





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 for downloading.

We can also send you the requested article lists through our online request centre:
www.spa-welding.com

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spa makes the weld go round.



narrow gap welding

- **Inner Shield System** (for self shielded wire FCAW-ss)
- **SPAce System** (for MIG welding)



Inner Shield System



SPAce System

The narrow gap welding systems Inner Shield and SPAce have following advantages:

- optimal workpiece accessibility
- best view on weld seam
- highly flexible through two different welding systems (massiv wire welding + flux cored welding)
- no short circuits by best insulating components
- for groove depth up to 180mm (7.10")
- cost effective priced due to modular system

The narrow gap welding systems Inner Shield and SPAce cover a wide operational area for difficult to access welds. Through their easy handling and their quick exchangeable single components a productive workflow is warranted.



narrow gap welding

■ Inner Shield narrow gap welding system

Our narrow gap system Inner Shield is specially designed for welding self shielded wire (FCAW-ss) and available in 2 versions: **Glimmer System** and **Metal System**.

The **Glimmer System** consists of a contact tube with an integrated contact tip, made in one piece. It is equipped with a high thermal resistant white boron nitride protection cap, spatter repelling and current insulating. The contact tube is covered and insulating with a glimmer jacket.

By contrast the **Metal System** has an exchangeable DHCA contact tip and is equipped with a special grey boron nitride ceramic protection cap. This protection cap is highly current insulating, thermal shock resistant and spatter repelling. To optimize the service life the glimmer insulator is covered with a nickel plated copper jacket.



Inner Shield
narrow gap welding system

narrow gap welding system Inner Shield offers following advantages:

- optimal work piece accessibility
- best view on weld seam
- for groove depth 90mm (3.54") and 180mm (7.10")
- no short circuits possible
- great savings in filler material and labour

The narrow gap welding system Inner Shield is available in the length 90mm (3.54") and 180mm (7.10") and flexible applicable in rail joint welding, pipeline welding and repair work. The Inner Shield system is designed for a flux cored wire electrode of $\varnothing 2.0\text{mm}$.

In addition to that we also provide appropriate welding torches from the shelf.



narrow gap welding

■ SPAce narrow gap welding system

The SPAce narrow gap welding system is designed for MIG applications in difficult to access areas. The system is also equipped with a protection cap made out of a high quality boron nitride ceramic. This ceramic is current insulating, extreme heat and thermal shock resistant and shows excellent spatter repelling characteristics.

The current contact tube and tip are coated with a special boron nitride based and heat resistant coating which results in an excellent current insulation. Possibly short circuits are virtually excluded. The slim gas nozzle, equipped with our approved spatter repelling WBC coating ensures best work piece accessibility. The system is available for almost any welding torch on the market.



SPAce
narrow gap welding system

The SPAce narrow gap welding system offers following advantages:

- improved weld seam visibility due to a very slim design
- optimal root acquisition by aperture angle of less than 60°
- great savings in filler material
- increased service life due to optimal combination of basic materials
- no short circuits due to best insulating components
- no toxic and expensive releasing agents required

SPAce narrow gap welding systems are available for several different groove depth which offers possibly MIG applications in almost any welding task. Available for groove depth of 60mm (2.36"), 90mm (3.54"), 120mm (4.72") and 150mm (5.90"). The standard system is designed for a 1.2mm (.045") wire electrode, but there are also contact tips available for wire \varnothing 0.8mm (.030"), 1.0mm (.039") and 1.6mm (1/16").

In addition we also can supply appropriate welding torches from the shelf.