

The logo for Applied Welding Technology (AWT) features the letters 'A', 'W', and 'T' in a stylized, blocky font. The 'A' is orange, while the 'W' and 'T' are white. The letters are set against a dark blue background that is part of a larger geometric design consisting of a large white triangle pointing upwards and an orange triangle pointing downwards, both with a white 'A' shape cut out of them.

**AWT**

**APPLIED WELDING  
TECHNOLOGY**

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COMPANY PROFILE

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# INTRODUCING AWT

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AWT was started in 1987 and bought by Ross and June Tudhope in 2005 as a 12 man business with a steel yacht in the middle of the workshop.

The company has over the years grown into an integrated facility that offers welding, machining, fabrication and testing. Our 3500m2 facility is ideally located in Spartan, Kempton Park, where we have access to a network of subcontractors with capabilities that are not readily available in-house.

In January 2022, AWT became a member of the Two Roads Group (2Roads), an engineering group of companies with a common focus on process flow applications.

This partnership opens AWT up to broader category of clients in different industry sectors. Beyond this, in the pipeline is the establishment of a fully-fledged training centre that will offer management, vocational and skills development training, including skills transfer programmes based in the unique welding techniques used by AWT.

## WHAT WE DO

Our focus is on welding and machining critical parts in a variety of different materials. We rebuild with base materials, clad surfaces with Stellite, Inconel, Bronze, Stainless steel, Monel and others on items as large as 10 tons to nozzles with 32mm bores. Whenever possible we do the machining and heat treatment in house and deal with the full spectrum of power station and petrochem materials.

We provide our clients with solutions to complex structural and material needs. Quality control and assurance are fundamental in all our processes hence we monitor every step while conducting industry standard tests at all necessary intervals with the accompanying documentation



We are specialists at restoring the critical components of machines back to their original condition



## WHAT SETS US APART

AWT specialises in welding materials that generally operate in high temperature, high pressure environments and materials that are exposed to erosive conditions. We have over 300 welding procedures that are approved by a certified welding engineer and a Government Approved Inspection Authority. This means that there is a tried and tested solution for most problems that can be quickly executed

Furthermore, AWT has Eskom Level 1 welding approval, ISO 3834 Part 2 approval and TUV Rheinland ISO 9001:2015 approval.

We have had many years of practice in responding to emergency requirements in power stations where critical parts are required and pride ourselves in having quality solutions for many seemingly intractable problems.

In addition to factory-based systems, AWT has site teams that perform specialised welding tasks. These teams have performed specialised repairs on valves, pumps, fans, valve chests, diffusers and other equipment. Wherever possible automatic machinery is used and AWT possesses a variety of different machines for this purpose.

AWT takes special pride in their ability to perform seat replacements of welded valve bodies (gate and NRV types). This has the advantage of minimising downtime for the removal of the valves from the line and has on occasion saved major downtime costs for the operators.



We have over 300 welding procedures



## OUR FACILITY

Our factory is 3500m<sup>2</sup> in size and is serviced by 5 overhead cranes of up to 10 tons capacity. Our machinery includes:

- 1.4m long x 1.2m wide x 1.2m high heat treatment furnace, capable of temperatures up to 1100 C
- Conventional horizontal and vertical lathes ranging up to a 4.5m long bed and 800mm swing
- 3 conventional horizontal boring mills, the largest of which has a 1.5m x 1.5m bed, 5m column height and 6m bed
- 3 CNC lathes, largest size 1.5m x 480mm swing
- 2 four axis CNC machines centres
- Spark erosion and wire cutting machines
- A variety of welding machines capable of MIG/MAG, TIG, MMA and SAW welding, pulsed and non-pulsed
- Lapping and pressure test equipment
- 250 ton hydrotest rig

INDUSTRIES WE SERVE

1

Power  
Generation

2

Pulp & Paper

3

Oil & Gas

4

Petrochemicals

5

Mining

6

Maritime

CLIENTS



## CONTACT DETAILS

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The logo for Applied Welding Technology (AWT) features the letters 'A', 'W', and 'T' in a bold, sans-serif font. The 'A' is orange, while the 'W' and 'T' are dark blue.

**APPLIED WELDING  
TECHNOLOGY**

The logo for Two Roads features a stylized '2R' where the '2' is red and the 'R' is grey. Below this, the words 'TWO ROADS' are written in a bold, dark red, sans-serif font. Underneath 'TWO ROADS' is the tagline 'Take the road less travelled' in a smaller, grey, sans-serif font.

[www.2roads.co.za](http://www.2roads.co.za)

Applied Welding is a member of the **Two Roads Group.**