

# MULTI 500SWF - Plus Concept

## DC Multifunction Pulse MIG Welding System

Welds: Steels, Stainless, Cast Iron, Bronze, Aluminium, Copper



## FEATURES



**Synergic Pulse MIG Programs**  
High Speed Synergic Pulse MIG  
Twin Pulse



**High Speed MIG/MAG**  
Synergic MIG



**DC Lift arc TIG with PULSE**  
Manual and Synergic Programs



**MMA Stick mode**  
Manual and Synergic Programs  
Hot Start / Arc Force / Anti Sticking



**Push Pull Ready**



**Voltage Reduction Device**



**4 Geared Drive Roller**



**Manufactured in compliance**  
to AS/NZ60974.1 / ISO/IEC

- New "Plus Concept" Technology
- Latest European IGBT Inverter Technology
- 14 Synergic MIG programs
- 2/4T Trigger Functions • Up Slope - Down Slope
- Variable Start Current and Crater Current
- Simple selection of welding programs
- Simple interface for easy operation

### Overview

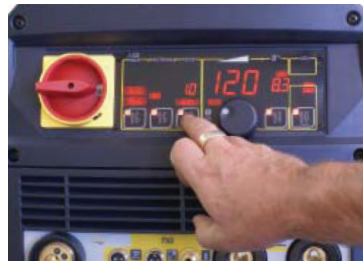
The MULTI-500WSWF is a complete and powerful multifunction DC inverter welding machine - 3 phase 415V. An industrial machine with multiple welding functions including Pulse MIG, Double Pulse MIG, High Speed MIG, DC TIG, and DC MMA (STICK). User friendly programs with synergic function are provided for all the welding processes making it suitable for even the inexperienced user.

The MULTI-500WSWF encompasses all facets of the new PLUS CONCEPT technology development. PLUS CONCEPT is an innovative solution that is revolutionising the welding industry. Now high efficiency welding is possible with Gas Metal Arc Welding, Pulse Arc and standard applications. The forced dynamism of the PLUS CONCEPT achieves an ultra fast transfer rate into the weld pool giving surprising results. It increases the welding speed up to 45% and, at the same time, it increases the penetration of the weld. Higher speed, better penetration and less spatter means less energy used during the deposit and reduced distortion during welding. Using the Double Pulse function provides the ability to produce welds with TIG like finish with excellent control over the weld pool. The MULTI-500KWSWF is a professional industrial machine that is supplied complete with water cooler for water cooled torch connection, trolley with gas bottle support, also with Push Pull Torch interface connection. Ideal for boat building, heavy fabrication and general engineering, sheet metal workshops, stainless steel fabricators, transport engineering, repair and maintenance workshops, Designed and built to meet with European norms conformity.

### MACHINE PACKAGE: KTRPM500SWFWC

Standard option includes: Multi500SWF, Water Cooler, SB500-3M or SB500-4M, Earth / Arc Lead 50mm x 10m, 10M Interconnecting cables, UNI-MIG Twin Gauge Argon Regulator, Gas Hose, Trolley

### Interactive Front Panel



The Ergonomic and Auto Learning System is used in the powerful front panel interface where welding mode selection, program selection, adjustments and special settings coexist in a rugged panel, whereby with a simple touch the user can instantly see the results they have selected.



### Technical Data

Power supply ( -10% / +15% )	415V 3 Phase
Phases	3ph
Fuses	T32A
Duty Cycle @ 40°C	60% @ 500 Amps 100% @ 380 Amps
Rated secondary current	500A
Permanent Sec. Current 100%	380A
Rated power	26KVA
Permanent power 100%	17. 5KVA
Overload protection	DIGITAL
TIG Regulation field	10A-500A
Regulation field	20A-500A
Range MIG - MAG – MIG PULSE	20A-500A
NO LOAD voltage (S) (K)	90V
Max secondary current	640A
Short circuit limit	050A
Protection class	IP21S
Insulating class	H
Width - Height Length mm	340x600x620
Weight Kg	85

