





## welcome

Welding is the most important and versatile joining technique. In fields where highest quality demands are required, standard solutions are not sufficient anymore.

Especially in the field of pipeline and narrow gap welding spa welding systems gmbh made customer oriented developments and solutions to its business.

This solutions not only perform highest quality demands but also prolong the service live of used tools and guarantee a fast and safe mechanical handling and therefore increase productivity.

Our predominantly international and also national customers in pipeline- , steel- , plant construction and automotive industry appreciate our quickness, flexibility and creativity in our MIG and SAW welding application spectrum.

Here our unique coated current contact tips and gas nozzles achieve extraordinary good economic and ecologic results. This effect is even increased when using our high temperature strong copper alloy DHCA.

For welding hard to access areas our specially developed narrow gap welding system will ease your work.

When welding pipelines you can use our high quality positioning bands (guide rings) which we build for almost any existing automatic orbital welding system including our new designed latch system.

A brand new and unique automatic orbital welding system with an excellent cost/performance ratio just competed our program line and will be launched to the market.

Further more we offer various products in the field of welding technology. The innovative potential of spa welding systems is still growing.

Combination of different materials and a lean structure ensures a fast solution of today's welding problems.

Michael Kett  
C.E.O.



## article list

Here you will find soon the complete article lists according to our catalog.  
We will offer the lists also on our website [www.spa-welding.com](http://www.spa-welding.com) for downloading.

We can also send you the requested article lists through our online request centre:  
[www.spa-welding.com](http://www.spa-welding.com)

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*spa makes the weld go round.*



## spa coatings

- **WBC coating**
- **boron nitride coating**
- **aluminum oxide coating**

spa coatings were made to optimize the welding process in general. They are used for current contact tips, gas nozzles and machine parts which are exposed to high spatter impacts or need current insulating characteristics. Coatings supplied by spa welding systems gmbh increase the duration of the components and help to improve the welding process due to their flexible applicable properties.



coating versions

spa coatings offer following advantages:

- spatter repelling and current insulating coatings (or both in one) possible
- can be applied on any surface
- less downtime (automation)
- no anti stick sprays or pastes necessary
- no toxic vapours
- increased durability results in higher productivity

In principle spa coatings can be applied in various fields of the production process and welding work shops. The current insulating and thermal resistance properties offer new opportunities in welding processes in particular when using DHCA materials.



## spa coatings

### ■ WBC coating

#### spatter repelling



It's our standard coating especially in combination with our shielding **gas nozzles**. This coating has extreme spatter repelling characteristics and stands for less cleaning work and increased service life of the gas nozzle.

Thermal resistant up to 400°C.

#### spatter repelling and current insulating



Also a standard coating used especially in combination with our **DHCA current contact tips**. This coating has very good spatter repelling and current insulating characteristics.

It is perfect suitable for narrow gap welding application and spade tips to avoid short circuits with the work piece or torch.

Thermal resistant up to 400°C.

spa coatings offer following advantages:

- minimum cleaning work
- no releasing agents required
- coatings are suitable for all gas nozzles, contact tips and metals
- flexible applicable due to different properties
- no retooling problems

In general coatings provided by spa significantly reduce sticking of harmful welding spatters which results in a reduce cleaning time interval. This increases the service life and durability of the gas nozzles and current contact tips.

The current insulating and thermal resistance properties offer new opportunities in welding processes in particular when using spa DHCA materials.



## spa coatings

### ■ boron nitride coating

#### spatter repelling and current insulating



A standard coating in combination with our **DHCA current contact tips**.

This coating provides excellent current insulating characteristics and has good spatter repelling properties.

Especially used for applications in automatized orbital welding with narrow bevel angles to avoid short circuits.

Thermal resistant up to 400°C

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- minimum cleaning work
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- flexible applicable due to different properties
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In general coatings provided by spa significantly reduce sticking of harmful welding spatters which results in a reduce cleaning time interval. This increases the service life and durability of the gas nozzles and current contact tips.

The current insulating and thermal resistance properties offer new opportunities in welding processes in particular when using spa DHCA materials.



## spa coatings

### ■ aluminium oxide coating

#### spatter repelling and current insulating



It's an excellent coating in combination with our **DHCA current contact tips**.

This coating is extremely hard and resistant. In addition it is highly current insulating and spatter repelling.

Especially suitable for all SAW tips which are exposed to high temperatures.

Thermal resistant up to 1200°C

spa coatings offer following advantages:

- minimum cleaning work
- no releasing agents required
- coatings are suitable for all gas nozzles, contact tips and metals
- flexible applicable due to different properties
- no retooling problems

In general coatings provided by spa significantly reduce sticking of harmful welding spatters which results in a reduce cleaning time interval. This increases the service life and durability of the gas nozzles and current contact tips.

The current insulating and thermal resistance properties offer new opportunities in welding processes in particular when using spa DHCA materials.