

MULTI PROCESS

● Medium Industrial ● Heavy Industrial

MULTIPROCESS 301-SL

The Multiprocess 301-SL is an industrial, heavy duty, powerful, Synergetic, intelligent, and portable welding machine equipped with an LCD Panel. This unit is an inverter-based arc welding power source optimized for MIG, Flux-Cored, Gasless Wires, TIG lift, and Stick welding in manual or synergic mode.

This welding machine offers excellent welding performance and various professional functions. It is portable and easy to transport. The advanced static characteristic and waveform controls make it the best professional choice for all industrial workshops. A 5-inch color display, as well as various automatic controls, make the setup and operation quick and easy. The Multiprocess 301-SL is capable of welding with Canaweld's spool guns which ensures trouble-free Aluminum MIG welding. The MIG synergic control makes this unit user-friendly for welders looking to perform high quality welds. Equipped with an LCD, it guides the user step by step to automatically adjust the parameters based on the required usage. It's like having your own personal welding expert right there with you! It is the perfect choice for anyone; from a novice to the professional production welder who has speed and quality in mind.

FEATURES

- A 5-inch LCD allows both experienced, and novice users to operate the device quickly and easily, ensures correct setting and parameter selection, reduces parameter setting time, and increases actual welding time.
- Synergic control provides pre-set weld parameters, improves usability, and enables operators of all skill levels to perform their tasks correctly.
- Possibility of welding processes MIG, Flux Cored, Gasless Wires, TIG lift, 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.
- Manual polarity changeover feature for most common gas and gasless wires, Stick electrodes and Lift TIG process.
- Professional and heavy-duty wire feeding mechanism with 37mm rolls.
- Sealed (Dust proof), powerful, heavy-duty, and durable wire feeder motor.
- Replaceable Double groove rolls, no tools needed.



PROCESSES



GMAW - SOLID WIRE
FCAW - FLUX CORED WIRE



GTAW (DC) - SCRATCH / LIFT START



SMAW

- Spool Gun Compatible.
- Adjustable Voltage, Wire Speed, Wave Form, Burn back (in MIG process).
- Possibility of Selection of the Material, Wire Diameter, Gas, 2T/4T (in MIG process).
- Adjustable Amperage, Final Slope, Post Flow, (In TIG process).
- Adjustable Amperage, Arc Force and Material Thickness Selection (In Stick welding process).
- Working possibility with Both 8 and 12-inch (203 and 305 mm) wire spool Size.
- Equipped with flip-up doors and specific mechanism to assist the movement and ability to hold the doors in place at an angle for ease of access.
- Metal face panel.
- Generator compatible.
- Equipped with Lockable Swivel Casters.
- Comprehensive 3 years warranty for the machine and 5 years for some parts.
- The machine is equipped with two built in eyebolts for lifting.

Multiprocess 301 SL Technical Specification

Process	Unit	MIG / Flux cored	TIG (Lift Arc)	Stick
Input Voltage, Single Phase, 50/60 Hz	V	208 to 240 (±10%)		
Primary Current@Max Welding Current	A	63	48	54
Maximum Primary Effective Current (I1 eff max)	A	35.7	29	41
Technology of Adjustment (Manual/Synergic)	Manual and Synergic			
Welding Current Range	A	20 - 300	5 - 300	5 - 250
DutyCycle@Maximum Welding Current in104 ^o F(40 ^o C)		30%	30%	60%
Welding Current @ 60% Duty Cycle in 104 ^o F (40 ^o C)	A	250	250	250
Welding Current @ 100% Duty Cycle in 104 ^o F (40 ^o C)	A	200	200	195
Open Circuit Voltage	V	76.5		
Stick Parameters				
Stick Modes				DC
Arc Force				0 - 10
Hot Start				0 - 10
TIG Parameters				
TIG Process Types			Lift	
TIG Process Modes			2T/4T	
Pre-flow			0.0 - 5.0	
Final Slope	sec		0.0 - 10	
Post flow	sec		0.0 - 25.0	
MIG Parameters				
Voltage Renge	V	10.0 - 30.0		
MIG Process Modes		2T/4T		
Pre-flow	sec.	0.0 - 2.0		
Post flow	sec.	0.0 - 10		
Burn back		0 - 10		
Soft Start		0 - 10		
Gas Types		Mixed, Co2, Argon		
Wire Feeder speed	ipm (m/min)	59 - 708 (1.5 - 18)		
Wire Feeder Mechanism / Material		Four Rolls / Metal		
Solid Steel Wire Size Range	in. (mm)	0.030 - 0.045 (0.8 - 1.2)		
Stainless steel Wire Size Range	in. (mm)	0.035 - 0.045 (0.9 - 1.2)		
Flux-cored Wire Size Range	in. (mm)	0.035 - 0.045 (0.9 - 1.2)		
Aluminum Wire Size Range	in. (mm)	0.040 - 0.045 (1.0 - 1.2)		
CuSi Wire Size Range	in. (mm)	0.040 (1.0)		
Wire Spool Size	in. (mm)	8 or 12 (203 or 305)		
Weight	lb. (Kg)	136 lb. (61.5 kg)		
Dimensions Including Handle (D, W, H)	in. (mm)	36.6 x 22.8 x 30.7 (930 X 580 X 780)		

CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE

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MULTIPROCESS 301-SL

The Multiprocess 301-SL is the evolution of 35 years of experience in design and manufacturing.

