



## QINEO – Product Overview

High-quality power sources for MIG/MAG welding:  
Powerful, comfortable and suitable for universal use

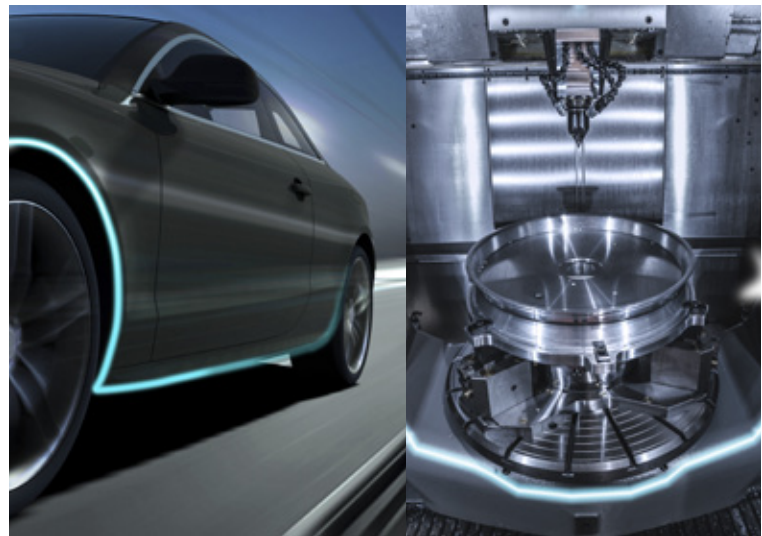
**CLOOS**

## 4

### Welding technology from a single source: Modular System



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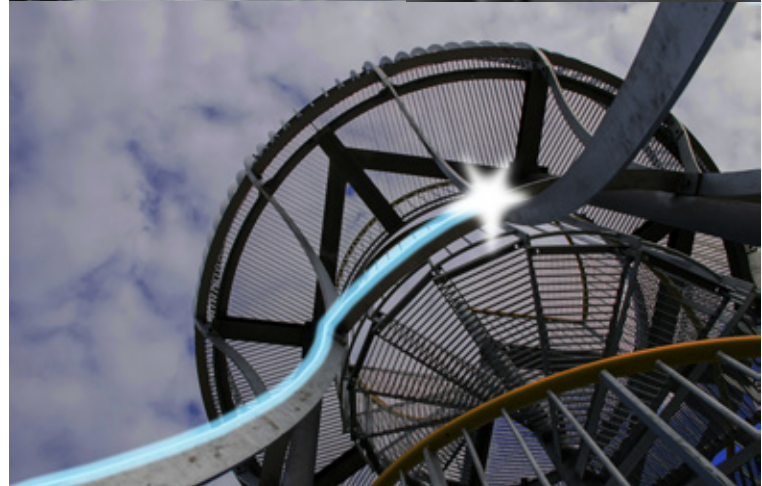


# 30

## Welding power sources for manual welding



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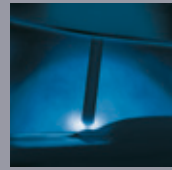
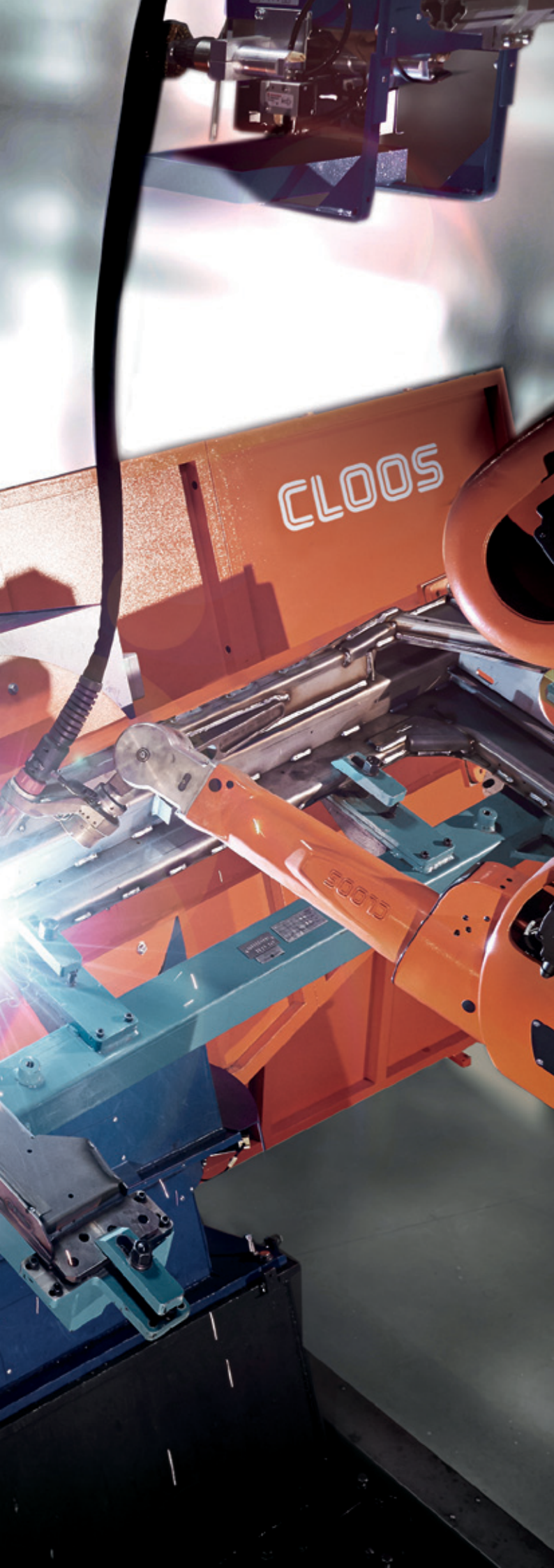


