

New, Used and Refurbished TIG Welders

Westermans have a vast range of all makes and models of TIG welders, GTAW welders and TIG welding machines.

GTAW Welding, TIG welding, AC/DC welders

Gas Tungsten Arc Welding (GTAW) is frequently referred to as TIG welding. TIG welding is a commonly used high quality welding process. TIG welding has become a popular choice of welding processes when high quality, precision welding is required.

In **TIG welding** an arc is formed between a non-consumable tungsten electrode and the metal being welded. Gas is fed through the torch to shield the electrode and molten weld pool. If filler wire is used, it is added to the weld pool separately.



TIG Welding Benefits

- Superior quality welds
- Welds can be made with or without filler metal
- Precise control of welding variables (heat)
- Free of spatter
- Low distortion

Shielding Gases

- Argon
- Argon + Hydrogen
- Argon/Helium

Helium is generally added to increase heat input (increase welding speed or weld penetration). Hydrogen will result in cleaner looking welds and also increase heat input, however, Hydrogen may promote porosity or hydrogen cracking.

GTAW Welding Limitations

- Requires greater welder dexterity than MIG or stick welding
- Lower deposition rates
- More costly for welding thick sections

Read more technical understanding of TIG welding... or Aluminium welding...

See our current stock of [TIG Welders and GTAW Welding equipment...](#)

Manufacturers of TIG welding equipment include **Lincoln, Miller, Hobart, ESAB, BOC, Murex, Butters/NBC, Fronius, Kemppi, Messer, Migatronic, Oerlikon, SAF**

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