



# Carl Cloos Schweisstechnik GmbH

The Company

**CLOOS**

Weld your way.

[www.cloos.de](http://www.cloos.de)



# Weld with CLOOS

...



... all types of metal!



... all material thicknesses from 0.5 to 300 mm!



... using innovative welding processes!



... manually or automated, just as you need it!



... efficiently and individually!



... and profit from many additional services!



... in all industries!



... all over the world!



... to your utter satisfaction!



... and benefit from more than 100 years of welding experience!

# ... all types of metal!

## **Perfect welding technologies for the most different materials**

Use our proven know how in welding technology for the efficient processing of the most varied materials. No matter if steel, aluminium, chrome-nickel materials or coated plates – we offer you the suitable welding technology.



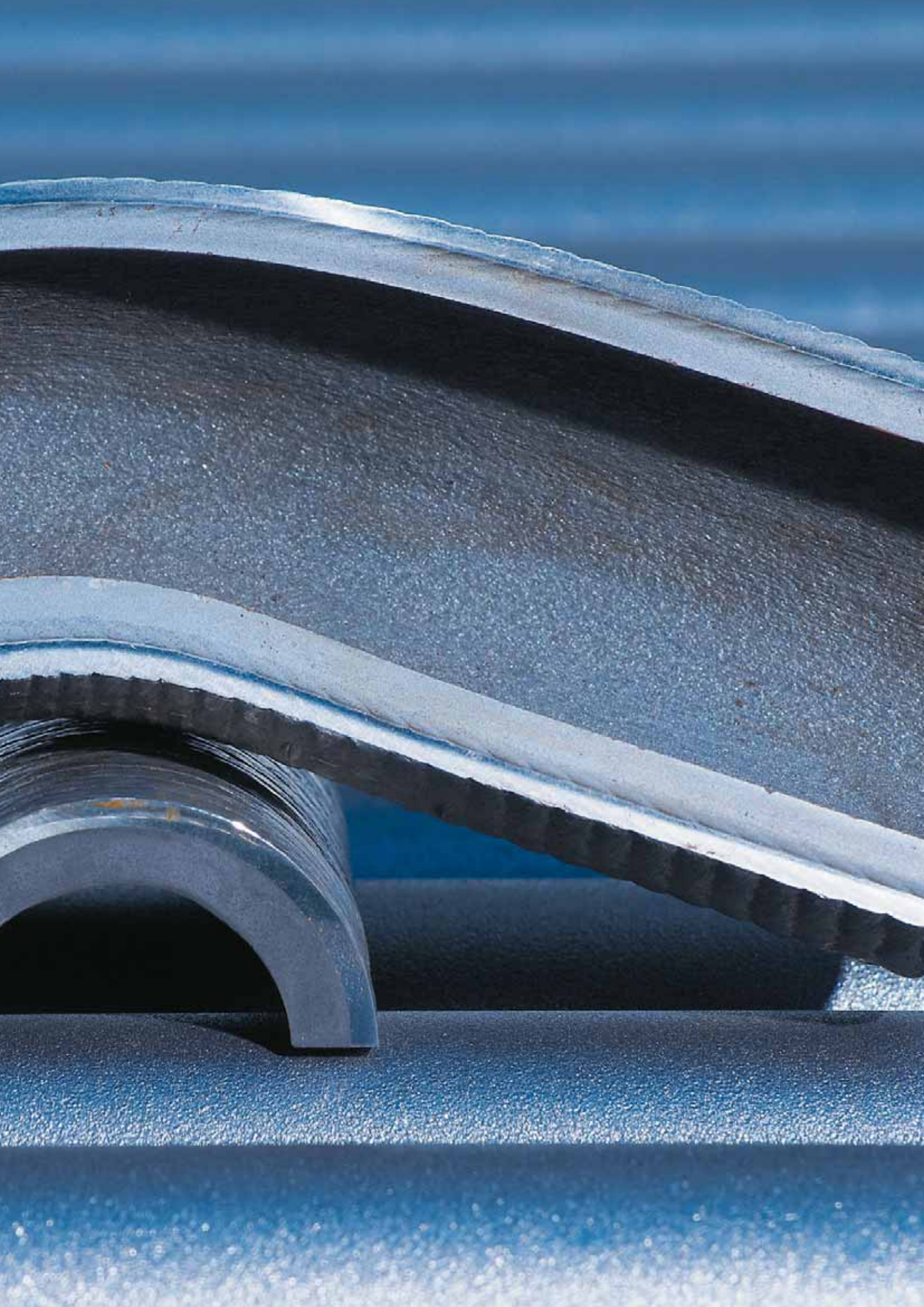




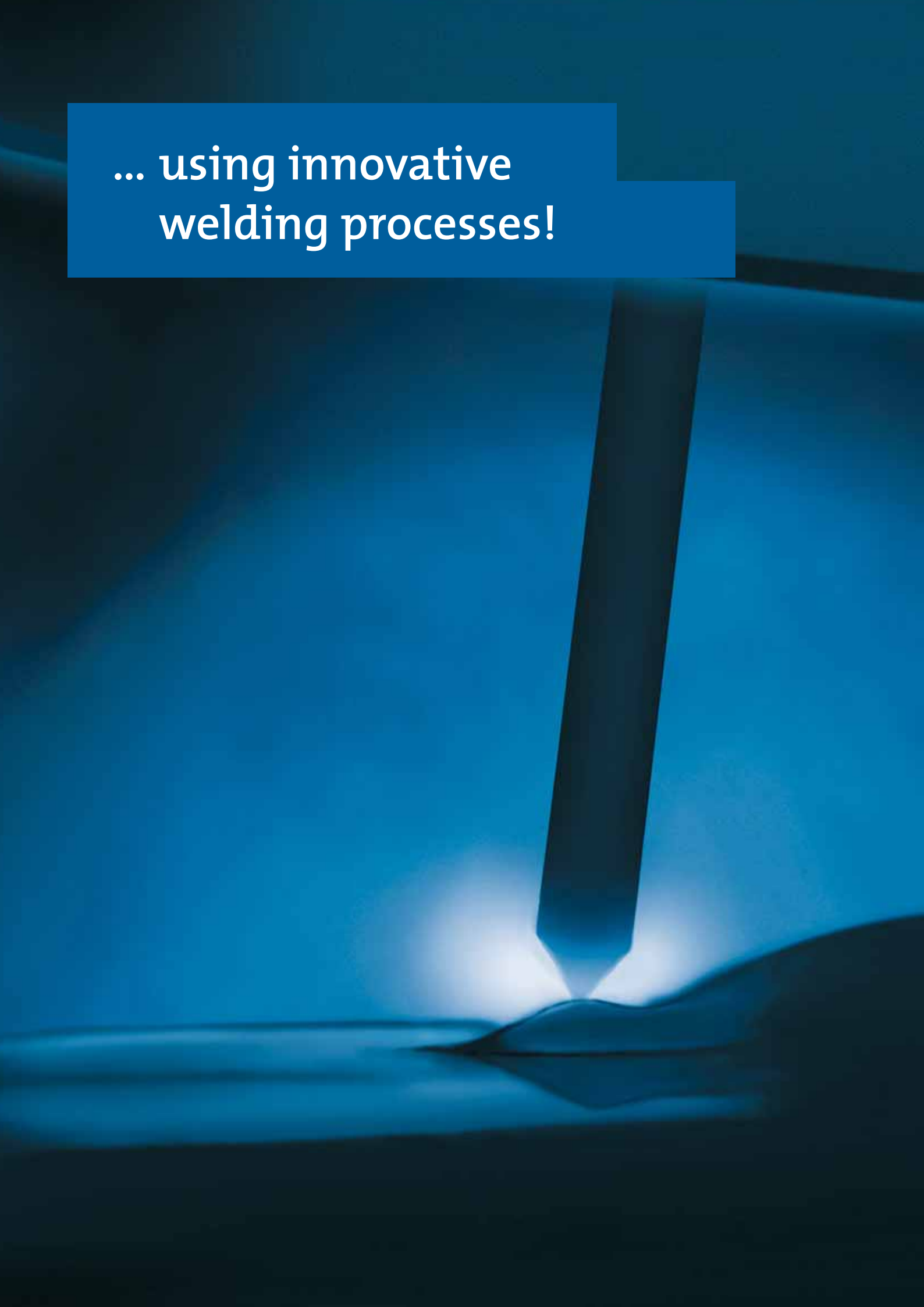
... all material thicknesses  
from 0.5 to 300 mm!

