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EASY ENGINEERING SOLUTIONS



**TURNKEY SOLUTIONS FOR THE HEAVY
INDUSTRIAL ENGINEERING SECTOR**

Company Profile

Easy Electric Mechanical (Pty) Ltd is a Level 2 Broad-Based Black Economic Empowerment company based in eMalahleni, dedicated to delivering **high-quality service and exceeding customer expectations.**

With a strong focus on precision, reliability, and customer satisfaction, we provide turnkey solutions through our three core divisions: **Machining, Thermal and Electrical Insulation and Fabrication.**

Our team consists of experienced professionals **committed to excellence.**

We offer **market-related pricing** while ensuring superior workmanship.

Equipped with cutting-edge technology, including a newly imported laser cutter, we handle **in-house cutting of 304L Stainless Steel (up to 16mm thick) and S355JR (up to 20mm thick) on a 4m x 2m bed,** ensuring efficiency and accuracy.



Our Expertise

We specialise in providing high-quality **thermal and electrical insulation material and innovative solutions.**

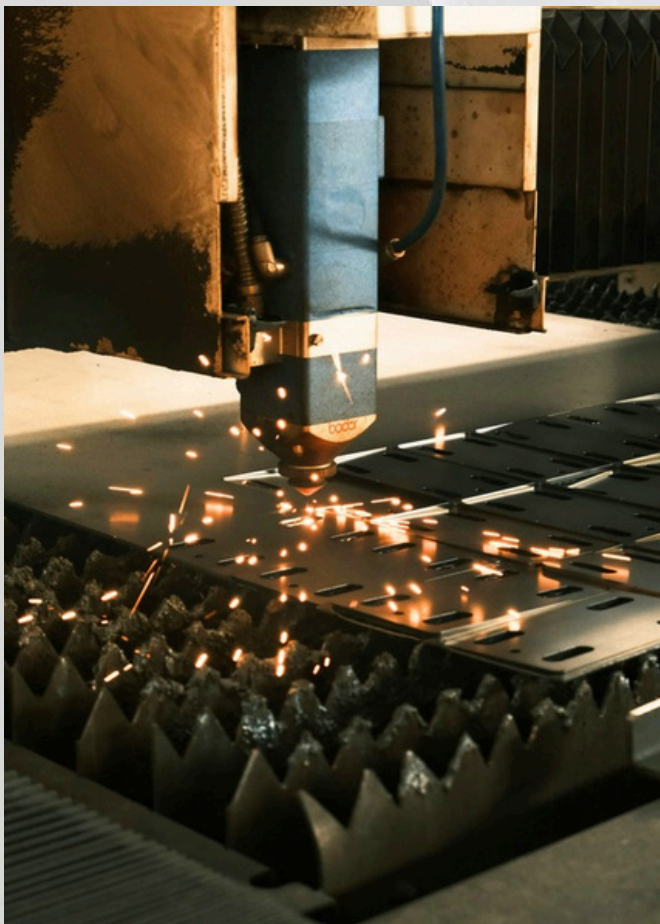
We import directly from our supplier with commitment to sustainability and cutting-edge technology to supply and cut according to drawings and dimensions. We take pride in our fast turnaround times and efficient lead times.

Our product range includes:

- **G7, G10, G11 tubing**
- **Mica P, Mica M, SG200 (HST11), GP03, NAD500 sheets**

Mica P, in particular, has proven to be a superior insulation material, offering exceptional **thermal, dielectric strength and arc resistance.**

Whether for large-scale infrastructure projects, small scale manufacturing, or custom solutions, we ensure **timely, cost-effective, and durable materials.**



Machining:

- Ladle trunnions
- Suspension links / Contact shoe hanger
- Studs
- Pins
- Shafts (drive and non-drive)
- Bushes (phosphor bronze PBI)
- Sheave wheels
- Flat wheels
- Clamp ring pins
- Screw Conveyers
- Pulleys complete
- Rollers complete with bearings and pins
- Pinions
- Flanged wheel
- Spacers
- Turnbuckles
- Gears
- Case hardening
- Nitration

Materials used:

We work with a diverse range of **high-performance materials**, including:

300 WA M/S

304L / 316 Stainless Steel

Phosphor bronze

EN3A-EN24 "T"

Cast iron & Cast steel



Coneyor Screw



Feedpipe Stubbies



Trunnions



Ladle Trunnion (Shrink Fit)



