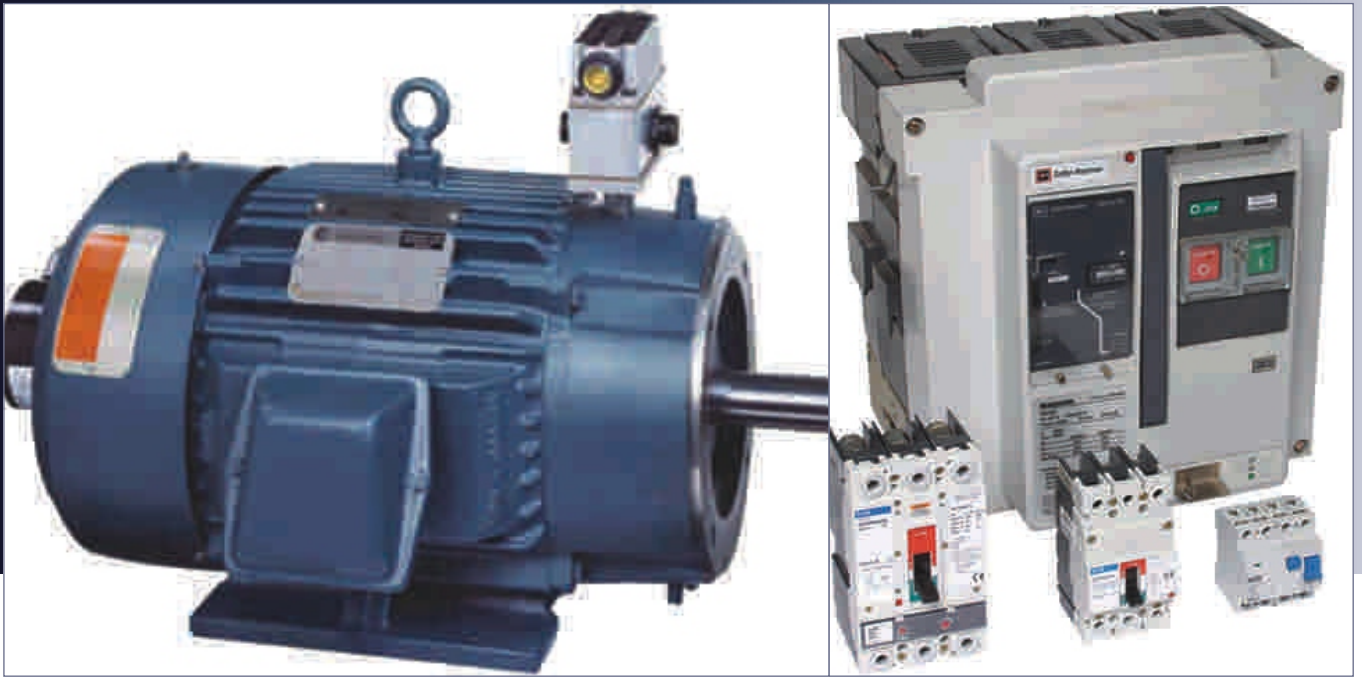
Corporate  
profile



**COMBINED**  
**TECHNICAL SERVICES**

- South Africa -





## Vision

Our vision is to become the leading distributor and solution provider to our customers in Sub-Saharan Africa. We will achieve this through excellence in service, innovation and providing our customers cutting edge engineering solutions and access to leading global product brands.

