

# CLOOS

Weld your way.

## QINEO Micro/Micro Pulse

MIG/MAG Inverter welding machines - small and powerful

**New!**

Now MIG/MAG  
Pulse also up to

**300 A**



**qineo**<sup>®</sup>

Some ideas set the trend for future times.



**qineo**® Micro/Micro Pulse

**CLOOS: Your brand for innovative welding technology!**

Providing added value for our customers! This objective drives our 700 motivated employees to achieve maximum performance. We are constantly raising our bar by pushing ourselves to provide innovative welding processes and solutions that will contribute to the long-term commercial success of your company!

Our process competence is at the forefront in welding and cutting of various ferrous and non-ferrous metals. We offer our customers individual solutions which are optimized and adapted specifically to your product and production requirements.

Leadership and competence equals process automation and welding at its best. Whatever your needs are, we **“Weld your way.”**

CLOOS develops, manufactures and delivers innovative solutions in more than 40 countries worldwide. With our QINEO, the new generation of welding

machines for manual and automated applications, and QIROX, the system for automated welding and cutting, our product range covers the entire spectrum of arc welding technology. Our product portfolio includes intelligent software, sensor and safety technology solutions – all of which are customised to meet your specific needs and requirements!

**CLOOS provides full service solutions – all from a single source!**



## **qineo**<sup>®</sup> The new generation of welding power sources for manual and automated applications.

QINEO are the high-quality welding power sources by CLOOS which have been developed specifically for commercial and industrial welding purposes. They meet every demand of manual and automated welding. Moreover, the modular QINEO<sup>®</sup> system allows individual solutions which can be adapted to your specific production requirements and objectives. From capacity class to special equipment, each QINEO<sup>®</sup> is customised and supplemented by a comprehensive accessories program and matching services. With highest availability, shortest delivery times and best quality QINEO<sup>®</sup> welding power sources offer you considerable economical advantages.

### Compact and high-performance for precise welding

The new infinitely adjustable mobile MIG/MAG welding machines QINEO Micro/Micro Pulse are easy to handle, flexible in use and powerful in performance. These synergy-based welding machines are designed for precision work with high-quality results. You will be impressed by the optimum performance/weight ratio of the QINEO Micro/Micro Pulse. The handy welding power sources can be quickly and easily installed by the welder on any welding or construction site, when repairing vehicles or for industrial use.

#### Advantages of QINEO Micro/Micro Pulse in overview

- **Versatile areas of use**

A solution for all welding tasks

**Multifunction:**

- Rod electrode welding
- WIG-DC welding (Liftstart®)
- MIG/MAG normal welding
- MIG/MAG pulse welding\*

- **Synergy mode**

Quick setting of the welding parameters

- **Easy to use**

Synergy characteristic curves are included in the delivery

- **Optimum power/weight ratio**

Light, easy to use and very powerful up to 300 A

- **To be used with a generator, mains current compensation**

Very good welding results independent of cable lengths or current fluctuations

- **Excellent ignition characteristics**

Liftstart® for TIG DC welding,  
Hot start and anti-stick for stick electrode welding

- **Universally applicable**

**Micro Pulse 200** Operation on a 230 V mains.

**Micro 300** Operation on a 3 phase / 400 V mains.

- **Robust construction**

High level of stability of the devices

\* only QINEO Micro Pulse 200 and Micro Pulse 300



### Special features of the Micro 300/Micro Pulse 300 in overview

- **Low spatter welding results**  
due to Softstart.
- **Very simple operation and quick parameter access**  
because of job operation as standard.
- **High flexibility**  
by using different remote controls.
- **Powerful pulse up to 300 A**  
with the Micro Pulse 300

**New!**

**New!**

Even more  
power with the  
**Micro  
Pulse 300**



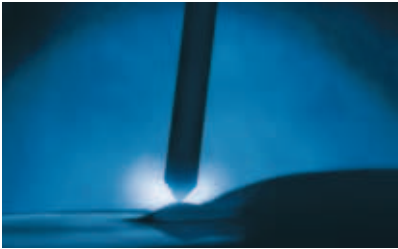
QINEO Micro Pulse 200

QINEO Micro 300

QINEO Micro Pulse 300

### Quality by manual work

Thin plates or thicker materials: Perfect weld qualities can be easily reached with the QINEO Micro/Micro Pulse. The QINEO Micro/Micro Pulse has a variety of processes "on board" and is a real multi-talent that allows the user to perform almost every welding task. This is guaranteed by the good ignition, a quiet and stable arc and low spatter formation.



#### MIG/MAG normal welding (QINEO Micro/Micro Pulse)

##### Applications

- Thin plates
- Welding under pure CO<sub>2</sub>
- Repair welding

##### Advantages

- Even arc
- Low heat input
- Good gap bridging ability



The MIG/MAG normal welding process supplies an arc which is particularly advantageous when welding thin steel. Vehicle construction, electronics industry, heating technology, white goods and the furniture industry are the traditional branches. In particular the short arc can also be used for reliable repair welding throughout all industry sectors and allows for welding under pure CO<sub>2</sub>.



