

RAGNAMIG 503 S-DUALPULSE

RAGNAR
WELDING



RAGNAMIG 503 S-DUALPULSE at a glance

The RAGNAMIG 503 S-DUALPULSE is a 3ph MIG DUAL PULSE welding machine with a separate wire feed unit capable of delivering **500A @ 60%**, making it ideal for the most demanding industrial applications. **Single-pulse** and **double-pulse** welding technology ensures excellent aluminium welding results.

This multi-process MIG DUAL PULSE, MIG SINGLE PULSE, MIG SYNERGIC, LIFT TIG and MMA industrial welder comes with a robust 4 wheeled trolley and water cooler.

There is a wide range of SYN curves and built-in remote torch options to meet the most demanding welding applications such as heavy manufacturing, shipyards, oil and gas, tank welding etc.

2 YEARS WARRANTY

RAGNAMIG 503 S-DUALPULSE MAIN FUNCTIONS

MIG DUAL PULSE, MIG SINGLE PULSE, LIFT TIG AND MMA (STICK) PROCESSES

It features MIG DUAL and SINGLE PULSE, MIG SYNERGIC, MIG MANUAL Gas / Gasless, Lift TIG and MMA (Stick) welding processes.

MIG SINGLE PULSE AND DUAL PULSE WELDING

This high-tech MIG welding machine offers excellent penetration and the best aesthetic welding results, especially for aluminium. It reduces porosity and spatter, creating fishscale welds that require very little cleaning

SYNERGIC MIG WELDING

Punch in your wire type, wire diameter and gas and let the machine set the perfect welding parameters for your work and for your material thickness. Feeling like you welding on your own terms? Manual MIG allows to set your own voltage and wire feed speed

TORCH TRIGGER MODES

2T Trigger Mode and 4T Trigger Mode available.

SPOOL-GUN AND MIG REMOTE TORCHES

Accepts Spool-Gun in Mig mode and capable of using MIG torches with remote control

JOB STORAGE

Save your welding preferences on one of 10 JOB slots and retrieve them any time for great time saving and efficiency.

MMA PROCESS (STICK)

Capable of welding all types of common used STICK welding electrodes, such as 6013, 7018 etc. Anti-Sticking will reduce the output current after senses the electrode contact with the metal for a prolonged period. Auto Hot Start boosts the current during starting for quicker ignition. Arc Force (Adjustable) gives additional amperage during low voltage (short arc length) conditions while welding and helps avoid "sticking" electrodes to the workpiece.

LIFT TIG PROCESS

Capable of welding TIG with Lift Arc Start, with features like 2T/4T torch trigger and adjustable down slope time.

WORKSHOP-FRIENDLY

Strong trolley is designed for effortless movement around the workshop.

DIMENSIONS

640*245*450mm, 28Kg

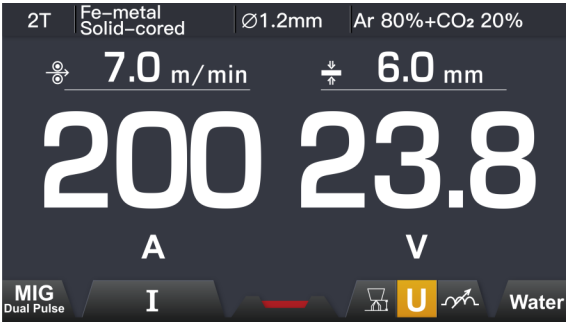
DUAL COOLING OPTIONS

Air cooling and water cooling methods available (cooling units optional).