# QINEO

## Modular System

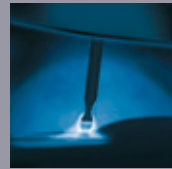


# Efficiency ...



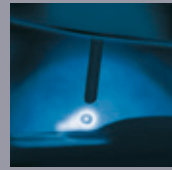
## Control Weld

Reliable MIG/MAG welding process for thin and thick materials



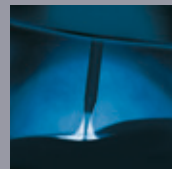
## Speed Weld

Stable MIG/MAG pulsed arc for numerous applications



## Vari Weld

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



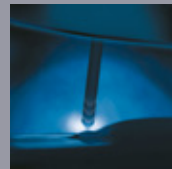
## Rapid Weld

High-capacity MIG/MAG spray arc for efficient welding



## Cold Weld

Heat-reduced MIG/MAG AC pulsed arc for optimum results when welding sensitive materials



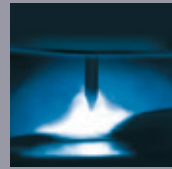
## MoTion Weld

MIG/MAG arc with reversing wire drive unit



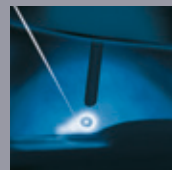
## Tandem Weld

Combination of two synchronised MIG/MAG arcs for double capacity



## TIG welding

Reliable process for clean and precise welding



## Laser Hybrid Weld

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

# ... due to modern processes

# qineo

## QINEO NexT

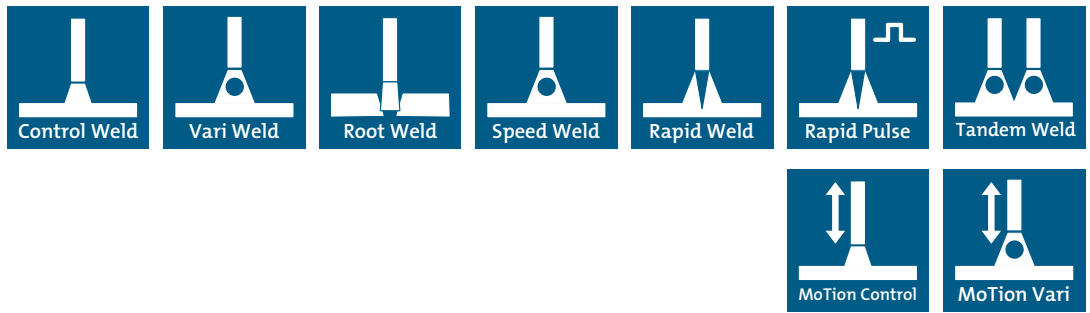
450 A  
60%  
duty cycle



## QINEO NexT (New excellent Technology) – the next generation

Excellent welding results and flexible applications – the new MIG/MAG multiprocess welding machine QINEO NexT 452 DC expands the established CLOOS product portfolio. The hightech welding power sources are available with an inverter power supply (DC). The QINEO NexT convinces by excellent arc characteristics for highest welding quality. The modular design allows many utilisation possibilities from the basic welding machine for manual welding to the multiprocess welding machine for automated robot welding.

- Inverter technology: Excellent efficiency
- Precision by technology: 2 independent fine adjustments for the perfect arc
- Excellent weld seam quality: Regulated drop separation ensures stable and reproducible processes
- Best quality: Optimum ignition and welding characteristics
- Flexibility: Master Plus and Premium operating panels available depending on requirement



### MasterPlus operating module

Manual welding in perfection

- Intuitive operation
- Job favourites
- Memory for 4 welding circuits



### Premium operating module

Sophisticated automation

- Intuitive operation
- Diagnostic functions
- Memory for 4 welding circuits

## QINEO Next

Welding current	40 A - 450 A
Welding current at 60 % duty cycle*	450 A
Welding current at 100 % duty cycle*	350 A
Open circuit voltage	80 V
Mains voltage	380V - 480 V / 3 phases
Connection cable	4 x 6 mm <sup>2</sup>
Mains fuse slow-acting	32 A
Type of protection	IP 23
Insulation class	F
Type of cooling	F
Dimensions L/W/H	720 x 340 x 500 mm
Weight	110 kg

\* at an ambient temperature of 40°C



### Wire drive units

QINEO QWD-M

QINEO QWD-P

QINEO QWD-P4

Wire feed speed	max. 24 m / min	max. 24 m / min	max. 30 m / min
Dimensions L/W/H	620 / 385 / 255 mm	674 / 260 / 450 mm	350 / 270 / 230 mm
Weight	21.1 kg	12.8 kg	7.5 kg
Wire diameter	0,8.. 2.0 mm	0,8.. 2.0 mm	0,8.. 2.0 mm

# qineo

## QINEO Champ Pro

450 A  
60%  
duty cycle

600 A  
60%  
duty cycle



## QINEO Champ Pro – quantum leap in high-tech welding

Efficient, precise, versatile – this high-tech equipment meets the highest demands. In every performance category and under complex performance conditions. 450 A or 600 A: Every QINEO Champ Pro machine provides many different welding processes for a variety of possible applications, materials and plate thicknesses. Increased flexibility thanks to the free adjustment of characteristic curves, excellent welding properties, low-cost operation – the QINEO Champ Pro combines all these characteristics into one state-of-the-art solution for a new dimension in welding technology. The Cold Weld process with an AC arc is possible with the QINEO Champ Pro - particularly advantageous for aluminium welding.

