



WEG TRANSFORMERS AFRICA



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WEG Transformers Africa (WTA) is one of the largest manufacturers of mini substations and distribution transformers in South Africa. Operating two manufacturing facilities, one in Wadeville and the other in Heidelberg, WTA has the capability to design, engineer and manufacture the complete range of transformers presently in use in the country's mining and industrial sectors.

WTA Wadeville produces standard distribution, power and special application transformers ranging from 50 kVA to 10 MVA in voltages up to 66 kV with off-load tap switch or on-load tap-changers. The Heidelberg facility, which was previously TSS Transformers, is capable of locally manufacturing power transformers up to 40 MVA in voltages up to 132 kV as well as mini substations and moulded circuit breakers.

Its Heidelberg facility operates what is considered to be one of the best oil sampling laboratories in South Africa. This gives customers access to skilled technicians who analyse samples on state-of-the-art equipment to world class standards.

Our product and service offering is Differentiated by:

- High levels of a diverse range of stock including spares and new units
- A large manufacturing capacity
- In-house manufacturing
- Extensive state of the art equipment and technology
- Support of a global manufacturer (WEG)
- Quick turnaround time
- Technicians with great practical knowledge and experience
- 24 hour service



Distribution and Power Transformers

Distribution Transformers

- Custom Designed Oil Filled Transformers
- Distribution 100 kVA to 3 150 kVA
- Windings options: Copper or Aluminium
- Locally manufactured

Power Transformers

- Power 3 150 kVA to 100 MVA 132 kV
- 50 MVA 550 MVA to order from WEG Brazil

All distribution and power transformers are manufactured to SANS 780, BS 171, and IEC 159 specifications under ISO: 9001 quality standards.



Mini-Substations

- Enclosure Type A, B and C
- Up to and including 2 000 kVA
- Customised units up to 33 kV for the African market
- 6mm standard high risk vandal proof Eskom approved minisubs
- Locally manufactured



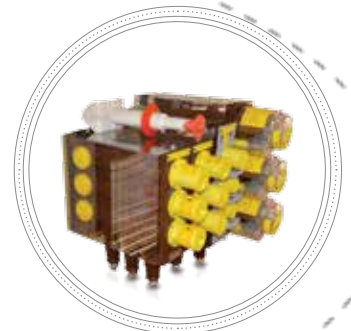
Medium Voltage Switchgear

Tiger Ring Main Units – NX3F

- Extensible and non-extensible ring main units
- 12 kV 630A (Feeder) 150A (Tee - Off switch)
- 20kA 95 kV impulse level

Interswitch – B20

- 12 kV 400A 16 kA 1sec, 95 kVimp.
- Resin cast





High Voltage Test Facilities:

WTA boasts with 3 individual test labs.

WTA is capable of testing:

- 100 MVA 132 kV (IEC and BS)
- 10 MVA 66 kV (IEC and BS)
- 3 150 kVA 33 kV (SANS 780)

Laboratory Services

A sophisticated in-house laboratory is used to test and analyse transformer oils. These tests can detect markers and other harmful substances in the oil, which can then be rectified.

All insulation oils tests are performed in compliance with SANS 555 standards.

Sample analysis includes:

- Key gas detection
- Water detection
- Acidity measurements
- PCB (polychlorinated biphenyls) detection
- Furan detection



Field Services

- The purification and regeneration of industrial oils on site
- The mechanical maintenance and repair of transformers up to 100 MVA
- The mechanical maintenance and repair of Switchgear up to 132 kV
- Dedicated technical field teams are available 24/7, enabling rapid response to service calls



Maintenance and Repair Services

- Repair and rewind of transformers up to 100 MVA, 132 kV
- Repair and rewind of mini-substations, up to 1 600 kVA and 33 kV
- MV switchgear in house and on site
- The replacement of leaking gaskets, neoprene cone rubbers, bushings, inspection covers on on-load tap changers, conservators, valves etc.
- Sandblasting and spray painting of transformers and components
- The supply, installation and testing of protective relays
- The supply, installation and testing of silica gel and breathers
- Infrared surveys to detect potential faults
- Vacuum treatment and drying of cores
- Complete testing of units to SABS, IEC and BS standards

