



# Multi Wave

Welding Focused Technology

## MULTIWAVE SYSTEM

Multi Wave is the latest evolution in multifunction power sources. Using advanced techniques of Tig Ac and Dc to open a new frontier in high quality arc welding. Complex applications become easy and fast thanks to simple automatic adjustment of all the welding variables. This new welding process now allows the use of tig in cost sensitive applications, Multi Wave user friendly, highly efficient and cost effective the advanced technology of the arc applications is complex but the user friendly front panel makes for simple control and easy operation of the machine use of the new enhanced processes are made easy.

The central control processor allows the machine to be used also for traditional processes:

MODERN STICK ELECTRODE  
MIG-MAG  
PULSER MIG  
COLD WIRE

## FAST AND EFFICIENT

TIG welding can become a good alternative to MIG\_MAG and PULSE MIG, with the new technology of MULTI WAVE. Up until now, TIG was only a quality approach for many applications. Now the innovative system of MULTI WAVE can be used in comparison to conventional welding methods. Many applications need the quality of tig but at the same time the cost can be prohibitive. When used at its maximum potential MultiWave, gives faster speeds with less deformation and lower costs while still maintaining high quality of the TIG procedure. This success is obtained by the full synergic approach, higher current and consequent higher welding speed. In this application of Multi Wave the built in automatic cold wire feed is used with high deposition ratio and brings forth a new frontier of high quality, high efficiency welding for any kind of material.





## MOVE INTO THE FUTURE

Highest arc stability is available with the Multi Wave process. Thanks to the new innovative system of "FORCED ARC™" the ignition of the arc is faster and direct - with or without high frequency.

Also in AC function, maintaining the arc does not require high frequency in any situation. With this innovation, arc ignition can be performed using a simple lift arc technique without causing any tungsten damage. High frequency can be selected in AC and DC welding mode, but only for arc ignition. With this system, automatic applications are possible, also it can be used in environments where the use of High Frequency is forbidden. Now with Multi Wave it is possible to weld with confidence and maximum arc stability, especially in environments such as hospitals, airports, power stations.

The use of the Multi Wave in robotic and automated situations eliminates the main problem of reliability of the robotic and CNC controllers when used for TIG process.

## MULTI WAVE 200 AC/DC

**DESCRIPTION**

Tig welding Single Phase 220V AC, AC/DC 200 Inverter, compact, portable, operated by a 200 A power inverter. The Multi Wave is lightweight and simple to use, with an intuitive operator interface, allows even operators little experience of TIG welding to quickly achieve high quality welds on aluminum, steel, stainless steel, titanium, copper and bronze.

All innovative technical concepts are included in the new generation of Multi Wave systems.

The typical noise emissions of an AC arc can be mitigated by varying the type of current waveform of the arc thanks to our exclusive "TAC" (monitors the average value of the current)

Synergic Pulse and High Frequency Pulse factory installed programmes ensures the operator can produce welds in all positions.

The Multi Wave also has its own unique wave form "Mixed Arc" which can enable the operator to weld badly fitting materials (gaps) in all positions without problems.

**MAIN FEATURES**

Arc stability and control.

Selecting Between manual set or synergistic Program.

Up to 20 synergic programs TIG.

Ignition of arc system by HF device or Lift Arc.

TIG welding with or without Slopes up and Slopes down.

Pulsed TIG welding with or without Slopes up and Slopes down.

TIG Arc Mix with or without Slopes up and Slopes down.

Possibility, in Set manual, to change all the parameters of cycle.

Predisposition to work with the TIG Cold wire feeder sistem.

Full digital control of cycle.

MMA (Stick) ac/dc mode with synergic programs or manual set.

Special program for spot welding.

Predisposition to work with the foot control.

