

# RAGNAMIG 323 P-SYN

**RAGNAR**  
WELDING



## RagnaMig 323 P-SYN at a glance

The RagnaMig 323 P-SYN is a 3-ph welding machine with MIG, TIG and MMA multi-process capabilities. It is ideal for a variety of applications such as light/medium shop production and field maintenance.

This 3in1 unit provides great MIG performances with ease of use thanks to SYNERGIC curves, and LIFT TIG and MMA welding modes.

It comes with a robust trolley and a choice of tool storage or cooler depending on air cooling or water cooling needs. Its small size allows it to be fully carried in the field despite the D300 (15 kg) wire spools.

Built-in features include 2T/4T trigger options in both MIG and TIG, Spool Gun and polarity reversal for gasless welding (Flux Cored Wire).

### OPTIONAL

- TOOLBOX
- COOLER
- TROLLEY



OPTIONAL  
COOLING UNIT

**2 YEARS**  
WARRANTY

## RAGNAMIG 323 P-SYN MAIN FUNCTIONS

### MIG, LIFT TIG AND MMA (STICK) PROCESSES

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

### 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 READY

Compatible with Spool Gun (Spool-on Gun).

### DUAL COOLING OPTIONS

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

### 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.

### LIGHTWEIGHT & PORTABLE

Only 720\*260\*490mm and 28.5 KG with handle. Can load a D300 (15kg) wire spool.

### WORKSHOP-FRIENDLY

Optional trolley is available for effortless movement around the workshop, as well as a toolbox storage unit.

### LCD DISPLAY

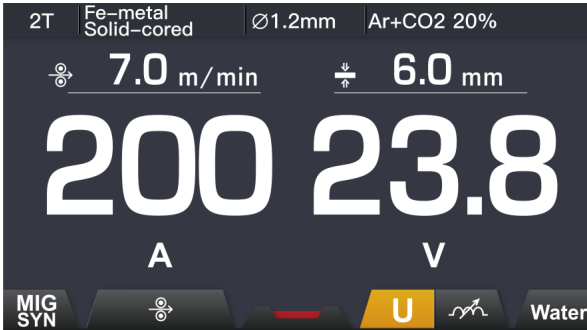
Large and bright LCD Display for easy menu navigation

# RAGNAMIG 323 P-SYN

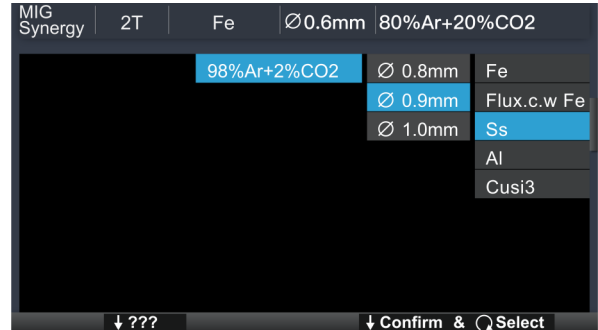
## SPECIAL FUNCTIONS



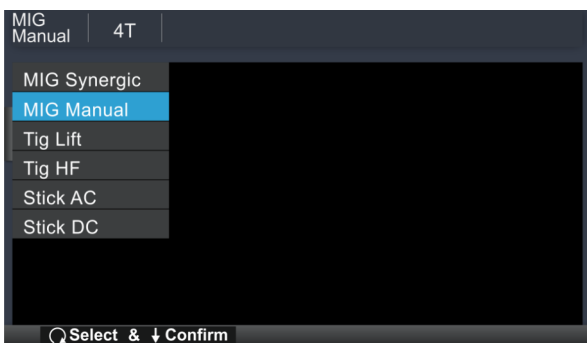
### DASHBOARD / WELDING MENU



### MIG SYNERGIC MODE SETTING



### WELDING MODE SELECTION



### MMA MODE SETTING



### SPOOL GUN

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



### Air cooled/Water Cooled Setup

Can be used in both air cooled and water cooled modes (water cooling unit, toolbox and trolley are optional)

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## TECHNICAL DATA

### PARAMETERS

Input Voltage (V)	3ph 400V		
	MMA	TIG	MIG
Max Input Current (A)	18	22.5	17
Input Power (KW)	12.6	15.5	11.7
Welding Current (A)	10-300	10-250	20-315
No-load Voltage (V)	75	71	30-315
Duty cycle (40°C)	40% 250A	40% 300A	40% 315A
	60% 195A	60% 235A	60% 245A
	100% 160A	100% 190A	100% 200A

Wire Diameter (mm)	Fe: 0.6, 0.8, 1.0, 1.2
	Flux-Cored: 0.6, 0.8, 1.0, 1.2
	SS: 0.8, 1.0, 1.2 Aluminium: 1.0, 1.2 CuSi: 1.0
Cooling	AF-WC
Protection class	IP21S
Dimensions (mm)	720*260*490
Weight (Kg)	28.5kg

# RAGNAMIG 323 P-SYN

## PACKAGE INCLUSIONS (PORTABLE)



RAGNAMIG 323 P-SYN POWER SOURCE

WELDING TORCH MIG 36 4M

EARTH CABLE 25MM2 3M & EARTH CLAMP 300A

GAS HOSE 3M WITH QUICK FIT CONNECTOR

SPARE FEEDER ROLL 1.0-1.2V

# RAGNAMIG 323 P-SYN

## PACKAGE INCLUSIONS (TROLLEY)



RAGNAMIG 323 P-SYN POWER SOURCE

TROLLEY & TOOLBOX

WELDING TORCH MIG 36 4M

EARTH CABLE 25MM2 3M & EARTH CLAMP 300A

GAS HOSE 3M WITH QUICK FIT CONNECTOR

SPARE FEEDER ROLL 1.0-1.2V



# RAGNAMIG 323 P-SYN

## ORDERING INFORMATION & OPTIONAL ACCESSORIES

RM.323.02P – RagnaMig 323 P-SYN Package (Portable)

RM.323.03P – RagnaMig 323 P-SYN Package (Trolley)

RM.323.04P – RagnaMig 323 P-SYN Package (Trolley Eco)

RM.323.05P – RagnaMig 323 P-SYN Package (Water Cooled)

ICT2999-36 – Welding Torch MIG 36 4m

ICT2799-36 – Welding Torch Mig 25 4m

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

ICL0116 – Spool Gun 24 6m

IOZ6906-36 – Welding Torch TIG 17 4m

10W6906-36 – Welding Torch TIG 26 4m

RACC.2500001 – Earth Cable 25mm<sup>2</sup> 3m & Earth Clamp 300A

RACC.2500002 – Welding Cable 25mm<sup>2</sup> 3m & Electrode Holder 300A

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

### 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