

FALCON 505







1920.4037 MIG/MAG and MMA Welding Equipment - 380V/440V
1920.4044 MIG/MAG and MMA Welding Equipment - 380V/440V Refrigerated

1920.4052 MIG/MAG and MMA Welding Equipment - 220V

1920.4053 MIG/MAG and MMA Welding Equipment - 220V Refrigerated

TECHINCAL DATA

- MIG/MAG and MMA Multiprocess Equipment (Coated Electrode);
- Advanced inverter technology (IGBT);
- · Digital control system;
- · Operating modes: synergistic and non-synergistic;
- Trigger activation modes: 2T/4T;
- Weld bead timing (Spot Welding);
- Adjustment of the inductance to control the spatter rate;
- Arc Force feature in MMA mode;
- Protection system against overheating, overcurrent and overvoltage;
- Compensation against supply voltage fluctuation;
- Error code indicated on the equipment panel;
- Pre and Post Gas Flow.



MAIN BENEFITS



















MAIN APPLICATIONS



Wire Speed

TRUCKS



CHASSIS



AGRICULTURAL IMPLEMENTS



CRANES



BOILERS AND PIPING



Power Source

220V, 380V and 440V (50/60 Hz) - Three phase

Up to 20m/min

	2201, 3001 and 1.01 (30, 00 112) 111100 phase	
	MIG/MAG	MMA
Duty Cycle (40° C)	500 A - 40% (220V) 500 A - 60% (380V/440V) 387 A - 80% (220V) 387 A - 100% (380V/440V)	450 A - 40% (220V) 450 A - 60% (380V/440V) 349 A - 80% (220V) 349 A -100% (380V/440V)
Max. Power	24.7 kW	21.6 kW
Current Range	20~500 A	20~450 A
Voltage Range	15 a 39 V	15 a 38 V
No-load voltage	70 V	
No-load absorbed power	60 W	
Efficiency	85%	
Power factor	0,93	
Insulation class	F	
IP Rating	IP21S	
MIG/MAG wire gauge	ø 1,00 ~ 1,60mm	

Coated Electrode type (MMA) E6010, E6013 e E7018

Electrode Diameter Até 6,0mm

Power source weight 35 kg
Feeder weight 10 kg
Cooling Unit weight 15 kg

 Power source dimensions (L x A x C)
 280 x 480 x 622mm

 Feeder dimensions (L x A x C)
 200 x 400 x 600mm

 Cooling unit dimensions (L x A x C)
 280 x 305 x 622mm

Manufacturing Normative IEC 60974-1

INCLUDED ACCESSORIES

Wire Feeder

12.8 Quick Coupling 70mm² x 3.00m earth cable (0801.6316)

5m air cooled torch power source extension

0.80 / 1.00mm carbon steel roller (1916.0503) 1.20 / 1.60mm carbon steel roller (1916.0504)





NON INCLUDED ACCESSORIES

Argon Regulator (1400.8130)

CO2 Regulator (1400.8132

MIG/MAG torch SU535 (0500.5085)

MIG/MAG torch SU735 refrigerated (0500.6155)

MIG/MAG torch SU736 Semi refrigerated (0500.6220)

Sumig Cooler unit (1916.0505)

12.80mm 50.0mm² Quick Coupling 3.0m Electrode
Holder (0801.6266)

Falcon 405 / 505 cart (1916.0500)



- Digital voltmeter/ammeter available at the equipment panel;
- Low energy consumption, high power factor and electrical efficiency;
- Robust and versatile equipment, with excellent arc stability and low spatter rate, allowing production and inspection welds;
- Recommended especially for welding thin plates with a thickness of ≥ 2mm of carbon and stainless steel;
- External wire feeder with 4 rollers traction system;
- Easy-to-understand and easy-to-operate panel, which can be used in synergistic and conventional mode with just a simple touch;
- Possible to weld electrodes up to 6mm in diameter in the MMA process (Coated Electrode);
- It can operate at 220V, 380V and 440V, by manually selecting the power supply voltage;
- Special menu for adjusting the following features: Pre gas flow, Post gas flow, Burnback and manual feed rate;
- Function to control the current and voltage at the end of the weld bead (crater).







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