INDUSTRIES WE SUPPORT

- Mining – Gold, Platinum, Copper, Silver, Steel, Chemical and Paper
- Earthmoving – hydraulics, cylinders
- Drilling and exploration – Drill bits, drill rods etc.
- Maintenance – Concentrators (Gold, Platinum, Copper, Silver, Steel)
- Maintenance on all underground machinery.
- Nesca
- Power stations
- Motor industries
- Private sector
- Food industry

We are strong in the maintenance of concentrators (flotation) and manufacturing of component underground mining markets, drilling and exploration and private sector. All of which require different shapes and different sizes of hydraulic cylinders and components for different industries in the private sector.

ENGINEERING PRODUCTS AND SERVICES

Products

A) Standard Hydraulic Cylinders

- Welded cylinders
- Milled cylinders
- Tie-rod cylinders etc.

- Accessories
- Clevis
- Bearings etc.

- Pistons
- Seals

- Rods
- Barrels

Hydraulic Components
OVERVIEW

LJ Process Engineering and Mining Supplies is a general engineering company specialising in the manufacturing of specialised components and maintenance on concentrators and on all underground drilling machinery and plants in the private sector.

OUR PROMISE TO YOU

Tradition

LJ Process Engineering and Mining Supplies has specialised in the manufacturing, maintenance and repair of components in the different industries which include:

- Plants - Concentrators and fabrications
- Mining - Underground mechanised drilling machines
- Private sector – Machining of components and fabrication
- Drilling – Drill bits and rods
- Earthmoving – Hydraulic cylinders and components / fabrication
- Mechanised Drilling Machines – Parts, Hoses and Fittings

Some 65 people work within the LJ Process Engineering and Mining Supplies group as one team towards personal growth and the success of the group as a whole.

Reputation

LJ Process Engineering and Mining Supplies’ 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 Process Engineering and Manufacturing.

Projects

We are more than capable of handling projects and we have the necessary efficient workers and equipment to handle projects from start to finish. We pay attention to detail and quality work is our main concern.

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 employees and clients through maximised profits and contributing more to our communities, societies and the country.
B) Machining of components (Milling / Turning)

LJ Process Engineering and Mining Supplies has a full complement of highly experienced, comprehensively trained fitters and turners. Machining is carried out to customer specifications using the most sophisticated CNC machines on the market. Victor / Leadwell

- CNC Milling
- Forming
- CNC Turning
- Jigs
- Drilling / Tapping / Reaming
- Fixtures

Parts For Underground Drill Rigs
Bearing Unit Complete OK 16.
Engineering Bearing Housing
Wheel Assemblies For Trains
144D Bearing Units Complete
Bearing Units Complete
CNC Machining Centre

- 2D Milling
- Helix Milling
- 4 Axis Milling
- Thread Milling

High Pressure Pump Parts
Parts for High Pressure Pumps

Parts for drilling machines
Valve Adaptor

Part For Underground Drilling
CNC Components

Capacity

CNC Turning
- Up to 10” diameter in chuck
- 3” diameter through spindle.

The latest generation Driven Tool Victor and Leadwell lathes equipped with magazine bar feeds.

Multi Spindle Bar Automatics
- 13/4” through the spindle Wickmans equipped with various attachment for complete machining of components
Single Spindle Automatics
- Up to 31/2" diameter through spindle on Wickman & EMI – MEC bar feed autos.

Comprehensive range of Drilling, Horizontal and Vertical millers, capstans and lathes for further 2nd op capacity.

Extensive experience in machining most materials. Please ask for further details.

Materials

Most materials machined including:
- All grades of Stainless Steel
- Brass, Bronze
- Nickel Alloys, Alloy 400, 500, 625, 825, B2, C276
- Duplex UNS31803, 32760, 31254 (6MO) etc
- Stellite and Carbide Coatings

Design

LJ Process Engineering and Mining Supplies has all the latest design packages, including Autocad 2012 and Mastercam 2012.

Stock

At any one time we carry stock of all items for the different industries we support.

Repairs and Services

LJ Process Engineering and Mining Supplies has a dedicated repair and maintenance department to ensure that downtime turns into production time. Repairs to all types hydraulic engineering, and mining components 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 parts.
   - Failure analysis and damage assessment.
   - Itemised and transparent proposal.

