



WELD THE WORLD



PIONEER

3200K - 4000K - 4000 - 5000



ENG

The new Weco Pioneer line includes highly efficient and user-friendly welding machines, designed to significantly improve productivity and work quality.

These devices are ideal for operating in intensive work conditions without interruptions, thanks to high duty cycles that ensure optimal operational continuity, reducing downtime and enhancing productivity.

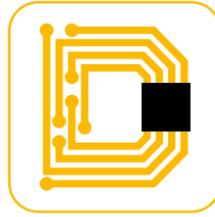
The Pioneer welders deliver excellent performance across a wide range of materials. Advanced digital technology allows for precise control of welding parameters, optimizing the quality of the weld joint and easily adapting to various operational needs.

The user-friendly interface provides welders with quick and accurate parameter adjustments.



TECHNOLOGIES

Technology
**WECO
DIGITAL
CONTROL**



COMPLETELY FULL DIGITAL LINE

The digital control of the inverter through the latest **DSP** generation (Digital Signal Processor) allows rapid and precise control of the welding arc. Stability guaranteed instantly and perfect balance of the arc, from ignition to the end of welding. The welding parameters are dynamically controlled and modified in real time.

Technology
**WECO
PFC**



SAVE BY USING ALL THE AVAILABLE POWER

Pioneer through the **PFC** device (Power Factor Corrector) significantly reduces the overall cost of electricity consumption required.

Some numbers? The savings are equal to 30% compared to a traditional inverter and 45% compared to an electromechanical welder.

Technology
**WECO
QUICK
SETTING**



EASILY SET UP YOUR WELDING

The **Pioneer** also features **WECO QUICK SETTING** technology to ease the welder into the welding settings. By following four simple steps, you will be able to set the most suitable welding parameters for your application and achieve high-quality results.

EASY JOB

Three available buttons for very quick saving of welding parameters and easy access to saved programs.



IMPORT & EXPORT

YOUR JOBS ALWAYS WITH YOU

The Import/Export mode allows you to **IMPORT** or **EXPORT** via USB MEMORY STICK the JOBS saved in the machine.



UPGRADE FROM USB



KEEP YOUR POWER SOURCE UPDATED AT ALL TIMES

Quick and easy upgrade!

- Updating the entire system (power source, wire feeder and Digimanager torch) from a single USB port.
- A few simple operations allow a quick and precise update.
- Latest firmware release available on website www.weco.it.

