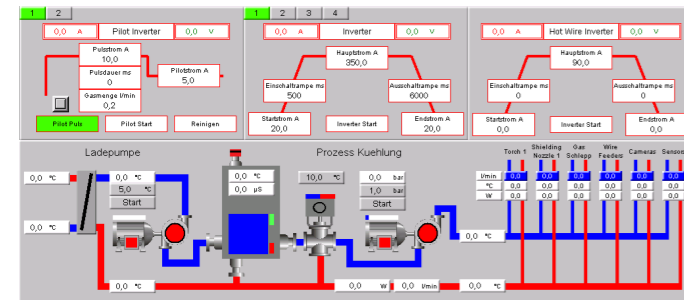


PCS (Plasma Control Software)

For comfortable parameterization, documentation and running the Plasma Control Software is available for process control. The PCS enables the graphic representation of the welding current and voltage curve and provides quality factors for the welds carried out. In combination with the automation the plasma inverter's interface can detect rejected parts and from production. The PCS also offers the option of documenting welds using a data report.

The Plasma Control Software PCS can be installed on any standard PC or notebook with Windows operating system. A serial interface provides access to all set and actual values of the plasma inverter. Various welding programs can thus be stored and archived on the PC.

Software updates and remote maintenance are possible via internet connection.

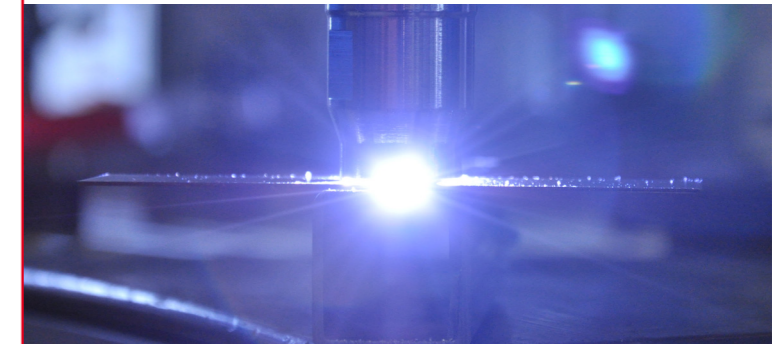
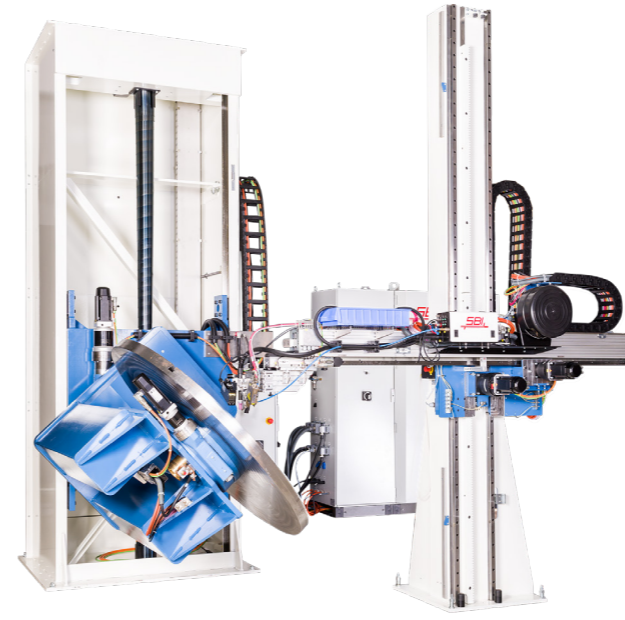
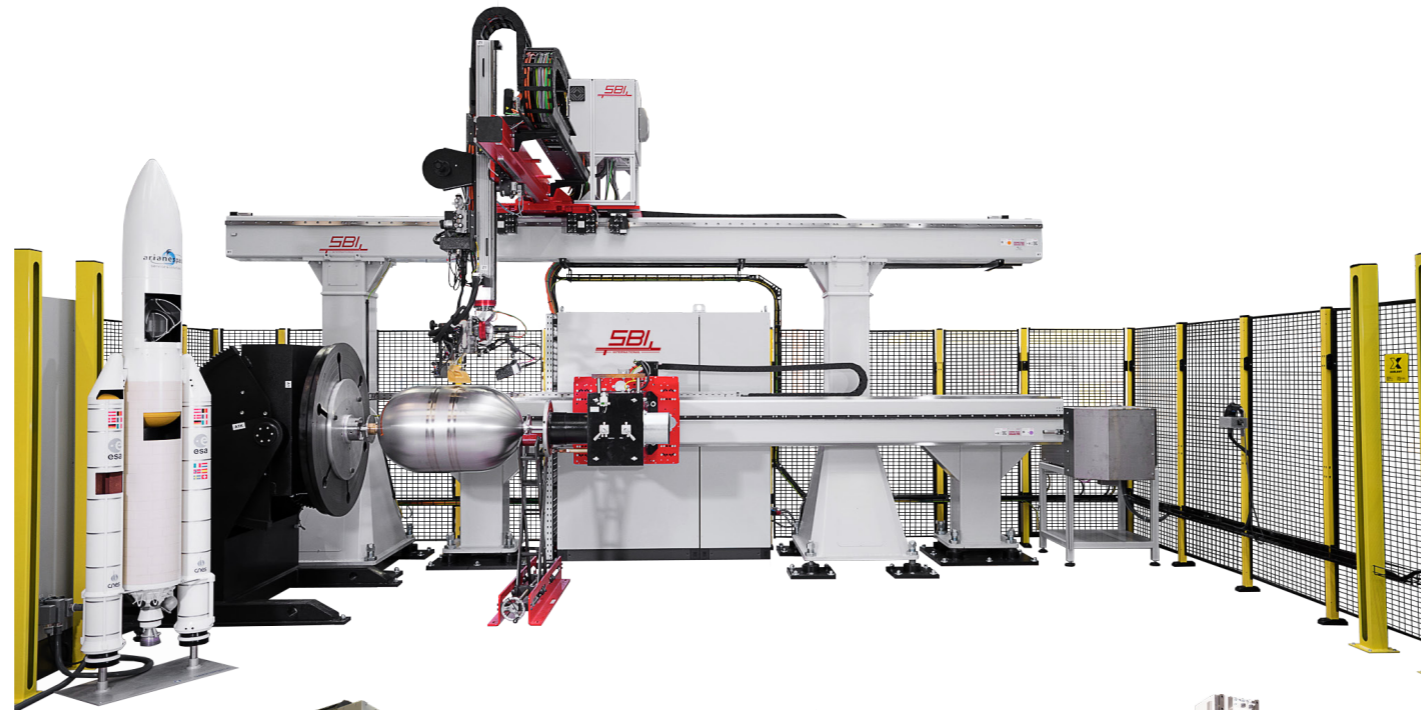


