


SAISI MEMBERS

ArcelorMittal

ArcelorMittal South Africa Limited

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OVERVIEW

ArcelorMittal South Africa Ltd is the African continent's largest integrated steel producer, producing 7,1 million tonnes of liquid steel per annum with a staff headcount of 9 100. Established in 1928, the company, through its ongoing alignment with international best practices, has been forged into a modern, highly competitive supplier of steel products to the domestic and global markets.

ArcelorMittal South Africa's core businesses are flat and long steel products. The company has four major South African steel operations in Vanderbijlpark and Saldanha (flat steel products) and in Newcastle and Vereeniging (long steel products) and one bar and rebar mill in Maputo, Mozambique.

In addition, the company operates a metallurgical by-products processing division, ArcelorMittal South Africa Coke & Chemicals, formerly known as Suprachem. The division processes ArcelorMittal South Africa's coke battery by-products and operates two coke batteries in Pretoria and Vanderbijlpark, which are no longer required for the steel making process.

Flat Steel Products

The company's flat steel operations in Vanderbijlpark and Saldanha together produce 5,1 million tonnes of liquid steel per annum making it the largest supplier of these commodities in sub-Saharan Africa. ArcelorMittal Vanderbijlpark, ArcelorMittal South Africa's largest operation south of Johannesburg, produces 3.8 million tonnes of liquid steel per annum, which constitutes 80% of South Africa's flat steel requirements.

Extensive re-engineering and streamlining of this operation has anchored its position among the world's most efficient producers. The Vanderbijlpark plant is ranked among the world's lowest cash-cost producers of steel.

The Vanderbijlpark plant produces a range of high-grade products, including:

- Hot rolled steel coils;
- Hot rolled steel plate;
- Cold rolled steel coils;
- Hot dip galvanized steel coils;
- Electrolytically galvanised steel coils;
- Colour coated steel coils; and
- Electrolytic tin plate coils and sheets.



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ArcelorMittal Saldanha is the world's most technologically advanced and environmentally friendly steel mill, producing ultra thin hot rolled coil for stringent applications in select export markets in the Americas, Europe and Asia. The state-of-the-art plant produces 1.24 million tonnes of liquid steel per annum.

The product specifications for the mills hot roll coil are:

- Thickness: 1mm - 8,5mm
- Width: 900mm - 1 560mm
- Length: 300m - 2 300m
- Max coil diameter: 2000mm
- Max coil mass: 28 tonnes; and
- KIM value of coil: 18kg/mm width.



Long Steel Products

ArcelorMittal's Newcastle and Vereeniging operations, are South Africa's premier long steel producers, servicing 52% of the local market. The Newcastle mill in the Kwa-Zulu Natal Province and the Vereeniging mill in the Gauteng Province, together account for total sales of 1.9 million tonnes yearly. Of the 1.9 million tonnes of long steel produced per annum, 1,79 million tonnes is rolled profile products, 95 000 tonnes is seamless tube and 20 000 tonnes is forged products.

The Newcastle and Vereeniging plants' profile products range includes:

- Billets and blooms
- Bars
- Sections (heavy & light)
- Rebar
- Rails
- Wire rod
- Standards & droppers
- Window sections
- Forging products
- Seamless pipes

In addition, the Vereeniging mill seamless tube range includes:

- Seamless line pipes
- Seamless casing and tubing



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Vereeniging Steel's forge product range includes:

- Rounds
- Squares
- Flats
- Thick-wall tubes
- Step forgings, rings, disks and blocks
- Tool steels
- Stainless steels
- Hollow-bar
- Rise bore pipes

The SABS ISO 9002 Code of Practice for Quality Systems was adopted by all ArcelorMittal South Africa operations to ensure that only products of the highest quality are dispatched. In addition, ArcelorMittal South Africa Flat Products complies with the Lloyds Register, TÜV Rheinland, Material Certification and American Shipping Bureau quality standards, and ArcelorMittal South Africa Profile Products with the API quality standard.

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Cape Gate (Pty) Ltd

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Davsteel, the steel manufacturing arm of the Cape Gate group is situated in Vanderbijlpark.

The Marketing office is in Johannesburg.

Davsteel's main product range includes reinforcing bar in straight lengths as well as coils; light section profiles i.e. angles, flats and squares; and wire rod for the processing of wire and wire products. Davsteel's sister companies, Sharon Wire and Oren Wire, both also divisions of Cape Gate (Pty) Ltd, utilise most of the wire rod production for a wide variety of wire and wire products including staywire cable and scraper rope.

Cape Gate manufactures its products in accordance with domestic and international specifications. A stringent quality management system is maintained in terms of South African Bureau of Standards specification ISO 9002 of 1994. Reinforcing bar carries the SABS mark.