**With CLOOS through thick and thin**

You wish to weld a thin component at high speed? Or do you look for a solution to weld a particularly thick component? With CLOOS you are always on the safe side – with a multitude of welding processes and a vast scope of products we offer you the optimum technology for your individual component.



... using innovative  
welding processes!





## The right welding technology for your materials

With a large range of proven and innovative welding processes, CLOOS can offer solutions for the future providing maximum efficiency and productivity with regard to automated welding. New processes such as Tandem Weld or Laser Hybrid Weld are developed and tested in our technology centre under practical conditions.

Even the proven MIG/MAG welding processes are continuously improved to meet the increasingly complex requirements. This

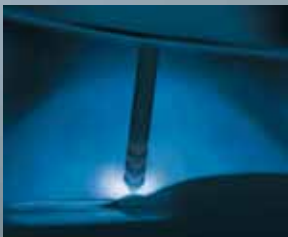
decisive competence edge is offered only by CLOOS.

Excellent ignition behaviour, a quiet and stable arc and excellent weld seam qualities: Eight welding processes allow highly flexible application possibilities with a variety of materials. Clean Start, the ignition routine patented by CLOOS, ensures reliable and low spatter arc ignition with all processes.

### MoTion Control Weld



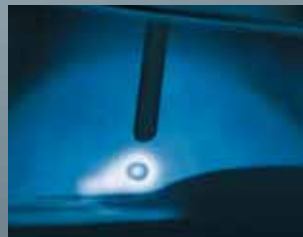
Controlled short arc with reversing wire drive unit



### Vari Weld



MIG/MAG pulsed arc for optimum welding results even under demanding conditions



### Speed Weld



Stable MIG/MAG pulsed arc for numerous applications



### Rapid Weld



Focused high-capacity MIG/MAG spray arc for deep penetration and efficient welding



### Tandem Weld



Combination of two synchronised MIG/MAG arcs for maximum deposition rate



### Cold Weld



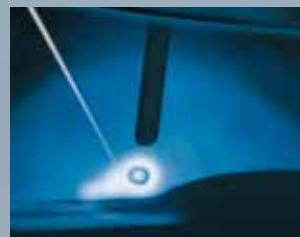
Directionally stable MIG/MAG AC pulsed arc for optimum results when welding demanding materials



### Laser Hybrid Weld



Combination of laser welding and MIG/MAG arc for maximum efficiency and quality




### TIG Weld



Reliable process for clean and precise welding







... just as you need it,  
manually ...