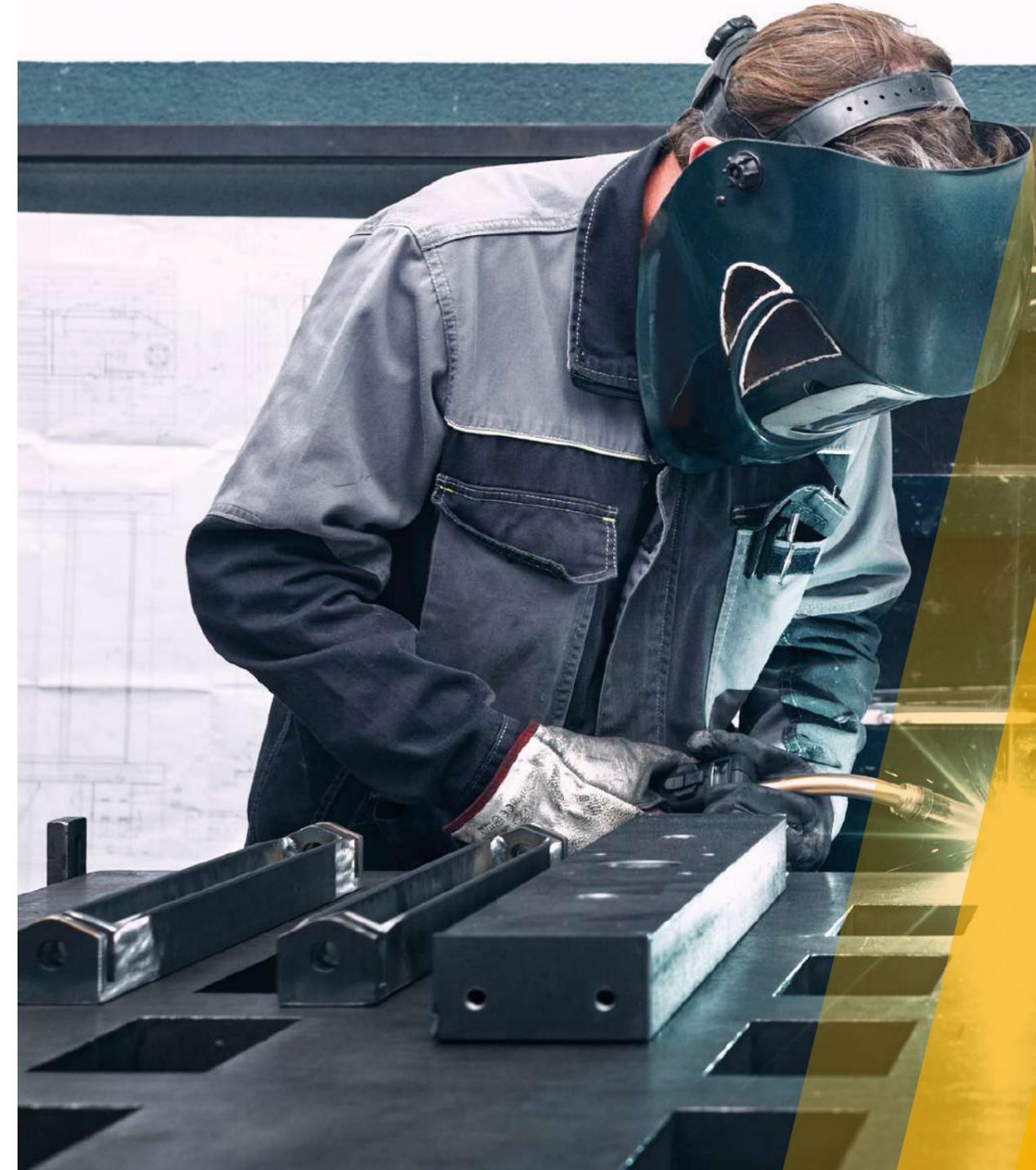


Tecnologie / **Weco Quick Setting**
SYNERGIC PROGRAMS

ALL INCLUSIVE WITHOUT ADDITIONAL COSTS!

Pioneer has more than 100 synergic programs available for all materials, even the most difficult to weld.

**Is there no synergic program for the material you need to weld?
We'll build it for you!**



SPECIAL FUNCTIONS

Special Function

POWER FOCUS



GUARANTEED PENETRATION EVEN WITH HIGH STICK-OUT

The special **Power Focus** function is designed to minimize overall welding costs by reducing the overall volume of joints to be welded.

Power Focus features:

- Higher arc concentration with greater penetration and lower risk of sticking compared to standard spray arc.
- Greater arc stability even with long stick-outs.
- Reduction in volumes of grooves to be filled and lower joint preparation costs.
- Reduction and optimization of the globular transition zone (globular transfer).
- Very stable and soft arc in Short Arc process.



Special Function

POWER ROOT



WELDING WITH HIGH GAP HAS NEVER BEEN SO EASY

The **Power Root** special function is a short arc, digitally controlled, cold drip transfer that ensures very high quality root passes.

Power Root features:

- First root pass optimization.
- Vertical down welding quality.
- Excellent operation.
- Cold drop transfer.
- Perfect union of thin sheets.
- Ideal for welding joints with large gaps.



WELDING PROCESSES

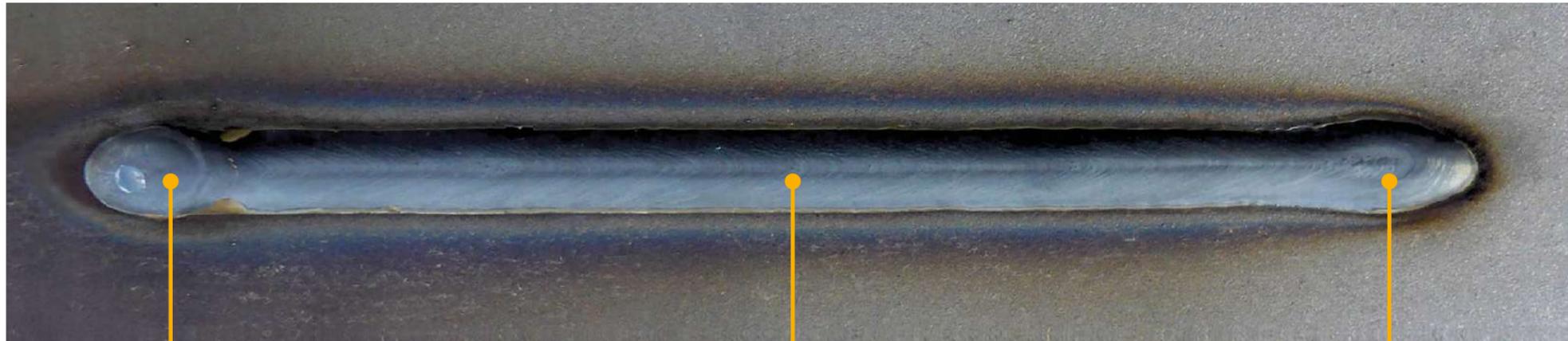
PROCESSES	PIONEER 3200K	PIONEER 4000 - 4000K	PIONEER 5000
MIG MAG PULSED	✓	✓	✓
MIG MAG SYNERGIC	✓	✓	✓
MIG MAG MANUAL	✓	✓	✓
TIG DC LIFT	✓	✓	✓
MMA	✓	✓	✓
GOUGING	✗	✓	✓



INNOVATION

INNOVATION

Digital technology (Weco Digital Control) and Weco **knowhow** in search of the perfect weld.



