

A photograph of a molten metal casting process. A large industrial ladle is pouring bright orange-yellow molten metal into a circular mold. The mold is part of a larger metal structure, and the metal is splashing and creating sparks. The background is dark and industrial, with some steam or smoke visible.

# Company Profile: Casting and Engineering Specialists Pty Ltd

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**Date:**  
We started the  
company in April 1998,  
growing into a market  
leader

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**View our Website:**

<https://castingandengineering.simdif.com>



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Casting and Engineering Specialists Pty Ltd is a premier and leading provider of advanced Engineering solutions and high-quality metal castings, metal forgings, steel supply, and steel fabrications for the mining, general engineering, agricultural and heavy automotive industries of Africa. With expertise in turnkey project engineering, metal castings, metal forgings, CNC machining and equipment manufacturing. We deliver tailored solutions that enhance operational efficiency.

[Click here to view: Overview](#)

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# Overview

## Company Overview

Casting and Engineering Specialists Pty Ltd is a premier provider of advanced engineering solutions and high-quality metal castings.

## Service Areas

Serving the mining and automotive industries across South Africa, Botswana, Namibia, Angola, Zambia, Zimbabwe and Tanzania.

## Commitment

Commitment to excellence, delivering innovative, reliable, and tailored solutions. Delivering high-quality products and services. Ensuring safety & sustainability in all operations.

## Specializations

- Turnkey project engineering
- Metal castings & Forgings
- Mining and conveyor equipment manufacturing.
- Steel supply and fabrication
- Wear-resistant solutions
- Precision CNC machining
- Heavy automotive equipment production



## 02

1) TURNKEY PROJECT ENGINEERING: End-to-end solutions for all mining, general engineering, heavy automotive and agricultural operations.

2) METAL CASTINGS & METAL FORGINGS: High-quality castings in ferrous and non-ferrous metals, and durable forged steel components.

3) MINING & GENERAL ENGINEERING EQUIPMENT MANUFACTURING: Customized equipment for general engineering and mining operations, including efficient Conveyor systems and components, Durable wear-resistant components for mining equipment, high-quality steel fabrications, steel supplies, and high-precision CNC machining and milling services for complex components.

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## Core Services and Products

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## Metal Forgings

High-strength forged components for demanding mining and general engineering applications. High-quality metal forgings are a critical component in the mining and all general engineering applications, offering enhanced strength, durability, and reliability. We produce high-quality metal forgings in various metal grades, tailored to meet specific requirements and operating conditions.

### BENEFITS:

Enhanced Strength, Improved Durability, Wear and Tear resistant, Reliability. We specialize in Carbon Steels, Alloy Steels, Stainless Steels and Aluminum Alloy.

Manufacturing Process: Our forging process ensures precise control over temperature, pressure, and all critical parameters. We conduct rigorous quality control checks to ensure forgings meet specifications and ISO standards.





# Turnkey Project Engineering

1

## Engineering:

End-to-end engineering solutions

Metal Castings, Metal Forgings , Mining Equipment Manufacturing, Conveyor Equipment Manufacturing, Steel supply & Steel Fabrications, Wear-Resistant Solutions, Precision CNC machining & milling.

2

## Systems:

Designing, manufacturing, and installing integrated systems to optimize mining and general engineering operations. Streamlined project delivery: We manage the entire project lifecycle, from inception to completion, ensuring timely delivery and reduced project risks.



## Metal Castings & Metal Forgings:

### Production:

State-of-the-art foundry produces durable castings in steel, iron, copper, bronze and aluminum alloys. We specialize in Ferrous and non-ferrous metals. High Chrome, Manganese, Grey Iron, SG Iron. Specialists in Durable Metal Forgings in various metal grades.

### Standards:

Meets stringent mining industry standards. Testing and Quality Assurance: We conduct thorough testing and quality assurance on all components manufactured to ensure the systems meets all ISO standards and metrics.







# Mining Equipment Manufacturing

## Mining Equipment:

We produce specialized equipment including crushing and screening plants & parts, various wear parts, and conveyor equipment & general engineering items.

## Customization

Our highly qualified and skilled team works closely with all our clients worldwide to understand their unique needs and develop equipment that enhances operational efficiency.

## Precision CNC Machining and Milling

We offer high-precision CNC machining & milling services, producing complex components with exact tolerances and superior surface finishes.

# Conveyor Equipment Manufacturing



## Conveyor systems

Custom conveyor systems and components - Belts, drive pulleys, conveyor rollers, idlers, idler frames, drive motors, sprockets, and gearboxes. We supply high-quality ISO approved, durable and wear resistant Conveyor belts. Quality drive and tail pulleys and headgear structures.



