



FABRICATION & CONSTRUCTION

COERTZEN ENGINEERING CONSULTANTS (PTY) LTD

FOR ALL YOUR FABRICATION AND CONSTRUCTION NEEDS

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1. OVERVIEW

CEC was established as a steel fabrication company in 2005.

Our well experienced professional management team has over 250 years of experience.

Under the management of Francois Coertzen, CEC has in 18 years proven themselves as a steel fabricator to be reckoned with, from light to heavy engineering in both mild and stainless steel.

Our workshop team consists of qualified Boilermaker and Welder Foremen, 2 qualified QA/QC inspectors, Boilermakers, Welders, Operators and General Labourers. As support to the workshop we have a dedicated material controller, store-man, project manager, full document control and a dedicated safety officer. Our employees form the backbone of our business.

CEC specializes in the fabrication of process plant equipment and various other customer specific requirements. To name a few, we manufacture Storage/Pressure/Demister/water Purification Vessels, Heat Exchangers, Sumps, Chutes, Flotation Cells, Thickener Tanks, Silo's, Piping, Ducting, Dragline Buckets, Copper Panels and Fans.

CEC continuously strives towards the provision of quality workmanship, productivity and timely delivery, ensuring customers' requirements are not only met, but exceeded.

2. INDUSTRIES

- MINING
- PAPER & PULP
- SUGAR
- PETROCHEMICAL
- POWER GENERATION
- GAS & OIL
- AGRICULTURAL
- FORESTRY
- TRANSPORT
- FMCG
- WATER
- PHARMACEUTICAL
- RAILROADS

3. CAPABILITY SUMMARY

Our workshop consists of three bays with 5000 square meters under overhead cranes. Our Overhead Cranes :

- 3 x 10 Ton cranes,
- 1 x 20 Ton crane and
- 2 x 50 Ton cranes in our Super Heavy Bay.

Our Impressive Super Heavy Bay is 23 meters high with 16.7 meters under hook of crane.

We further supplement our super heavy bay operations with a 6m x 5m x 1000 AMP boom welder and manipulators.

400 AMP Generator ensures no down time during electricity supply interruptions.

Mild Steel and Stainless steel manufacturing is done in separate bays to avoid any contamination.

We have an outside storage area of 12 444 square meters.

Plate work processing includes rolling, cutting and bending.

Welding capabilities are: GTAW, SMAW, FCAW, GMAW and SAW.

All required employees are provided during Shutdowns and for large projects. They are all suitably qualified, trained and task competent.

63 Permanent employees and any additional requirements are met by contractual labour.

The company has shown growth over the past 18 years with various expansions to the workshops, equipment, painting & storage areas.

Mobile cranes and forklifts are used in our sand blasting, painting and storage area.

Our offices and stores comprise 1 150 square meters.

4. ADDITIONAL SERVICES PROVIDED

Over and above steel fabrication , CEC further offer a one-stop service by providing the following additional services :

- Design and Detailing services (Outsourced)
- Project Management
- In-house Machine Shop with the following:
 - Boring mills
 - Lathes
 - Radial arm Drills
 - Milling machines
 - Pipe Roller
 - Tread Cutters
- Sandblasting, Rubber lining and Painting
- Site construction
- Site installation of a wide range of equipment
- Turnkey shutdown and maintenance services

5. FABRICATION & REFURBISHMENT

CEC not only fabricates, but also undertake Non Destructive Testing and Repairs of Heavy Fabricated Equipment for the mining industry.

Some of the equipment includes but are not limited to:

- Pressure Vessels
- Elution Columns
- Dual Media Filter Vessels
- Linear Screens & Cloth Rollers
- Heat Exchangers
- Flotation Cells
- Dragline Buckets, Chains, dump Blocks & Spreader Beams
- Bowls, Discharge Buckets & Ladle Roofs
- Top Shell c/w all Water Cooled Mild Steel and/or Copper Panels
- Balancing and Sintering Hoods
- Dragline walking shoe
- Fans/Impellers, Shafts and Housings
- Face shovel buckets
- Pipes
- Augers
- Complete Thickener c/w all Internals and Bridge
- Dipper Handles
- Paddle Mixers
- Structural Work including Handrails, Gaurds and Grating
- Tundishes
- Tanks, Chutes & Ducting's etc.