Wire cutter

The clean cut of the wire at the end of the weld avoids the formation of the ball on it, making the next ignition perfect.



Arc stabilization

The fusion is immediately balanced. There is thus an almost total reduction in projections in the initial welding phase and the weld bead is regular from the beginning to the end.



Arc striking

Always optimal arc-strikes, avoiding initial explosions and reducing the generation of spatters to a minimum, in any condition of use.

Working Cycles

PIONEER 4000 - 5000

The high duty cycle at 40°C allows you to work continuously, even with applications requiring high work cycles.
Pioneer 4000 and **5000** have a duty cycle of 400 Amperes at 100%.

PIONEER 4000

WELDING MODE	MIG MAG	TIG	MMA
WORKING CYCLE (%)	100%	100%	100%
WELDING CURRENT (A)	400A	400A	400A

PIONEER 5000

WELDING MODE	MIG MAG			TIG			MMA		
WORKING CYCLE (%)	40%	60%	100%	40%	60%	100%	40%	60%	100%
WELDING CURRENT (A)	500A	450A	400A	500A	450A	400A	500A	450A	400A

Working Cycles

**PIONEER
3200K - 4000K**

The efficiency of the welder's cooling unit is essential for work quality, productivity, and avoiding repair costs. High-efficiency Weco Cooling Units extend the life of torches and reduce the wear of current tubes, saving time and money.

The HP version ensures high pressure of the coolant flow when using long interconnection cables. Furthermore, having the optional filter in the return circuit limits residues and extends the life of pumps, tanks and fittings.

PIONEER 3200K

WELDING MODE	MIG MAG			TIG			MMA		
	WORKING CYCLE (%)	40%	60%	100%	40%	60%	100%	40%	60%
WELDING CURRENT (A)	320A	280A	240A	320A	280A	240A	320A	280A	240A

PIONEER 4000K

WELDING MODE	MIG MAG			TIG			MMA		
	WORKING CYCLE (%)	40%	60%	100%	40%	60%	100%	40%	60%
WELDING CURRENT (A)	400A	350A	280A	400A	350A	280A	400A	350A	280A

CU109-CU109 HP

CU118-CU118 HP

	CU109	CU109 HP		CU118	CU118 HP
P 1/min	900W		P 1/min	1650W	
P max	0,32MPA(50Hz) 0,43MPA (60Hz)	0,41MPA(50Hz) 0,51MPA (60Hz)	P max	0,33MPA(50Hz) 0,44MPA (60Hz)	0,41MPA(50Hz) 0,51MPA (60Hz)



CONFIGURATIONS

Optionals

PIONEER 4000 - 5000

TROLLEY R EVO

TROLLEY L EVO



Configurations

PIONEER 4000 - 5000

Functional
Trolley R EVO

Solid and Complete
Trolley L EVO

AIR



Optionals

PIONEER 3200K - 4000K

TROLLEY R EVO



SPARE PARTS BOX
TROLLEY

TROLLEY R EVO
HANDLE KIT

TROLLEY
LIFTING KIT

TROLLEY L EVO



KIT HANDLE H

TROLLEY ZERO



SPARE PARTS BOX
TROLLEY

TRANSPORT KIT H

Optionals

PIONEER 3200K - 4000K

Configurations

PIONEER 3200K - 4000K

Minimal Trolley Zero
(no gas bottle holder)

Functional Trolley R EVO

Solid and Complete Trolley L EVO

AIR



H2O



CAN BUS CONNECTOR

Weco leverages the reliability of CAN Bus communication to transmit input and output signals in a stable, safe, and precise way, enabling seamless integration with welding automation systems through IR interfaces. The CAN Bus system ensures consistent performance and long-term reliability across all our control interfaces.

IR00



IR00
1 digital input
2 digital outputs
No external power supply required

IR03



IR03
12 Digital Inputs
3 Digital Outputs
2 Analog Inputs
4 Analog Outputs
Removable spring terminals
24Vdc power supply

IR04



IR04
Debug all signal, both digital and analog, even without connecting the generator. The system is easy to configure and also allows a factory reset if needed.
32 Digital Inputs
8 Digital Outputs
2 Analog Inputs
4 Analog Outputs
Oled display
Removable spring terminals





WELD THE WORLD

A well-established industrial concern whose reliability of products is ensured by its considerable investments in research, design and testing.

WECO has been producing and selling welding equipment since 1997. Its registered office and operational site, located in the northeast of Italy, includes offices, a production area, a design and storage area, which cover the requirements of a wide national and international sales network. The wide range of welding machines and the availability of a large warehouse allows us to meet the varying needs of our customers within a short period of time. Our dynamic management, our proven experience in sales issues, as well as our knowledge of application problems ensure our company a leading edge within our industry. WECO provides solutions that improve productivity, optimise intervention times, minimise operating costs, ensuring excellent performance at all times, in any operating conditions.

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