- Utmost flexibility: Free adjustment of the characteristic curves and control parameters in single parameter mode
- Best process quality: High-tech for excellent welding results
- Simple and intuitive: Clear operating panel with extensive functions
- Low operating costs: Energy saving standby mode
- Compatible: Secure communication with welding robots via standardised field bus systems
- Various robot interfaces available





### MasterPlus operating module

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### Premium operating module

Sophisticated automation

- Intuitive operation
- Diagnostic functions
- Memory for 4 welding circuits

QINEO Champ Pro	Champ 451 PRO	Champ 601 PRO
Welding current	40 A - 450 A	40 A - 600 A
Welding current at 60 % duty cycle	450 A / 36.5 V	600 A / 44 V
Welding current at 100 % duty cycle	350 A / 31.5 V	500 A / 39 V
Open circuit voltage	75 V	88 V
Mains voltage	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases
Special voltages	380 V, 415 V, 440 V, 480 V, 500 V	380 V, 415 V, 440 V, 480 V, 500 V
Connection cable	4 x 6 mm <sup>2</sup>	4 x 10 mm <sup>2</sup>
Mains protection	32 A	50 A
Type of protection	IP 23	IP 23
Insulation class	F	F
Type of cooling	F	F
Dimensions L/W/H (without wire drive)	1226 x 630 x 741 mm	1226 x 630 x 741 mm
Weight (without wire drive)	204 kg	244 kg
Maximum track width	approx. 552 mm	approx. 552 mm



Wire drive units	QINEO QWD-M	QINEO QWD-AR	QINEO QWD-P4
Wire feed speed	max. 24 m / min	max. 24 m / min	max. 24 m / min
Dimensions L/W/H	620 / 385 / 255 mm	320 / 200 / 200 mm	350 / 270 / 230 mm
Weight	21.1 kg	7.5 kg	12.8 kg
Wire diameter	0,8.. 2.0 mm	0.8 - 2.4 mm	0.8 - 2.4 mm

# qineo

## QINEO Pulse Pro

350 A  
60%  
duty cycle

450 A  
60%  
duty cycle

600 A  
60%  
duty cycle



### QINEO Pulse Pro – more power for pulsed arc welding

Variety and precision: these are the crucial conditions for successful pulsed arc welding. Whatever the capacity class. 350 A, 450 A or 600 A: Each QINEO Pulse Pro offers five different welding processes for a large variety of applications. The QINEO Pulse Pro is equipped with a synergy mode and two fine adjustments. The synergic characteristic curves can therefore be perfectly adapted to external factors.

- Powerful and versatile: 3 capacity classes with 7 different welding processes
- Precision by technology: 2 independent fine adjustments for the perfect arc
- Compensation of the external circuit influences
- Best quality: Optimum ignition and welding characteristics
- Flexibility: Operating panel in power source, wire drive or remote control according to requirement



### MasterPlus operating module

Manual welding in perfection

- Intuitive operation
- Job favourites
- Memory for 4 welding circuits



### Premium operating module

Sophisticated automation

- Intuitive operation
- Diagnostic functions
- Memory for 4 welding circuits

	Pulse 351 Pro	Pulse 451 PRO	Pulse 601 PRO
Welding current	40 A - 350 A	40 A - 450 A	40 A - 600 A
Welding current at 60 % duty cycle	350 A / 31.5 V	450 A / 36.5 V	600 A / 44 V
Welding current at 100 % duty cycle	270 A / 27.5 V	350 A / 31.5 V	465 A / 37.5 V
Open circuit voltage	75 V	75 V	87 V
Mains voltage	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases
Special voltages	380 V / 415 V / 440 V / 480 V / 500 V	380 V / 415 V / 440 V / 480 V / 500 V	380 V / 415 V / 440 V / 480 V / 500 V
Connection cable	4 x 4 mm <sup>2</sup>	4 x 6 mm <sup>2</sup>	4 x 10 mm <sup>2</sup>
Mains protection	25 A	32 A	50 A
Type of protection	IP 23	IP 23	IP 23
Insulation class	F	F	F
Type of cooling	F	F	F
Dimensions L/W/H (without wire drive)	1226 x 630 x 741 mm	1226 x 630 x 741 mm	1226 x 630 x 741 mm
Weight (without wire drive)	181 kg	194 kg	234 kg
Maximum track width	approx. 552 mm	approx. 552 mm	approx. 552 mm
Operating modes	2-cycle, 4-cycle, Super-4-cycle, spot welding/interval external start (with operating modules MASTER PLUS and PREMIUM)		



Wire drive units	QINEO QWD-M	QINEO QWD-P	QINEO QWD-P4
Wire feed speed	max. 24 m / min	max. 24 m / min	max. 30 m / min
Dimensions L/W/H	620 / 385 / 255 mm	674 / 260 / 450 mm	350 / 270 / 230 mm
Weight	21.1 kg	12.8 kg	7.5 kg
Wire diameter	0,8.. 2.0 mm	0,8.. 2.0 mm	0,8.. 2.0 mm

# qineo

## QINEO Pulse C

350 A  
60%  
duty cycle

450 A  
60%  
duty cycle

600 A  
60%  
duty cycle



## QINEO Pulse – more power for pulsed arc welding

Variety and precision: these are the crucial conditions for successful pulsed arc welding. Whatever the capacity class. 350 A, 450 A or 600 A: Each QINEO Pulse offers 7 different welding processes for a large variety of applications. The QINEO Pulse is equipped with a synergy mode and two fine adjustments. The synergic characteristic curves can therefore be perfectly adapted to external factors.