6. QUALITY

CEC is committed in delivering quality projects in a safe and environmentally conscious manner.

Quality at CEC applies to all employees, contractors and all people under the management and control of CEC. We believe in uncompromising quality, which is the pride of our business.

Our integrated Health, Safety, Environmental and Quality (SHEQ) Management System is lined up with third party certified bodies which include:

- ISO 3834-2 Certified Company
- ASME VIII Div. 1 App 10 Certified Company

Welding Procedures Qualified According to Job Specific Requirements
I.E. ASME IX, AWS D1.1 or D1.6, BS/EN Codes

Fabrication In Various Materials - To Name a Few

Mild Steel - S355JR, Hard Wearing Plates, Boiler Plates SA516 Gr60/70, & 430

Stainless Steels: 3CR12, 304, 316, 310, 321, 904, SAFF2304, SAFF2205, SAFF2507, LDX2101

Copper

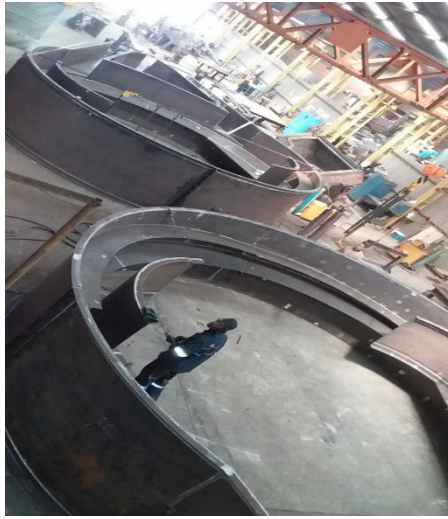
7. CLIENTS INCLUDE:

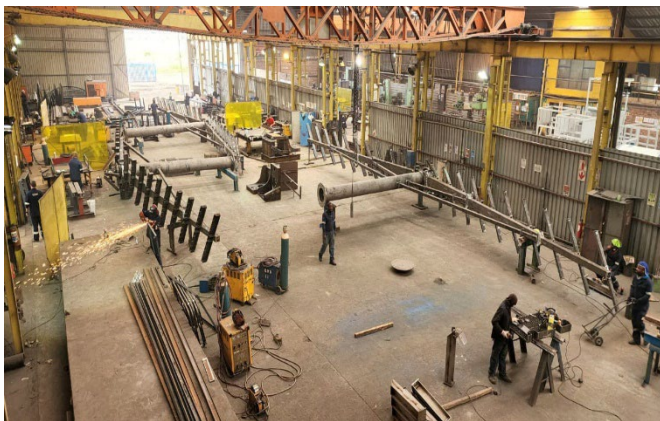
- | | |
|----------------------|--------------------------------|
| • Roytec | • Westech |
| • SCAW Metals | • Cast Products |
| • PPTech | • Protherm |
| • Sibanye | • Kemplant |
| • Simco Mining | • Ferroglobe |
| • Andritz | • Pressure System Capabilities |
| • Tenova Takraf | • Glencore |
| • Aveng Rail | • Calderys |
| • Hernic Ferrochrome | • Flsmidth |
| • Assmang | • And many more... |
| • UltraGear | |

