

# Spectrum Technical

*Established 1994*

(Pty) Ltd

## Metals & Minerals Process Solutions



Best in Class for Process  
Equipment, Technical support and  
Onsite services to the Mining, Metals  
and Paper Industries

## *Company Profile*



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## About Us

Spectrum Technical, based in Richards Bay, South Africa, supplies best in class process equipment, technical support and onsite services to the mining, metals, and paper industries.

The company was founded in 1994 and has built a reputation for its process knowledge and expertise through our team of metallurgists and chemical engineers and global technology partners.

We work with a dedicated focus to understand the customer's process needs and offer appropriate solutions.

We are 51% Black Owned and B-BBEE compliant.

## Our Vision

To be your partner of choice in optimising your metallurgical processes

## Our Values

- Health & Safety First
- Respect
- Ownership
- Honesty
- Teamwork

## Our Key Activities

- Process equipment supply through our global partners
- Consulting, design, technical support and troubleshooting
- Refurbishment, fabrication, installation and maintenance of equipment we support
- Own and operate mobile and fixed crushing, screening, blending and bagging operations

## Our Team

Spectrum Technical employs a staff of over 40 permanent employees.

These include:

- Metallurgical/Chemical Engineers
- Project Managers
- Supervisors and Operators
- Maintenance Artisans
- Administration





## *Industries We Serve*

- Heavy Mineral Sands
- Coal and Anthracite
- Other Minerals, Paper, Food and Quarries
- Primary and Secondary Aluminium
- Foundries



## *Locations*



**150 Dollar Drive, CBD, Richards Bay**



**7-9 Street, IDZ 1 000, Alton**



# Aluminium and Foundry Processing

## Technologies we offer

### Casthouse

- Dross processing (recover metals from dross and slag)
- Metal treatment equipment (de-gassing, fluxing and gas injection)
- Laser level control systems (ensure metal level is constant)
- Metal filtration systems (ceramic foam filters)
- Furnace tending vehicles (charging scrap and skimming)
- Non-contact metal temperature systems
- Automated sawing systems for slab and billet
- High temperature fabrics (coarse filtration and distribution)
- Crucible and Ladle Cleaning
- Siphon Tube Cleaning

### Carbon

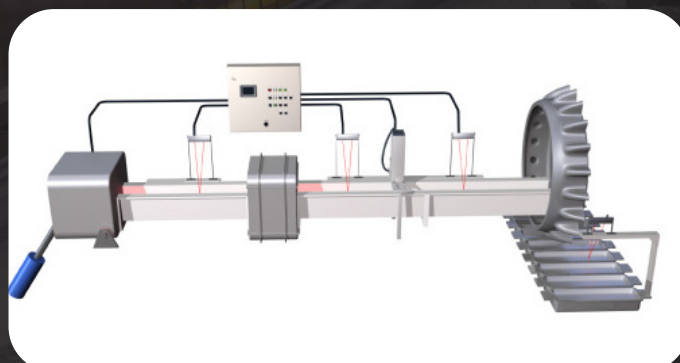
- Anode Slotting (cut slots after baking)
- Anode Stub Inspection Systems
- Anode Butt Inspection Systems

### Reduction

- Pot Ramming Machines
- Anode Height Control Systems

### Foundry

- Rotary sand reclaimers
- Metal filtration systems (ceramic foam filters to remove tiny impurities)
- Non-contact metal temperature systems



## *Our Technology Partners*



Molten metal level control



## *Crushing, Screening, Blending and Bagging Operations*

Modular, Track mounted and Fixed Plant:

- Feeding
- Screening
- Crushing
- Blending
- Magnetic Separation

Commodities:

- Ferrochrome and Chrome Ore
- Cryolite
- Lime and Fluorspar
- Pig Iron and Iron Chips
- Titania Slag
- Copper and Zinc Concentrate
- Coal and Anthracite

Operations at client's premises or our own warehouse.



## *Refurbishment, Fabrication and Machining Services*



Our workshop specialises in repairs and refurbishment of process and ancillary equipment:

- Magnetic Drums
- Magnetic Rolls
- Feed rolls for Magnets
- Electrostatic Machine Components
- Screen Frames
- Chutes, Pipes and Hoppers
- Support Structures, Grating and Handrails
- Pulley Lagging and Lining
- Conveyors
- Dome Valves





# Minerals Processing and Materials Handling Technologies

## Mineral Separation Products

- Vibrating screens - wet or dry screens, ultra-fine screens, grizzly's, round screens, R-type screens
- Magnetics separators
  - o Magnetic drum separators - dry drums, wet drums, low intensity drums, rare earth mag drums
  - o Magnetic roll separators - mag rolls, perm rolls, induced magnetic rolls
  - o Magnets - plate magnets, grate magnets
- Metal detectors
- Electrostatic (HT) Separators
- Wash Plant Equipment - Spirals, Hydrocyclones, Flow distributors and product launders
- Laboratory Equipment - Rotary splitters, sieve shakers, carpco magnets, pulverisers and density scales.

## Materials Handling Equipment

- Vibratory feeders - rectangular, pipe and spiral
- Conveyors - Mobile, modular and fixed
- Pneumatic conveying
- HDPE Piping - supply and installation
- Low friction liners, wear resistant liners



## Our Technology Partners



## Client Portfolio



Richards Bay  
Minerals



TRONOX



mondi



Midal Cables  
Mozambique



KENMARE  
RESOURCES PLC



Tendele  
COAL MINING



## Company Information

### CONTACT INFORMATION

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🌐 [www.spectrumtechnical.co.za](http://www.spectrumtechnical.co.za)



### DIRECTORS

Christo Mienie & Kumaran Poonan



### ISO CERTIFICATION

Spectrum Technical is ISO 9001:2015 accredited

### BROAD BASED BLACK ECONOMIC EMPOWERMENT

Spectrum is 51% black owned and is B-BBEE compliant. Spectrum Technical is committed to develop staff and suppliers from previously disadvantaged communities in surrounding areas.

### SOCIAL IMPACT

Spectrum Technical sponsors internet to rural schools in the greater Richards Bay area.  
([www.donatedata.org.za](http://www.donatedata.org.za))