



MAXIARC 400/500 MV CEL

Range marks a significant advancement in welding technology by offering MCU control system, large LCD display, superior performance, high duty cycle, efficiency, and versatility in a compact and user-friendly package. This range is suitable for professional welding purpose, highly quality welding job and heavy duty industry.

Power Factor Correction (PFC)/Multi Input Voltage/Portability/Stable Arc/Precise Settings/Start-up Performance/Fan on demand/Voltage Reduction Device (VRD)/Gouging/Cellulosic Electrode Welding/Adjustability and Control/Lift Tig make MAXIARC 400/500 MV CEL popular choices among welders looking for efficiency, portability, and enhanced welding performance in various applications.

Machine Features



Portability

It is 30 kgs, it is typically smaller, lighter, and more compact than traditional welding machines, making them easier to transport and maneuver.



Stable Arc

Inverter technology often provides a more stable arc, which can lead to better weld quality and control.



Start-up Performance

It often has superior start-up characteristics, providing instant arc ignition and minimizing sticking during welding.



Fan on demand

Provides energy efficiency, reduced noise level and improved reliability.



Voltage Reduction Device (VRD)

Enhances safety by reducing the risk of electric shock both during welding and when the machine is idle.



Lift Tig

Allows welders to perform both stick(SMAW) welding and TIG(GTAW) welding using the same machine



Adjustability and Control

Comes with advanced controls for adjusting welding parameters such as Hot Start, Arc force and Anti-stick.



Gouging

It allows to do gouging in welding applications for removing unwanted metal, weld defects, or preparing a groove for welding, making it easier to repair or prepare workpieces for subsequent welding operations.



Machine details:

Earth cable and earth clamp

Earth cable and earth clamp play critical roles in electrical safety by providing reliable grounding connections to protect personnel, equipment and facilities from electrical hazards and ensure proper functioning of electrical and welding system.

Cable section can be selected from 6mm² to 120mm².

Color of PVC jacket can be customized.

Earth clamp types can be customized.



Welding cable and electrode holder

Welding cables are flexible, highly quality insulation and heavy-duty cables designed to carry the electric current from the power source to the electrode holder and ultimately to the workpiece. High insulation, jaw mechanism and heat resistance ensure efficient welding operation and electrode performance.

Cable section can be selected from 6mm² to 120mm².

Color of PVC jacket can be customized.

Electrode holder types can be customized.



Carbon Arc Gouging

Carbon arc gouging can remove metal from a wide range of materials, including carbon steel, stainless steel, cast iron and various alloys. It is suitable for welding preparation, repair, demolition, fabrication, ship-building and offshore.



TIG 17-Torch

TIG 17 torch is generally a smaller and more compact torch. It typically features a smaller diameter handle and nozzle, making it suitable for welding in tight spaces. The TIG17 is often used for light to medium-duty applications. It is ideal for applications where control and maneuverability are important.



Machine function

- 1 Phase** Single phase
- DC** Direct current
- CC** Constant current
- VRD Safe** Voltage Reduction Device
- 3 Phase** Three phases
- LCD Display** LCD Display
- WORLDWIDE USE** Multi Voltage
- Generator Friendly**
- PULSE** Pulse
- 3 PROOF** Moisture proof
Salt Spray proof
Corrosion proof
- HS** Hot Start
- AF** Arc Force
- MCU** MCU Control System
- PROTEC 800** 800V Tested in production



Front view

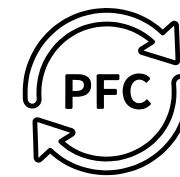


Side view



Rear view

Control Panel



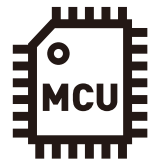
Power Factor Correction (PFC)

Comes with 0.99 Power factor, this allows for improvement of power efficiency, stable voltage input, compliance with power supply standards and optimized use of power supply capacity. It is more energy-efficient, converting more of the input power into usable welding energy, which can result in lower operating costs.



Multi Input Voltage

90-275V wide input voltage operates over a wider range of input voltages, which is beneficial in various working conditions and locations.



Precise Settings

LCD display offers more precise control over welding parameters such as amperage and arc characteristics, allowing for better adaptation to different materials and thicknesses.

Reliability



275Volts tested in production



Moisture proof
Salt Spray proof
Corrosion proof



Over heat protection



Over voltage protection



Over current protection



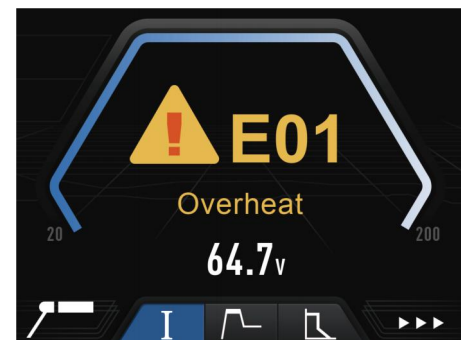
Features

- 5" LCD display for all welding settings display.
- Mode button for selections of Stick, Stick VRD and Lift tig mode.
- Encoder for features selection and parameters setting.



The control pad for air plasma cut mode

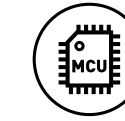
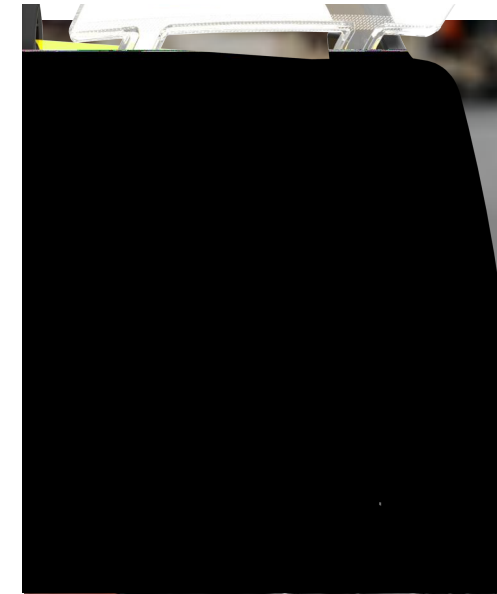
Cutting data setting includes mode switching (Stick, Stick VRD, Lift tig) , welding current, welding voltage, arc force, hot start



Error codes displayed on LCD screens can vary widely depending on the machine you are referring to. It indicates specific issues or malfunctions that the device has detected.



Languages and Units can be customized, and they can be selected easily from the menu setting on LCD display.



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Machine parameters:

Model	MAXIARC500 MV CEL							
	200-600V 50/60Hz							
Input voltage	1-230V		3-230V		3-400V		3-600V	
Process	MMA	TIG	MMA	TIG	MMA	TIG	MMA	TIG
Effective current(A)	29.4	20	23.8	17.5	26.3	20.1	19.2	15.5
Rated input current(A)	38	25.8	30.7	22.6	34	26	24.8	20
Rated input power(KW)	8.7	5.9						
Duty cycle 40°C 10min	60%250A 100%195A		60%320A 100%250A		60%500A 100%390A		60%500A 100%390A	
Welding current(A)	20-250		20-320		20-500		20-500	
No load voltage(V)	76.5		76.5		76.5		100	
Efficiency	90%		90%		90%		90%	
Power factor	0.99							
Insulation class	F							
Protection class	IP21S							
Dimensions(mm)	640*245*450							
Net weight(kg)	30.3							