- Powerful and versatile: 3 capacity classes with 7 different welding processes
- Precision by technology: 2 independent fine adjustments for the perfect arc
- Compensation of the external circuit influences
- Best quality: Optimum ignition and welding characteristics
- Flexibility: Operating panel in power source or remote control according to requirement



## MasterPlus operating module

Manual welding in perfection

- Intuitive operation
- Job favourites
- Memory for 4 welding circuits



## Premium operating module

Sophisticated automation

- Intuitive operation
- Diagnostic functions
- Memory for 4 welding circuits

	Pulse 350 C	Pulse 450 C	Pulse 600 C
Welding current	40 A - 350 A	40 A - 450 A	40 A - 600 A
Welding current at 60 % duty cycle	350 A / 31.5 V	450 A / 36.5 V	600 A / 44 V
Welding current at 100 % duty cycle	270 A / 27.5 V	350 A / 31.5 V	465 A / 37.5 V
Open circuit voltage	75 V	75 V	87 V
Mains voltage	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases
Special voltages	380 V / 415 V / 440 V / 480 V / 500 V	380 V / 415 V / 440 V / 480 V / 500 V	380 V / 415 V / 440 V / 480 V / 500 V
Connection cable	4 x 4 mm <sup>2</sup>	4 x 6 mm <sup>2</sup>	4 x 10 mm <sup>2</sup>
Mains protection	25 A	32 A	50 A
Type of protection	IP 23	IP 23	IP 23
Insulation class	F	F	F
Type of cooling	F	F	F
Dimensions (L/W/H) compact unit	1226 x 630 x 942 mm	1226 x 630 x 942 mm	1226 x 630 x 942 mm
Weight compact unit	181 kg	194 kg	234 kg
Maximum track width	approx. 552 mm	approx. 552 mm	approx. 552 mm
Operating modes	2-cycle, 4-cycle, Super-4-cycle, spot welding/interval, external start (with operating modules MASTER PLUS and PREMIUM)		

# QINEO

## QINEO Tronic Pulse

350 A  
60%  
duty cycle

450 A  
60%  
duty cycle

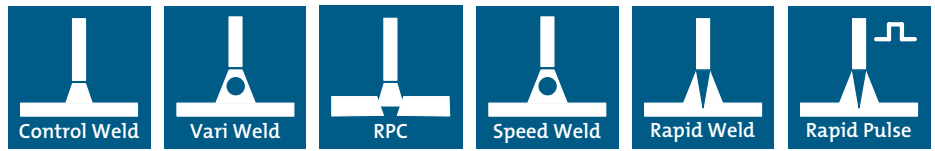
600 A  
60%  
duty cycle



### QINEO Tronic Pulse – compact power for pulsed arc welding

Easy handling, modular design and compact construction - that is the QINEO Tronic Pulse. Depending on the operating module the QINEO Tronic Pulse can be used for manual or automated application, just as individually required. Whether for industry and trade, for steel and machine construction or for the automotive industry - outstanding features of the customised QINEO Tronic Pulse series are their superior arc ignition behaviour, uniformity, stability and excellent welding results.

- Powerful and versatile: Modular design in three capacity classes
- Light, compact and powerful: Inverter technology
- Best quality: Optimum ignition and welding characteristics
- Flexibility: Operating panel in power source, wire drive or remote control according to requirement
- Robust construction: High level of stability of the devices



### MasterPlus operating module

Manual welding in perfection

- Intuitive operation
- Job favourites
- Memory for 4 welding circuits



### Premium operating module

Sophisticated automation

- Intuitive operation
- Diagnostic functions
- Memory for 4 welding circuits

Tronic Pulse	Tronic Pulse 350	Tronic Pulse 450	Tronic Pulse 600
Weld current range	40 - 350 A	40 - 450 A	40 - 600 A
Welding current at 60% duty cycle*	350 A	450 A	600 A
Welding current at 100% duty cycle*	270 A	350 A	465 A
Open circuit voltage	65 - 80 V	77 - 98 V	77 - 98 V
Mains voltage	380 - 480 V	380 - 480 V	380 - 480 V
Connection cable	4 x 4 mm <sup>2</sup>	4 x 4 mm <sup>2</sup>	4 x 4 mm <sup>2</sup>
Mains fuse slow-acting	25 A	32 A	50 A
Type of protection	IP 23	IP 23 S	IP 23
Insulation class	F	F	F
Type of cooling	F	F	F
Dimensions mm L/W/H	1100 x 510 x 1083	1100 x 510 x 1083	1100 x 510 x 1083
Weight	110 kg	110 kg	110 kg
Wire feed system	4 rollers (metal)	4 rollers (metal)	4 rollers (metal)
Suitable for wire coils (D 300)	15 kg	15 kg	15 kg

\* at an ambient temperature of 40°C



Wire drive units	QINEO QWD-M	QINEO QWD-P
Wire feed speed	max. 24 m / min	max. 24 m / min
Dimensions L/W/H	620 / 385 / 255 mm	674 / 260 / 450 mm
Weight	21.1 kg	12.8 kg
Wire diameter	0,8.. 2.0 mm	0,8.. 2.0 mm

# qineo

## QINEO Tronic

350 A  
60%  
duty cycle

450 A  
60%  
duty cycle

600 A  
60%  
duty cycle

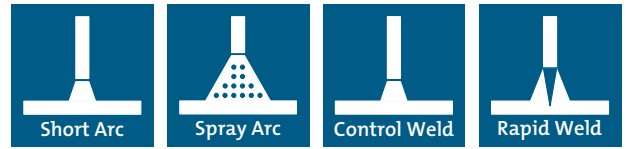


## QINEO Tronic – quality through precision

Synergy mode, simple operation and job memory in combination with the proven Control Weld and Rapid Weld processes: These characteristics enable excellent welding results to be achieved with the QINEO Tronic welding power source. Further advantages of the QINEO Tronic are its small design, free configuration capability and high efficiency. The QINEO Tronic offers an excellent price/performance ratio for manual welding.