SBI GmbH

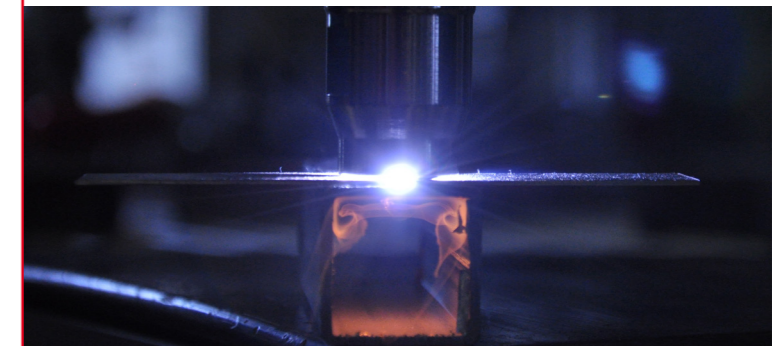
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Welding machines



- Automatable
- User-friendly
- Reproducible
- Visualized



Do it PLASMA

High-Tech Welding Solutions

Welding devices

The SBI devices are multifunctional inverter power sources, developed for plasma joining, hardfacing or spot welding and can also be used for manual TIG and electrode welding. SBI devices guarantee high process reliability and reproducibility. The user has the possibility to perform complex and demanding welding tasks according to the requirements, economically and by using of the most modern equipment technology.

