



Company

Profile



Drew Engineering

Where quality meets quantity

Table of Contents

Our Story	page 3
Our Services	page 4
Design & Draughting	page 4
Machining	page 4
EPCM & Turnkey Project Capability	page 5
3D Laser Scanning & Site Data Capture	page 5
Fabrication	page 5
Mining Plant & Process Engineering	page 6
Equipment Refurbishment, Installation & Alignment	page 6
Reverse Engineering & OEM Component Supply	page 6
Laser Cutting, Profiling & Plate Processing	page 6
Draughting Capabilities	page 7
Machining Capabilities	page 8
Fabrication Capabilities	page 9

Details Contact

Reg. No: 2023/717050/07

A.J. Stadler

Cell: 066 256 7052

Email: aj@dreweng.co.za

Kenneth Stadler

Cell: 072 542 8060

Email: kenneth@dreweng.co.za

Address: 57 Jannie de Waal Str, S.W.1, Vanderbijlpark, 1911





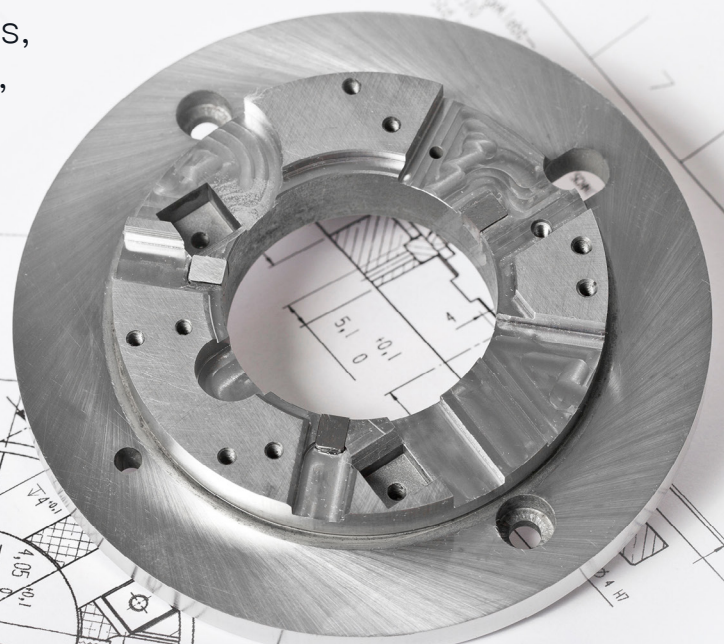
Our Story

At **Drew Engineering**, we bring ideas to life through precision, creativity, and a passion for practical design.

Founded and operated by two brothers, our business offers a variety of professional services including engineering design & draughting, machining & fabrication, 3D prototyping, 3D laser scanning, and specialized bending services.

With years of combined experience in structural, mechanical, and civil projects, we pride ourselves on delivering solutions that are not only functional but also efficient and cost-effective. Whether it's developing a new product from concept to completion, reverse engineering existing components, or producing detailed fabrication drawings, our team ensures every project meets the highest standards.

We work closely with our clients to understand their needs, adapt to their challenges, and provide practical, innovative solutions - turning ideas into reality, one design at a time.





Our Services



DESIGN & DRAUGHTING

- ▶ Structural and mechanical draughting
- ▶ 3D Modelling
- ▶ Fabrication ready drawings & site documentation
- ▶ Structural steel assemblies and mechanical component detailing
- ▶ Mechanical Engineering
- ▶ Structural and Civil Engineering
- ▶ Electrical & Equipment Integration
- ▶ Detailed engineering & construction documentation
- ▶ OEM Reverse engineering and redesign for performance improvement
- ▶ Pressure vessel design in accordance with applicable codes



MACHINING

- ▶ In-house CNC machining
- ▶ Conventional machining for specialised applications
- ▶ Small-to-medium batch production
- ▶ Tight tolerance machining for industrial components
- ▶ Product design / development (start - finish)





EPCM & TURNKEY PROJECT CAPABILITY

- ▶ Conceptual & Feasibility Studies
- ▶ Detailed multi-discipline engineered designs
- ▶ Procurement and supplier management
- ▶ Fabrication and manufacturing
- ▶ Site installation, mechanical and structural erections
- ▶ Laser alignment and precision installation
- ▶ Cold and hot commissioning support
- ▶ As-built documentation & handover

Drew Engineering operates as a small-to-medium EPCM contractor capable of delivering turnkey engineering solutions from concept through to commissioning.