TECHNICAL DATA	DESCRIPTION
DESCRIPTION	MULTI WAVE 200 AC/DC
CODE	V0095AA
POWER SUPPLY (+15% / -15%)	230V 1PH 50/60 HZ
FUSES (TIME DELAY)	T16A
MAX INPUT RATED SUPPLY CURRENT (I1 MAX)	26A
EFFECTIVE INPUT CURRENT (I1 EFF.)	15A
RATED POWER (MMA (STICK)) KVA	5.8KVA
PERMANENT POWER 100% (MMA (STICK)) KVA	3.5KVA
<b>TIG AC</b>	
REGULATION FIELD IN TIG AC MODE (A)	10A - 200A
RATED SECONDARY CURRENT (40°C)	200A (ED=40%)
PERMANENT SECONDARY CURRENT 100% (A)	125A
NO LOAD VOLTAGE	65V
<b>TIG DC</b>	
REGULATION FIELD IN TIG DC MODE (A)	5A - 200A
RATED SECONDARY CURRENT (40°C)	200A (ED=30%)
PERMANENT SECONDARY CURRENT 100% (A)	125A
NO LOAD VOLTAGE	65V
<b>MMA (STICK)</b>	
REGULATION FIELD IN STICK MODE (A)	20A - 160A
RATED SECONDARY CURRENT (40°C)	160A (ED=30%)
PERMANENT SECONDARY CURRENT 100% (A)	100A
NO LOAD VOLTAGE	VRD OFF 65V      VRD ON 25V
OVERLOAD PROTECTION	THERMAL
PROTECTION CLASS	IP21S
INSULATION CLASS	H
HOT START	YES
ANTI STICKING	YES
ARC FORCE	YES
TIG IGNITION	HF OR LIFT ARC
REMOTE CONTROL RECEPTACLE	YES (ANALOG OR DIGITAL)
REMOTE CONTROL	OPTIONAL (ANALOG OR DIGITAL)
FOOT CONTROL	OPTIONAL
TIG COLD WIRE FEEDERE SISTEM 4WD	OPTIONAL
WIDTH-HEIGHT-LENGTH (MM)	300X425X565
WEIGHT (KG)	19KG

### OPTIONAL

CODE	DESCRIPTION
Z0294AA	EARTH CABLE AND CLAMP 25mm <sup>2</sup> / 4m WITH PLUG 50
Z0296AA	STICK WELDING TORCH 25mm <sup>2</sup> / 4m WITH PLUG 50
Z0030AA	TIG TORCH BASIC 26 / 4m
Z0031AA	TIG TORCH DIGIT 26 / 4m
V0305AA	FOOT CONTROL Multi Wave



## MULTI WAVE 200 AC/DC PFC

**DESCRIPTION**

A Portable Digital Tig AC/DC air cooled TIG/MMA Inverter with PFC.

Compact, portable, operated by a 200 Amp Power Inverter, can be used on voltages from 95V to 265Vac single-phase, making this ideal for site use.

This Inverter is lightweight and simple to use. The operator friendly digital control panel allows less skilled operators to produce high quality welding in any material. All innovative technical concepts are included in the new generation of Multi Wave systems.

The typical noise emissions of an AC arc can be mitigated by varying the type of current waveform of the arc thanks to our exclusive "TAC" (monitors the average value of the current)

Synergic Pulse and High Frequency Pulse factory installed programmes ensures the operator can produce welds in all positions.

The Multi Wave also has its own unique wave form "Mixed Arc" which can enable the operator to weld badly fitting materials (gaps) without problems.

**MAIN FEATURES**

PFC Power Factor Correction wide range of power supply (95Vac - 265Vac).

Arc stability and control.

Selecting Between manual set or synergistic Program.

Up to 20 synergic programs TIG.

Ignition of arc system by HF device or Lift Arc.

TIG welding with or without Slopes up and Slopes down.

Pulsed TIG welding with or without Slopes up and Slopes down.

IG Arc Mix with or without Slopes up and Slopes down.

Possibility, in Set manual, to change all the parameters of cycle.

Predisposition to work with the TIG Cold wire feeder sistem.

Full digital control of cycle.

MMA (Stick) ac/dc mode with synergic programs or manual set .

Special program for spot welding.

Predisposition to work with the foot control.