- Sophisticated and precise: Infinitely adjustable parameter setting for manual and automated applications
- Best quality: Optimum ignition and welding characteristics
- High-quality results: Synergy operation with intelligent single-knob operation for all common materials, gases and welding wires
- Practical and flexible: Versatile applications because of the low weight





## MasterPlus operating module

Manual welding in perfection

- Intuitive operation
- Job favourites
- Memory for 4 welding circuits



## Premium operating module

Sophisticated automation

- Intuitive operation
- Diagnostic functions
- Memory for 4 welding circuits

	Tronic 350	Tronic 450	Tronic 600
Welding current	40 - 350 A	40 - 450 A	40 - 600 A
Welding current at 60 % duty cycle	350 A at 31.5 V	450 A at 36.5 V	600 A at 44 V
Welding current at 100 % duty cycle	270 A at 27.5 V	350 A at 31.5 V	465 A at 37,5 V
Open circuit voltage	100 V	100 V	100 V
Mains voltage	3 x 400 V / 50 Hz to 3 x 480 V / 50 Hz		
Special voltages			
Connection cable	4 x 4 mm <sup>2</sup>	4 x 6 mm <sup>2</sup>	4 x 10 mm <sup>2</sup>
Mains protection	25 A	32 A	50 A
Type of protection	IP 23	IP 23	IP 23
Insulation class	F	F	F
Type of cooling	F	F	F
Dimensions L/W/H (without wire drive)	1011 x 517 x 703	1011 x 517 x 703	1011 x 517 x 703
Weight (without wire drive)	82 kg	88 kg	90 kg
	2-cycle, 4-cycle, Super-4-cycle, spot welding/interval, external start (with operating modules MASTER PLUS and PREMIUM)		



## Wire drive units

### QINEO QWD-M

### QINEO QWD-P

Wire feed speed	max. 24 m / min	max. 24 m / min
Dimensions L/W/H	620 / 385 / 255 mm	674 / 260 / 450 mm
Weight	21.1 kg	12.8 kg
Wire diameter	0,8.. 2.0 mm	0,8.. 2.0 mm

350 A  
60%  
duty cycle

450 A  
60%  
duty cycle

600 A  
60%  
duty cycle



### QINEO Step – nearly indestructible

Simple, practical, reliable. These are the characteristics of the QINEO Step step-switch MIG/MAG welding power source. Each detail is targeted for manual industrial welding. With capacity modules of 350 A to 600 A weld current and an intuitive operation, the QINEO Step can be exactly configured to any requirement. The best choice for the hard working life of a welding machine.

- Absolutely reliable: Due to robust modular design and proven welding characteristics
- Universally applicable: 3 capacity classes for every requirement of manual welding
- Best quality: Optimum ignition and welding characteristics
- Easy operation: Intuitive user guidance, synergy mode as standard



## Step operating module

Manual welding in perfection

- Intuitive operation
- Synergy characteristic curves

	Step 350	Step 450	Step 600
Welding current	40 A - 350 A	40 A - 450 A	40 A - 600 A
Welding current at 60 % duty cycle	350 A / 31.5 V	450 A / 36.5 V	600 A / 44 V
Welding current at 100 % duty cycle	270 A / 27.5 V	350 A / 31.5 V	465 A / 37.5 V
Open circuit voltage	16 V - 40 V	19 V - 46 V	17 V - 54 V
Mains voltage	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases
Special voltages	Optionally	Optionally	Optionally
Steps	2 x 10	3 x 10	4 x 10
Connection cable	4 x 4 mm <sup>2</sup>	4 x 6 mm <sup>2</sup>	4 x 10 mm <sup>2</sup>
Mains protection	25 A	32 A	50 A
Type of protection	IP 23	IP 23	IP 23
Insulation class	F	F	F
Type of cooling	F	F	F
Dimensions L/W/H (without wire drive)	1226 x 630 x 741 mm	1226 x 630 x 741 mm	1226 x 630 x 741 mm
Weight (without wire drive)	189 kg	226 kg	280 kg
Maximum track width	approx. 552 mm	approx. 552 mm	approx. 552 mm
Operating modes	2 cycles, 4 cycles, External Start		

# qineo

## QINEO Step C

350 A  
60%  
duty cycle

450 A  
60%  
duty cycle

600 A  
60%  
duty cycle



### QINEO Step – nearly indestructible

Simple, practical, reliable. These are the characteristics of the QINEO Step step-switch MIG/MAG welding power source. Each detail is targeted for manual industrial welding. With capacity modules of 350 A to 600 A weld current and an intuitive operation, the QINEO Step can be exactly configured to any requirement. The best choice for the hard working life of a welding machine.

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## Step operating module

Manual welding in perfection

- Intuitive operation
- Synergy characteristic curves

	Step 350 C	Step 450 C	Step 600 C
Welding current	40 A - 350 A	40 A - 450 A	40 A - 600 A
Welding current at 60 % duty cycle	350 A / 31.5 V	450 A / 36.5 V	600 A / 44 V
Welding current at 100 % duty cycle	270 A / 27.5 V	350 A / 31.5 V	465 A / 37.5 V
Open circuit voltage	16 V - 40 V	19 V - 46 V	17 V - 54 V
Mains voltage	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases
Special voltages	Optionally	Optionally	Optionally
Steps	2 x 10	3 x 10	4 x 10
Connection cable	4 x 4 mm <sup>2</sup>	4 x 6 mm <sup>2</sup>	4 x 10 mm <sup>2</sup>
Mains protection	25 A	32 A	50 A
Type of protection	IP 23	IP 23	IP 23
Insulation class	F	F	F
Type of cooling	F	F	F
Dimension L/W/H (without wire drive)	1226 x 630 x 741 mm	1226 x 630 x 741 mm	1226 x 630 x 741 mm
Weight (without wire drive)	189 kg	226 kg	280 kg
Maximum track width	approx. 552 mm	approx. 552 mm	approx. 552 mm
Operating modes	2 cycles, 4 cycles, External Start		

### The QINEO Operating Modules

#### User-friendliness in focus

The MasterPlus operating modules convince by a very easy, quick and intuitive control of the QINEO power sources. No matter if manual or automated welding, whether in the power source, in the wire drive unit or as remote control (RPU) – the operating modules offer flexible opportunities for different applications. Experience the special handling in the well-known QINEO compatibility!

### QINEO Step

#### QINEO Step operating module – simple, quick and intuitive

The QINEO Step is quipped with a synergy mode as standard. For each welding task, the user can select proven synergy characteristic curves via the operating module. The fine adjustment of the arc is made by turning the knob. The synergy mode can be deactivated to adapt the welding parameters individually.