Our integrated capabilities allow us to manage engineering, procurement, fabrication, installation and commissioning under one coordinated scope, significantly reducing project risk and interfaces for our clients.



3D LASER SCANNING & SITE DATA CAPTURE

- ▶ Scan to CAD modelling
- ▶ As-built plant and equipment models
- ▶ Reverse engineering of worn or modified components
- ▶ Clash detection for new installations
- ▶ Dimensional verification and QA reporting
- ▶ Pre- and post-installation verification



FABRICATION

- ▶ Manufacturing of frames, platforms, brackets, enclosures, and custom structural assemblies.
- ▶ Precision welding, cutting, and bending.
- ▶ Assembly and finishing to meet strict quality, durability, and dimensional standards.





MINING PLANT & PROCESS ENGINEERING

- ▶ Gold processing plants
- ▶ Platinum processing plants
- ▶ Iron ore processing plants
- ▶ Crushing and screening circuits
- ▶ Milling circuits (SAG, ball mills, associated auxiliaries)
- ▶ Bulk material handling systems
- ▶ Refurbishments



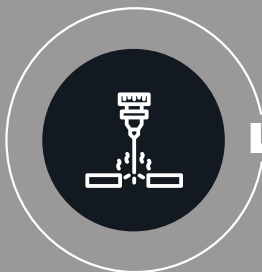
EQUIPMENT REFURBISHMENT, INSTALLATION & ALIGNMENT

- ▶ Refurbishment of crushers, mills, gearboxes and mechanical assemblies
- ▶ On-site and workshop-based rebuilds
- ▶ Laser alignment: Mill drive trains, Kilns, Gearboxes, Couplings and rotating equipment



REVERSE ENGINEERING & OEM COMPONENT SUPPLY

- ▶ OEM-equivalent replacement parts, i.e Girth Gears, Pinions, White Metal Bearings etc.
- ▶ Design improvements over original OEM designs
- ▶ Material upgrades and manufacturability improvements
- ▶ Full engineering justification and drawings
- ▶ In-house manufacturing and quality control