TECHNICAL DATA	DESCRIPTION	
DESCRIPTION	MULTI WAVE 200 AC/DC PFC	
CODE	V0291AA	
POWER SUPPLY (+15% / -15%)	110V 1PH 50/60 HZ	230V 1PH 50/60 HZ
FUSES (TIME DELAY)	T20A	T16A
INPUT RATED SUPPLY CURRENT (I1 MAX)	26A	23A
PERMANENT INPUT CURRENT (I1 EFF)	20A	10A
RATED POWER (TIG)	2,9KVA	5,0 KVA
PERMANENT POWER 100% (TIG)	2,2KVA	2,4KVA
<b>TIG AC</b>		
REGULATION FIELD IN TIG AC MODE MODE (A)	10-145A	10-200A
RATED SECONDARY CURRENT (40°C)	145A (80%ED)	200A (40%ED)
PERMANENT SECONDARY CURRENT 100%	125A	125A
NO LOAD VOLTAGE	65V	
<b>TIG DC</b>		
REGULATION FIELD IN TIG DC MODE (A)	5-145A	5-200A
RATED SECONDARY CURRENT MIN (40°C)	145A (70%ED)	200A (30%ED)
PERMANENT SECONDARY CURRENT 100%	125A	125A
NO LOAD VOLTAGE	65V	
<b>MMA (STICK)</b>		
REGULATION FIELD IN STICK MODE	20-95A	20-160A
RATED SECONDARY CURRENT (40°C)	95A (80%ED)	160A (30%ED)
PERMANENT SECONDARY CURRENT 100%	85A	90A
NO LOAD VOLTAGE	VRD OFF 65V - VRD ON 25V	
OVERLOAD PROTECTION	THERMAL	
PROTECTION CLASS	IP21S	
INSULATION CLASS	H	
HOT START	YES	
ANTI STICKING	YES	
ARC FORCE	YES	
TIG IGNITION	HF OR LIFT ARC	
REMOTE CONTROL	RECEPTACLE YES (ANALOG OR DIGITAL)	
REMOTE CONTRO	L OPTIONAL (ANALOG OR DIGITAL)	
FOOT CONTROL	OPTIONAL	
TIG COLD WIRE FEEDERE SISTEM 4WD	OPTIONAL	
GAS BOTTLE TROLLEY	NO	
WIDTH-HEIGHT-LENGTH (MM)	300X425X565	
WEIGHT (KG)	22	

### OPTIONAL

CODE	DESCRIPTION
Z0294AA	EARTH CABLE AND CLAMP 25mm <sup>2</sup> / 4m WITH PLUG 50
Z0296AA	STICK WELDING TORCH 25mm <sup>2</sup> / 4m WITH PLUG 50
Z0030AA	TIG TORCH BASIC 26 / 4m
Z0031AA	TIG TORCH DIGIT 26 / 4m
V0305AA	FOOT CONTROL Multi Wave

## MULTI WAVE 400 AC/DC- MULTI WAVE 500 AC/DC

**DESCRIPTION**

This powerful Multi Process Ac/DC power source is part of our new Multi Wave range. High power with an excellent Duty Cycle makes the system ideal for professional welding of all the alloys of aluminum and of all the noble metals. A variety of Synergic programmes are factory installed to enable the operator to produce quality welding results without a high level of skill requirement. The Synergic programmes include Pulsed TIG, and MMA for all materials. The exclusive "TAC" (True average current), in our pulsed arc process, gives fast and accurate control of the welding current, and offers outstanding welding performance. Our special wave form "Mix Arc", reduces the risk of impurity inclusions in the weld pool especially at high current. The Multi Wave 400/500 offers many options including our Synergic Cold Wire Feeder system for semi automatic welding procedures. All Multi Wave AC/DC 3 Phase machines have the option of Synergic external wire feeder for MIG/MAG welding. This impressive wire feed system includes all of the features of the Concept Plus giving higher welding speeds and deeper penetration when welding. The Multi Wave 400/500 has options for remote foot control or remote digital torch.

**MAIN FEATURES**

Arc stability and control.  
 Selecting Between manual set or synergistic Program.  
 Up to 20 synergic programs TIG.  
 Ignition of arc system by HF device or Lift Arc.  
 TIG welding with or without Slopes up and Slopes down.  
 Pulsed TIG welding with or without Slopes up and Slopes down.  
 TIG Arc Mix with or without Slopes up and Slopes down.  
 Possibility, in Set manual, to change all the parameters of cycle.  
 Predisposition to work with the TIG Cold wire feeder sistem.

**MAIN FEATURES**

Full digital control of cycle.  
 MMA (Stick) ac/dc mode with synergic programs or manual set.  
 Special program for spot welding.  
 Predisposition to work with the foot control.  
 Predisposition to work with MIG/MAG device (optionals external wire feeder and interconnecting cable).  
 MIG/MAG mode with high speed program, already installed.  
 Pulsed MIG/MAG mode with high efficiency fast pulse, already installed.  
 MIG/MAG Double Pulsed, already installed.  
 Automatic change of polarity.