- Simple and quock Clear display for intuitive operation
- Everything at a glance: Call of important information via LED display
- Extensive functions: The perfect adjustment for every welding task



## QINEO MasterPlus

### QINEO MasterPlus operating module – manual welding in perfection

The MasterPlus operating module offers all functions for the demanding manual welding. The focus during development was on the easiest operation and the clear representation on the 4.3" display. Jobs allows the storage of individual parameter settings and ensure reproducibility of the weld quality in the framework of the welding instructions (WPS). 5 freely programmable quick save memories guarantee direct access to the most important personal jobs and easy handling. As an option, it is possible to supply a USB connector for loading and saving of jobs, characteristic curves and configurations as well as a Personal Access Key (PAK) for the easy access to the user management.

- Intuitive operation: Clear display for maximum ease of operation, optimised for manual welding
- Job favourites: Very quick access to the 5 most important personal settings
- Memory for 4 welding circuits: The same welding settings at different workstations ensure the weld quality without an additional calibration of the set welding parameters.



## QINEO Premium

### QINEO Premium operating module – sophisticated automation

The QINEO Premium operating module offers many functions and is designed for the highest level of automated welding tasks. The operation is easy and intuitive due to a modern 5.7" LCD display with lateral function keys and 3 handwheels. Jobs allows the storage of individual parameter settings and ensure reproducibility of the weld quality in the framework of the welding instructions (WPS). The Premium operating module enables an easy programming and monitoring of extensive welding tasks. An integrated SD card slot allows loading and saving of jobs, characteristic curves and configurations.

- Intuitive operation: Clear display with lateral function keys and 3 handwheels simplifies the setting of complex welding tasks.
- Diagnostic functions: A fast commissioning and a perfect support of the service staff during maintenance ensures a high availability
- Memory for 4 welding circuits: The same welding settings at different workstations ensure the weld quality without an additional calibration of the set welding parameters.



### The QINEO Wire Drive Units:

#### Flexible enlargement of the working space

With the CLOOS wire drive units you enlarge your working space independent of the welding power source. Benefit from the wide range of wire drive units for manual and automated welding. Here you find the suitable design for every requirement. All models are characterised by robust four-roller drives and powerful drive motors.

### QINEO QWD-P

#### Mobile 4-roller wire drive unit in a plastic housing

Extremely light-weight for mobile use in workshops and during installation. The wire drive unit is used with a connection cable assembly with a length of up to 15 m. The operating module is protectively integrated in the QWD housing. So the welder can do all required settings directly and without unnecessary useless routes. The QWD-P is prepared to take up a 15 kg wire coil.

- Mobile and lightweight
- Compact for manhole operation
- Extends the welder's range



### QINEO QWD-M

#### Movable 4-roller wire drive unit in a metal housing

Very robust for industrial use. The wire drive unit is either hinge-mounted on the power source or connected with a connection cable assembly with a length of up to 15 m. For floor use, the QWD has four wheels. The operating module is protectively integrated in the QWD housing. So the welder can do all required settings directly and without unnecessary useless routes. The QWD-M is prepared to take up a 15 kg wire coil.

- Robust and with wheels
- Extends the welder's range



	QINEO QWD-P	QINEO QWD-M
Wire feed speed	max. 24 m / min	max. 24 m / min
Dimensions L/W/H	674 / 260 / 450 mm	620 / 385 / 255 mm
Weight	12.8 kg	21.1 kg
Wire diameter	0,8.. 2.0 mm	0,8.. 2.0 mm



## QINEO QWD-A

### Powerful 4-roller wire drive unit for automated application

The QWD-A is mounted near the robot and feeds the welding wires over a distance of up to meters in a powerful and slip-free way. For larger wire feed distances the DuoDrive, mounted directly at the hand flange of the robot, and the additional QWD-B wire drive unit, fixed at the wire drum, are available.

- Designed for automated welding, mounted in welding systems
- Excellent welding results due to a powerful and slip-free wire feed.



## QINEO QWD-AR

### Compact, powerful 4-roller wire drive unit for automated application

The QWD-AR is mounted directly at the robot and feeds the welding wires in a powerful and slip-free way thus ensuring optimum welding results. For the feed of soft welding wires the DuoDrive, mounted directly at the hand flange of the robot, and the additional QWD-B wire drive unit, fixed at the wire drum, are available.

- Designed for automated welding, mounted at the robot arm
- Excellent welding results due to a powerful and slip-free wire feed.
- The compact design allows mounting at the robot mechanics.



## QINEO QWD-B

### Additional wire drive unit mounted at the wire drum supports the wire feed together with a QWD-A or AR.

The QWD-B draws the welding wire out of a wire drum and threads it into the liner with controlled feeding speed. A feeding distance of up to 30 meters is possible.

- Additional wire drive unit for feeding distances of up to 30 meters
- Safe wire feed over a distance of up to 30 meters between wire drum and main wire drive unit



### QINEO QWD-A

### QINEO QWD-AR

	QINEO QWD-A	QINEO QWD-AR
Wire feed speed	max. 24 m / min	max. 24 m / min
Dimensions L/W/H	620 / 385 / 255 mm	320 / 200 / 200 mm
Weight	21.1 kg	7.5 kg
Wire diameter	0,8.. 2.0 mm	0,8.. 2.0 mm

### Original accessories from a single source

The custom-made original accessories for manual and automated welding are of high-quality and have excellent characteristics. These long-lasting, versatile and flexible components are the ideal supplement for an efficient welding production.

- Excellent quality: Original accessories for faultless functionality
- Long service life: Reliable technology guarantees economic operation
- Highest availability: Quick delivery due to global service network

### QDM

#### QINEO Data Manager (QDM) – higher efficiency, more safety

Save time and money: With QDM you control and manage your welding power sources on a central PC. Your data is reliably stored - also because of a time-controlled, automatic backup. So, nothing is lost and your data is always available when needed. The software basic version offers a manual and an automatic data management as well as a characteristic curve management and can be enlarged as an option. So you determine the volume of our QDM software that you wish to integrate in your operations and processes.

