Efficient Engineering is not just another name in the steel fabrication, CNC machining, manufacturing and heavy engineering industry. It is a company that prides itself with a team of highly qualified professionals, with more than 40 years of experience.

The company was founded in 1968, as a one man operation, based in Ophirton, Johannesburg with a rental space comprising of a 3m² bench. The owner, Giuseppe Cimato, manufactured the cabs and operator cabins for forklifts and trucks. He would cut, machine and weld the majority of components, while contracting the grinding tasks out due to his limited capacity.

Quality was Giuseppe's founding motto and the cornerstone he built his company on. As this small scale engineering firm started thriving, its focus shifted to heavy engineering. To keep up with these new developments, and the increasing demand for high quality workmanship, larger premises were required and the company moved to a new factory in Sebenza.
Giuseppe's son, Tony, joined his father in the family business in 1983, working as a boiler maker. In 2000, with over 16 years of hands-on experience in the company, Tony was given the opportunity to manage the business, after his father's retirement.

For the next six years the company grew from strength to strength and the Sebenza operation expanded into a 4 000m² facility. The constant demand from major industry players continued, and Efficient Engineering outgrew the factory space in Sebenza. A considerably larger production area was vital to Efficient's growth.

In October 2006, Phase I of the new factory was erected in Elandsfontein which could provide for a 6 300m² production area and Efficient Engineering's new head offices. These new facilities enabled the company to manufacture larger components, and allowed them to keep their machine blasting and painting capabilities.

The demand for Efficient Engineering's high quality workmanship continued and lead to the construction of Phase II at the end of 2008. Phase II added another 4 200m² of production space. A few months later, in March 2009, Phase III was completed, with a 2 000m² workshop dedicated specifically to sheet metal fabrications.

In 2012, Phase IV and Phase V were commissioned. Phase IV provides for an 8 600m² fabrication facility, administration offices, staff ablutions and a canteen. The fabrication facility houses a 100 ton crane with a 50 ton auxiliary hoist and height of 19m under hook.

The company's facilities now boast a total of four buildings on three sites with a total of 21 800m² of manufacturing space. Efficient's current throughput amounts to about 1 000 tons per month.

Efficient Engineering is as efficient as its name suggests. The company employs a team of highly qualified and experienced welders and boilermakers, who manufacture to international quality standards, using state-of-the-art machinery and industry leading manufacturing processes.

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**THE LIST OF MANUFACTURING CAPABILITIES INCLUDE:**

- Reactors
- Pressure vessels – horizontal and vertical
- Heat exchangers – fixed, floating and U-tube bundles and coils
- Boilers – steam and mud drums
- Packed columns/scrubbers, dynamic structures etc.
- Evaporating and crystallizing pans
- Pressure filters/vacuum filters
- Distillation columns
- LPG bullets and road tankers
- Silos
- Base frames for heavy machinery of various kinds
- Storage tanks to API 620, API 650, BS 2654 and EN 14015
- Plant process piping
- Ducting
- Fired heaters and process piping
- Free-standing stacks
- Scrubbers
- Furnaces
- Hoppers
- Forced draft coolers
- Rotary kilns and base frames
- Modular electrical sub-stations
- Terrace coal and ash handling plants
- Bowls for off highway mining truck, rigid and articulated dump truck
- Wheel loaders and TLB buckets
- Dragline parts such as bases, booms, rigging, buckets
- Electric mining and hydraulic shovel spares
- Exploration and reduction drills
- Earth moving equipment
- Structural steel sections, e.g. conveyors
- Ship loaders and un-loaders
- Crane beams
- Continuous reclaimers and stackers
- Tippers and chutes
- Charge buckets etc.
- Bucket wheel scrapers
- Wagon tippers
- Tripper cars
- Service trucks
- Water tankers
- Photovoltaic structures and enclosures etc.
- ADT and rigid truck based water tankers
- Diesel bowers and service units
The company holds an ISO 9001:2008 certification as well as an ISO DIN EN 3834-2 certification awarded by TÜV Rhineland inspectorates.

Efficient Engineering recently went through a benchmarking audit and received favourable recommendations from the international group UNIDO SPX. They exceeded the benchmark average and are positioned well above industry norms.

Efficient is a proud contributor to South Africa’s BBBEE programme and has a Level 5 BBBEE rating as well ‘Value Added Supplier’ status.

After establishing themselves as a leader in the fabrication of earth moving and materials handling equipment, Efficient Engineering opted to diversify into another area, namely the fabrication of pressurised equipment for the chemical, petrochemical and nuclear industries.

To be a leader in these industries, they had to appoint a competent team of engineers in the various fields of pressure vessel design, welding, quality assurance and control, procurement, project management, fabrication, inspection and testing. Efficient Engineering is now in the fortunate position to have all of these disciplines in-house and is driven by a team with many years’ experience.

The company’s long list of capabilities includes off-site modularised substation construction. They have been producing high-end modular and non-modular enclosures for use in a vast array of applications for many years. The design and fabrication of these units have been perfected over time and they are now in a position to produce a world-class product for their local clients.

Their list of facilities includes over 40 overhead cranes with some having a maximum capacity of 100 tons; blasting and painting under roof; machine shop facilities; in-house heat treatment; highly sophisticated software; state-of-the-art welding machines and equipment.

LIST OF CUSTOMERS

- Actom
- Air Liquide (Lurgi)
- Anglo American
- ArcelorMittal
- Barloworld Equipment
- Bateman
- Caterpillar
- Conco (Consolidated Power)
- De Beers Mines
- DEMAG Cranes
- ELB Engineering Services
- Electro Systems
- Franklin Electric (Howden)
- Foster Wheeler
- Group 5
- Hatch (TFM Mining)
- Hytec
- IFS (Industrial Fluid Solutions)
- IMS Engineering
- Joest (Vibrating Screens)
- KBR (Kellogg Brown and Root)
- Komatsu
- Kumba Iron Ore
- Malvern Engineering
- Megchem (Pty) Ltd
- Optimum Colliery
- PetroSA
- RBCT
- RNE Engineering
- Rockwell Automation
- Sasol Technology
- Sasol Synfields
- Sandvik
- Sirius Projects
- Schneider Electric
- Sedgman Mine
- Senet
- SH & E (Special Handling Equipment)
- Siemens
- SNC Lavalin
- Takraf (Tenova)
- ThyssenKrupp
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