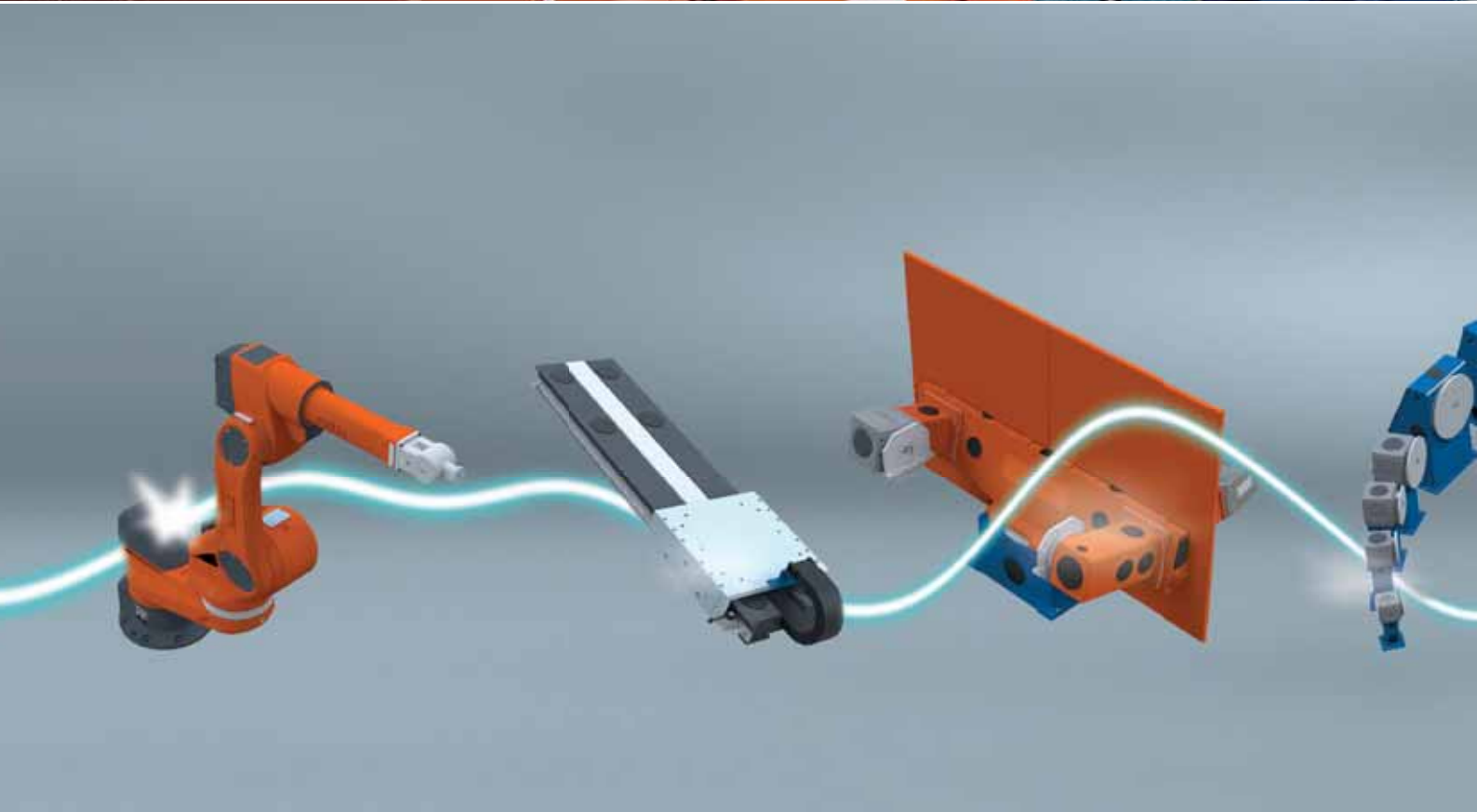
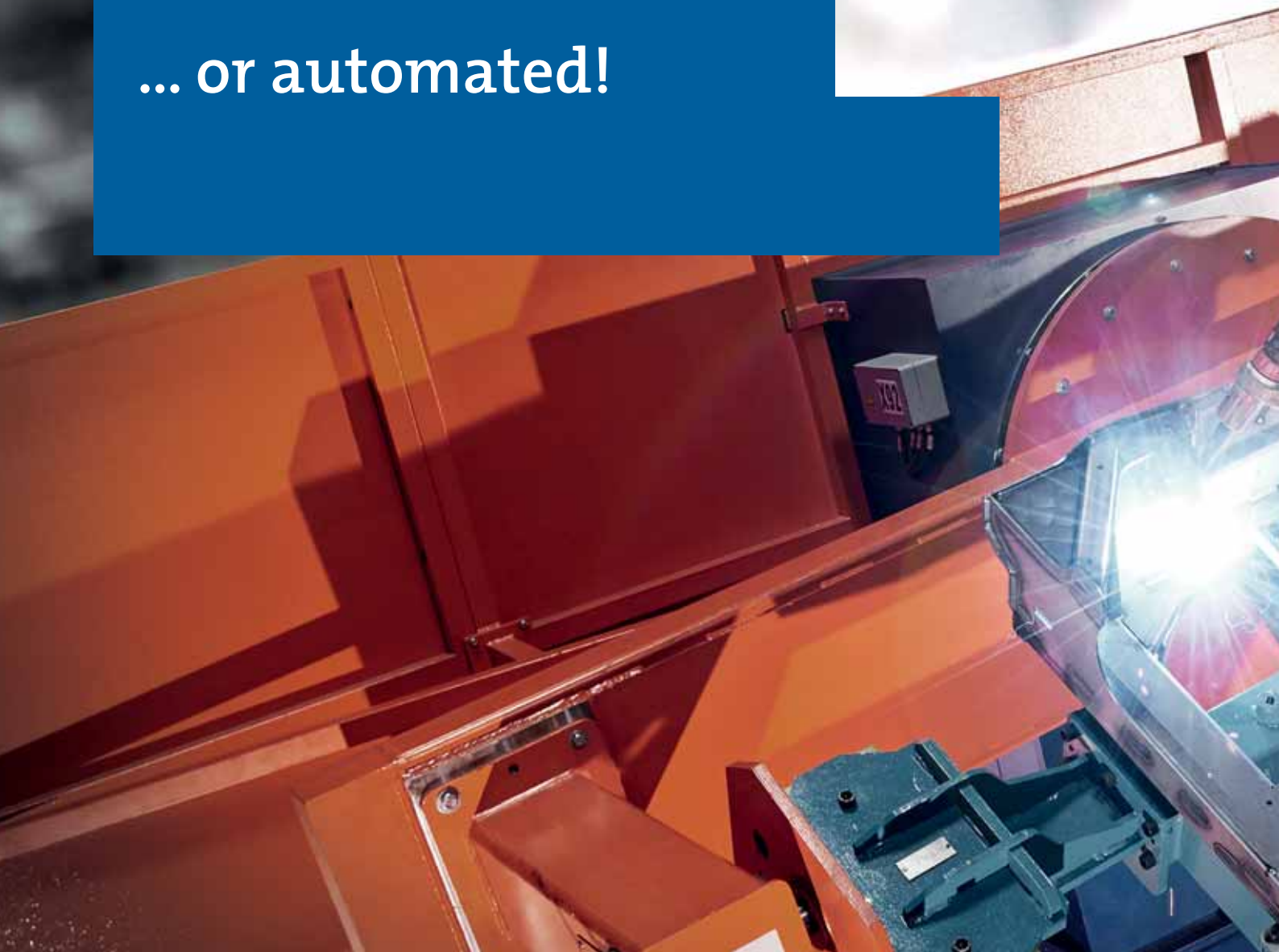