## Efficient handling

Ensures efficient material handling. Our Conveyor systems and parts are critical components in various mining and quarry applications. Mining ore transportation, overburden removal, Quarry aggregate transportation. Drive Systems like motors, gearboxes and couplings.





## Steel Supply

### Steel supplies and Services:

- 1) Steel Sections: Beams, Channels, Angles, Round bar, Square bar, and all other structural steel sections including tubing.
- 2) Steel Plate: Plate materials in various grades like mild steel, High tensile steel plate and hard-wearing steel plates for demanding applications and thicknesses, including steel billets and semi-finished billets for further processing.
- 3) Steel Plate Coils: Plate coils, hot-rolled and cold-rolled steel coils including slitting and blanking.
- 4) Steel Services: CNC Profile cutting, CNC Plasma cutting, CNC Laser cutting, CNC Bending, Plate and section rolling, Punching and drilling.
- 5)

YOUR ONE-STOP STEEL SOLUTIONS WORKSHOP.



# Steel Fabrication

## 1 Steel fabrication

Fabrication and repair of steel structures and components. High-quality steel fabrications, Mining equipment manufacturing, Agricultural equipment manufacturing, delivering robust solutions for various industries.

## 2 Mining solutions

Robust solutions for mining environments: Wear-Resistant solutions, We manufacture quality high-chrome castings and wear liners to enhance equipment longevity and minimize maintenance costs.







## Wear-Resistant Solutions

### High-chrome castings

Our wear-resistant solutions are designed to protect equipment and infrastructure from high wear and tear, like wear liners, wear plates, coal mil liners

### Enhances longevity

and Increase Lifespan: Reduced downtime and maintenance costs, Improved Efficiency: Enhanced performance and productivity. Cost saving.



# Precision CNC Machining and Milling



## **CNC capabilities:**

Advanced CNC machining and milling technology, ensuring high-precision components with exact tolerances and superior surface finishes. State off the art laser measurement technology . Large horizontal and vertical boring mill facilities, to handle large mining equipment.



## **Precision components:**

High-precision with exact tolerances and superior surface finishes. Machining capabilities from small CNC lathes, medium sized CNC lathes & machine centers, to large CNC lathes & CNC machine centers. High-precision, high-accuracy, tight tolerances.



# Heavy Automotive Equipment and Parts

## Design:

We design and manufacture heavy-duty automotive parts , replacement parts, casted brake drums fully machined, and fabricated replacement components for most mining, heavy automotive, agricultural equipment and the construction industries.

## Sectors:

For Mining equipment, Heavy Automotive transportation, Agricultural equipment and Construction equipment and vehicles.



# 03



1) Mining: Equipment and parts for all mining operations.

2) Construction:

Components for construction equipment and infrastructure projects. Scaffolding, steel structures, steel rebar, excavator replacement parts.

3) Agricultural: Parts, wear parts, and equipment replacement parts on agricultural machinery. All heavy Transportation component include mining machinery.

4) General Engineering & Manufacturing : Equipment and parts for manufacturing processes.

## MARKETS:

1) LOCAL: Serving the entire local market, engineering, mining, agriculture, construction, Power generation, and military equipment manufacturing.

2) Regional and Neighboring African

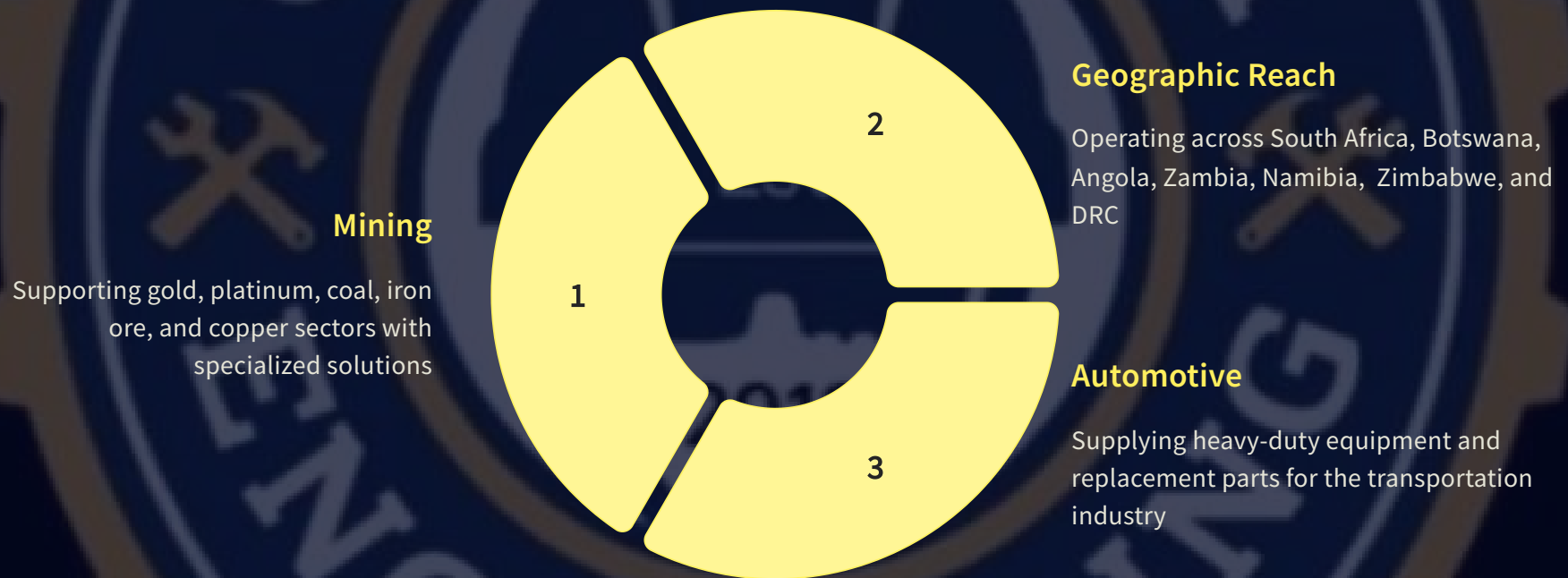
markets: We have expanded our expertise to reach all regional and neighboring African markets.

