

Welding Technologies Zone

Weld Australia

Training Manager, Guy Brooks demonstrates how Weld Australia's trainers use Augmented Reality (AR) for training and skill development. Projected on a large screen at the back of their stand, he shows the simulated welding and how it can provide live feedback on trainee's welding skills.

"We are working with the NSW Department of Education and Training to roll out welding simulators in high schools. We also work with TAFE colleges nationally to launch Advanced Welder Training centres and are currently running a pilot program with Corrections Victoria to upskill prisoners. Skill building welding workshops and seminars are also offered for members and non-members."



OLP Robotics

Located on the Leussink AMW stand, OLP Robotics is a robotic integration company specialising in industrial automation. Two of the company's Directors: Russell Melville and Shaleesa Keye, are demonstrating a Universal Robots UR10e collaborative robot (cobot) holding a welding torch, to a large group of onlookers.

They are highlighting the benefits of coupling the cobot welding system with a Demmeler bench for accurate welding applications. A simulation showing a digital twin of the setup demonstrates how the motion was programmed using offline programming software, taking advantage of the high accuracy of the Demmeler table and tooling. Cobots are industrial robots that are designed to work safely alongside humans compared to traditional industrial robots that must be secured behind safety guards and screens.

"Cobot arms can be integrated into a wide range of applications, and where suitable, provide significant benefits over industrial robot installations," Melville explains: "These benefits include: Fast payback (average of 12 months), cost reduction, flexibility, mobility, easy programming, simple installation and safe human – robot collaboration."

Keye explains the safety features of cobots: "Torque sensors in the joints monitor the forces on the cobot during operation, so that if the cobot encounters interference such as a collision with an object or operator, the cobot will go into a protective stop and cease motion."

"The cobot on display here is very easy to operate and program. It can be driven using arrows on the touch-screen interface, but an even easier method is using the free-drive function which allows the operator to physically drag the cobot and welding torch to the desired position."

She adds that there's a shortage of welders globally, so cobots are helping to reduce reliance on skilled welders, and are especially suited to small to medium enterprises (SME) that don't have the budget or space for a traditional industrial robot system. "Our engineer is not a trained welder, but he can use this machine to



achieve high-quality welding results. It's all about enabling Australian manufacturers to stay in business by improving productivity and lowering their costs," advises Keye with a smile.

OLP Robotics is a system integrator for Universal Robots and the We Cobot and Lorch cobot welding systems and are also an authorised reseller of the Robot master offline programming software package and Demmeler welding benches. The company is well-equipped to provide sales and technical support, as well as robot programming services to companies across the Asia Pacific region.

Kolarc Welding

Three engineers and directors of Kolarc Welding Australia - Al Alparslan, Max Tutuk and Jay Karaova are very excited to promote Kolarc's range of welding machines at AMW to the many visitors at their stand.

They're the Turkish welding machine manufacturer's Australian agents. Kolarc manufactures European Standard MIG/MAG, TIG, MMA and SAW welding machines in one mega facility for manual and robotic applications.

As the Kolarc Australia team, we provide technical support, training and local after sales service to our customers on the full range of Kolarc welding machines. We saw an opportunity in the market to compete with well-known big brands and the prices for our machines are very competitive," advises Alparslan.

On the AMW expo, Alparslan advises that they have made some great contacts during the show and have had many enquiries about their machines.