**TECHNICAL DATA****DESCRIPTION**

DESCRIPTION	MULTI WAVE 400 AC/DC	MULTI WAVE 500 AC/DC
CODE	V0272AA	V0271AA
POWER SUPPLY	400V 3PH 50/60 HZ	400V 3PH 50/60 HZ
FUSES (TIME DELAY)	T16A	T25A
MAX INPUT RATED SUPPLY CURRENT (I1 MAX)	16A	30A
EFFECTIVE INPUT CURRENT (I1 EFF.)	13A	20A
RATED POWER (MMA (STICK)) KVA	11KVA	21KVA
PERMANENT POWER 100% (MMA (STICK)) KVA	9KVA	13,8KVA

**TIG**

REGULATION FIELD IN TIG MODE (A)	5A - 400A	5A - 500A
RATED SECONDARY CURRENT (40°C)	400A (ED=40%)	500A (ED=40%)
PERMANENT SECONDARY CURRENT 100%	250A	320A
NO LOAD VOLTAGE	20V	20V

**MIG**

REGULATION FIELD IN MIG-MAG MODE	10A - 320A	10A - 400A
RATED SECONDARY CURRENT (40°C)	320A (ED=40%)	400A (ED=40%)
PERMANENT SECONDARY CURRENT 100%	250A	320A
NO LOAD VOLTAGE	20V	20V

**MMA (STICK)**

REGULATION FIELD IN STICK MODE	20A - 250A	20A - 320A
RATED SECONDARY CURRENT (40°C)	250A (ED=40%)	320A (ED=40%)
PERMANENT SECONDARY CURRENT 100%	160A	290A
NO LOAD VOLTAGE	VRD OFF 72V - VRD ON 20V	VRD OFF 72V - VRD ON 20V

OVERLOAD PROTECTION	THERMAL	THERMAL
PROTECTION CLASS	IP21S	IP21S
INSULATION CLASS	H	H
HOT START	YES	YES
ANTI STICKING	YES	YES
ARC FORCE	YES	YES
TIG IGNITION	HF OR LIFT ARC	HF OR LIFT ARC
REMOTE CONTROL RECEPTACLE	YES (ANALOG OR DIGITAL)	YES (ANALOG OR DIGITAL)
REMOTE CONTROL	OPTIONAL (ANALOG OR DIGITAL)	OPTIONAL (ANALOG OR DIGITAL)
FOOT CONTROL	OPTIONAL	OPTIONAL
WATER COOLER UNIT	OPTIONAL	OPTIONAL
GAS BOTTLE TROLLEY	BUILT IN	BUILT IN
TIG COLD WIRE FEEDERE SISTEM 4WD	OPTIONAL	OPTIONAL
EXTERNAL MIG/MAG WIRE FEEDER 4WD	OPTIONAL	OPTIONAL
INTERCONNECTING CABLE 5M	OPTIONAL	OPTIONAL
DIMENSIONS : WIDTH-HEIGHT-LENGTH (MM)	505X845X920	505X890X920
WEIGHT (KG)	50KG	51KG