2. Customer go-ahead
   - Contract review to ensure LJ Process Engineering and Mining Supplies’ understanding of customer’s specific requirements.
   - Route sheet and job number allocation
   - Drawings made according to specification
   - First and final inspections carried out

3. Packaging and delivery in optimal refurbished condition

LJ Process Engineering and Mining Supplies has designed a new dart valve that the Lonmin Group have currently standardized on. The new design has been SABS approved and it’s being used on all Lonmin concentrators. We are currently in the process of designing a new rotor which has been tested at Lonmin. The rotor has shown remarkable results after it was taken out after 11 months. The rotor is already in the process of being patented.

Fabrication

We fabricate small to medium components for the different industries out of different makes of materials.

- Hoppers
- Head pulley
- Rollers
- Pipe Services (Medium to high pressure) any material
- Tanks – for all industries
- Supply Bearings, Pully’s, Gears, Hoses (Hydraulic), Fittings and Clamps
- Onsite Machining
- New Float Cell Units
- Plant Maintenance (General)
- Floatcells
- Conveyor systems
- Screens
- Process equipment
- Plastic Welding
- Pumps

- Idler’s
- Fabrication
- Samplers
- Precision sheet metal fabrication
- Floatspears
- Bearing Units - all makes and sizes
Fabrication and installation of new floatcell banks and Units - Rowland (Lonmin)

Before

After
Welding

Mig / Tig welding on Aluminium, Carbon Steel and Stainless Steel

MECHANISED MINING MACHINES THAT WE SERVICES AND
SUPPLY PARTS FOR AND HYDRAULIC HOUSES AND FITTINGS

- Toro 514 Volvo
- ST 1520
- ST 600 LP
- Simba S7D
- Simba M6C
- Simba 1257S
- Sandvik DD210L
- Rockbreaker
- Remote LH 514
- MT436B
- LH514
- 282 Rocket Boomer (Latest Model)
- Tranter Drilling Machines
- Parts supplied for various Machines

Before

After (Wheel Hub)

Rectangular Buffer Support Holder

Wheel Hub

Bore Mill Coupling / Crushers

Buffer Plate
Maintenance on Concentrators

We supply all spares on the float section and new floatcell units.

- Mechanical components on floatcells and pumps
- Rotors
- Stators
- Bearing assemblies / and Housings
- False bottoms – Rubberlined / Vescanite
- Dart valves
- Screen
- Float level brackets
- Complete floatcell – different sizes
- Bearing units – different sizes
- Pulleys etc.
- Rubberlining of different components
- Pumps
- Relining of mills

CUSTOMER SERVICES

LJ Process Engineering and Mining Supplies is your One Source for spare parts, service, maintenance, operational services. Our Customer Services provide a wide range of services for mineral processing equipment, process design, equipment installation, troubleshooting, process and mechanical analysis, and commissioning of new plants. Customers are our most important asset. It is by no means a radical concept. Indeed, everyone promises it; we deliver it.

Technical Services

- Erection & Commissioning
- Operations and Maintenance
- Expert Services
- Technical Assistance
- Training

Operations and Maintenance

Our Customer Services experts have the know-how to optimize your maintenance and shutdown management programs. We can help plan your preventive maintenance programs, manage scheduled repairs.

Operations and Maintenance

- Mill Management
- Plant Maintenance
- Asset Management

Rebuilds & Modernizations

LJ Process Engineering and Mining supplies can rebuild your equipment or provide the most current state-of-the-art equipment improvements and/or system upgrades for operational efficiency and enhanced functionality.

Products

- Original OEM Spares / replacement parts
- Life Cycle Analysis
- Retrofits
- Product Review & Improvement
- Repair
Engineering Services

LJ Process Engineering and Mining Supplies provides the services required to engineer, procure and construct in virtually every major industrial market – from Mining, Metals and Minerals.

Engineering Services

- Equipment Audits
- Testing
- Detailed Engineering
- Process Audits
- Erection Supervision
COMPANY INFORMATION

REGISTERED NAME
LJ Process Engineering and Mining Supplies.

REGISTERED NUMBER
2013/214943/07

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