3) Global Markets: We export our high-quality products, services, skills and services to many international markets.

## Industries and Markets Served



## Industries and Markets Served



# 04



## EXPERTISE:

- 1) World-class Metal castings, Metal forgings, Steel Fabrications, Steel supplies, Precision Engineering services, Construction steel structures and parts.
- 2) Customization: Tailored solutions for specific client needs and requirements.
- 3) Innovation: Continuous improvement, skills development, product design and development, Continuous Quality control process improvements.
- 4) Reliability, Efficiency, Competitive Advantage, Client-Centric Approach, Customer Care, Personalized service and support, Turnkey project engineering and management.
- 5) Comprehensive Solutions: As a one-stop provider, we streamline project delivery with a full spectrum of engineering and manufacturing services.

## Our Competitive Edge

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# Expertise

## Experience:

35 years extensive experience in the Mining, Construction, Steel Fabrication, Steel supply, Agricultural and quarry industries of Africa and international markets.

## Solutions:

Meet unique operational challenges worldwide, We offer major comprehensive solutions for various industries. Improve Efficiency, Improve Durability, and Cost Savings to clients worldwide.







- 1) High-quality pipe fabrication
- 2) High-quality steel fabrication
- 3) Wear-resistant mining parts

## Quality assurance

### 1 Quality control

Rigorous quality control - meeting all ISO standards

### 2 Product guarantee

Guarantees reliable, high-performance products and services



# Technological Innovation

## Technology Investment Strategies

Ongoing funding for advanced technologies and methodologies

## Operational Enhancement

Enhances operational productivity and machine functionality



ENGINEERING



# Comprehensive Solutions

## Provider

One-stop provider

## Services

Full spectrum of engineering and manufacturing services

## Delivery

Streamlines project delivery



# Regional Presence

## 1 Footprint

Strong Southern African, Namibia, Botswana, Zimbabwe, Zambia, Angola, DRC Congo, Tanzania, Russia, and Europe

## 2 Support

Enables rapid response to local clients, Africa clients and international clients.

## 3 Partnerships

Fosters long-term partnership with all clients worldwide.







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- 1) EXPERTISE: Proven supplier of high-quality metal castings, metal forgings, steel fabrications, product design and development, CNC precision machining and engineering capabilities. We have successfully managed and completed multi-million dollar / ZAR Rand projects worldwide.
- 2) Our team of engineers possesses the expertise, knowledge, experience, and skills to deliver high-quality solutions. With a strong will to assist, our team are committed to assist our clients worldwide to achieve their goals. We have the Technical Expertise, Client-Centric Approach, Global Reach, Design and development capabilities.

PARTNER WITH THE MOST ADVANCED TEAM IN THE WORLD.

## Why Partner with Us?

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## Why Partner with Us?

### **Trusted partner**

delivering unmatched quality,  
innovation, and value

### **Integrated approach**

ensures seamless project execution

### **Focus on durability**

and precision enhances operational  
efficiency

### **Dedicated to success**

through customized, high-impact  
solutions



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CASTING and ENGINEERING SPECIALISTS PTY LTD

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**Contact Us**

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# Contact Us

## Operations

Elevate your mining or automotive operations with Casting and Engineering Specialists Pty Ltd



## Website

<https://castingandengineering.simdif.com>

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**Thank You**