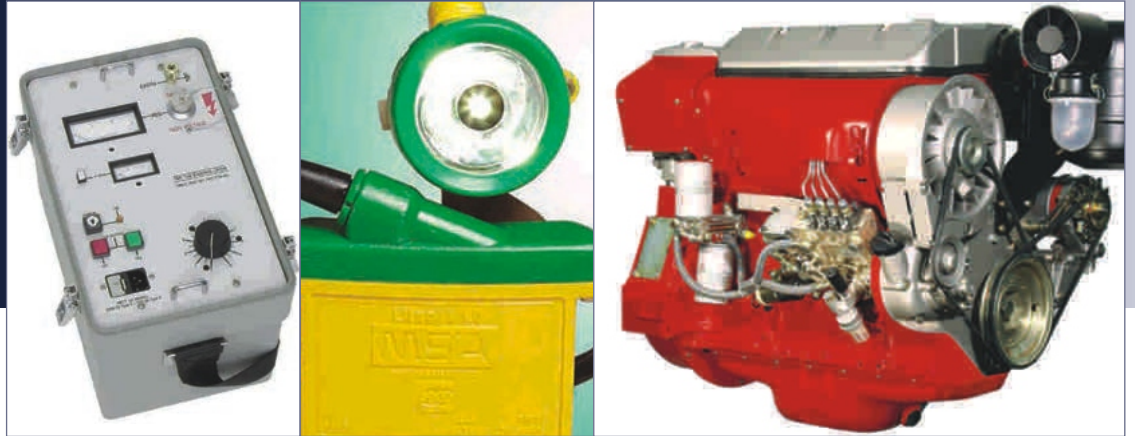
## Mission

To provide safe and trusted solutions to our clients with high quality, dependable, cost effective engineering services in the manufacturing and mining sector.

## Core Values

- Integrity
- Engineering Quality
- Efficiency in Motion
- Commitment
- Teamwork
- Passion
- Reliability

# OVERVIEW



Combined Technical Services has achieved major business success and earned the reputation of being a reliable and trustworthy business partner in the mining and manufacturing industry.

Combined Technical Services is a supplier of a broad range of engineering products and services as follows:

- Electrical
- Plant Instrumentation-Measuring Equipment
- Analytical and Laboratory Instruments and Equipment
- Mechanical components
- Safety equipment
- Mobile equipment spares
- Wear management (Nordbak) products

Combined Technical Services has the capability to provide customized engineering solutions that meet client specific needs starting from concepts study of the requirement, specifications documentation, execution and management of projects through to supply, delivering and commissioning as well as provision of ongoing support and plant maintenance services. Supported by an extensive infrastructure, highly competent and experience workforce, Combined Technical Services is able to provide customers with total engineering solutions that increase efficiency and minimize operational costs. We offer our clients application flexibility by offering a broad range of global renowned and industry leading product brands.

## CODE OF ETHICS

**We are committed to the highest standard of integrity, behavior and ethics in dealing with all stakeholders, including our shareholders, joint venture partners, employees, customers, suppliers and society at large.**





# Authorized Distributor

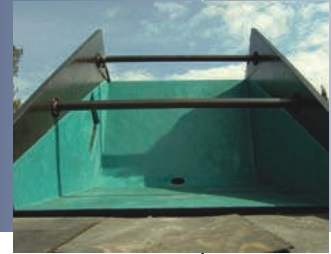


## MOBILE EQUIPMENT SPARES

- Deutz Engines
- Kessler and Dana Axles
- Transmission
- Torque Converters
- Hella Parts - work lamps, alarms and horns



# Authorized Distributor



## WEAR MANAGEMENT PRODUCTS NORDBAK

- Grouting
- Plant corrosion Prevention
- Wear Prevention
- Backing Compound
- Pully Lagging



*Innovation not Imitation*



# Authorized Distributor



## SAFETY EQUIPMENT

Eye, Hearing and Head Protection  
Hazardous gas detection solutions  
Miners Cap Lamps



# Authorized Distributor



## ELECTRICAL EQUIPMENT

- Low to Medium voltage Motor Control Centres
- Low to Medium voltage Power Distribution Boards
- Low to Medium voltage switchgear
- Motor Control and Protection system
- Soft Starters
- Variable Speed Drives
- Programmable Logic Controller's (PLCs)
- Heavy Duty Limit Switches
- Resistor Banks



**Cutler-Hammer**

*Powering Business Worldwide*



# Authorized Distributor



## MINING AND AUTOMOTIVE PRODUCTS

Heavy Duty Work Lamps for underground, and opencast mining machines (**Boomers, LHDs, Dump Trucks, Excavators**)

Alarms and Horns for mining machines

Beacons

Signal Lamps







# ELECTRICAL PRODUCTS

## Low Voltage Electrical Distribution

Control Circuit and Load Protection, Circuit Breakers, Fuse Holders, Miniature Circuit Breakers

