

## MOBILE TEST TANK

Tri-Pump has been supplying Flygt Submersible pumps to the mining industry across five African countries since 1996. We have always prided ourselves with our state-of-the-art repair facilities at our regional offices in Zambia, Ghana, Tanzania, South Africa and the Democratic Republic of Congo.

Over the years we have engaged with on-site repair facilities in remote areas which ensures optimal availability of quality pump repairs.

Testing pumps which have been repaired at the onsite facilities has always been a huge challenge and we therefore have designed our own Mobile Test Facility which can be installed on a semi-permanent basis and moved if and when required.



**With a capacity of 32000 Litres** our test facility allows us to test both Submersible and End Suction Centrifugal Pumps up to a maximum Kilowatt Rating of 132kW in various Voltages, namely 380/415V, 525/550V as well as 1000V depending on the available Voltage on each specific site.

The test tank is equipped with two different control loops to accommodate both Submersible and End Suction pumps, passing through a common Ultrasonic Flow Meter which registers flows of up to 600m<sup>3</sup>h at a maximum head of 20 Bar.

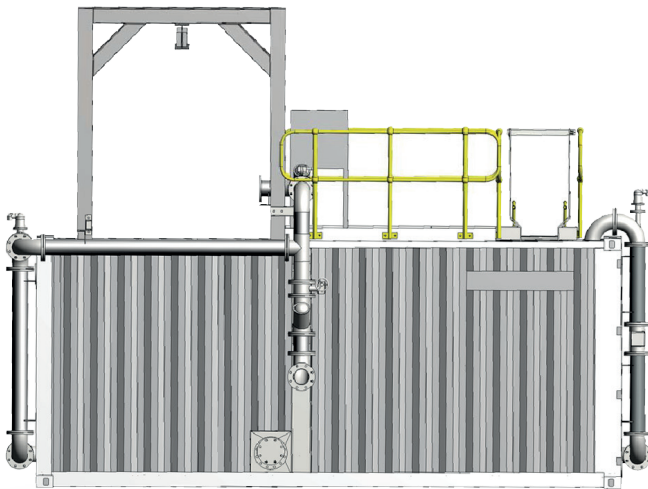


Electrical Actuated Control Valves regulates the pressure to allow a pump test to be done at different pressure positions on the pump curve while the flow meter measures the corresponding flow at these specific points. This allows a pump test curve to be plotted and compared to the OEM curve to ensure the pump repair has been done according to OEM standards.

The Control Panel is equipped with a Siemens PLC which measures the Amps at the various test points of the pump curve to ensure the electric motor is still in good condition and a Pressure Transducer relays the pressure readings back to the PLC.

A 2.5 Ton Overhead Crawl Beam allows easy maneuverability of Submersible pumps in and out of the Test Tank and allows for a 24-Hour soak test to check for water ingress into the Junction Box Cover of the pump.

The footprint of the test Tank is based on a 20 Foot Container which allows easy loading and offloading of the unit when required and is strengthened internally to avoid any deformation of the structure during operation.



**The Test Tank and Control Panel can be customized** to suit your specific requirements by our design team to obtain optimal efficiency.

**Please contact any of our regional offices** for any assistance with your onsite pump testing needs.

**TRI-PUMP**



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