The plasma process stands out from conventional welding processes:

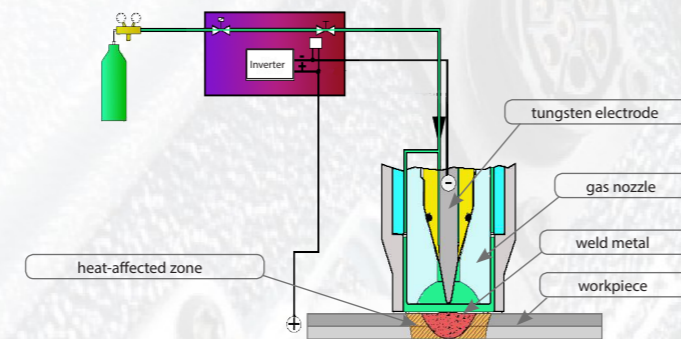
- High energy density
- Controllable mixing
- Low heat distortion due to high welding speed
- Large joint gap tolerance
- Excellent weld seam quality
- High reproducibility and process stability
- Low welding spatter formation
- Distance insensitivity between workpiece and torch
- Quiet arc
- Suitable for a wide range of materials:
Steels, Cr-Ni steels, nickel and copper materials, titanium and aluminium, ...
- Possibility to weld several sheets of different sheet thicknesses
- Easy to automate
- Wide range of accessories available (wire or powder feeders, different torch types, interfaces, remote controls, ...)

EFFICIENCY

- Low acquisition costs compared to laser welding systems
- Higher efficiency than other arc welding processes
- Low operating and maintenance costs
- Minimal pre-welding and re-welding effort

PSW (Plasma Spot Welder)

The PSW is a specially developed plasma welding machine for the production of spot-welded joints in fusion welding.



The plasma is ignited with high voltage and maintained by means of an arc transmitted to the workpiece. The special focussing of the plasma beam enables a concentration of thermal energy on the weld spot. This results in very short welding times with low heat input into the component, achieving minimal distortion. Focusing enables precise positioning of the welding spot.

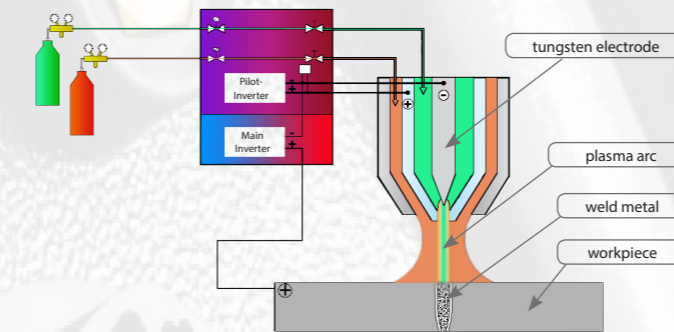
The welding results of the PSW are comparable to those of laser welding, whereby the investment costs are only a fraction. An automation interface enables use in robot applications.

The PSW allows for flexible parameterization, highly dynamic control of the welding process and a highly precise reproducible welding in many fields of application.



PMI (Plasma Multi Inverter)

The PMI series is available in DC and AC/DC versions.



With the PMI the user has the possibility to create complex welding tasks by using the latest plasma welding technology. The optimised equipment technology enables the production of manual and automated joining and hardfacing welding tasks (robots and linear gantries).

Depending on the requirements, welding can be carried out with or without filler material, whereby the material can also be fed manually or automatically.

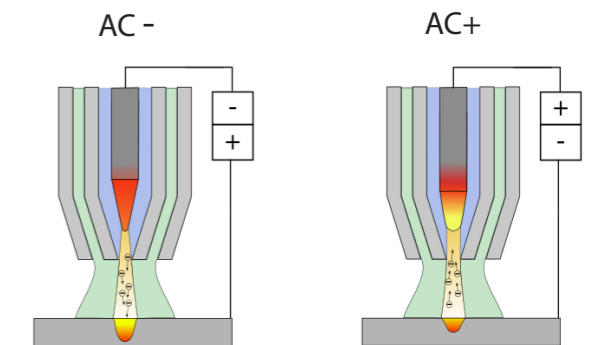
The application range of the PMI covers material thicknesses from metal foils to thin sheets to large wall thicknesses. The range of applications for the various welding tasks extends from household appliance technology to container construction and use in the automotive industry, aviation technology and mechanical engineering.



PMI AC/DC

A high-tech device for distortion-free plasma welding of aluminium and thin sheets with optimum cleaning effect and penetration depth as well as for hardfacing of aluminium and aluminium bronze alloys.

WELDING MODE AC (alternating current)



Standard operation mode for light metal alloys.

Wide range of applications due to amplitude, frequency and balance parameters. Compared to TIG alternating current welding, metals with massive oxide formations can be better processed. This applies to both joint welding and hardfacing.