- Central data control: Jobs, characteristic curve data and configuration data are always at disposal
- Safe data storage: Time-controlled, automatic backup
- Accelerated workflow: Programming and operation of several welding power sources via Ethernet interface



### Remote control

No matter where you weld – with the remote controls of the QINEO series you have quick access to all functions of your welding machine. Simply and intuitively you set all important parameters without leaving your place. Thus you avoid unnecessary ways to the welding machine and can fully concentrate on your welding task. You have the choice between an extensive operating module for the completely location-independent utilisation or a compact version for flexible utilisation. Use the option that meets your individual requirements best.



## MIG/MAG Manual welding torches

**The welding torches from CLOOS are as diverse as the welding power sources**

We have the suitable welding torch for each capacity class and for every requirement of manual welding. MIG/MAG welding torches lead the energy to the welding point to melt the materials, the wire electrode and the shielded gas to shield the welding point. They are connected with the power and gas sources via cable assemblies and controllers. Gas-cooled welding torches are sufficient for small welding capacities, for higher capacities we recommend water-cooled torches.

### Your benefits

- Excellent quality: Original accessories for faultless functionality
- Long service life: Reliable technology guarantees economic operation
- Highest availability: Quick delivery due to global service network



## MIG/MAG Robot welding torches

**The requirements on robot welding torches are constantly increasing**





A high level of stability of the used components, a slim design and an optimum cooling are the most important characteristics. CLOOS robot welding torches are the result of years of development and experience in the field of automated MIG/MAG welding. We supply special geometries and manufactures on demand, either for single wire torches or for tandem welding torches. We rely on high-quality materials and consequent quality assurance during the whole production process. Please contact us!

### Your benefits

- Highest weld quality: Reproducible welding torch position
- Perfect accessibility: Easy change of the consumables
- Individual features: Special productions at request



## The right QINEO for your application

	Short Arc	Spray Arc	Control Weld	Vari Weld	Root Weld	Speed Weld	Rapid Weld	Rapid Pulse Weld	Tandem Weld	Cold Weld	MoTion Control Weld	MoTion Vari Weld
												
QINEO Step	X	X										
QINEO Tronic	X	X	X				X					
QINEO Tronic Pulse			X	X	X	X	X	X				
QINEO Pulse C			X	X	X	X	X	X	X			
QINEO Pulse Pro			X	X	X	X	X	X	X			
QINEO Champ Pro			X	X	X	X	X	X	X	X		
QINEO NexT 452 DC			X	X	X	X	X	X	X		X	X

## The right wire drive unit for your application

					
	QINEO QWD-P	QINEO QWD-M	QINEO QWD-A	QINEO QWD-AR	QINEO QWD-B
QINEO STEP	X	X			
QINEO TRONIC	X	X	X	X	X
QINEO TRONIC PULSE	X	X	X	X	X
QINEO PULSE PRO		X	X	X	X
QINEO CHAMP PRO		X	X	X	X
QINEO NEXT 452 DC		X	X	X	X

# With CLOOS you weld and cut ...



... all types of metal!



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



... with innovative processes!



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



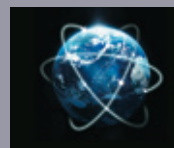
... efficiently and individually!



... with many additional  
services!



... in all industries!



... all over the world!



... to your utter satisfaction!



... for 100 years!

## ...all from a single source!

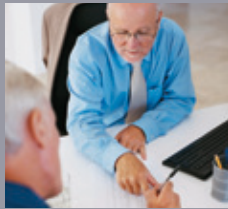




**QINEO**

**Welding power sources  
for manual welding**

# The way ...



## Consulting

With this comprehensive “pre-service”, we take care of your project from the beginning and transfer our integrated process expertise to your component..



## Planning

We elaborate a solution which perfectly meets your individual requirements.



## Design

Due to the modular design of our product series we develop customised solutions which meet all your production requirements.



## Production

Welding machine and robot technology is our strength - including our core competence: the arc.



## Commissioning

Our specialists carry out the installation step-by-step in your production hall and test your system for faultless functionality.



## Training

We train your employees and service technicians in programming, operation and maintenance in our modern training centre.



## Service

Our competence team advises you on any extensions, modifications and retrofits of your existing robot and welding systems.

... to your success.

# QINEO

## QINEO QinTron

**400 A**  
60%  
duty cycle

**500 A**  
60%  
duty cycle

**600 A**  
60%  
duty cycle



## QINEO QinTron – simply welding

Brave the rough conditions for indoor and outdoor applications – the QinTron is characterised by high-quality components and a robust design. Realise different welding processes and applications with one machine – we offer the right solution for every requirement. Choose between the capacity classes 400, 500 and 600A. Due to the modular system you make the QinTron to be your individual welding system. Because of the Autolink function (3 x 380 V to 460 V) you can use the machine everywhere in the world.