Flanged Wheels



Pulleys

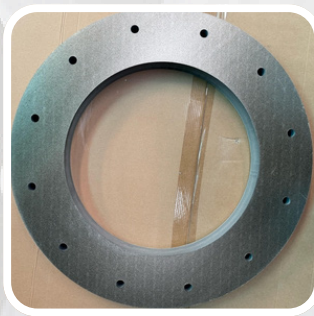
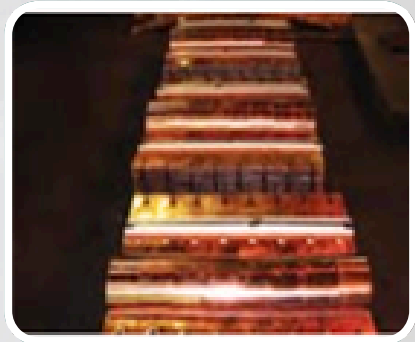
Insulation:

We are able to fulfill any insulation requirements by the manufacture and supply of the following:

- **Electrical & Thermal Insulation Components** for submerged arc and induction furnaces
- **Copper Busbars** (flexible and bulkheads) with insulation
- **Fabric and Metal Expansion Joints**
- **Gaskets & Thermal Insulation Solutions**

Materials used:

MICA GP03 NAD500 SG200 SILICONE GLASS



Fabrication:

Furnace components (new and refurbishment) including but not limited to:

- Furnace shell
- Water-cooled Smoke-hood
- Water-cooled Electrode Seal Ring
- Water-cooled Feed Discharge Chute
- Water-cooled Heat Shield/Cover
- Water-cooled Gas OffTake/Stack
- Water-cooled Smoke-hood Side Walls
- Water-cooled Throat
- Water-cooled Mantle
- Tap Hole Panel
- Tap Hole Spout
- Furnace Ladle
- Ladle Tapping Wagon
- Chutes
- Feed Chutes Chromuim Carbide & Vr400
- Coneyor Structures
- Flat Wheel Fork/ Bracket
- Slide Gates
- Rotating Skirt
- Stinger
- Tape Fume Ductings
- All stuctural repairs and new installations

Materials used:

We work with a diverse range of **high-performance materials**, including:

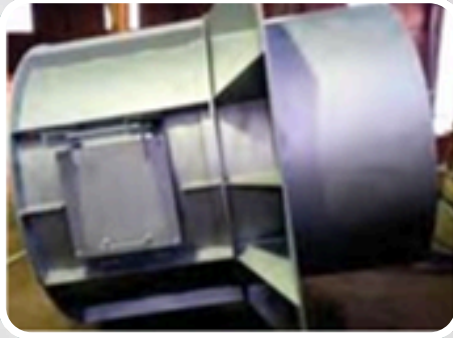
- **304L / 316 Stainless Steel**
- **Boilerplate**

Super Duplex Stainless Steel

- **VRN400, Hardox, Benox, and Chromium Carbide Plate**
- **300 WA Mild Steel / S355JR**



Feed Chute Tip



Gas Offtake Section



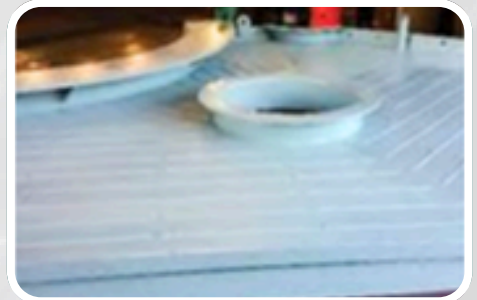
Furnace Duct



Ladle Tapping Wagon



**Water-cooled Center
Smoke hood Section 2**



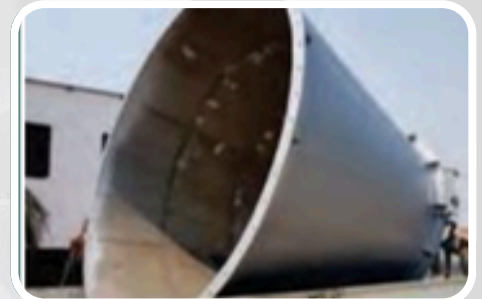
**Water-cooled Smoke
hood Section**



**Water-cooled center
Smoke hood section**



**Feedchute tips
complete with
refractory**



Cyclone Section



**Water-cooled gas
offtake section**

Our Clients

GLENCORE

GLENCORE – 305129

samancor 

SAMANCOR – 4019756



FERROGLOBE – EC22



TRANSALLOYS – EAS005



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