## MULTI WAVE 400 AC/DC- MULTI WAVE 500 AC/DC

## OPTIONAL

CODE	DESCRIPTION
V0267AA	TROLLEY BASIC (MULTI SYNERGIC & MULTI WAVE)
V0112AA	WATER COOLING SYSTEM (MULTI SYNERGIC & MULTI WAVE)
V0099AA	WIRE FEEDER TIG COLD WIRE - 15K WITH WHEELS AND SWIVEL SUPPORT
Z0098AA	EXTERNAL WIRE FEEDER MULTIFIL - 15K WITH WHEELS AND SWIVEL SUPPORT (MULTI SYNERGIC & MULTI WAVE)
Z0083AA	CABLE ASSEMBLY 70Mm2 / LENGTH 5M
Z0159AA	CABLE ASSEMBLY 70Mm2 / LENGTH 10M
Z0260AA	CABLE ASSEMBLY 95Mm2 / LENGTH 5M
Z0261AA	CABLE ASSEMBLY 95Mm2 / LENGTH 10M
V0100AA	DIGITAL REMOTE CONTROL DRC WITHOUT CABLE (MULTI SYNERGIC & MULTI WAVE ONLY FOR MIG)
Z0395AA	DRC CABLE LENGTH 5M
Z0256AA	DRC CABLE LENGTH 10M
Z0257AA	DRC CABLE LENGTH 20M
V0305AA	FOOT CONTROL MULTI WAVE
Z0231AA	EARTH CABLE AND CLAMP 50Mm2 / 3M WITH PLUG 50
Z0251AA	EARTH CABLE AND CLAMP 70Mm2 / 3,5M WITH PLUG 50
Z0255AA	STICK WELDING TORCH 50Mm2 / 4M WITH PLUG 50
Z0030AA	TIG TORCH BASIC 26 / 4M (TIG STANDARD TORCH 1 SWITCH / AIR COOLED)
Z0031AA	TIG TORCH DIGIT 26 / 4M (TIG SPECIAL TORCH WITH REMOTE CONTROL / AIR COOLED)
Z0246AA	TIG TORCH DIGIT SUPER18 / 4M (400A 100% ) (TIG SPECIAL TORCH WITH REMOTE CONTROL / LIQUID COOLED)
Z0244AA	TIG TORCH DIGIT 26 COLD WIRE / 3+1M
Z0325AA	TIG TORCH DIGIT 18HC COLD WIRE / 3+1M (400A ED=100%)
Z0275AA	MIG TORCH 250 / 4M (MIG STANDARD TORCH 1 SWITCH / AIR COOLED)
Z0191AA	MIG TORCH DIGIT 250A / 3,5M (MIG SPECIAL TORCH WITH REMOTE CONTROL / AIR COOLED)
Z0099AA	MIG TORCH 500 HC - 3 M (MIG STANDARD TORCH 1 SWITCH / LIQUID COOLED)
Z0100AA	MIG TORCH 500 HC - 4 M / (MIG STANDARD TORCH 1 SWITCH / LIQUID COOLED)
Z0192AA	MIG TORCH DIGIT 550A / 3,5M (MIG SPECIAL TORCH WITH REMOTE CONTROL / LIQUID COOLED)



## DIFFERENT CONFIGURATIONS TO MEET ALL NEEDS

### COMPOSITION

CODE	MODEL NAME
V0272A	MULTI WAVE 400 AC/DC

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC



### COMPOSITION

CODE	MODEL NAME
V0096AA	MULTI WAVE 400 W AC/DC

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC
- + (V0112AA) WATER COOLING SYSTEM

### COMPOSITION

CODE	MODEL NAME
V0115AA	MULTI WAVE 400 W AC/DC DUO

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC
- + (V0112AA) WATER COOLING SYSTEM
- + (Z0098AA) EXTERNAL WIRE FEEDER MULTIFIL - 15K WITH WHEELS AND SWIVEL SUPPORT
- + (Z0083AA) CABLE ASSEMBLY 70MM<sup>2</sup> / LENGTH 5M



MULTI WAVE

DIFFERENT CONFIGURATIONS TO MEET ALL NEEDS

COMPOSITION

CODE	MODEL NAME
V0114AA	MULTI WAVE 400 W AC/DC FF
INCLUDED:	
▪ MULTI-PROCESS WELDING SOURCE	
+ (V0267AA) TROLLEY BASIC	
+ (V0112AA) WATER COOLING SYSTEM	
+ (Z0099AA) WIRE FEEDER COLD WIRE - 15K WITH WHEELS AND SWIVEL SUPPORT	



COMPOSITION

CODE	MODEL NAME
V0271AA	MULTI WAVE 500 AC/DC
INCLUDED:	
▪ MULTI-PROCESS WELDING SOURCE	
+ (V0267AA) TROLLEY BASIC	

**TRP** Multi Wave  
The Key To Improved Performance



## DIFFERENT CONFIGURATIONS TO MEET ALL NEEDS



### COMPOSITION

CODE	MODEL NAME
V0097AA	MULTI WAVE 500 W AC/DC

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC
- + (V0112AA) WATER COOLING SYSTEM

### COMPOSITION

CODE	MODEL NAME
V0118AA	MULTI WAVE 500 W AC/DC DUO

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC (V0112AA) COOLING UNIT LIQUID COOLING SYSTEM
- + (Z0098AA) EXTERNAL WIRE FEEDER MULTIFIL - 15K WITH WHEELS AND SWIVEL SUPPORT
- + (Z0083AA) CABLE ASSEMBLY 70MM2 / LENGTH 5M



### COMPOSITION

CODE	MODEL NAME
V0117AA	MULTI WAVE 500 W AC/DC FF

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC
- + (V0112AA) WATER COOLING SYSTEM
- + (Z0099AA) WIRE FEEDER COLD WIRE - 15K WITH WHEELS AND SWIVEL SUPPORT

## MULTI WAVE 250 DC

**DESCRIPTION**

Synergic Tig welding Inverter with HF arc starting, compact, portable. The Multi Wave 250 DC boasts an incredible 250A @ 100% duty cycle.

