About Us

Driving Zero Harm Values through Product Life Solutions

As a proudly South African company, with over 30 years of experience as a leading manufacturing engineering business that offers advanced engineering solutions to the coal mining industry, JA Engineering is committed in driving zero harm values through product life solutions offered to the industry.

With over 80% market share as Original Equipment Manufacturer (OEM) for battery scoops in the South African coal mining industry and establishing itself as a full systems OEM provider over the years, today JA Engineering is proud to supply complete fleet solutions offering of underground mining equipment that includes continuous miners, shuttle cars, roof bolters and feeder breakers.
Vision

To be the leader in engineering solutions for the mining industry.
## Values

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<th>Safety</th>
<th>Quality</th>
<th>Performance</th>
<th>Integrity</th>
<th>Reliability</th>
<th>Proud and Passionate</th>
<th>Close to our Customer</th>
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<tr>
<td>We believe that safety comes first in everything we do.</td>
<td>Quality solutions is what our brand stands for.</td>
<td>We are performance driven and our values enable us to make a positive difference.</td>
<td>We act with integrity and pride.</td>
<td>We are reliable, transparent and consistent in what we say and do.</td>
<td>We are proud of the equipment we make and of the service we deliver.</td>
<td>We believe that through hard work, we create strong relationships with our customers built on trust.</td>
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JA Engineering has stood for unparalleled commitment to continuous improvement and reliability. As a proudly South African company, we’ve expanded our capabilities, leveraging our global footprint to reach cutting-edge targets in repair and rebuild equipment for both surface and underground mining.

Three major service centers located in South Africa including Middelburg Mpumalanga, Vryheid KwaZulu-Natal and Jet Park Boksburg, Gauteng, providing new equipment fleet solutions with extensive aftermarket parts and services.

Abroad, JA Engineering Australia has an established facility that provides mechanical engineering design, gear case repair and manufacturing as well as new and refurbishment of mining equipment to the coal mining industry.

Operational Overview

Zero Harm Mentality
JA Engineering has a strong commitment to zero-harm mentality. We believe that safety comes first in everything we do. We pride ourselves on our world class safety performance in manufacturing excellence.

We are committed to an injury free workplace through the continuous improvement of our safety standards and processes, to achieve world class performance.
Leadership

Our leadership team and staff, is focused on serving surface and underground mining customers with products and services of the highest quality.

Chief executive officer

Engineering
- Product design
- Field engineering

Manufacturing
- OE manufacture
- Repair and rebuilds
- Component repairs

Human resources
- Labour
- Skills development
- Transformation

Sales & marketing director

Sales Surface
- Sales account management
- Internal sales
- Marketing

Underground
- Sales
- Account management
- Internal sales
- Marketing

Service
- Field service support
- Aftermarket support

Finance director

Finance
- Commercial
- Financial control and reporting
- IT

Supply Chain
- Procurement
- Distribution and logistics
- Forecasting and planning
- Consignment stores
Quality

Our leadership team is focused on serving surface and underground mining customers with products and services of the highest quality.
JA Engineering South Africa

Head office located in Jet Park, Boksburg South Africa, JA Engineering manufactures and distributes new OEM equipment and aftermarket parts from its Jet Park facility to its local service centers and collieries.

Our repair and rebuild capability is extensive and includes electrical and mechanical repairs on surface mining blasthole drills, rope shovels and walking draglines. Repairs on underground mining equipment includes continuous miners, shuttle cars, battery scoops, feeder breakers and roof bolters.

Quality

Quality Engineering Solutions is what our brand stands for, with an operational focus on manufacturing excellence. We operate as a seamless business, to make it easy for our customers to do business with us.

JA Engineering has invested significantly in technology for the repair of large traction planetaries and gearboxes.

JA Engineering is ISO 9001:2015 accredited.
JA Engineering South Africa

Location
Jet Park, Boksburg Gauteng South Africa

Repair and Rebuild Services
- Continuous Miners
- Shuttle Cars
- Roof Bolters
- Feeder Breakers
- Battery Scoops
- Surface Mining blasthole drills, rope shovels and draglines

Field Service Support
- Machine inspections
- Electrical and mechanical repairs
- Fault finding
- Gearbox Repairs
- Line Boring

Extensive Aftermarket Support
- Extensive aftermarket support through quality reverse engineered solutions as an alternative to the OEM

Exports
JA Engineering exports aftermarket mining products to Australia, USA, China and India
We act with integrity and pride.
Reliability

We are reliable, transparent and consistent in what we say and do.
JA Engineering Australia

Location
Rockhampton, Queensland Australia

Repair and Rebuild Services
- Continuous Miners
- Shuttle Cars
- Roof Bolters
- Feeder Breakers
- Battery Scoops

Field Service Support
- Machine inspections
- Electrical and mechanical repairs
- Fault finding
- Gearbox Repairs
- Line Boring

Extensive Aftermarket Support
- Extensive aftermarket support through quality reverse engineered solutions as an alternative to the OEM
Proud and Passionate

We are proud of the equipment we make and of the service we deliver.
Underground Mining

Underground OEM Equipment

- Continuous Miners
- Shuttle Cars
- Roof Bolters
- Feeder Breakers
- Battery Scoops

Exports

JA Engineering exports aftermarket mining products to Australia, USA, China and India

Services

Repair and Rebuild Services
- Continuous miners, shuttle cars, roof bolters, feeder breakers and battery haulers

Field Service Support
- Machine inspections
- Electrical and mechanical sub-assemblies and spares

Long Term Vision
To be recognised as a full systems equipment provider of underground equipment to the coal mining industry.

