

BMG's specialised welding services

BMG's specialised welding services are critical in the fluid power sector, where hydraulic reservoirs, hydraulic cylinders, and auxiliary components, require the highest standards in welding, says Daniel Feiteira, BMG's Business unit manager for Fluid Technology High Pressure.

“One of the most important factors in the construction and maintenance of hydraulic and lubrication equipment is the quality of the welding. All welding procedures at BMG are carried out by skilled boiler makers and welders who are certified by the Southern African Institute of Welding,” explains Daniel Feiteira, BMG's Business Unit Manager – Fluid Technology High Pressure division. “BMG conforms to ISO 9001, ISO 14001 and ISO 45001 specifications to ensure quality builds with pristine weld integrity and provides full data packs with a Quality Control Plan in accordance with and subject to specific customer requirements.”

For customer convenience, BMG's field services teams carry out on-site welding during the installation and replacement of piping, plate work, stainless steel and

other components.

An important project for the BMG Fluid Power team was the installation of pipework over a 48-hour shift shut period. The customer had a requirement for fully welded and connected pipework for Schedule 10, 40 and 80 piping. Appropriate assembly, welding, flushing and pressure testing were conducted on site, in accordance with site specifications. This project was commissioned by the respective engineering and field services teams.

BMG's welding services include hydraulic cylinder welding and the use of controlled welding manipulators. Hydraulic cylinders require welding as they are considered pressure vessels, which are designed and machined to specification to move and hold heavy loads. Frames require quality welding and may comprise skids that accommodate and house motor-pump assemblies and/or manifold blocks for bespoke full turnkey hydraulic and lubrication solutions.

“BMG's Fasteners, Tools & Equipment division has partnered with Jasic, a leader in Insulated Gate Bipolar Transistor (IGBT) welding technology and the welding brand of choice of our skilled welders,” says Jeremy Pieters, BMG's Business Unit Manager, Fasteners, Tools & Equipment division.

“We work closely with our customers to ensure a safe and healthy work environment at every plant, by advising on the selection of the correct welding equipment

and appropriate and safe use of each system. We encourage companies to be mindful of the hazards of welding fumes and how important it is to protect the health of workers, through the extraction and control of welding fumes.

“Factors for careful consideration include choosing the correct welding process and equipment, based on the materials to be welded and the material thickness. The most common-

ly welded materials are aluminium, mild steel, stainless steel and alloys, although many plastics can now also be welded. It is also important that only suitably trained operators use welding equipment.

“BMG's welding products and services are tailored to meet specific customer requirements and encompass dependable welding and cutting processes, as well as Personal Protection Equipment (PPE), fume extraction helmets, safety equipment and general accessories.

BMG's range of Jasic welding equipment comprises arc inverters for tungsten inert gas (TIG), metal inert gas (MIG), metal active gas (MAG) welders and plasma cutting.

Available machines include:

- Manual metal arc (MMA) welders from 140 A to 630 A.
- DC TIG inverters from 180 A to 400 A water-cooled pulse units.
- AC/DC TIG units from 200 A to 500 A water-cooled pulse units.
- MIG/MAG inverters from 160 A to 500 A dual pulse water cooled units.
- Plasma cutters ranging from single-phase 45 A hand-held units, to three-phase 160 A inverters capable of cutting through up to 50 mm of steel.
- Plasma cutters with CNC capabilities are also available.

All Jasic components are subjected to rigorous testing, including vibration and drop, waterproof, safety, comprehensive parameter and EMC tests, as well as harmonic wave and flicker testing. BMG supports all Jasic welding products with a comprehensive three-year warranty.

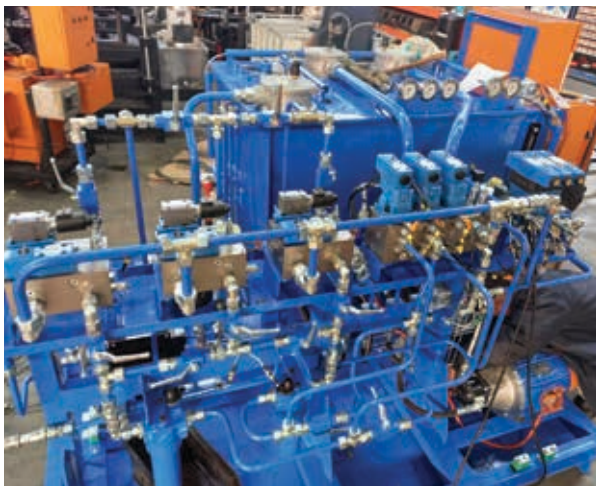
The company's portfolio of safety and PPE also encompasses COBA workplace safety matting and floor safety products, which enhance safety during welding and cutting procedures. COBA Diamond Tread matting, with a flame retardant surface, is suitable for welding bays and industrial applications.

BMG's extensive branch network stocks a wide range of inverter welders, accessories, electrodes, welding wire and PPE, which is designed to enhance safety and optimise productivity in all sectors where metal working is essential.

www.bmgworld.net



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High quality welding is critical for frames and cylinders in the hydraulics and pneumatics sectors.