

MANUFACTURING



ACTOM

Works

Our manufacturing facility, located in Bellville South near Cape Town, was established in 1954 and has been developed and expanded over the years to become one of the top facilities of its kind in South Africa.

We have been serving the industry for more than 60 years, staying abreast of technological development and playing an innovative role in the engineering field. This dedication won the company the South African Institute of Welding's Gold Medal Award in 1993 for 40 Years' Service to industry.

We have established an international reputation with exports to sub-Saharan Africa, Europe, North America, South America, the Middle East, Asia and Australia. The most recent expansion in 2014 was the addition of a 2 000 m² factory for the manufacture of watertube boiler panels.

Quality System

The company is listed by Lloyds Register of Industrial Services as an approved manufacturer for Class 1 fusion welded pressure vessels and was also the first in Africa to be certified by the ASME.

Our Quality System has been assessed to the ISO 9001 system by the SABS and listed accordingly. We have designed and built equipment in accordance with a number of international codes and specifications. These include AD Merkblatter, ASME, British Standard Specification, ANCC (Italian), TRD, EN and ISO 3834 for welding.

In 2001 we were awarded a Safety Quality licence for boilers by the China government.

Our Non-Destructive Testing (NOT) Services Department and Laboratory headed by our resident metallurgist provides comprehensive destructive and non-destructive services in all disciplines.



Steam drum drilling



Boiler tube manipulation



Stress relieving oven

Fabrication Facilities

- Cranes: lifting capacity up to 100 tons
- CNC plasma and oxy-acetylene
- Profile cutting and flame planning: largest plate size 4m x 14m
- Guillotine: up to 3m wide x 12mm thick
- Plate rolling: up to 3,2 m wide and 65 mm cold
- Press brake: up to 400 ton, knife length 3 730mm
- Hydraulic press: up to 500 tons
- End-plate knuckling capability to 25 mm
- Submerged arc welding machines: max. boom travel vertically 6 100 mm; max. boom travel horizontally 6 100 mm
- Thermal stress relieving: size 21000 x 5 150 x 5 855 mm; capacity 100 tons
- Radial and traveling bed drilling machines: max. distance outside column to spindle centre 2 515 mm; max. height under spindle 2 200 mm; max. drill size 100 mm, travel 11 000 mm
- CNC pipe bending: up to 115 mm diameter - cold bending; above 115 mm - hot bending
- Automatic panel I membrane wall welding machines
- Panel bending machine
- Automatic economiser tube fin welding machines
- Pre and post weld heat treatment equipment for exotic welding
- Automatic tube to tube she It welding
- Furnace corrugating machine
- Tube spiralling machine

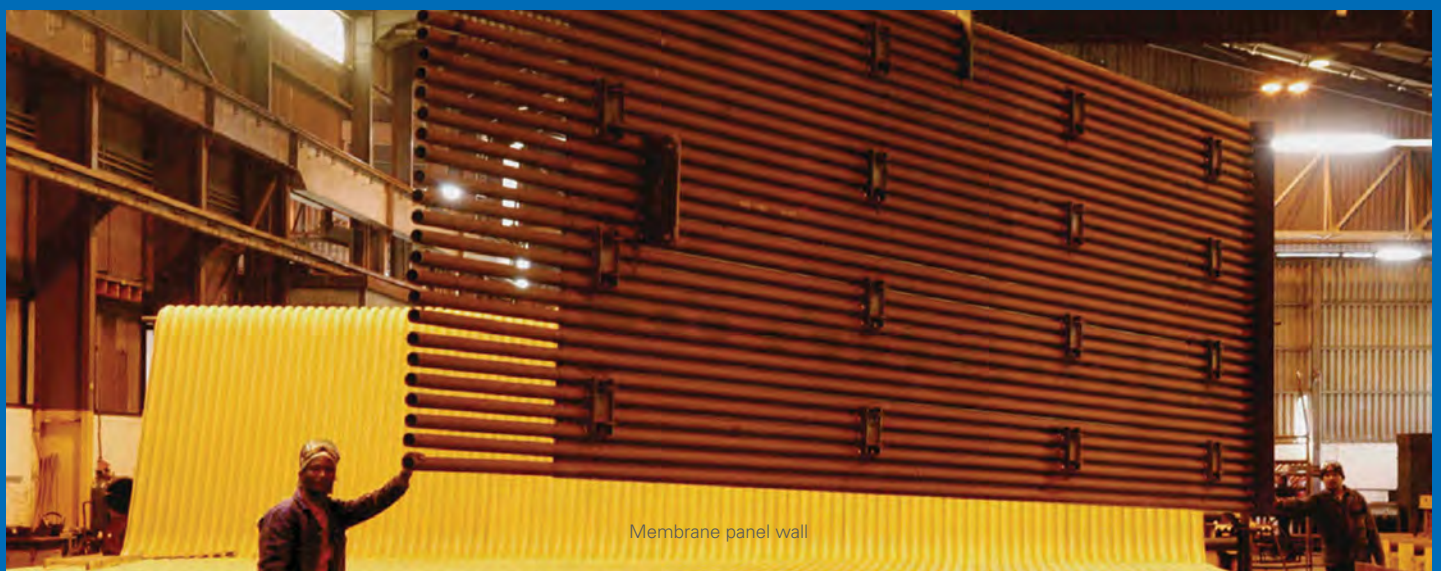
Manufacturing Area

Total floor area under roof is 30 000 m² & includes offices, stores and laboratories.

