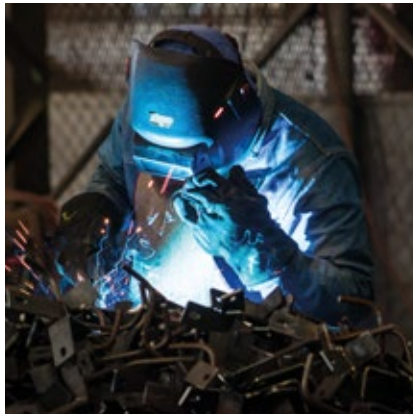




STEEL PLATE SOLUTIONS



PLASMA & PROFILE CUTTING,
BENDING & ROLLING, LASER CUTTING,
QUENCH & TEMPERED PLATES,
PRESSURE VESSEL PLATE,
PILING



COMPANY PROFILE

Steel Plate Solutions (Pty) Ltd focuses on adding value to steel and assisting its customers engineering processes by cutting, bending, rolling and drilling as well as fabrication, blasting and painting of steel components.





ABOUT US

Steel Plate Solutions (Pty) Ltd is a South African company providing steel plate products and services to customers in South Africa and sub-Saharan Africa.

We offer a complete range of steel plate products including standard structural steels, pressure vessel grades, abrasion resistant and quench and tempered plate.

Steel Plate Solutions (Pty) Ltd focuses on adding value and assisting its customers engineering processes by cutting, bending, rolling and drilling as well as fabrication and blasting & painting.

We pride ourselves in being the only South African manufacturer of sheet piles for use in foundation and marine applications. We are also a producer of steel pile casings for use in infrastructural projects from jetties to mining applications.

VISION

To be the most respected steel plate service center in South Africa, known for its exceptional quality, on time delivery, excellent customer relations and continuous growth.

MISSION

To delight our customers with products and services which exceed their expectations, through continuous development of our people and systems.

We focus on adding value to steel products and assisting our customer's with their engineering requirements.

SERVICES

- ▶ Highly skilled estimating and draughting department (drawing programs include Sigmanest & AutoCAD)
- ▶ 3 x Bending brakes (450t; 400t and 250t)
- ▶ Chamfering/welding bevels
- ▶ Plate rolling up to 50mm thick
- ▶ High definition plasma cutting
- ▶ CNC profile cutting
- ▶ Blast and paint plant
- ▶ Brand new fiber laser cutting machine 4 x 2 plate format

PRODUCTS

- ▶ S355 and mild steel
- ▶ Q&T plates: 400 and 500 BHN
- ▶ Pressure vessel plate: ASME/ASTM/EN
- ▶ Boom and arm submerged ARC welding machine-fabrication of heavy wall pipes and pile casings from plate
- ▶ Fabricated beams - we fabricate heavy engineered steel beams from plate

01 PLASMA & PROFILE CUTTING

PLASMA CUTTING

3 x High Definition Plasma Machines

- ▶ 56m long x 3.5m bed
- ▶ Can cut plate up to 32mm thick
- ▶ Tolerance: 0.5mm

PROFILE CUTTING

3 x Profile Machines

- ▶ Burny 2.5 CNC Profile machines
- ▶ 3m wide - 3 torches
- ▶ 2.5m wide - 4 torches
- ▶ Can cut plate up to 250mm thick
- ▶ Tolerance: 2 - 3mm



“

Our HD plasma and CNC profile machines can cut in excess of 600 tons of plate per month.

”

02 BENDING & ROLLING

PLATE BENDING

Bending Brake

- ▶ 6m x 450 Ton
- ▶ 3mm - 40mm thickness
- ▶ 4m x 250 Ton
- ▶ 2.5m x 400 Ton

PLATE ROLLING

4 x Rolling Machines

- ▶ 2 x 3m x 40mm pinch rolls
- ▶ 1 x 3m x 12mm roll
- ▶ 1 x 1.5m x 6mm roll



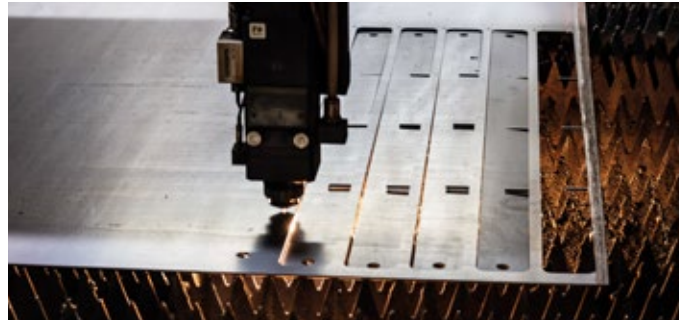
03 LASER CUTTING

BODOR 1,5KW FIBER LASER

- ▶ Bed Size: 4000 x 2000mm
- ▶ Carbon Steel cutting range: 1mm - 10mm
- ▶ Stainless Steel cutting up to 6mm
- ▶ Precision cutting to tolerance levels of 0,2mm
- ▶ Etching of bend lines and plate marking (if required)

