

MIG WELDER

● Light Industrial

● Medium Industrial

MULTI PROCESS 221 SM

The Multiprocess 221 SM is a powerful, portable, and very intelligent welding machine. This unit is capable of MIG welding, stick welding and TIG welding with a lift start in manual or synergic mode. The combination of synergic control and job programming ability makes this unit user-friendly for less experienced welders looking to perform high quality welds. It features a user-friendly panel which walks the user through setup one step at a time and then automatically adjusts its parameters to meet the required use. It's like having your own personal welding expert right there with you! The voltage of this unit is selectable between 230 V (±15%) or 115 V (±15%) which makes it suitable for any single voltage electrical network. It is the perfect choice for anyone; from a novice to the professional production welder who has speed and quality in mind. The Multiprocess 221 SM is capable of welding with Canaweld's spool gun which ensures trouble-free Aluminum MIG welding too.

FEATURES

- Possibility of Welding Processes MIG, Flux Cored, Gasless Wires, TIG, Stick Welding .
- Tested in (104°F/40°C), Designed for Toughest Conditions .
- Digital control of the welding parameters based on the material or gas type and the wire diameter
- Built-in polarity changeover feature for most common gas and gasless wires and Lift TIG Arc start
- Professional wire feeding mechanism with 30mm rolls
- Sealed (Dust proof), powerful and durable motor of wire feeder
- Replaceable Double groove rolls, no tools needed
- "Energy Saving" function to operate the power source cooling fan when necessary
- Spool Gun Compatible
- Adjustable Voltage, Wire Speed, Wave Form, Burn back (in MIG Process)
- Possibility of Selection of Material, Wire Diameter, 2T/4T (in MIG Process)
- Adjustable Current, Down Slope, (In TIG Process)
- Adjustable Current, Arc Force (In Stick Welding Process)
- Working possibility with Both 8 and 12-inch (203 and 305 mm) Wire Spool Size
- Metal face panel
- Comprehensive 3 Year Warranty



PROCESSES



GMAW - SOLID WIRE
FCAW - FLUX - CORE WIRE



GTAW (DC) - SCRATCH / LIFT START



SMAW



SYNERGIC

MULTI PROCESS 221 SM Technical Specification

Process	MIG/ Flux Cored	TIG (Lift ARC)	Stick Electrode	MIG/ Flux Cored	TIG (Lift ARC)	Stick Electrode
Input Voltage, Single Phase, 50/60 Hz	208 to 240 V(±10%)			105 to 120 V(±10%)		
Primary Current@Max Welding Current	25.3 A	19.5A	29.8 A	31.5	23.8	27.5
Maximum Primary Effective Current (I1 eff max)	13 A	9.8 A	15.5 A	18	17.5	18
Technology of Adjustment (Maual / Synergic)	Manual or Synergic					
Welding Current Range	10 - 210 A	10 - 200 A	10 - 200 A	10 - 140 A	10 - 140 A	10 - 110 A
Duty Cycle @ Maximum Welding Current in 104° F (40° C)	20%	20%	20%	25%	40%	30%
Welding Current @ 100% Duty Cycle in 104° F (40° C)	120 A	120 A	120 A	90 A	110 A	75 A
Welding Current @ 60% Duty Cycle in 104° F (40° C)	130 A	130 A	130 A	100 A	130 A	85 A
Open Circuit Voltage : Volt	47 V			47 V		
Solid Steel Wire Size Range : inch (mm)	0.023 - 0.040 in (0.6 - 1 mm)			0.023 - 0.040 in (0.6 - 1 mm)		
Stainless steel Wire Size Range : inch (mm)	0.023 - 0.040 in (0.6 - 1 mm)			0.023 - 0.040 in (0.6 - 1 mm)		
Flux-cored Wire Size Range : inch (mm)	0.030 - 0.045 in (0.8 - 1.2 mm)			0.030 - 0.045 in (0.8 - 1.2 mm)		
Aluminum Wire Size Range : inch (mm)	0.030 - 0.045 in (0.8 - 1.2 mm)			0.030 - 0.045 in (0.8 - 1.2 mm)		
Max Wire Feeder speed : ipm (m/min)	656 ipm (16.4 m / min)			400 ipm (10 m/min)		
Wire Feeder Mechanism Material	Metal					
Wire Spool Size : inch (mm)	8 or 12 inch (203 or 305 mm)					
Weight : lb (Kg)	49 lb (22.5 Kg)					
Dimensions Including Handle (D,W,H) : inch (mm)	24.4x 13.3 x 16.1 inch (620 x 340 x 410 mm)					

CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE

Available Models :





Multi process 221 SM , Silver (PLC7580158)
Including MIG Gun Torch

Multi process 221 SM , Gold (PLC7580159)
Including MIG Gun, TIG Torch, TIG Accessories and TIG Tungsten











Multi process 221 SM , Gold Plus (PLC7580160)
Including MIG Gun, TIG Torch, Swivel Caster Package, TIG Accessories and TIG Tungsten



Upgrade to "Gold Plus" and get additional :






TIG Torch 200 AMP Air Cooled (26 SERIES)	CWSG26FX-S1-12-SL-GS4-9Pin	
TIG Consumable Kit	ALPTORCHCON26	
TIG Tungsten Electrode MIX of 6	CTE500-RGB-116332	
SWIVELCASTER Package for MIG Machines	TGL2280100	

OPTIONAL ACCESSORIES


PRODUCT	PART NO.	
MIG Spool Gun CST251 (3 Meter)	CWICL08131	
MIG Spool Gun CST251 (4 Meter)	CWICL08141	
MIG Spool Gun 360 AMP (9pin)	CWPGSP360A-24-N-80ER-9pin	
MIG Spool Gun 360 AMP (5pin)	CWPGSP360A-24-N-80ER-5pin	
Welder Cart For Single Phase Machines	TGJ2250681	
Ground Clamp Set (250 A - 20 ft), AWG 4	ALP1980448	
Ground Clamp Set (250 A - 30 ft), AWG 4	ALP1980451	
Ground Clamp Set (250 A - 50 ft), AWG 4	ALP1980452	
Electrode Holder Set (250 A - 20 ft), AWG 4	ALP2280449	
Electrode Holder Set (250 A - 30 ft), AWG 4	ALP2280470	

What Is Included

MULTI PROCESS 221 SM (SILVER PACKAGE)

ITEM	PART NO.	
Multi Process 221 SM	PLM7580150	
Ground Clamp Set (250 A - 10 ft), AWG 4	ALP1980449	
Electrode Holder Set (250 A - 10 ft), AWG 4	ALP2280095	
MIG Torch Tweco® Style (200 A - 10 ft)	CWGPWTW200-10E	
Regulator	CW-RLV-150-60CF-AR	
Gas Welding Hose	TLJ1080188	
MIG Drive Roll (0.030-0.035 Inch V Groove)	TGL0480458	
MIG Drive Roll (0.030-0.040 Inch V Groove)	TGL0480462	
MIG Drive Roll (0.030-0.035 Inch Knurled)	TGL0480464	
MIG Torch Tweco® Style Consumable Kits	ALPMIGCON	
Adapter Plug 230-120V	CGA9980060	
Spool Holder Adapter 12" to 8"	CGA2890928	

Upgrade to "Gold" and get additional :

TIG Torch 200 AMP Air Cooled (26 SERIES)	CWSG26FX-S1-12-SL-GS4-9Pin	
TIG Consumable Kit	ALPTORCHCON26	
TIG Tungsten Electrode MIX of 6	CTE500-RGB-116332	