Workshops	Floor area (m ²)	Max. lift (ton)
100 ton shop	4 890	100
70 ton shop / panel shop	4856	70
50 ton shop	3 126	35
Light fabrication shop	2009	20
Pipe shop	2756	2
Light fabrication shop	869	10
Foundry (Meehanite)	540	2
Panel shop	2000	30

Inspection & Testing

- X-ray
- Universal testing machine
- Ultrasonic testing (UT)
- Hardness testing (fixed & portable)
- Dye penetrant inspection (DPI)
- Tensile: bends, drift expanding, compression
- Magnetic particle inspection (MPI)



Membrane panel wall

Welding

The following welding processes are in use:

- Flash butt welding (FBW)
- Manual metal arc (MMA)
- Flux cored arc welding (FCAW)
- Oxy-acetylene (OA)
- Metal co red arc welding (MCAW)
- Submerged arc (SA)
- Metal active gas (MAG & pulsed MAG)
- Metal inert gas (MIG & pulsed MIG)
- Tungsten inert gas (TIG & pulsed T1G)
- Stud welding



Furnace corrugating machine

Weld Procedures

Our welding department ensure that we work to ISO 3834 and are supported by our permanent resident IWE and IWT.

Our weld procedures range from carbon steel to ASTMA213T91 .

Training

We have been conducting a comprehensive apprentice training program for welders and boi lermakers for the past 20 years. Our training facility, with the support of a local college, recruits students from the local community for the benefit of John Thompson, the community and local industry.



Upper and lower frontwall manifold



Fin-tube economiser elements

Products

Headers

Primary superheater headers - carbon / 13CrMo 4-5

Secondary superheater headers - carbon / 13CrMo4-5 / 10CrMo9-10

Economiser headers - carbon

Furnace headers - carbon / 16Mo3

Mains team header - 13CrMo 4-5 / 10CrMo9-10

Attemporator piping - ASTM A355 P11/ ASTM A355 P22

Membrane Panels

Panel tubing diameters range from 30 mm to 100mm with tube pitch and thickness as designed as specified

Economiser Elements

Plain economiser - carbon / 16Mo3

Fin-tube economiser - carbon / 16Mo3 diameter 38mm and 50mm

Spiral-tube economiser - carbon / 16Mo3 diameter 38mm and 50mm

Evaporator Banks

Plain / finned evaporator - carbon / 16Mo3 / 3CrMo4-5

Reheater Elements

Elements c/w attachments - 13CrMo 4-5 / 10CrMo9-10 / T91

Superheater Elements

Pendant / horizontal type - 13CrMo4-5 / 10CrMo9-10 / T91

Tube Manipulations

Burner nest openings - carbon / 16M03

Steam & Mud Drums, Pressure Vessels, Firetube Boilers

Other products include:

Waste-heat boilers, deaerators, autoclaves, shell and tube heat exchangers, gas cooler hoods and process equipment.

In addition we can also manufacture stainless steel products.



Superheater elements



Eckrohrkessel corner tube boiler



Waste-heat boiler



Mainbank & mud drum

John Thompson Branches

CAPETOWN

Sacks Circle, Bellville South, 7530

P.O. Box 129, Bellville, 7535

Tel: (021) 959-8400

Fax: (021) 959-8545

info@johnthompson.co.za

ISANDO

42 Diesel Road, Isando, 1609

P.O. Box 8382, Edenglen, 1613

Tel: (011) 392-0900

Fax: (011) 974-2695

infojhb@johnthompson.co.za

DURBAN

4 Belfast Road, Bayhead, 4001

P.O. Box 32292, Mobeni, 4060 Tel:

(031) 408-9700

Fax: (031) 408-9722

infodbn@johnthompson.co.za

BLOEMFONTEIN

Unit A, 4 Hartley Street, Hamilton,

Bloemfontein, 9301

Tel: (051) 433-1192

Fax: 086-768-3632

infoblml@johnthompson.co.za

PORT ELIZABETH

55 Fettes Road, North End,

Port Elizabeth, 6001

Tel: (041) 373-0364

infope@johnthompson.co.za

CRESTA

Cresta Junction, Block A, Cnr Beyers

Naude Drive & Judges Ave, Cresta, 2194

P.O. Box 4051, Cresta, 2118

Tel: (011) 478-0456

Fax: (011) 478-0371

infoapc@johnthompson.co.za

DURBAN - HVAC

27-29 Circuit Road, Westmead,

Pinetown, 3600

Tel: (031) 700-3286

Fax: (031) 700-4101

infohvac@johnthompson.co.za

CAPETOWN - HVAC

32 Viben Avenue, Brackenfell, 7561

Tel: (021) 981-0111

Fax: (021) 981-4790

infohvac@johnthompson.co.za

www.johnthompson.co.za