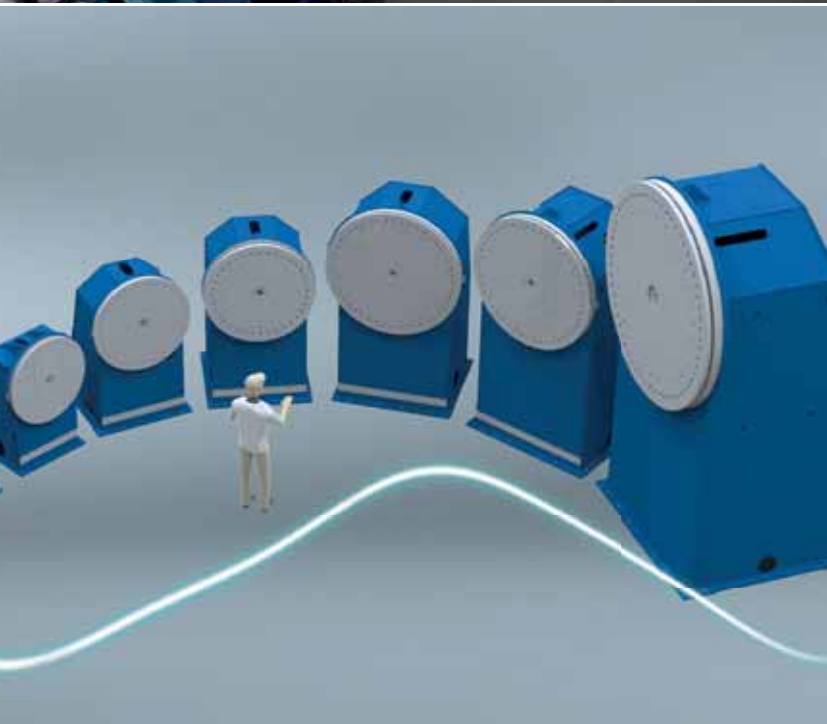
**qineo**

**High-quality welding machines  
for manual and automated  
applications**

QINEO, that's the name of the modular product line of the CLOOS welding machines. They are powerful, comfortable and suitable for universal use - and can be precisely configured for individual requirements.

... or automated!





# QIROX

## Systematic automated welding and cutting

QIROX includes the robot technology, software, sensors, safety technology and positioners. The modular design allows scalable solutions – always tailored to your needs.

