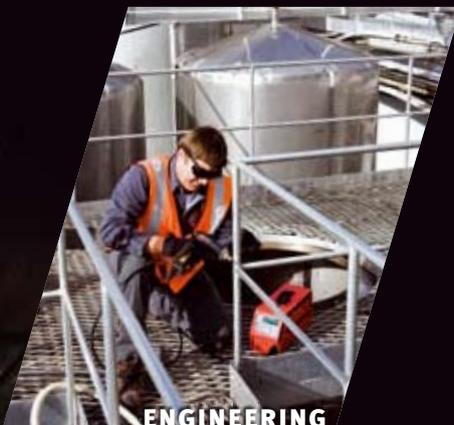


Plasma welding and cutting any metal, anywhere

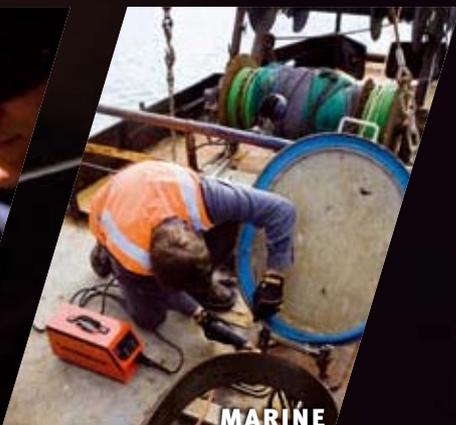
without gas or compressed air!



ENGINEERING



WORKSHOP

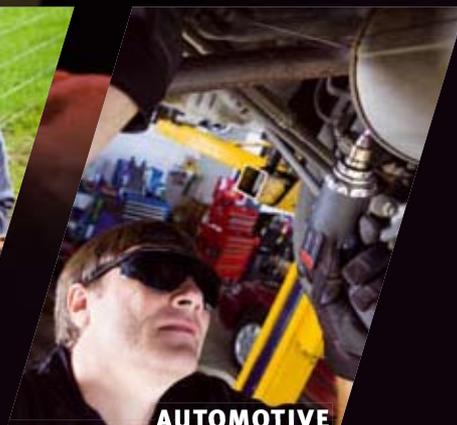


MARINE

the ultimate in
portability, safety
and efficiency



FARM



AUTOMOTIVE

 **MULTIPLAZ**
3500



Plasma welding and cutting any metal, any place, anytime



WORKSHOP

Possibly the single most useful and versatile tool for the workshop or shed



For the first time in the history of the metal working industry, the technology of generating plasma from water and alcohol has made it possible to develop a new, absolutely safe portable powerful all-in-one welding and cutting plasma device. MULTIPLAZ 3500 utilises patented plasma technology to weld and solder all common metals: steels, cast iron, copper, aluminium etc and cut through almost all known materials with ease including concrete and ceramic tiles. MULTIPLAZ 3500 can be used for separating, gouging, hole-making, perforation, local heating, melting. MULTIPLAZ 3500 will become an indispensable workshop and maintenance tool finding a limitless range of applications everywhere for industrial, commercial, farm and home use.

MULTIPLAZ 3500 - the ultimate in portability and safety for plasma welding and cutting without gas or compressed air!

MULTIPLAZ 3500 provides an ecologically friendly process because no noxious or poisonous gases such as propane, acetylene, nitrogen, are used in the process of welding and cutting. The atmosphere inside the working space is enriched with the oxygen that is generated when the plasma device is in use. The unprecedented ecological compatibility of the Multiplaz plasmatron makes it possible to perform operations in enclosed and confined spaces such as offices, shops, premises for living, pipes, shafts, wells, tunnels, basements, vehicles, boat hulls and so on.

MULTIPLAZ 3500 is the most portable all-in-one welding and cutting device available. The combined weight of the plasma torch and electronic power module is a very manageable 9kgs. This makes it ideal for the workshop and mobile maintenance applications in locations such as wineries, factories, horticulture, agriculture and general farm use, especially in remote areas. MULTIPLAZ 3500 is widely used in industry around the world in a variety of situations including water trenches, underground tunnel engineering operations, assembly of all kinds of underground utility systems, heating and central-heating systems, power supply systems, assembly and roofing maintenance, plumbing, repairs of refrigerators, air-conditioners and ventilation systems, for the use on board ships of any type.

Due to its unique multi-functional capabilities, it is difficult to find a welding or cutting task in which the MULTIPLAZ 3500 device would not be of use, any place, anytime.



ENGINEERING

Work with a huge variety of materials. Perfect for on-site maintenance in every industry



Minimal power consumption is an important cost factor when running MULTIPLAZ 3500. Its low power requirement (230V up to 3.5 kW) means there is a significant annual saving in electricity charges when compared with using higher voltage equipment such as arc welders. For in-the-field usage where portable power generation is required, the need for a significantly smaller generator means additional cost savings are achieved due to lower equipment and fuel costs. No need for additional bottled gases or compressed air. MULTIPLAZ 3500 uses only water for cutting, uses water and alcohol mixture for welding resulting in even lower running costs.