Johannesburg

47 Galaxy Avenue
 Linbro Business Park
 Private Bag X10011, Sandton 2146
 GPS: S 26° 4' 10.92" E 28° 6' 45.88"
 Tel +27 (0) 11 723 6000
 Fax: +27 (0) 11 723 6001
 info@zestweg.com

Cape Town

9 Omuramba Road, Marconi Beam
 Montague Gardens, Milnerton
 GPS: S 33° 52' 42.1" E 18° 30' 39.1"
 Tel: +27 (0) 21 551 2710
 capetown@zestweg.com

Durban

51 Island Circle
 Riverhorse Business Estate
 GPS: S 29° 46' 5.53" E 31° 0' 21.04"
 Tel: +27 (0) 31 569 7260
 durban@zestweg.com

Rustenburg

6 Kgwebo Road
 Mabe Business Park
 Old Pretoria Road
 GPS: S 25° 41' 14.1" E 27° 15' 38.78"
 Tel: +27 (0) 14 594 0450
 rustenburg@zestweg.com

Middelburg

6 Wicht Street
 Vaalbank, Middelburg
 GPS: S 25° 47' 7.70" E 29° 28' 42.33"
 Tel: +27 (0) 13 246 2849
 mpumalanga@zestweg.com

Richards Bay

78 Alumina Alley
 GPS: 28°45'27.414"S 32°1'30.586"E
 Tel: +27 (0) 35 751 1607
 richardsbay@zestweg.com

Trichardt

3 Schabort Street, Trichardt
 GPS: S26° 29' 28.08" E29° 13' 15.64"
 Tel: +27 (0) 17 638 1571
 trichardt@zestweg.com

Port Elizabeth

1 Millennium Road,
 Old Show grounds, North End, PE
 GPS: S 33° 55' 70.7" E 25° 36' 19.6"
 Tel +27 (0) 41 486 1262
 portelizabeth@zestweg.com

Zest Electric Ghana LTD

15, Third Close Street
 Airport Residential Area
 Accra, Ghana
 GPS: N 5° 36' 54.90" W 0° 10' 50.02"
 Tel: +233 30 27 664 90
 Fax: +233 30 27 664 93
 Cell: +233 540 898 466
 ghana@zestweg.com

Enl Electrical

Electrical/Instrumentation Engineering
 and Contracting
 47 Galaxy Avenue
 Linbro Business Park
 GPS: S 26° 4' 10.92" E 28° 6' 45.88"
 Tel: +27 (0) 11 792 2803
 info@eni.zestweg.com

Zest Energy

Integrated Power Generation, Co-Generation and
 Energy Solutions
 21 Galaxy Avenue
 Linbro Business Park
 GPS: S 26° 4' 23.4" E 28° 6' 49.5"
 Tel: +27 (0) 11 723 6000
 info@energy.zestweg.com

Generator Sets

Johannesburg
 47 Galaxy Avenue
 Linbro Business Park
 GPS: S 26° 4' 10.92" E 28° 6' 45.88"
 Tel: +27 (0) 11 723 6000
 gensets@zestweg.com

Generator Sets & Panel Division Cape Town

13 Benbow Avenue
 Epping Industrial 1
 GPS: S 33° 55' 48.65" E 18° 32' 12.6"
 Tel: +27 (0) 21 507 7200
 gensets@zestweg.com

Shaw Controls

Low and Medium Voltage Packaged
 Switchgear Solutions
 18 Mt. Ida Road, Robertsham
 GPS: S 26° 14' 43.8" E 28° 00' 59.3"
 Tel: +27 (0) 11 434 8100
 info@shaw.zestweg.com

WEG Transformers Africa

Locally Manufactured Transformers and Mini-
 Substations, Transformer Services and Repairs

Wadeville

38 Van Deventer Street
 Wadeville, Germiston
 GPS: S 26° 15.941' E 28° 12.46'
 Tel: +27 (0) 11 827 3458
 wta@zestweg.com

Heidelberg

11 Marconi Street
 Heidelberg
 GPS: S 26° 31' 7.54" E 28° 21' 33.28"
 Tel: +27 (0) 16 349 2683/4/5
 wta@zestweg.com

Richards Bay

78 Alumina Alley
 GPS: 28°45'27.414"S 32°1'30.586"E
 Tel: +27 (0) 35 797 3999
 wta@zestweg.com