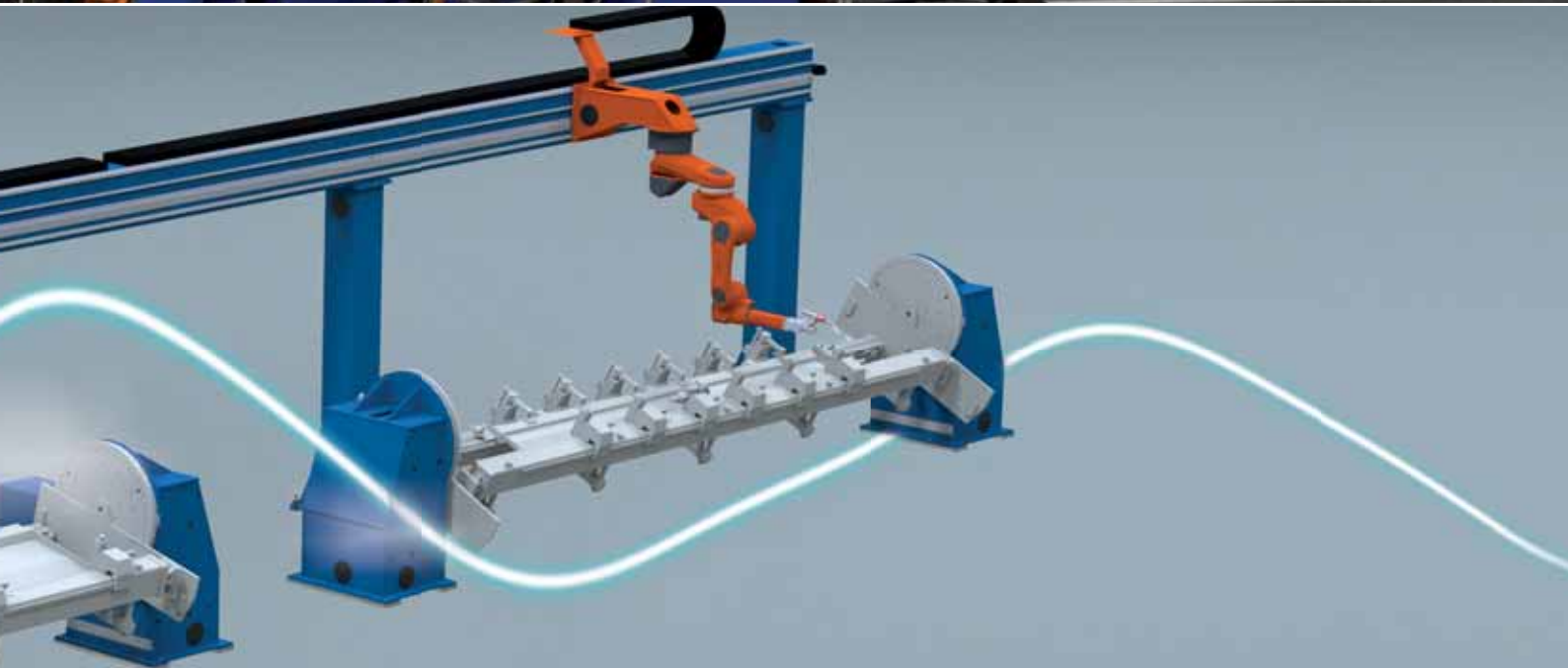


## ... efficiently and individually!

### Market lead due to expertise

Every production challenge requires individual technologies to achieve optimal results. To ensure that you manufacture and handle the best possible products and component parts, CLOOS supports you with excellent arc welding expertise and a complete product portfolio.





# ... and profit from many additional services!

## CLOOS is the right partner at your side

Our highly qualified and motivated staff assists you right from the start of your project. From competent advice and targeted planning over production up to commissioning and subsequent service. Profit from many years of experience and our will for innovation.

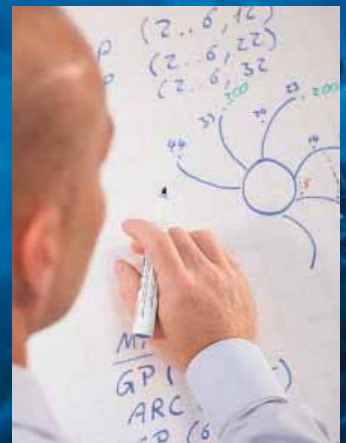
1. Consulting



2. Planning



3. Design







4. Production

5. Commissioning

6. Training

7. Service





# ... in all industries!

## Customised technologies for the most different industries

For decades, customers from the most different industries have trusted in our welding technologies and our know-how. So we realise production solutions in welding and robot technology for industries such as power plant technology, construction machinery, automotive and agricultural industry and many more.