- Efficient: Excellent price/performance ratio and enormous energy-saving possibilities
- Flexible: Modular design for different welding processes and applications in one machine
- User-friendly: Comfortable operating concept for easy, quick and intuitive handling
- Reliable: Many years of know-how together with highest innovation power
- Robust: High-quality components and a robust design for indoor and outdoor applications at rough conditions





	QinTron 400 QinTron Pulse 400	QinTron 500 QinTron Pulse 500	QinTron 600 QinTron Pulse 600
Welding current	20A/15V - 400A/36V	20A/15V - 500A/40V	20A/20.8V - 600A/44V
Welding current 40% duty cycle	–	–	600A
Welding current 60% duty cycle	400A	500A	500A
Welding current 100% duty cycle	400A	400A	400A
Same power in the processes MIG/MAG, TIG ( with Liftstart), stick electrode and gouging			
Open circuit voltage	64V	64V	64V
Mains voltage	380V-460V	380V-460V	380V-460V
Connection cable	4 x 6 mm <sup>2</sup>	4 x 6 mm <sup>2</sup>	4 x 6 mm <sup>2</sup>
Mains fuse/400V slow-acting	35A	35A	35A
Type of protection	IP 23	IP 23	IP 23
Insulation class	F	F	F
Type of cooling	F	F	F
Dimensions L/W/H (basic machine)	740 x 350 x 430 mm	740 x 350 x 430 mm	740 x 350 x 430 mm
Weight (basic machine)	50.7	50.7	50.7



### QinTron wire drive unit

Wire feed speed	max. 24 m / min
Dimensions L/W/H	250 x 190 x 200 mm
Weight	6.2 kg
Wire diameter	0.8 to 1.6 mm

# QINEO

## QINEO Micro Pulse 350 C

350 A  
50%  
duty cycle



### QINEO Micro Pulse – compact and powerful

The infinitely adjustable mobile MIG/MAG welding machines QINEO Micro Pulse 350 C and QINEO Micro 350 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. 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. The modular system allows a further upgrade of the welding machines.

- Versatile applications: A solution for all welding tasks
- Synergy mode: Quick setting of the welding parameters
- Easy to use: Synergy characteristic curves are included in the delivery
- Optimum power and weight ratio Light, easy to use and very powerful up to 350 A
- Robust construction: High level of stability of the welding machines



Short Arc



Spray Arc



Puls Arc



	Micro 350 C	Micro Pulse 350 C
Welding current	30 A - 350 A	30 A - 350 A
Welding current at 50 % duty cycle	350 A	350 A
Welding current at 100 % duty cycle	280 A	280 A
Open circuit voltage	60 V	60 V
Mains voltage	400 V / 50 Hz / 3 phases	400 V / 50 Hz / 3 phases
Connection cable	4 x 2,5 mm <sup>2</sup>	4 x 2,5 mm <sup>2</sup>
Mains protection	16 A	16 A
Type of protection	IP 23	IP 23
Insulation class	F	F
Type of cooling	F	F
Dimensions L/W/H	740 x 350 x 430 mm	740 x 350 x 430 mm
Weight	41 kg	41 kg

# qineo

## QINEO Micro Pulse 300 C

300 A  
35%  
duty cycle



### QINEO Micro Pulse C – compact and powerful

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

- Versatile applications: A solution for all welding tasks
- Synergy mode: Quick setting of the welding parameters
- Easy to use: Synergy characteristic curves are included in the delivery
- Optimum power and weight ratio Light, easy to use and very powerful
- Robust construction: High level of stability of the devices



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

\* at an ambient temperature of 40°C

# qineo

## QINEO Micro Pulse 200 C

200 A  
35%  
duty cycle



### QINEO Micro Pulse – compact and powerful

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

- Versatile applications: A solution for all welding tasks
- Synergy mode: Quick setting of the welding parameters
- Easy to use: Synergy characteristic curves are included in the delivery
- Optimum power and weight ratio Light, easy to use and very powerful
- Robust construction: High level of stability of the devices



Short Arc



Spray Arc



Puls Arc

Micro Pulse 200 C	
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

# qineo

## QINEO Micro 300 C

300 A  
35%  
duty cycle



### QINEO Micro – compact and powerful

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

- Versatile applications: A solution for all welding tasks
- Synergy mode: Quick setting of the welding parameters
- Easy to use: Synergy characteristic curves are included in the delivery
- Optimum power and weight ratio Light, easy to use and very powerful
- Robust construction: High level of stability of the devices





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

\* at an ambient temperature of 40°C

# qineo

## QINEO Basic (C)

250 A  
40%  
duty cycle

300 A  
40%  
duty cycle

450 A  
50%  
duty cycle



### QINEO Basic - the cost-efficient access to the professional league

Low-cost, practical, reliable. These are the characteristics of the QINEO Basic step-switch MIG/MAG welding power source. Each detail is targeted for manual industrial welding. The welding power sources are equipped with synergy characteristic curves. A solid construction and proven components are the main features of the QINEO Basic and ensure best availability – even in the case of high operational demands. The best choice for the hard working life of a welding machine.

- Absolutely reliable: Due to robust design and proven welding characteristics
- Universally applicable: For many requirements of manual welding
- Best quality: Optimum ignition and welding characteristics
- Easy operation: Synergy mode as standard



Short Arc



Spray Arc

	Basic 250 C	Basic 300 C
Welding current	30 - 250 A	30 - 300 A
Welding current at 40 % duty cycle	250 A	300 A
Welding current at 100 % duty cycle	160 A	190 A
Open circuit voltage	17 - 38 V	17 - 38 V
Mains voltage	230 - 400 V	230 - 400 V
Special voltages	on request	
Connection cable	4 x 2,5 mm <sup>2</sup>	4 x 4 mm <sup>2</sup>
Mains protection	20 A - 230 V / 16 A - 400 V	25 A - 230 V / 20 A - 400 V
Type of protection	IP22	IP22
Insulation class	H	H
Type of cooling	Air	Air
Dimension [L/W/H]	830 x 500 x 740 mm	880 x 500 x 740 mm
Weight	65 kg	92 kg

	Basic 450
Welding current	30 - 500 A
Welding current at 40 % duty cycle	450 A
Welding current at 100 % duty cycle	350 A
Open circuit voltage	16 - 48 V
Mains voltage	230 - 400 V
Special voltages	on request
Connection cable	4 x 10 mm <sup>2</sup>
Mains protection	50 A - 230 V 30 A - 400 V
Type of protection	IP23
Insulation class	H
Type of cooling	Water
Dimension L/W/H (without wire drive)	1000 x 550 x 820 mm
Weight (without wire drive)	178 kg

# All over the world!



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**CLOOS**

Weld your way.