Cape Gate (Pty) Ltd, Davsteel division

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**COLUMBUS
STAINLESS**
— [Pty] Ltd —

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Columbus Stainless is based in Middelburg in the province of Mpumalanga. The company's origins date back to the RMB Alloys Ferrochrome Pilot Project in 1963 and the establishment of Southern Cross Steel Co Pty Ltd (stainless steel) in 1964. In 1968 it became the Steel Division of Middelburg Steel & Alloys (Pty) Ltd (stainless steel and ferrochrome) and in 1990 MS&A Stainless (Pty) Ltd was established. Columbus Stainless was formed in 1991 when the initial partners, Samancor and Highveld Steel, acquired the stainless steel facility of MS&A Stainless from the Barlow Group. A major "brown fields" project, in and around the existing works, began in February 1993 and was completed in September 1995.

On 1 January 2002 Acerinox, SA (Spain) acquired a 64% shareholding in Columbus Stainless (Pty) Ltd. The remaining shares were held equally by Highveld Steel and Vanadium Corporation, Samancor and the Industrial Development Corporation. On 13 May 2005 Highveld Steel & Vanadium disposed of its investments in Acerinox and Columbus Stainless. Acerinox increased its shareholding in Columbus Stainless by 12% from 64% to 76%. The remaining shares are held equally by Samancor Limited and the Industrial Development Corporation.

Columbus Stainless' product range of austenitic and ferritic grades is available in slab, plate, sheet and coil form in types 304/304L/316/316L/309/310/321/409/420/441/430 and 3CR12 and are normally manufactured to ASTM A240/A480 specifications but can be produced to all of the major international specifications on request. Columbus Stainless produces to South African Bureau of Standards specifications SABS ISO 001:2000 and SABS ISO 14001.



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Standard sizes	Gauge (min)	Gauge (max)	Width range
Hot Rolled			
Coil	3,0 mm	6,35 mm	1000 mm -1524 mm
Plate	3,0 mm	50,0 mm	1000 mm -1524 mm
Cold Rolled			
Sheet	0,3 mm	3,0 mm	1000 mm - 1524 mm

Standard finishes

- HR - Hot rolled (not annealed and pickled).
- HRA - Hot rolled and annealed (not pickled).
- No 1 - Hot rolled, annealed and pickled.
- 2B - Standard cold rolled.
- 2D - Cold rolled with a dull finish.
- No 4 - Polished sheet or coil.
- BA - Cold rolled bright annealed (mirror finish).



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Evraz Highveld Steel and Vanadium steelworks is situated in Witbank, with the domestic sales office in Johannesburg. The company was established in 1960 and the current annual rated capacity of the Steelworks is one million tons of hot metal cast into billets, blocks and slabs. From this, approximately 350 000 tons are rolled to medium/heavy structural sections, rounds and rails with about 200 000 tons rolled as plate and 180 000 tons as hot rolled coil. Semi-finished products, such as billets are cast or rolled, depending on market demand and steel availability.

The Evraz Highveld Steel product range consists of:

STEEL PRODUCTS

- Rolled billets
- Cast billets
- Cast blocks
- Cast slabs
- Universal beams
- Universal bearing piles
- Universal columns
- Universal joists
- Parallel flange channels
- Universal metric beams (on application only)
- Commercial rails
- Sleeper bars
- Rounds
- Plates
- Hot rolled coil and strip

ALLOYS AND VANADIUM PRODUCTS

At Transalloys, silicomanganese and medium carbon ferromanganese are produced for both the local and export markets.



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At Rand Carbide, ferrosilicon, as well as various carbonaceous products, are produced, mainly for the local market.

Vanchem produces a variety of vanadium products, including oxides, ferrovanadium, ferrovanadium nitrate and chemicals.

A fully certified system is in operation throughout all the various manufacturing processes. This system is documented in accordance with the requirements of DIN EN ISO 9002 –2000.

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The Scaw Metals Group works primary site and head office is located in Germiston, in the province of Gauteng. The company was established in 1937 and manufactures castings for the mining, general engineering, automotive, transportation and power generation industries, rolled steel products, grinding media, agricultural implements and has extensive fabrication and machining facilities.

The Scaw Metals Group product range consists of:

- Billets.
- Wire rod in coil to various international specifications from low carbon to high carbon for deep drawing critical applications, in sizes 5.5mm to 16mm.
- Round bar in sizes 16mm to 60mm to various international specifications from low carbon to alloy grades.
- High tensile deformed bar from 10mm to 50mm and coil 10mm, 12mm and 16mm to international specifications.
- Plain reinforcing bars from 6mm to 50mm and coil from 6mm to 16mm.
- Equal angles 40x40x3 to 100x100x12.
- Flat bar 25x5mm to 110x40mm.
- Channels 76x38x6,70Kg/m and 100x50x10,60Kg/m both taper flanges.
- Squares from 16mm to 40mm.
- Cut to length and painted fencing droppers and "Y" standards.
- Alloy iron castings, steel and alloy castings up to 25 ton, cast and forged grinding media.

Total crude steel production capacity of Scaw Metals Group is about 500 000 tons per year.



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Stringent quality management is maintained in terms of the South African Bureau of Standards Practice for Quality Systems SABS ISO 9002.

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