## Electrical Motor Control, IEC

Contactors, Control and Load Switches, Enclosed Starters, Molded Case Circuit Breakers, Motor Protection Circuit Breakers and Motor Circuit Protectors, Mounting System and Starters, Open Starters ,Overload Relays, Rotary Disconnect Switches, Motor Control, NEMA, Combination Contactors, Starters, and Pump Control Panels, Contactors, Starters, and Overload Relays, Disconnect Switches ,Fuse Blocks, Manual Motor Starters, Plastic Enclosures

## Motor Protection

Current, Phase, Thermistor, and Motor Rotation Monitoring Relays, Ground Fault Detection Systems, Motor Winding Heaters

## Condition Sensing Switches and Controls

Pressure, Rotating Cam, Speed Sensing, Temperature, Float Motion Control, Integrated, Encoders, Motion Controllers, Motion Software Servo Drives

## Sensors

Capacitive Proximity, Inductive Proximity, Photoelectric, Ultrasonic





# INSTRUMENTATION PRODUCTS

## Pressure

Pressure Gauges, Transmitters, Manometers, Transducers.

## Temperature

Controllers, Meters, Thermocouples, Thermometers, Transmitters, Infrared.

## Flow

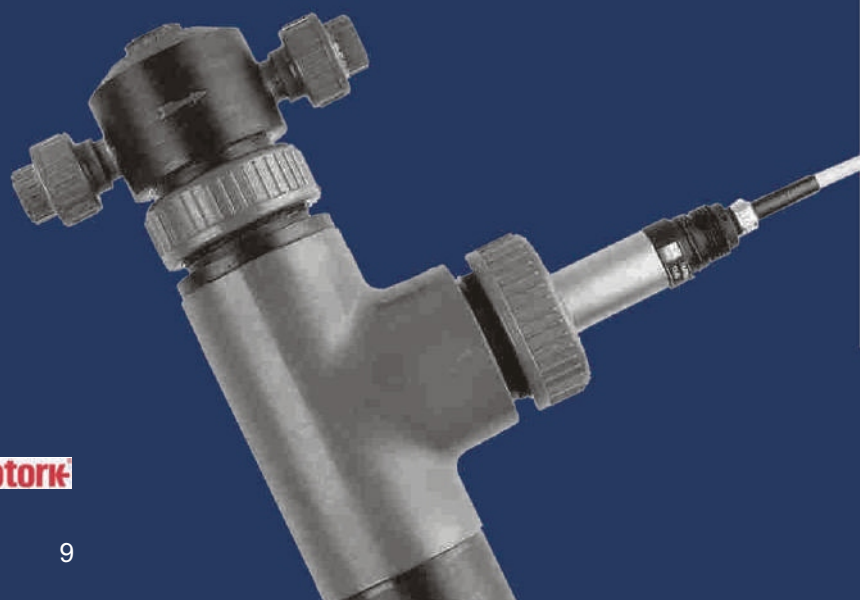
Flow meters, Filters, Controllers, Totalizers Indicators, Transmitters, Electromagnetic Flow Meters.

## Level

Switches, Sensors, Indicators, Controllers, Transmitters, Monitors.

## Valves

Ball, Butterfly, Globe, Angle Seat, Solenoids, Actuators, Positioners Valve Actuators, Electric Valve Actuators, Pneumatic Rotary Valve Actuators.







# MINE SAFETY & COMMUNICATION PRODUCTS

## **Miners Cap Lamps**

Cordless Miners Cap Lamp

## **Manual Shaft Signaling Units**

8 – 32V, 110 and 220V AC Mine Bells, 12 – 48 AC/DC Mine Bells, Non-locking bell pull switch  
Key Operated Lock Bell Pull Switch, Bell Pull Combination Systems