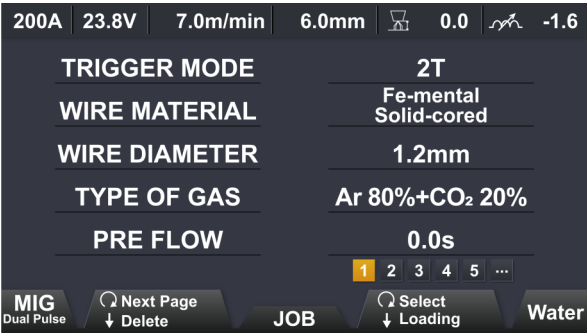
LCD DISPLAY

Large and bright LCD Display for easy menu navigation

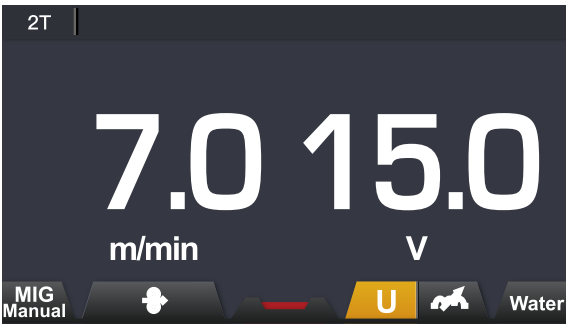
DASHBOARD / WELDING MENU



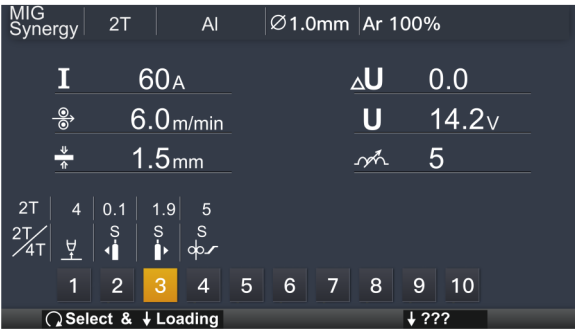
MIG SYNERGIC MODE SETTING



MIG MANUAL MODE SETTING



JOB STORAGE MODE



SPOOL GUN

Allows the use of Spool Guns, for superior convenience, particularly with aluminum wire.



REMOTE MIG TORCH

Allows to control the welding parameters remotely in MIG mode.



RAGNAMIG 503 S-DUALPULSE

TECHNICAL DATA

PARAMETERS			
Input Voltage (V)	3ph 400V		
	MMA	TIG	MIG
Max Input Current (A)	42	33	41
Input Power (KW)	29	22.9	28.6
Welding Current (A)	10-500	10-500	20-500
No- load Voltage (V)	94	94	94
Duty cycle (40°C)		60% 500A 100% 410A	

Wire Diameter (mm)	SYN	PULSE
	Fe: 0.8/0.9/1.0/1.2/1.6	CuSi3: 1.0/1.2
	Flux-Cored: 1.0/1.2/1.6	CuAl8: 1.2/1.6
	CuSi3: 1.0/1.2/1.6 SS: 1.0/1.2/1.6	Fe: 0.8/0.9/1.0/1.2/1.6 AlMg5: 1.0/1.2/1.6 SS: 1.0/1.2/1.6 Flux-Cored: 1.2/1.6 AlSi5:1.0/1.2/1.6 Al99.5:1.2/1.6
Cooling	AF-WC	
Protection class	IP21S	
Dimensions (mm)	640*245*450	
Weight (Kg)	30.5 kg	



RAGNAMIG 503 S-DUALPULSE

PACKAGE INCLUSIONS



RAGNAMIG 503 S-DUALPULSE POWER SOURCE

RAGNAMIG DUAL PULSE FEEDER

TROLLEY

COOLING UNIT

WELDING TORCH MIG 501 4M WITH REMOTE CONTROL

EARTH CABLE 50MM2 4M & EARTH CLAMP 500A

GAS HOSE 3M WITH QUICK FIT CONNECTOR

SPARE FEEDER ROLLS 1.2-1.6V

SPARE FEEDER ROLLS 1.2-1.6U



RAGNAMIG 503 S-DUALPULSE

ORDERING INFORMATION & OPTIONAL ACCESSORIES

RM.503.01P – RagnaMig 503 S-DUALPULSE Package

ICH2399-36 – Welding Torch 501D 4m Water Cooled

7.602.450-A – Welding Torch 501D 4m remote Water Cooled

RACC.5003001 – Welding Cable 50mm2 3m & Electrode Holder 500A

RACC.5003002 – Earth Cable 50mm2 3m & Earth Clamp 500A

RACC.G000001 – GAS HOSE 3m WITH QUICK FIT CONNECTOR

RACC.ROL0006 – Feeder Rolls 0.8-1.0 V

RACC.ROL0002 – Feeder Rolls 1.0-1.2 V

RACC.ROL0004 – Feeder Rolls 1.0-1.2 U

10W6906-36 – Welding Torch TIG 26 4m

IOB6960-00 – TIG 18 4m WATER COOLED

ICL0116 – Spool Gun 24 6m

COMPLETE WIRE FEEDER ROLLS RANGE AVAILABLE UPON REQUEST



V Groove Rollers
For Solid Wires



FCW Groove Rollers
For Flux Cored Wires



U Groove Rollers
For Soft Wires