

# iBOTone and iROB: automation with creative freedom

Fabrication companies are facing a growing skills shortage. Experienced welding specialists are increasingly retiring, while there is a lack of young talent. ABICOR BINZEL believes that modern automations using robots or cobots can help relieve this burden.

**W**ith iBOTone® from ABICOR BINZEL, fabricators can benefit from a welding cobot unmatched for operational and user-friendliness, enabling almost anyone to weld with it.

Smart, fast and powerful are key ways to describe the advantages of iBOTone®. With its self-explanatory, intuitive operation, unmatched repeatability of within 0.02 mm across all applications, and exceptional flexibility, iBOTone® is an ideal solution for welding production environments. Welding specialists with experience of iBOTone® describe it as ‘colleague’.

## Optimal solution for small batches

Thanks to its easy operation, iBOTone can automatically produce batches of any size or individual parts, depending on the welding task. iBOTone® takes on physically demanding, repetitive tasks for welders. This, in turn, allows them to focus on other welding tasks that require their expertise. The simple program structure minimises programming effort, so iBOTone® can quickly start earning money welding quality production parts.

Many cobots in the welding industry have fallen short: they are too complicated, too rigid and too costly. iBOTone® was developed to overcome these shortfalls and exceed expectations for modern cobot welding.

Medium-sized manufacturing companies face the daily challenge of delivering craftsmanship quality at mass-production prices, all while skilled workers are increasingly hard to find. iBOTone® provides a practical solution to overcome this hurdle. iBOTone® features include:

- **Easy teaching:** The Easy Teach Handle allows welders to guide the robot torch smoothly and, once set up, to program a welding sequence without a control panel.
- **Ease of use:** After just a few minutes of training, anyone can weld with it.
- **High stability and flexibility:** Its excellent repeatability and path accuracy ensure consistently high welding quality.

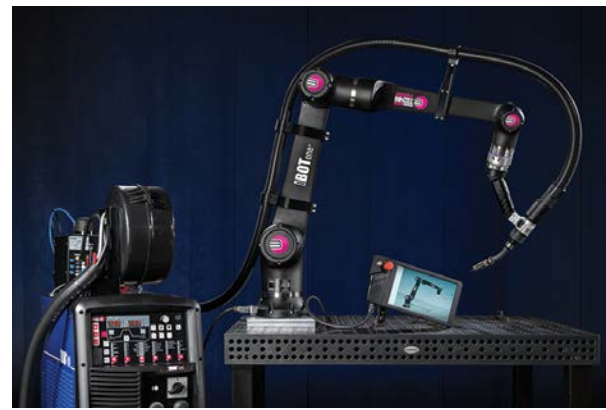
- **Use in harsh industrial environments:** High-quality aluminium die-cast components and suitable seals (IP66 protection) enable long-lasting use in extremely tough industrial environments.
- **Record path:** Moving through different weld geometries without collision has never been easier. Use the Record Path to move the cobot from one weld to the next. It will precisely follow this path.

## iROB power sources

ABICOR BINZEL’s iROB modular robot power source series, tailor-made for the iBOTone cobot system, provides the full range of welding power, with both air- and liquid-cooled options available, up to 500 A. This allows all materials, filler materials and wire diameters to be accommodated, along with preferred shielding gases, enabling fabricators to achieve the guaranteed, reproducible welding results they need.

The iROB® power source series offers all GMAW process variants, from standard short arc welding to high-performance spray arcs, with or without pulse technology. Electronically controlled special processes, such as ‘mX Clean’ and ‘mX Kinetic’, are also included, as are reversing wire-feed options, which are ideal for sensitive thin-sheet metal applications and aluminium welding.

For robust, heavy steel construction, the iROB power source can also deliver, lever-



*With iROB power sources and Abicor Binzel’s high-quality welding torches, Abicor Binzel can offer affordable solutions that exceed expectations for modern cobot welding.*



*ABICOR BINZEL’s iROB modular robot power source series, tailor-made for the iBOTone cobot system, provides the full range of welding power.*

aging modern GMAW process characteristics available on the international market. This power source range offers reliability, versatility, connectivity and sustainability.

In addition, for more than 75 years, ABICOR BINZEL has been delivering the highest-quality welding torches. With the iROB® power source series, it is now possible to leverage the successful development of these torches for use with the iBOTone cobot system and an iROB power source.

“From system setup to process optimisation and addressing ongoing questions or challenges, we at ABICOR BINZEL SA can provide installation, training and process optimisation specifically tailored to any client’s needs,” concludes Christo Gelderblom of ABICOR BINZEL South Africa.

<https://www.binzel-abicor.com/ZA/eng>



*With its self-explanatory, intuitive operation, unmatched repeatability of within 0.02 mm across all applications, and exceptional flexibility, iBOTone® is an ideal solution for welding production environments that require small batches of different products.*