#### MIG/MAG pulsed arc welding (QINEO Micro

##### Applications

- Thin to medium sheet thickness
- Industrial and manual work
- Assembly and repair

##### Advantages

- Low spatter
- Clean drop separation
- Suitable for aluminium



The MIG/MAG pulsed arc welding process is most suitable for joining components with thin to medium plate thicknesses. Good penetration depths and side wall joints at high weld speeds are achieved

#### Stick Electrode Welding

#### TIG DC welding (with Liftstart®)



##### All processes in one brochure

As a system supplier CLOOS have not specialised in just one welding process but have developed welding power sources which offer all common processes. Each process has its special advantages and application ranges, but also certain technical restrictions. which are explained in our special brochure "Welding". Download or order at

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



### Single source supply

The custom-made accessories for the new MIG/MAG welding machine generation QINEO Micro/Micro Pulse are of high-quality and economically tested. These long-lasting, versatile and flexible components offer an ideal supplement for more efficient work.



#### MIG/MAG Welding torches

The welding torches from CLOOS are as diverse as the welding power sources. We manufacture matching welding torches for every capacity class and for every requirement of manual and automated welding.



#### Pressure reducer

Precise setting of the protection gas flow-through rate to achieve optimal gas coverage of the arc.



#### Welding safety helmet Arc Flash

The CLOOS welding safety helmet protects from UV and heat radiation. The helmet is solar-operated as standard (no batteries required) and has a wide field of view.



#### Hand remote control

The hand remote control is used to minimise time-consuming ways when welding far away from the power source.

Applicable with Micro 300 / Micro Pulse 300



#### Trolley

The trolley for the Micro 300 / Micro Pulse 300 increases your mobility and comfort at the workplace.



#### Water cooling

Increase the efficiency of the Micro 300/MicroPulse 300 by means of the optional water cooling.





## Welding machines

### QINEO Micro Pulse 200

Welding current	5 A - 200 A
Welding current at 35 % duty cycle	200 A
Welding current at 100 % duty cycle	140 A
Open circuit voltage	65 V
Mains voltage (plug 5-pol. CEE)	230 V
Connection cable	3 x 2,5 mm <sup>2</sup>
Mains fuse slow-acting	25 A
Type of protection	IP 23 S
Insulation class	H
Kind of cooling (torch)	gas cooled
Dimensions L/W/H mm	500 x 280 x 420
Weight	17 kg

\* at an ambient temperature of 40°C



## Welding machines

### QINEO Micro 300

**New!**

### QINEO Micro Pulse 300

Welding current	20 A - 300 A	20 A - 300 A
Welding current at 35 % duty cycle	300 A	300 A
Welding current at 100 % duty cycle	200 A	200 A
Open circuit voltage	53 V	60 V
Mains voltage (plug 5-pol. CEE)	3 x 400 V	3 x 400 V
Connection cable	4 x 2,5 mm <sup>2</sup>	4 x 2,5 mm <sup>2</sup>
Mains fuse slow-acting	16 A	16 A
Type of protection	IP 23 S	IP 23 S
Insulation class	H	H
Kind of cooling (torch)	Gas cooled, water cooled	Gas cooled, water cooled
Dimensions L/W/H mm	560 x 280 x 390	560 x 280 x 390
Weight	21 kg	24 kg

\* at an ambient temperature of 40°C

### Only QINEO® offers built-in quality

The state-of-the-art individual production of QINEO® welding power sources from modules sets a new standard for the whole industry. The matching components guarantee an economical production, very short delivery times and best quality. Every QINEO® welding power source is of a piece. And every detail serves only one end: to achieve optimal welding results.



# Service

## Active worldwide

There are more than 40 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 for any problems. In this way we can ensure effective help on site if breakdowns occur.



## Long service life guaranteed

With maintenance and inspection at regular intervals the technical availability of a CLOOS system is nearly 100 %. But if faults do occur, we can minimise downtime by means of a quick repair. This is ensured by well-equipped spare parts stores and a computer-controlled logistic system.

## Always at your service

Our Service Hotline is free of charge and in the case of emergencies is always available for you. 24 hours service without surcharge.. Even in the case of products which have been in use for more than 20 years we have the expertise to answer all your questions.

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## Service Hotline

☎ +49 (0) 27 73/85-132

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Additional information regarding QIROX® the system for automatic welding and cutting can be obtained at [www.qirox.de](http://www.qirox.de)

**QIROX®**





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Carl Cloos Schweisstechnik GmbH  
Industriestrasse 22-36  
D - 35708 Haiger  
GERMANY

Telephone +49 (0)2773 85-0  
Telefax +49 (0)2773 85-275  
E-Mail [info@cloos.de](mailto:info@cloos.de)  
[www.cloos.de](http://www.cloos.de)