



PAUWELS

gassen, lassen & gereedschappen

CITOARC 275
THE STICK WELDING
EVOLUTION

THE STICK WELDING EVOLUTION

Processes

- SMAW
- GTAW Lift

Materials

- Steel
- Stainless steel
- Low alloy steel
- Aluminum alloys
- Nickel alloys
- Titanium alloys

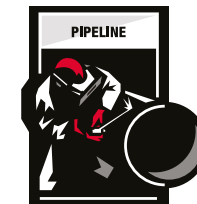
Applications

- General fabrication
- Heavy fabrication
- Structural
- Transportation
- Chemical processing
- Maintenance and repair
- Shipbuilding

The new **CITOARC 275** is a next generation STICK inverter that offers excellent welding processes coupled with high performance, as well as increased productivity and is the next step in professional welding. The new CITOARC is designed with the latest energy-saving technology and is ready to work in the most difficult environments due to its unique design.

To achieve excellent welding results, the CITOARC 275 comes complete with in-built communication devices and digital transmission systems, such as USB's, allowing the operator to monitor and track welding operations more easily.

Modular system: power sources 270A @25%, a 2-wheeled **CART 24** of solid metal construction with superior mobility and transportation, for the most demanding environments.



RUGGED RELIABILITY

Duty cycle 270A@25%.

- High production efficiency.
- Digital welding current control.
- True HD tested – made to withstand harsh environmental conditions.

Inverter engine technology – ECO Friendly.

- Low power consumption due to high efficiency – energy cost saving.
- Automatic power-saving modes (standby/shut-down function).
- **Product is compatible with EN50504 or 60974-14 (calibration).**
Operator can perform self calibration.
- Generator ready.

Oerlikon Industrial design
– ready to use anywhere.

- **Fully potted PCB.**
- Metal construction.
- Protection class IP23.
- **3 year full parts and labour warranty.**



Intelligent F.A.N. (Fan As Needed)
in the inverter

Cooling tunnel design
– components arranged to
protect against dust and dirt

Easy maintenance and servicing
Easy access to all components inside
Software update via laptop or USB



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CITOARC 275

Key technical data

- 400V \pm 15%, 3Ph 50/60Hz, generator ready
- 270A@25% / 250A@35% / 230A@60% / 180A@100%**
- Light weight – only 14.3 kg
- Inverter platform product
- Idle power 19W and efficiency > 85%
- SMAW manual and Synergic – Pulse**
- STICK Pulse: 0.5-15 Hz
- Intelligent F.A.N. (Fan As Needed)
- Customer Support
- USB Key (software update, data collection)
- Voltage Reduce Device (VRD)
- Cellulosic 6010 stick capability
- Industrial grade: IP23, 3 Years Warranty, no limitation**



Included as standard

- Input cable 3 m (no plug)
- USB key with user manual
- Quick Start papers



USB CONNECTIVITY

Analysis and quick decision making

- Full system update & diagnostics
- Transfer settings between machines
- Simple welding data collection on USB (start time, average current, average voltage, arc time, welding mode/job number, job name)
- Weld quality data monitoring (data on TFT user interface screen or CSV file transfer)
- Software updating

NEW ERGONOMIC DESIGN

- **Premium arc performance**
Stable, great dynamics, perfect start, limited spatters
- **Robust and reliable design**
Oerlikon standard, True Heavy Duty, 3 year warranty
- **Innovative UI, intuitive and simple to use**
On-screen support and reduced training time
- **Customer Support**
for parts 'wear & tear' requirements and immediate operator support
- **More functions & features**
Auto-setting for instant 'ready to work' status
- **Improved ergonomics and operator safety**
for safer, more comfortable operation