## **Electronic Shaft Signaling Units**

### **Safety Indication Systems**

### **Robot Box – Incandescent or LED type**

Stop & walk Indication Box, Danger Indication Box, Level Indication Box

## **Emergency Signaling Units**

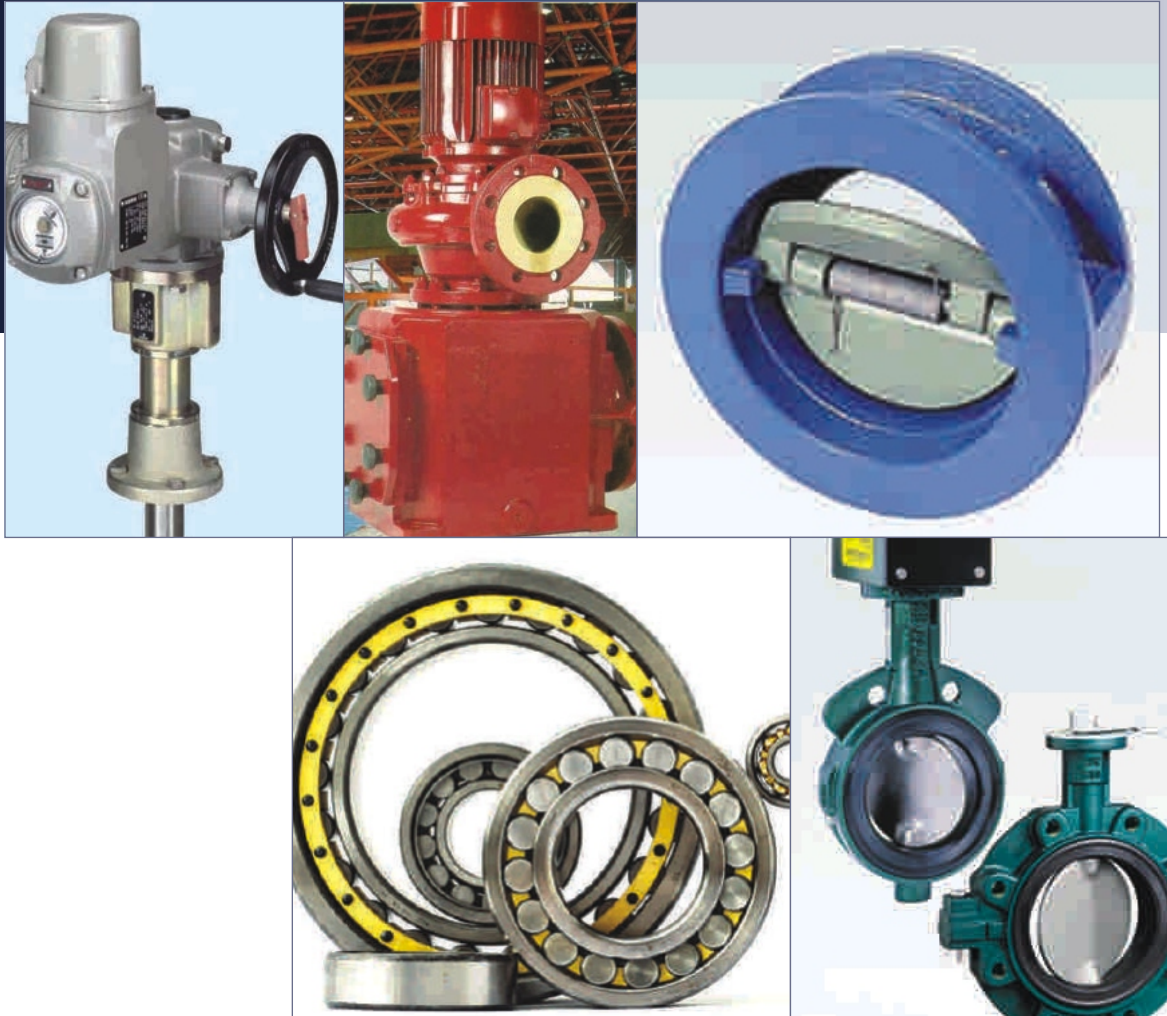
### **Mine Safety Devices**

### **Underground Voice Communication Systems**

### **Telephone / Bell Distribution Systems**

### **Lighting**

# MECHANICAL PRODUCTS



## Pumps and Pump Spares

Multi-stage pumps, Slurry Pumps, Split casing pumps, Submersible Pumps, Submersible pumps, Borehole pumps

## Mine Hoses & Linings

PVC Industrial & Mining Hoses, Industrial Rubber, Sheeting & Lining, Elephant Hoses