TRUMPF 5KW CO2 LASER

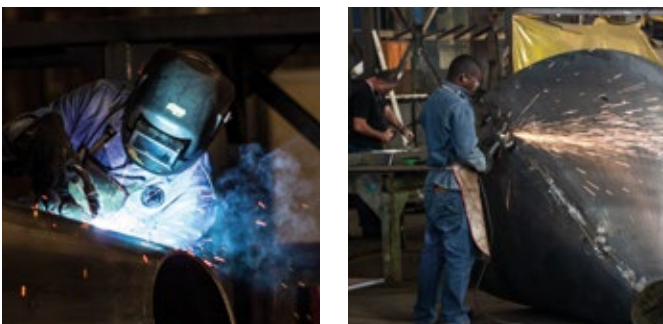
- ▶ Bed Size: 4000 x 2000mm
- ▶ Carbon Steel cutting range: 4mm - 25mm
- ▶ Stainless Steel up to 16mm
- ▶ Precision cutting to tolerance levels of 0,5mm
- ▶ Vacuum plate loader



“

Precision high-speed laser cutting of all steel grades.

”



“ Our capabilities include MIG, CO2 ARC, Plasma, Oxy-Acetylene and more. Quality inspections are done at every hold point of production. ”

04 WELDING & FABRICATION

CO2 WELDING

- ▶ To API 650 standards
- ▶ Coded welding and NDT done if required

SUBMERGED ARC WELDING

- ▶ High deposition rates
- ▶ Typically on barrels
- ▶ High operating rate

We have a fully fledged boilershop with qualified boilermakers and skilled welders.

- Pipe and pipe specials fabrication from plate or pipe
- Structural steel, beams and columns
- Hoppers, chutes, tanks, storage bins
- Stairs, landings, handrails, walkways

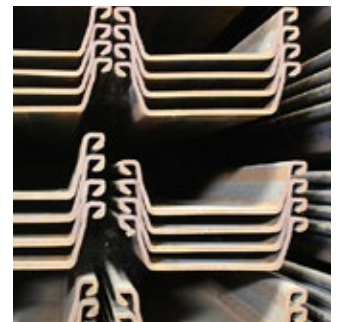
05 QUENCH & TEMPERED PLATES

GRADES

- ▶ 400 , 450 and 500 BHN Hardness steel grades stocked
- ▶ S690QL and 700MC High Yield plates
- ▶ 12000 x 2500mm and 6000 x 2500mm plate sizes
- ▶ 8mm - 80mm thickness range

The above plates are suitable for high wear applications such as liner plates and scraper blades.

S690QL is suitable where high yield and tensile strengths are required such as crane booms and Heavy Duty Low Bed bodies.



06 PRESSURE VESSEL PLATE

GRADES

- ▶ ASME SA516 G60N
- ▶ ASME SA516 G70
- ▶ P355NL2

PVP PLATE

- ▶ 12m x 3m, 6mm - 40mm thick
- ▶ 6m x 3m, 50mm - 100mm thick

TESTING

- ▶ Tensile through thickness
- ▶ H.I.C. to NACE
- ▶ Impacts to your requirements
- ▶ Ultrasonic

Our pressure vessel plate provides strength, durability and shape properties under arduous temperature and pressure conditions.

07 PILING

PILE CASINGS

- ▶ 457mm - 3000mm diameter casings
- ▶ 6mm - 35mm wall thickness
- ▶ 1m - 15m lengths
- ▶ Blasted and coated to specification
- ▶ Non-destructive testing done to specification

SHEET PILING

- ▶ 6mm, 10mm, 12mm wall thickness
- ▶ 12m length standard

The sheets are cold bent using a large press brake that forms a flat plate into the specified profile.

All sheets are fabricated to EN10249-2 specification. Sheet piles are supplied with welding procedure and quality control procedure documents. All welding and final dimension inspection is checked prior to dispatch.

Interlocks are suitable for sealing with bitumen or epoxy sealant prior to installation.


“ All sheet piles are fabricated or manufactured from EN10025:S355 steel plate. ”


The result is a cold formed U-series sheet pile suitable for hard driving conditions and applications such as cofferdams (land and water), low embankments, light marine work and shallow excavations. It is recommended that a minimum of 40% of the sheet pile length is securely driven into the ground.

**“WE TAKE STEEL
TO THE NEXT
LEVEL”**

SPS
STEEL PLATE SOLUTIONS

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