

The new Vulcan 1200A Dual engine-driven welder

At an event at its Boksburg facility in Gauteng in early November, Unique welding launched its locally-manufactured Thermamax Vulcan 1200A Dual multi-function engine-driven onsite welding solution. Thomas Taljaard, Head of Sales and Marketing, outlines some key features and advantages.

Offering up 1 200 amps of welding current at any one time, the new Thermamax engine-driven welder and generator is the ideal solution for use on African construction sites and mines, where access to three-phase mains power is often unavailable or difficult to access.

The core of the package includes two highly efficient 600 amp multi-process welding inverters driven by a Perkins genset. Also included is a high pressure compressor for arc-air gouging, which can also be accessed for other purposes, and two 380 V, 3-phase and two 220 V, single phase auxiliary outputs, which can be used to power any other equipment, including additional welding power sources. Up to three welding arcs can be simultaneously run off system, and arc air gouging and welding can be performed at the same time.

Fully mobile, the multi-process 600 amp inverters included the Vulcan Dual can be used for MIG; Stick/MMA; arc air gouging or

scratch-TIG welding applications. A simple selection on the control panel enables easy switching between processes and welding current/voltage is selected by a single 'power' dial on the front panel.

Key features of the Vulcan Dual include:

- A fully mobile welding solution with two 600 amp multi-process inverter-based power sources built in that can run simultaneously without interfering with each other.
- An arc air gouging compressor is built into the system, which can be used from one power source while welding from the other system. The compressor can be used for gouging and compressed air. A robust piston compressor is used and this sits at the front allowing for excellent air flow for gouging from a 5.5 kVA motor.
- MIG/GMAW welding can be run from any conventional wire feeder due to constant voltage (CV) arc characteristic



Representing the local OEM, Robert Case demonstrates the key features of the Unique Welding's new Thermamax Vulcan 1200A Dual.

programmed into the digitally controlled power sources.

- The system has been made very easy to operate with only one process selection switch and one welding power setting per welding inverter on the front panel.
- The Vulcan 1200 amp is locally manufactured, it can be customised according to the buyer's requirements and a customised unit can be delivered within six weeks of agreeing the specifications and ordering.
- The design meets all the safety requirements of the mining industry, including lock-out electrical isolation for maintenance team safety and VRD (voltage reducing device), which reduces the open circuit voltage to safe levels until welding starts and as soon as the arc is extinguished.
- A top-of-the-range, turbo-charged, Perkins diesel-engine and alternator is used to generate the power. This system comes with a two-year warranty.
- Highly fuel efficient, the Vulcan 1200A Dual can be used for, on average, 12 hours on a single 100 l tank of fuel, depending on the running load.

"Unique Welding is one of the largest independent gas and welding distributor in South Africa, with 14 branches and an extensive network of independent distributors "As a fully integrated gas and welding solutions provider, we strive to transform the South African gas and welding industry with our expertise, innovation and specialised services.

"Our new Thermamax Vulcan 1200 Dual is our latest innovative customised solutions, which, along with the support services we can offer, will save local customers time and money, providing sustainable value for years to come," concludes Thomas Taljaard.

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The core of the package includes two highly efficient 600 A multi-process welding inverters driven by a Perkins genset. Inset: The system has been made very easy to operate with only one process selection switch and one welding power setting per welding inverter on the front panel.