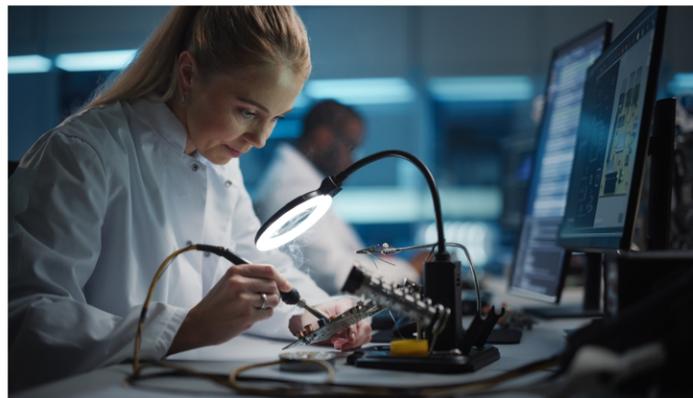


A synergic welding machine helps workers to work quickly without making mistakes and always with high-quality standards. The most advanced digital generators for welding can have selectable memories where all the settings are ready to go, depending on the material to be welded, the diameter of the wire used, and the gas chosen to shield the weld pool from oxidation.

There's also the increased speed, of course. A synergic welding system with a special welding program saves up to 40% and 50% of the time compared to conventional welding processes.

In addition to storing and intuitively selecting programs with pre-set welding parameters, the industrially designed Digital Welding Generator's software allows you to:

- Stabilize the arc
- Reduce the heat input and distortion
- Speed up the welding process
- Control the overall operation of the machine
- Save on current, filler material, and gas



The procedure of designing, production, assembling, and strict quality control of products are according to IEC, CSA, and other international standards. This procedure ensures the highest possible quality level. **Therefore, CANAWELD warranties 3 years for the machines and 5 years for some parts.**

Available Models :

MULTIPROCESS 301 SL- SILVER (PLC7580161)
Including MIG Gun

MULTIPROCESS 301 SL - GOLD (PLC7580162)
Including MIG Gun, TIG Torch, TIG Accessories and TIG Tungsten

MULTIPROCESS 301 SL - ALUMINUM (PLC7580167)
Including MIG Gun, Spool Gun and Spool Gun Accessories



MULTIPROCESS 301 SL- SILVER (PLC7580161)

What Is Included

MULTIPROCESS 301 SL- SILVER (PLC7580161)

ITEM	QTY	Description	PART NO.		
Ground Clamp Set	1	400 A, 10ft, Cable Size AWG 1/0 (53.5 mm) , Cable Plug 75-90	ALP1980458		
Electrode Holder Set	1	400 A, 10ft , Cable Size AWG 1/0 (53.5 mm), Cable Plug 75-90	ALP2280474		
TIG Torch	1	Tweco® style 300 Amp, Euro termination, 15 Ft.	CWPGTW300-15E		
Gas Welding Hose	1	1/4" Gas Hose, 10 ft. including quick connector	TLJ1080188		
MIG Drive Roll	2	Feed Roll 0.030-0.040 Inch Or 0.8-1.0 mm V Groove (Hard Wire)	Cw210810		
	2	Feed Roll 0.035-0.045 Inch Or 0.9-1.1 mm V Groove (Hard Wire)	Cw210911		
	2	Pressure Roll Flat 0.030-0.040 Inch Or 0.8-1.0 mm (Hard Wire)	Cw240810		
	2	Pressure Roll flat 0.035-0.045 Inch Or 0.9-1.1 mm (Hard Wire)	Cw240911		
Adjustable Nozzle Insulator	4	Drive Roll 0.040-0.045 Inch Or 1.0-1.2 mm U Groove (Aluminum)	Cw261012		
	1	MIG Adjustable Nozzle Insulator, Tweco® style, 300 AMP	CWU34A		
MIG Consumable kit	5	Contact Tip 0.8	ALPCON4001		
	5	Contact Tip 0.9			CWU14-30
	5	Contact Tip 1.0			CWU14-35
	5	Contact Tip 1.2			CWU14-40
	1	Mig Gun Nozzle - Self Insulated - Slip-On, tweco tstyle			CWU14-45
Spool Holder Adapter				CWU24A-62	
	1	Spool Holder Adapter 12"(30cm) To 8"(20cm)	CGA2890928		
Regulator	1	UL- Approved MV250 Series, Single Stage For Argon/CO2, Mix	CW-RMV-250-30LM-AR		
MULTIPROCESS 301 SL	1	Machine MULTIPROCESS 301 SL	PLB7580159		

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MULTIPROCESS 301 SL - GOLD (PLC7580162)

Upgrade to "Gold" and get additional :

MULTIPROCESS 301 SL- GOLD (PLC7580162)