8. FABRICATION GALLERY

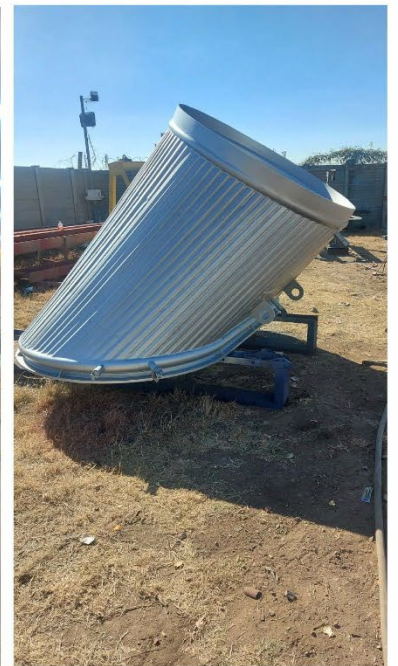
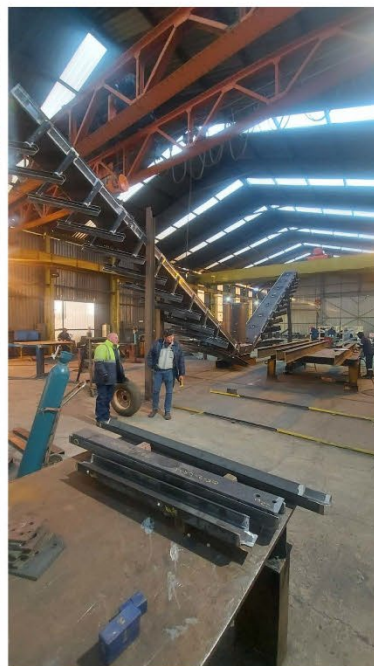
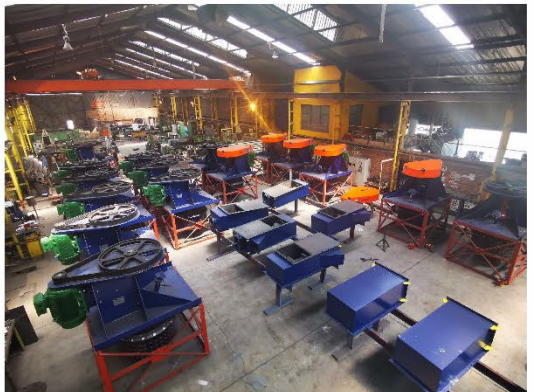
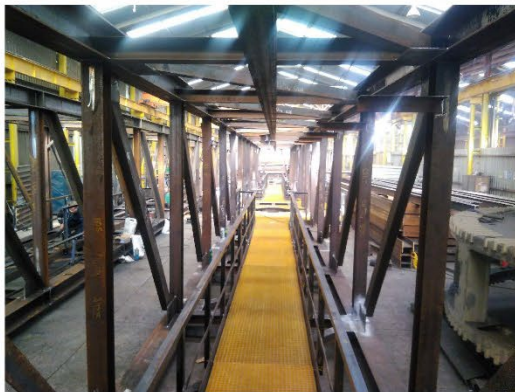












9. MACHINING

We have a fully equipped medium sized machine shop which serves as service department to the fabrication workshop.

This provides control over lead times and ensures that quality control is monitored continuously.



10. SITE CONSTRUCTION AND INSTALLATION

We have vast experience in site construction. Our track record has proven our capabilities in pipe installations, structural steel, shutdowns and repairs.

To mention a few, we have in the past done notable field projects at Mittal, Lonmin, GEA water drumming building (Hage) and Scaw Metals.

11. SAFETY

We constantly monitor and carry out regular on site health and safety audits to ensure that we comply with the OHS Act and applicable regulations.

12. CEC COMMITMENT

At CEC we are firmly committed to BEE and EE compliance and continue to focus our efforts on this important responsibility. We are proud to be a Level 2 Contributor to BBBEE.

Customer satisfaction is at the heart of all CEC activities. In order to fully satisfy our clients' needs, CEC includes all employees in quality control activities.

Everybody, from project management, planning, detailing, fabrication, corrosion protection and delivery, contribute to the quality control process.

All employees have two roles, their own job and quality assurance.

13. CONTACT DETAILS

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