This machine is built for heavy duty TIG welding.

As with all Multi Wave machines, the 250 DC has a simple to use digital control panel allowing the operator to choose Synergic Pulsed and High frequency pulse settings factory installed for most applications.

The innovations of the Multi Wave family are built in this portable machine with the result of higher thickness of welding material at faster speed. The equipment is complete with all functions to perform professional welding.

The TAC (true average current) allows pulsation of the arc without extra regulation and the special function of MIX ARC ensures impurity from the welding pool to be eroded in high current applications.

The equipment has the option of the external cold wire feeder system to produce semi automatic welding. The DC 250 can operate with foot control or digital remote control torch.

**MAIN FEATURES**

Arc stability and control.

Selecting Between manual set or synergistic Program.

Up to 20 synergic programs TIG.

Ignition of arc system by HF device or Lift Arc.

TIG welding with or without Slopes up and Slopes down.

Pulsed TIG welding with or without Slopes up and Slopes down.

TIG Arc Mix with or without Slopes up and Slopes down.

Possibility, in Set manual, to change all the parameters of cycle.

Predisposition to work with the TIG Cold wire feeder sistem.

Full digital control of cycle.

MMA (Stick) mode with synergic programs or manual set.

Special program for spot welding.

Predisposition to work with the foot control.

TECHNICAL DATA	DESCRIPTION
DESCRIPTION	MULTI WAVE 250 DC
CODE	V0093AA
POWER SUPPLY	400V 3PH 50/60 HZ
FUSES (TIME DELAY)	T16A
MAX INPUT RATED SUPPLY CURRENT (I1 MAX)	14,5 A
EFFECTIVE INPUT CURRENT (I1 EFF.)	9,4 A
RATED POWER (MMA (STICK)) KVA	10KVA
PERMANENT POWER 100% (MMA (STICK)) KVA	6,5KVA
<b>TIG</b>	
REGULATION FIELD IN TIG MODE (A)	5A - 250A
RATED SECONDARY CURRENT (40°C)	250A (ED=100%)
PERMANENT SECONDARY CURRENT 100%	250A
NO LOAD VOLTAGE	20V
<b>MMA (STICK)</b>	
REGULATION FIELD IN STICK MODE	20A - 220A
RATED SECONDARY CURRENT (40°C)	220A (ED=100%)
PERMANENT SECONDARY CURRENT 100%	220A
NO LOAD VOLTAGE	VRD OFF 60V      VRD ON 20V
<b>OVERLOAD PROTECTION</b>	
OVERLOAD PROTECTION	THERMAL
PROTECTION CLASS	IP21S
INSULATION CLASS	H
HOT START	YES
ANTI STICKING	YES
ARC FORCE	YES
TIG IGNITION	HF OR LIFT ARC
REMOTE CONTROL RECEPTACLE	YES (ANALOG OR DIGITAL)
REMOTE CONTROL	OPTIONAL (ANALOG OR DIGITAL)
FOOT CONTROL	OPTIONAL
TIG COLD WIRE FEEDERE SISTEM 4WD	OPTIONAL
DIMENSIONS : WIDTH-HEIGHT-LENGTH (MM)	300X425X565
WEIGHT (KG)	29,9KG

### OPTIONAL

CODE	DESCRIPTION
Z0295AA	EARTH CABLE AND CLAMP 35mm <sup>2</sup> / 4m WITH PLUG 50
Z0297AA	STICK WELDING TORCH 35mm <sup>2</sup> / 4m WITH PLUG 50
Z0030AA	TIG TORCH BASIC 26 / 4m
Z0031AA	TIG TORCH DIGIT 26 / 4m
Z0244AA	TIG TORCH DIGIT 26 COLD WIRE / 3+1m
V0099AA	WIRE FEEDER TIG COLD WIRE - 15K WITH WHEELS AND SWIVEL SUPPORT
V0305AA	FOOT CONTROL MULTI WAVE



## MULTI WAVE 400 DC

**DESCRIPTION**

This powerful Multi Process DC power source is part of our new Multi Wave range. High power with an excellent Duty Cycle makes the system ideal for professional welding of all the alloys of aluminum and of all the noble metals. A variety of Synergic programmes are factory installed to enable the operator to produce quality welding results without a high level of skill requirement. The Synergic programmes include Pulsed TIG, and MMA for all materials. The exclusive "TAC" (True average current), in our pulsed arc process, gives fast and accurate control of the welding current, and offers outstanding welding performance.