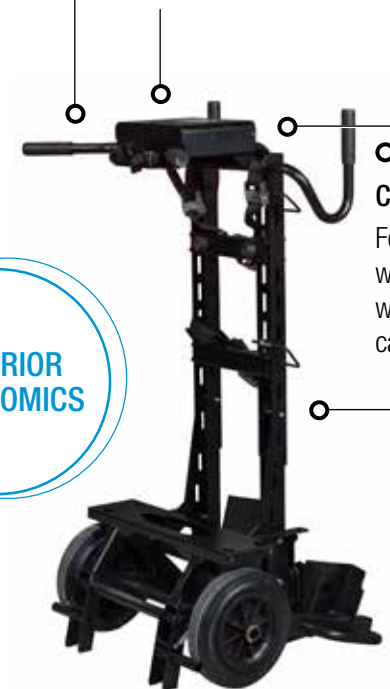


Helmet rack



Remote control holder

Practical storage



Cable Management System

For easy transportation of the whole welding system, even with a very long connection cable

SUPERIOR ERGONOMICS

CART 24

Stable design of robust steel pipe construction

Holder for foot control pedal



Practical handle for effortless gripping even with gloves for safe movement of the machine

USB connectivity

NEW



New encoder for more precise adjustment.
Simple navigation even when using welding gloves



INNOVATIVE & INTUITIVE INTERFACE

- Two buttons, one control knob for easy navigation
- Icon language for key commands
- Easy process and settings selection
- Locking function / Limits / Memories / Jobs
- Interface available in many languages



New encoders for more precise adjustment

EASY AND QUALITATIVE WELDING

STICK PULSE

In pulsed MMA welding the current oscillates between the two levels at a frequency chosen by the operator. Both levels of selected current need to be in the operating range of the electrode when the average current is set near the centre of the working range. Normally, the base current level is set around 60-80% of nominal current. MMA pulse is optimal for basic electrodes and for welding application, such as root pass, fillet weld vertical up and fillet weld PB using higher frequency. Direct advantages of this function are less deformation with thinner material and reduced spatter.

GUIDED SETUP

helps non-expert STICK welders to:

- Stabilise the arc
- Reduce the heat input
- Optimise the pulse
- Speed up the welding process
- Control the overall operation of the machine
- Save on current, filler material and gas
- Limit distortion on thin sheet metal



Following the indications on the screen, selecting the material type, thickness and type of joint the **Guide Setup** will set all correct parameters for an easy and qualitative weld

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ACCESSORIES

OPTIONS

Cart 24	
Electrode holder CAÏMAN 400	
Kit 35C50	
Kit 35C50+	
Ground cable 300A – 50 mm ² – 5 m	
Front cover	
Cart's interface for power source	
Remote control	
Foot Amptrol™	



CART 24
K14191-1



CART'S INTERFACE FOR POWER SOURCE
K14384-1



FOOT AMPPTROL™
K870



REMOTE CONTROL
K10095-1-15M



GROUND CABLE



ELECTRODE HOLDER



FRONT COVER

TECHNICAL SPECIFICATION

POWER SOURCE

Product	Item number	Primary voltage	Fuse size (A)	I ₁ eff (A)	I ₁ max (A)	Max. input power (kW-kVA)	Rated output (A)	Welding current range (A)	Open circuit voltage (V)	Temperature range		EMC class	Weight (kg)	Dimensions H x W x D (mm)	Protection class
										Operating	Storage				
Citoarc 275	P970241002	400V +/- 15% 3Ph	16	13.3	15.3	9.7 kW 11 kVA	270A@25% 250A@35% 230A@60% 180A@100%	5-270	74 (11V VRD)	-10°C to +40°C	-25°C to +55°C	A	14.3	360 x 230 x 498	IP23

CART

Product	Max. gas cylinder diameter (mm)	Max. gas cylinder height (mm)	Wheels diameter (mm)	Weight (kg)	Dimensions H x W x D (mm)	Other features
Cart 24	240	1700	250	33.8	1180 x 540 x 600	Low gas cylinder entry Drawer for storage of consumables Integrated cable management allowing for a neat work area Remote control and TIG rod housings Vertical design to save space in shop environments