**2**  
Years

**WARRANTY**

(Power Source)

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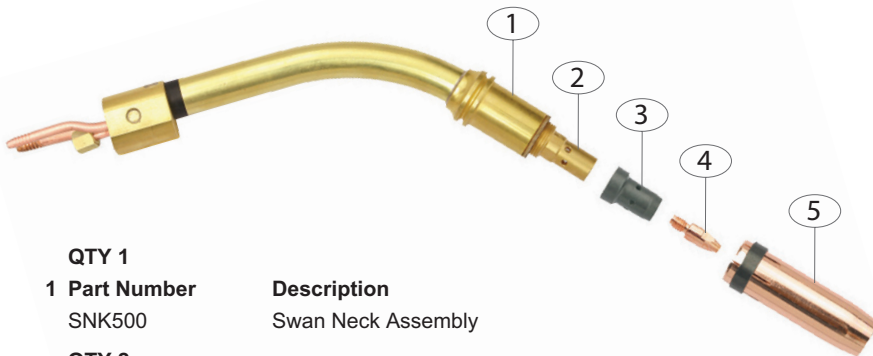
## DC Multifunction Pulse MIG Welding System

### Torch Spare Parts - Machine Options & Accessories



#### 500A WATER COOLED MIG WELDING TORCH

Rating: 500A CO<sup>2</sup> 450A mixed gas EN60974-7 @ 60% duty cycle. 0.8 to 1.6mm wires



QTY 1	
<b>1 Part Number</b>	<b>Description</b>
SNK500	Swan Neck Assembly
QTY 2	
<b>2 Part Number</b>	<b>Description</b>
PCTH500	Tip Holder M8 SB500
QTY 2	
<b>3 Part Number</b>	<b>Description</b>
PCGD38	Gas Diffuser

QTY 10	
<b>4 Part Number</b>	<b>Description</b>
PCT0005-08	Contact tip M8 Steel Wire (0.8mm)
PCT0005-09	Contact tip M8 Steel Wire (0.9mm)
PCT0005-10	Contact tip M8 Steel Wire (1.0mm)
PCT0005-12	Contact tip M8 Steel Wire (1.2mm)
PCT0005-16	Contact tip M8 Steel Wire (1.6mm)
PCTAL0005-09	Contact tip M8 Alloy Wire (0.9mm)
PCTAL0005-10	Contact tip M8 Alloy Wire (1.0mm)
PCTAL0005-12	Contact tip M8 Alloy Wire (1.2mm)
PCTAL0005-16	Contact tip M8 Alloy Wire (1.6mm)

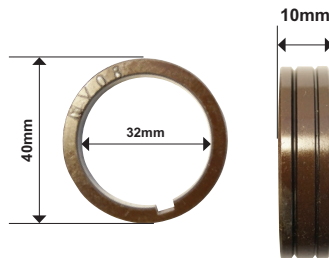
QTY 2	
<b>5 Part Number</b>	<b>Description</b>
PGN38CON	Gas Nozzle Conical
PGN38CYL	Gas Nozzle Cylindrical
PGN38TAP	Gas Nozzle Tapped

Torch Model		
Description	Part Number	
	3 Mt	4 Mt
SB500W Suregrip Ergo Torch Package	SB500-3M	SB500-4M

#### Drive Roller x 2

ROLLER DIAMETER: 40/32

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- V Groove Drive Roller - Steel Wire
- Knurled Drive Roller - Flux Core Wire
- U Groove Drive Roller - Soft Wire

### Machine Options

#### Welding Helmet

UMRWXWH  
Automatic Welding Helmet Option  
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#### Push Pull

PPLUWC40-24V-8M  
PUSH PULL Torch Option  
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#### TIG Torch

SR-18TR-4MCP50  
Water Cooled TIG Torch Option  
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