Our special wave form "Mix Arc", reduces the risk of impurity inclusions in the weld pool especially at high current. The Multi Wave 400 DC offers many options including our Synergic Cold Wire Feeder system for semi automatic welding procedures. All Multi Wave 3 Phase machines have the option of Synergic external wire feeder for MIG/MAG welding. This impressive wire feed system includes all of the features of the Concept Plus giving higher welding speeds and deeper penetration when welding. The Multi Wave 400 DC has options for remote foot control or remote digital torch.

**MAIN FEATURES**

- Arc stability and control.
- Selecting Between manual set or synergistic Program.
- Up to 20 synergic programs TIG.
- Ignition of arc system by HF device or Lift Arc.
- TIG welding with or without Slopes up and Slopes down.
- Pulsed TIG welding with or without Slopes up and Slopes down.
- TIG Arc Mix with or without Slopes up and Slopes down.
- Possibility, in Set manual, to change all the parameters of cycle.
- Predisposition to work with the TIG Cold wire feeder sistem.
- Full digital control of cycle.
- MMA (Stick) mode with synergic programs or manual set.
- Special program for spot welding.

**MAIN FEATURES**

- Predisposition to work with the foot control.
- Predisposition to work with MIG/MAG device (optionals external wire feeder and interconnecting cable).
- MIG/MAG mode with high speed program, already installed.
- Pulsed MIG/MAG mode with high efficiency fast pulse, already installed.
- MIG/MAG Double Pulsed, already installed.

TECHNICAL DATA	DESCRIPTION
DESCRIPTION	MULTI WAVE 400 DC
CODE	V0273AA
POWER SUPPLY	400V 3PH 50/60 HZ
FUSES (TIME DELAY)	T16A
MAX INPUT RATED SUPPLY CURRENT (I1 MAX)	16A
EFFECTIVE INPUT CURRENT (I1 EFF.)	13A
RATED POWER (MMA (STICK)) KVA	11KVA
PERMANENT POWER 100% (MMA (STICK)) KVA	9KVA
<b>TIG</b>	
REGULATION FIELD IN TIG MODE (A)	5A - 400A
RATED SECONDARY CURRENT (40°C)	400A (ED=40%)
PERMANENT SECONDARY CURRENT 100%	250A
NO LOAD VOLTAGE	20V
<b>MIG</b>	
REGULATION FIELD IN MIG-MAG MODE	10A - 320A
RATED SECONDARY CURRENT (40°C)	320A (ED=40%)
PERMANENT SECONDARY CURRENT 100%	250A
NO LOAD VOLTAGE	20V
<b>MMA (STICK)</b>	
REGULATION FIELD IN STICK MODE	20A - 250A
RATED SECONDARY CURRENT (40°C)	250A (ED=40%)
PERMANENT SECONDARY CURRENT 100%	160A
NO LOAD VOLTAGE	VRD OFF 60V      VRD ON 20V
OVERLOAD PROTECTION	THERMAL
PROTECTION CLASS	IP21S
INSULATION CLASS	H
HOT START	YES
ANTI STICKING	YES
ARC FORCE	YES
TIG IGNITION	HF OR LIFT ARC
REMOTE CONTROL RECEPTACLE	YES (ANALOG OR DIGITAL)
REMOTE CONTROL	OPTIONAL (ANALOG OR DIGITAL)
WATER COOLER UNIT	OPTIONAL
GAS BOTTLE TROLLEY	BUILT IN
TIG COLD WIRE FEEDERE SISTEM 4WD	OPTIONAL
EXTERNAL MIG/MAG WIRE FEEDER 4WD	OPTIONAL
INTERCONNECTING CABLE 5M	OPTIONAL
DIMENSIONS : WIDTH-HEIGHT-LENGTH (MM)	505X705X920
WEIGHT (KG)	50KG