80% Market Share for battery scoops in the South African coal mining industry.

Extensive Aftermarket Support
Through quality reverse engineered solutions as an alternative to the OEM
Surface Mining

Services
Repair and rebuild services includes: blasthole drills, rope shovels and draglines

Machine Inspections
- Mechanical repairs
- Gearbox repairs
- Line boring
- Mast repairs on blasthole drills
- Boom repairs on rope shovels
- Shaft repairs on walking draglines
- Complete machine shutdown project management- key turnaround time

JAE Aftermarket Capabilities

Draglines
- Bucyrus
- P&H
- Marion

Drills
- Pit Viper
- Twin boom
- Sandvik

Dragline Repairs
Full repair of hoists and drag drum assemblies

Gear Assembly
- Weld and machine bolt holes
- Repair locating spigot on drums
- Machine and supply fitted bolts for gear assembly
- Inspect run out of gears

Drum Assembly
- Weld and repair all holes
- Repair spigots for drum to drum
- Repair spigots for spider to drum

Units are supplied complete with all bolts fitted

Full repair to Boom point assembly
- Repair stub axels
- Repair frames
- Repair sheave wheels
- New stub axels machined from a forging

Full housing repair
- Replacement of rooms
- Repair of bearing horns
- New base plates
- New lid
- New end covers
- Complete with all bolts
- Repair motor pedestals

NB: 24 hour, 2 shift cycle on all 4 gearboxes simultaneously
24 - 28 days turn around time

Full repair of Fairleads
- Repair sheave wheels
- Repair heads
- Manufacture new frame, tyre brackets, rollers, clevis’s, pins and bushes

Full repair of Mast Deflecting Assembly
- Repair sheaves
- New frame, shafts and small guide wheels
- Small guide wheel unique to JAE, these prevent the cable from whipping and dislodging from the sheave wheel
Investment in South Africa
JA Engineering is proud to be an engineering solutions company that designs and manufactures its products in South Africa. Currently, our company employs approximately 200 people.

Broad Based Black Economic Empowerment Strategy
As a business, we are focused and committed in meeting South African business imperatives through:
- Ownership
- Management control
- Employment equity
- Preferential procurement
- Skills development
- Socio-economic development

Skills Development
- Preferential procurement
- Enterprise development
- Socio-economic development

Local Manufacture
JA Engineering is proud to be a true South African mining supplier which aims for 90% locally manufactured and procured products. All in our continuous effort in creating sustainable investment in South Africa, with the aim to create a safer more productive mining environment.

Skills Development
JA Engineering recognizes that the continuous investment of skills development of its employees as a critical factor of its brand, its growth and skills empowerment. In order to meet and to address the skills challenges within the industry, JA Engineering is committed to partner and to invest within the industry in the transformation of skills development.

Socio-economic Development
Our business is not only about the people who work for us, it is also about the support we provide to the local communities in which we operate.

Leandra Community Centre, Mpumalanga
A large part of JA Engineering’s spend on socio-economic development is towards communities’ essential needs. We are proud to be associated with the community of Leandra in Mpumalanga were we have contributed towards the establishment of a community centre that will support vulnerable women and children.

Limpopo Community Project
JA Engineering has supported numerous projects in Limpopo in partnership with local communities to meet many of their socio-economic needs. This programme seeks to develop sustainable community based services through the active family support approach.

Enterprise Development
The objectives of JA Engineering’s community development initiatives are to support income-generating projects as a means to eradicate poverty. Enterprise development is a strategic focus area for JA Engineering, to address the unemployment and poverty concerns in the communities in which we operate. Recently, JA Engineering supported Sibonginhlahlajabu Building Contractors CC by supplying equipment and transportation.
Milestones

1987-2004
First sales and manufacturing office established in Jet Park, Boksburg South Africa.

OEM for Battery Scoops. Over 80% market share in the SA coal mining industry.

Established itself as a leader in engineering solutions for alternative design on OEM supply.

2005-2014
Manufacture and repair of high quality wheel units for underground shuttle cars with an average of 1 million tonnes.

Feeder breaker head and tail shafts redesigned engineered solutions achieved successes that exceed over 700,000 tonnes.

Traction planetary assemblies fitted on different machines with an average of 800,000 tonnes.

JA Engineering modifications based on customer requests leading to improved alternative design with improved productivity.

Significant lower cost on underground mining operations through reverse engineered aftermarket support.

2013-2014
Introduction of JAE40 continuous miner. JAE currently supporting 17 complete continuous miners and 32 shuttle cars.

2015
Investment in large service and distribution centre in Middelburg Mpumalanga to support the mining industry. Heavy engineering workshop to accommodate additional 36 rebuilds a year.

Expanding of existing footprint in Jet Park, Boksburg.

2016
Introduction of Wildcat JAE42 continuous miner.

2018
Introduction of JAE Twin Roof Bolter- The Honey Badger and JAE Shuttle Car- The Caracal to the South African Coal Mining Industry. JAE also provides extensive repair and rebuild services with full aftermarket support on continuous miners, shuttle cars, roof bolters, feeder breakers and battery scoops.
The JAE Experience

Contact us

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