

**Focusing on
shielding gases.**

The GMA & TIG Projector.



Designed with portability in mind,
the GMA & TIG Projector can be relocated
as required due to its innovative design
incorporating all elements in a mobile unit.



Inside view of projection chamber



The welding process highlights the benefits of correct shielding gas selection

What's unique about the GMA & TIG projector is that it **shows a real welding arc** – not a simulation, still image or a pre-recorded video.

The GMA & TIG Projector

At BOC, we are constantly looking at ways to provide innovative solutions for our customers. We have recently combined our extensive welding process knowledge with our engineering expertise to launch an exciting new piece of equipment designed to revolutionise the way we look at shielding gas selection: the GMA & TIG Projector.

The GMA & TIG projector can simultaneously show an image of the GMA welding arc (optically magnified 80x) with the corresponding welding parameters, such as wire feed speed, voltage, stick-out, current, pulse frequency and shielding gas composition. As soon as the parameters are changed, you can observe how the arc is affected.

What's unique about the GMA & TIG projector is that it shows a real welding arc – not a simulation, still image or a pre-recorded video. This therefore significantly improves its credibility in live demonstrations, when specific changes to parameters are made.

And even better – you can control the process! The interactive design allows you to take control and view first hand the effects on the weld when the parameters are adapted according to your specific needs. You will clearly see the benefits of the correct shielding gas selection for your process.

How does it work?

The projector uses an optical projection system to offer the best possible image quality. To show the welding parameters, the projector uses a rugged and self-contained PC measuring system, combined with a standard beamer. The projector software is custom-made and proprietary, and is therefore adapted to the BOC shielding gas range.

The operator panel consists of a gas mixer for Ar/CO₂ mixes, 4 gas selection buttons, welding start/stop and several other controls. To operate the PC, there is a keyboard with an integrated mouse/trackball.

The projector can also:

- demonstrate the influence of the stick-out on the amperage (to illustrate why you should always measure the wire feed speed, and not only the amps).
- show how to set up a pulsed arc and what the influencing parameters are.
- guide a whole audience through various arc types and settings and the effects of shielding gases.
- be transported around the South Pacific by virtue of its clever design incorporating all of the components into a mobile unit.

The projector is able to display the significant difference that BOC shielding gases can make to your weld.

- ARGOSHIELD®
- STAINSHIELD®
- ALUSHIELD®
- SPECSHIELD®





We can come to you.

Designed with portability in mind, the GMA & TIG Projector can be relocated as required due to its innovative design incorporating all elements in a mobile unit. To date, this has allowed the GMA & TIG Projector to be used to educate welders about the benefits of correct shielding gas selection at a number of events including trade days, conferences, exhibitions and educational institutes.

Want to find out more?

Then give us a call on **131 262**, email **contact@boc.com** or visit our website at **www.boc.com.au**

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