## MULTI WAVE 400 DC

## OPTIONAL

CODE	DESCRIPTION
V0267AA	TROLLEY BASIC (MULTI SYNERGIC & MULTI WAVE)
V0112AA	WATER COOLING SYSTEM (MULTI SYNERGIC & MULTI WAVE)
V0099AA	WIRE FEEDER TIG COLD WIRE - 15K WITH WHEELS AND SWIVEL SUPPORT
Z0098AA	EXTERNAL WIRE FEEDER MULTIFIL - 15K WITH WHEELS AND SWIVEL SUPPORT (MULTI SYNERGIC & MULTI WAVE)
Z0083AA	CABLE ASSEMBLY 70Mm2 / LENGTH 5M
Z0159AA	CABLE ASSEMBLY 70Mm2 / LENGTH 10M
Z0260AA	CABLE ASSEMBLY 95Mm2 / LENGTH 5M
Z0261AA	CABLE ASSEMBLY 95Mm2 / LENGTH 10M
V0100AA	DIGITAL REMOTE CONTROL DRC WITHOUT CABLE (MULTI SYNERGIC & MULTI WAVE ONLY FOR MIG)
Z0395AA	DRC CABLE LENGTH 5M
Z0256AA	DRC CABLE LENGTH 10M
Z0257AA	DRC CABLE LENGTH 20M
V0305AA	FOOT CONTROL MULTI WAVE
Z0231AA	EARTH CABLE AND CLAMP 50Mm2 / 3M WITH PLUG 50
Z0251AA	EARTH CABLE AND CLAMP 70Mm2 / 3,5M WITH PLUG 50
Z0255AA	STICK WELDING TORCH 50Mm2 / 4M WITH PLUG 50
Z0030AA	TIG TORCH BASIC 26 / 4M (TIG STANDARD TORCH 1 SWITCH / AIR COOLED)
Z0031AA	TIG TORCH DIGIT 26 / 4M (TIG SPECIAL TORCH WITH REMOTE CONTROL / AIR COOLED)
Z0246AA	TIG TORCH DIGIT SUPER18 / 4M (400A 100% ) (TIG SPECIAL TORCH WITH REMOTE CONTROL / LIQUID COOLED)
Z0244AA	TIG TORCH DIGIT 26 COLD WIRE / 3+1M
Z0325AA	TIG TORCH DIGIT 18HC COLD WIRE / 3+1M (400A ED=100%)
Z0275AA	MIG TORCH 250 / 4M (MIG STANDARD TORCH 1 SWITCH / AIR COOLED)
Z0191AA	MIG TORCH DIGIT 250A / 3,5M (MIG SPECIAL TORCH WITH REMOTE CONTROL / AIR COOLED)
Z0099AA	MIG TORCH 500 HC - 3 M (MIG STANDARD TORCH 1 SWITCH / LIQUID COOLED)
Z0100AA	MIG TORCH 500 HC - 4 M / (MIG STANDARD TORCH 1 SWITCH / LIQUID COOLED)
Z0192AA	MIG TORCH DIGIT 550A / 3,5M (MIG SPECIAL TORCH WITH REMOTE CONTROL / LIQUID COOLED)

## DIFFERENT CONFIGURATIONS TO MEET ALL NEEDS



## COMPOSITION

CODE	MODEL NAME
V0273AA	MULTI WAVE 400 DC
INCLUDED:	
▪ MULTI-PROCESS WELDING SOURCE	
+ (V0267AA) TROLLEY BASIC	



## DIFFERENT CONFIGURATIONS TO MEET ALL NEEDS

### COMPOSITION

CODE	MODEL NAME
V0094AA	MULTI WAVE 400 W DC

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC
- + (V0112AA) WATER COOLING SYSTEM



### COMPOSITION

CODE	MODEL NAME
V0121AA	MULTI WAVE 400 W DC DUO

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC
- + (V0112AA) WATER COOLING SYSTEM
- + (Z0098AA) EXTERNAL WIRE FEEDER MULTIFIL - 15K WITH WHEELS AND SWIVEL SUPPORT
- + (Z0083AA) CABLE ASSEMBLY 70MM<sup>2</sup> / LENGTH 5M

### COMPOSITION

CODE	MODEL NAME
V0122AA	MULTI WAVE 400 W DC FF

#### INCLUDED:

- MULTI-PROCESS WELDING SOURCE
- + (V0267AA) TROLLEY BASIC
- + (V0112AA) WATER COOLING SYSTEM
- + (Z0099AA) WIRE FEEDER COLD WIRE - 15K WITH WHEELS AND SWIVEL SUPPORT