Besides being cost effective, ecologically friendly and able to be used for limitless applications, there are a number of other advantages offered to the owners of a MULTIPLAZ 3500:

- The working flame provides effective illumination at the work site so no additional lighting is required.
- Narrow heat area on the subject materials means a minimal shrinkage of the welded metal is achieved and no thermal strains producing a higher quality weld.
- Unlimited duty cycle. MULTIPLAZ 3500 will happily operate for 24-hours per day, 365 days a year at its maximum capacity. Pausing briefly at 20 – 30 minute intervals only to replenish working fluid in the torch reservoir.

MULTIPLAZ 3500 has established a new standard in the technology of plasma welding, soldering and cutting. Using intelligent design and water as a power transfer source, you'll be working with an advanced proven technology that is safe and friendly for today and the future.



MARINE

Perfect for use at sea for repairs. Can be used in enclosed spaces such as engine rooms



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FARMING

Portable and multi-purpose. A thousand and one uses around the farm or lifestyle block



AUTOMOTIVE

Unlimited uses in vehicle shops for repairs, modification and restoration



EVERYTHING YOU NEED FOR WELDING AND CUTTING

Power Supply (the unit)	Syringe	Compass	Spare parts kit contents:
Welding Torch	Torch Holder	Clamp Bracket	Quartz Tube
Cutting Torch	Plunger	Case and carry strap	Nozzle, Spring
Protective Tip	Wire with Clamp	Operating Manual	Drill Bit
Combination Wrench	Graphite Lubricant	Instructional DVD	Cathode
Filler Holder	Ball Support	Service Certificate	Cathode Assembly
	Support	Spare Parts Kit	

MULTIPLAZ 3500 comes with a 24 months back to base warranty - (conditions apply)



AWARD WINNING TECHNOLOGY

The plasma technology employed by Multiplaz has gained numerous awards including: Gold medals from Brussels, Geneva and Sofia International Invention Salons. Winner: Grand Prix at the 26th Geneva International Invention Salon. Multiplaz holds a number of patents around the world.

FEATURES

MULTIPLAZ 3500 welds and solders all common metals: steels, cast iron, copper, aluminium etc and cuts through almost all known materials with ease.

- Compact and weighs only 9kg
- Cost effective: uses 230V power supply up to 3.5kW
- Uses water and alcohol mixture for welding
- Uses only water for cutting
- Environmentally friendly: emits oxygen

USES

MULTIPLAZ 3500 has virtually limitless applications for welding and cutting and is used successfully around the world in such uses as:

Automotive and Marine Engineering

Workshop and shed

Farming, horticulture and agriculture

Offices, shops, homes apartments, hotels

Heating and Ventilation

Tunnels, basements, well shafts mining and bridges

Boat hulls and superstructure

Roofing and plumbing

Wineries and factories

Refrigeration and air conditioning

Ship and aircraft production and maintenance

General and mobile repairs and maintenance

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PERFORMANCE SPECIFICATIONS

Supply main voltage (single phase)	V	110-253
Line frequency	Hz	50-60
Power consumption	kW	up to 3.5
Power supply (inverter) dimensions (L x B x H)	cm	38 x 14 x 19
Torch weight	kg	0.9
Power supply (inverter) weight	kg	8.0
Plasma flame temperature	°C	8000
Welding type	-	plasma and plasma-arc
Cut steel plate's thickness	mm	up to 10
Welded steel plate's thickness	mm	from 0.3
Steel sheet (at 2 mm) cutting speed	mm/s	up to 7
Width of sheet steel cut	mm	1.5 at most
Working fluid consumption	litre/hour	0.25
Time of operation with one torch filling	min	20-30

HOW MULTIPLAZ WORKS

MULTIPLAZ 3500 consists of a plasma torch and electronic power module. The torch is filled with water (or water and alcohol mix), the power supply connected and correct voltage applied to the cathode for the task in hand, the start button is pressed briefly and an arc is produced. Arc energy heats the nozzle which then heats the evaporator, this causes the fluid to turn to steam. Steam flows toward the nozzle outlet under internal pressure (0.4 – 1.2bar). Escaping from the nozzle, steam compresses the electric arc, arc compression increases arc temperature. The compressed electric arc heats the steam to ionization temperature and operates at 8000 deg C.

Arc strength, and weld or cut properties are controlled by positioning the nozzle a certain distance from the work and by selecting different modes and voltages on the power supply. Learning to use MULTIPLAZ 3500 is very easy and the results are spectacular. No specialised training is required, with a little practice, anyone can become proficient in the multiple uses of this invaluable workshop tool.