## Valves and Steel products

Ball Valves 25-50mm, Screw down Valves, Kwikfit Valves Safety Shut-Off Valves, Snatch Blocks, Nipples, Manifolds, Hose connections

## Bearings

Adaptor Sleeves, Angular Contact Ball Bearings, Ball Bearing Units, Cylindrical Roller Bearings, Deep Groove Ball Bearings, Linear Systems & Shafting, Lock Nuts & Locking Washers, Needle Roller Bearing, Plummer Blocks, Self-aligning Ball Bearings, Slewing Rings, Spherical Roller Bearings, Spherical Roller Thrust Bearings, Split Roller Bearings, Steel Balls, Tapered Roller Bearings, Thrust Ball Bearings, Wheel Bearing Kits, Standard taper bush, Standard range of pulleys, Special pulleys, Belt and chain tensioners, Vee and Wedge Belts, Transmission and Conveyor Chains, Induction Heaters





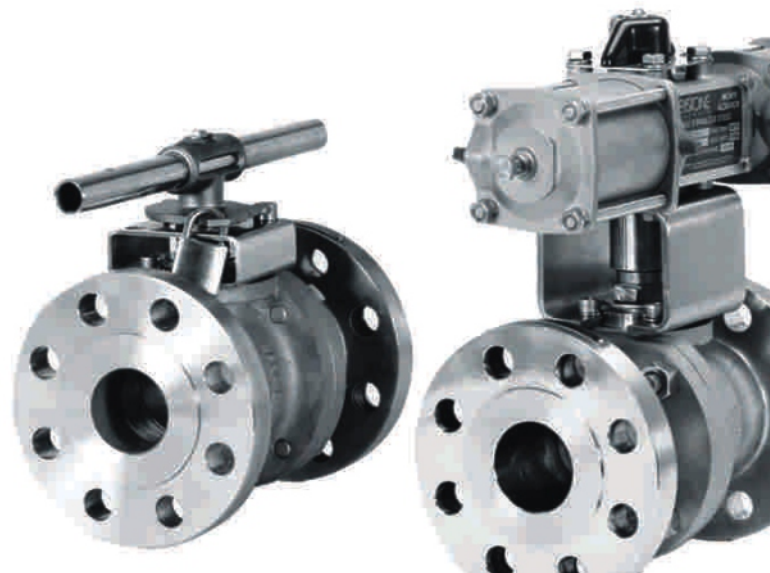


# MAJOR CUSTOMERS



Our current target market is the mining houses in sub-sahara Africa with particularly those within the SADC region. The following are some of our major customers:

- Zimplats
- Trojan Nickel Mine
- Freda Rebecca
- Epiroc
- Country Feeds





# Raw Materials



- Sodium Lauryl Ether Sulphate (SLES70%)
- Ammonium Sulphate
- Cobalt Sulphate (First Grade)
- Cobalt Sulphate (High Grade)
- Crabion-TS (EDTA-4Na)
- Calistic Soda Flakes
- Caustic Soda Pearls (NADH)
- Ceto Stearyl Alcohol
- Ferric Sulphate Solid
- Formic Acid
- Hydrocarbon Resin (Petroleum Resin) C-9
- Hydrochloric Acid 33% Min
- Hotmelt Glue (Thermo Setting Glue)
- Hydrogen Peroxide 50%
- Lead Nitrate
- Methanol
- Mono Ethanol Amine (M.E.A)
- Nitric Acid 68%
- Boric Acid
- BAC 50 & BAC 60

- Butyl Acetate
- Carboxyl Methyl Cellulose
- Calcium Carbonate
- Calcium Chloride
- Calcium Nitrate
- Calcium Ammonium Nitrate
- Complex Sodium Di-silicate
- Chromium Sulphate
- Easter Quaternary Ammonium
- Ethyl Acetate
- Glycerine
- Liquid Glucose
- Guar Gum
- L-lactic Acid
- Methylene Chloride
- Master Batch
- Phthalic Anhydrous
- Phosphoric Acid TG
- Potassium Sulphate







# **COMBINED**

## **TECHNICAL SERVICES**

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