**... all over  
the world!**

**Global presence at more than 50 locations**

CLOOS develops, manufactures and delivers innovative solutions throughout the world. There are more than 50 sales and service centres in our worldwide CLOOS organisation, which are at your disposal for sales and service. In addition, our experienced service team in Haiger can be called at any time. In this way we can ensure effective help on site if breakdowns occur.

**800 employees**

**9 production sites**

**12 subsidiaries**

**50 sales and service centres**



A close-up portrait of a middle-aged man with short, dark hair, smiling broadly. He is wearing a blue polo shirt. The background is a blurred blue and white pattern, possibly a wall or a large object. The lighting is bright and even, highlighting his features.

... to your utter  
satisfaction!



"CLOOS offers all components for automated welding from a single source. This offers us great advantages. Both with the CLOOS representative Philippe and with the technical specialists of CLOOS we had a positive exchange of ideas from the beginning and mutually strengthened each other in the joint project."

Hans-Peter Lörch, Operations Manager, Rosenbauer Karlsruhe GmbH & CO. KG



"CLOOS is and will be our first choice for welding. For many years, our two companies have a friendly relationship."

Raphael Willgenss, Junior Managing Director, Heun Group

Linde Material Handling

"For many years now, we have been using welding technology only by CLOOS to achieve as many synergies as possible, especially with regard to spare parts and maintenance."

Niklas Titzmann, Head of the Lifting Gear Production, Linde Material Handling GmbH



"CLOOS is a company with a very long tradition and provides top technologies. We intend to further intensify the cooperation with CLOOS in the next years to make our production even more modern and to become the Number 1 world wide in the industrial vehicle and crane-lifting industry."

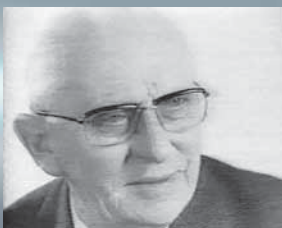
Jianfeng Pan, Managing Director and Owner, Henan Juntong Vehicle Co., Ltd.



"We are glad that CLOOS is our reliable partner and available for us with advice and action in the field of welding technology. CLOOS has an excellent reputation in the market and delivers its technologies to many of our customers."

Lubomír Stoklásek, Agrostroj Pelhřimov, Inc.

... and benefit from more than 100 years of welding experience!



**1919**  
Foundation by entrepreneur-pioneer Carl Cloos



**1956**  
Development of a shielded gas welding machine with endless wire electrode



**1958**  
Beginnings of automated welding



**1981**  
Start of the robot production





**1996**  
Market introduction of  
Tandem Weld



**2008**  
QINEO – The new generation of welding power sources



**2010**  
QIROX – The system for automated welding and cutting.



**2019**  
C-Gate: Digitalisation of welding technology

# CLOOS —

## Single source supply!

**CLOOS Welding technology:  
Robot and welding technology from a single source**

Since 1919, Carl Cloos Schweisstechnik GmbH is one of the leading companies in welding technology. More than 800 employees all over the world realise production solutions in welding and robot technology for industries such as construction machinery, railway vehicles, automotive and agricultural industry. The modern CLOOS welding power sources of the QINEO series are available for a multitude of welding processes. With the QIROX robots, positioners and special purpose machines CLOOS develops and manufactures automated welding systems meeting the specific requirements of the customers. The special strength of CLOOS is the widely spread competence. Because – from the welding technology, robot mechanics and controller to positioners, software and sensors – CLOOS supplies everything from a single source.

# CLOOS

Weld your way.

Welding and cutting processes:  
Innovative process technology

## Robots and Welding Products

High-quality welding  
machines, robots,  
positioners and  
fixtures



## Automation

Customer-related,  
automated welding  
and cutting solutions



## Customer Service

Spare parts, used  
machinery, training,  
analyses etc.



### qineo®

High-quality welding machines  
for manual and automated  
applications

### qirox®

Systematic automated welding  
and cutting



# QINEO NextT

## New excellent Technology – the next generation

The QINEO NextT MIG/MAG welding power source convinces by excellent arc characteristics for highest welding quality. Whether manual or automated welding, thin or thick materials – benefit from the flexible application possibilities of the QINEO NextT and achieve excellent welding results!



**CLOOS**

Weld your way.