LASER CUTTING, PROFILING & PLATE PROCESSING

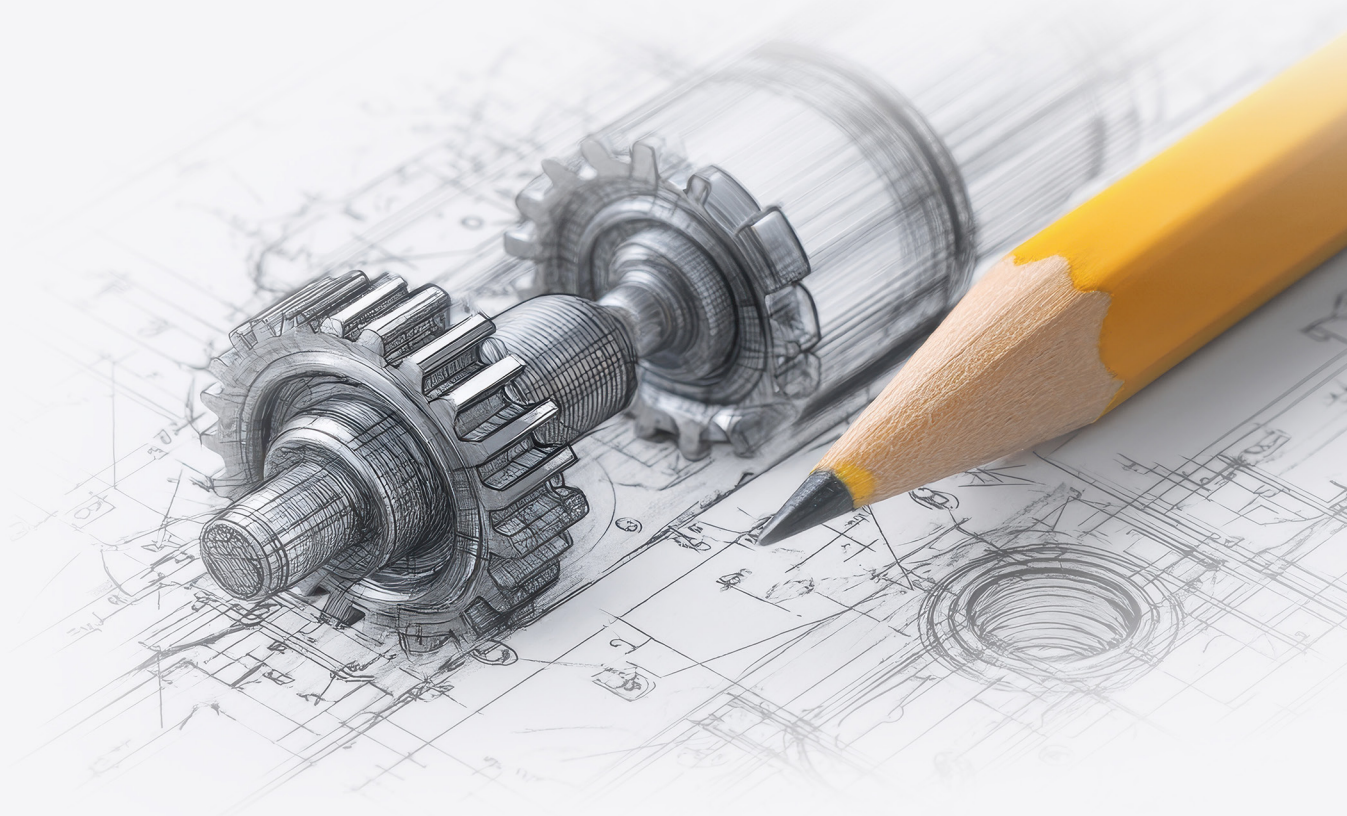
- ▶ Precision laser cutting
- ▶ CNC press braking
- ▶ Rolling and forming
- ▶ Weld preparation profiles
- ▶ Kit based fabrication supply
- ▶ One-stop steel supply and processing



Draughting

Capabilities

- ▶ Structural Draughting.
- ▶ Mechanical Draughting.
- ▶ Civil Draughting.
- ▶ Assembly and installation documentation.
- ▶ Reverse engineering of parts and assemblies.
- ▶ Scan to CAD 3D Modelling.
- ▶ Clash detection of new equipment compared to existing equipment or structures.
- ▶ FEA Analysis.
- ▶ DEM Analysis.



Machining

Capabilities

- ▶ Centre Lathe: 800mm Swing x 4m Long cross saddle
- ▶ Centre Lathe: 700mm Swing x 3m Long cross saddle
- ▶ Centre Lathe: 400mm Swing x 1.5m Long cross saddle
- ▶ Centre Lathe: 300mm Swing x 2.5m Long cross saddle
- ▶ Horizontal Boring Mill: 103mm Spindle x 1.1m x 1.3m digital readout
- ▶ Milling Machine: 400mm x 1.2m bed
- ▶ CNC Milling Machine: 400mm x 1m bed
- ▶ Pedestal Drill: 2 off - 500mm x 500mm bed
- ▶ Radial Arm Drill: 1.5m Swing x 1m Travel
- ▶ Vertical Boring Mill: 1.15m Swing x 800mm cross saddle
- ▶ Thread Cutting Machine: M16 - M48 x 6m



Fabrication

Capabilities

- ▶ Straight Line Cutters: 70mm Thick
- ▶ Mag Base Drill: Dia. 35mm
- ▶ Brake Press: 200 Ton x 3.2m
- ▶ Press: 125 Ton
- ▶ EBU Eccentric Press: Adjustable Stroke 75 Ton
- ▶ Guillotine: 12mm x 3.2m
- ▶ Roller: 1mm x 2.7m Long
- ▶ Roller: 6mm x 1.2m Long
- ▶ Stick Welders: 4 x 500 AMP
- ▶ Stick Welders: 3 x 300 AMP
- ▶ CO2 Welders: 5 x 500 AMP
- ▶ Holding Oven: 450kg
- ▶ Hot Box: 4 x 15kg
- ▶ Hole Punch: Max 16mm plate x Dia. 22mm holes
- ▶ Forklift: 5 Ton
- ▶ Forklift: 2.5 Ton