ITEM	QTY	Description	PART NO.	
TIG Torch	1	Premium Tig Torch, Air cooled, momentary kit 180 AMP, 12 ft, 9 Pin	CWSG26FX-S1-12-SL-GS4-9 PIN	
TIG Consumable Kit	1	Collet 1.6	ALPTORCHCON26 (1 SET)	
	1	Collet 2.4		
	1	Collet body 1.6		
	1	Collet body 2.4		
	1	TIG Ceramic Cup #7, 11 mm		
	1	TIG Ceramic Cup #8, 12.5 mm		
	1	Back Cap Short		
	1	Back Cap Medium		
	1	Back Cap Long		
TIG Tungsten Electrode	1	Mix Of Six Tungsten Electrode (CWMIX6)	CTE500-RGB-116332	



MULTIPROCESS 301 SL - ALUMINUM (PLC7580167)

Upgrade to "Aluminum" and get additional :

MULTIPROCESS 301 SL- ALUMINUM (PLC7580167)

ITEM	QTY	Description	PART NO.	
Polyamide Liner	1	Polyamide Liner 0.045"-0.062", 15ft	CWUB3564-15	
Spool Gun	1	Spool Gun 300A - 20 Ft, 9 Pin	CWGPG-PLSPTW300-24-P10-60ER	
Spool Gun Drive Roll	1	Spool Gun Drive Roll , U Groove for Aluminum 0.030" (0.8 mm)	CWUGP7020W-08U	
Spool Gun Drive Roll	1	Spool Gun Drive Roll , U Groove for Aluminum 0.035" (0.9 mm)	CWUGP7020W-09U	
Spool Gun Drive Roll	1	Spool Gun Drive Roll, U Groove for Aluminum wire 0.040" (1.0 mm)	CWUGP7020W-10U	
Spool Gun Drive Roll	1	Spool Gun Drive Roll , V Groove for Solid wire 0.030" (0.8 mm)	CWUGP7020W-08	
Spool Gun Drive Roll	1	Spool Gun Drive Roll , V Groove for Solid wire 0.035" (0.9 mm)	CWUGP7020W-09	
Contact Tip	2	Contact tip 0.030" (0.8 mm)	CWU14-30	
Contact Tip	2	Contact tip 0.035" (0.9 mm)	CWU14-35	
Contact Tip	2	Contact tip 0.040" (1.0 mm)	CWU14-40	
Contact Tip	2	Contact tip 0.045" (1.2 mm)	CWU14-45	
Contact Tip	5	Contact Tip 0.052" (1.3 mm)	CWU14-52	
Conical nozzle	1	Mig Gun Nozzle, Self Insulated, Screw On, tweco tstyle 5/8" (16 mm)	CWU23-62	

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MULTIPROCESS 301-SL



Application: Aerospace Industries, Aluminum Industries, Heavy and medium duty Fabrication, Car Industries, Automotive Parts and Bodies, Truck and Trailers manufacturing, Work/Service Trucks, Railcar, Train manufacturing, Machine or parts manufacturing, Medical Industries, Boat/Yacht, shipbuilding, Food Industries and High Purity Processing, Training school, Civil Construction, Mechanical Contractors, Refineries, Installation, Maintenance and repair-field operation, Plumbing & HVAC



A specially developed mechanism allows the door to rest in any desired position. It ensures easy and safer spool changing, as well as machine maintenance.



The machine has a lowered built-in Cylinder storage for ease of changing and maintaining an overall lower centre of gravity for the entire unit.



The machine has a built-in 21.7 x 6.3 x 6.1-inch storage compartment.

Cast aluminum, heavy-duty, high precision, and selectable four or two-drive system ensure more consistent feeding. Ease and quick release of feed rolls, save time. The wire feeder mechanism is designed and built in Switzerland.



OPTIONAL ACCESSORIES

PRODUCT	PART NO.	
Spool Gun CST251, 9 Pin-10ft (3 Meter), 0.030"-0.040" / (0.8-1.0 mm)	CWICL08131	
Spool Gun CST251, 9 Pin-13ft (4 Meter), 0.030"-0.040" / (0.8-1.0 mm)	CWICL08141	
Spool Gun 360 A, 0.030"-0.45" (0.8-1.2 mm) wire Size, 26 Ft, 9 Pin	CWPGSP360A-24-N-80ER-9PIN	
MIG Torch, Tweco® style 300 AMP, Euro termination. 12 Ft.	CWPGTW300-12E	
Electrode holder Set, 400 A, 10ft, Cable Size AWG 1/0 (53.5 mm), Cable Plug 75-90	ALP2280474	
Electrode holder Set, 400 A, 20ft, Cable Size AWG 1/0 (53.5 mm), Cable Plug 75-90	ALP2280475	
Ground Clamp Set, 400 A, 10ft, Cable Size AWG 1/0 (53.5 mm), Cable Plug 75-90	ALP1980458	
Ground Clamp Set, 400 A, 20ft, Cable Size AWG 1/0 (53.5 mm), Cable Plug 75-90	ALP1980459	
TIG Torch Air Cooled (26 SERIES)	CWSG26VFX-SL-12-SL-GS4	
MIG Torch, Tweco® style Consumable Kits	ALPCON4001	
Superior True-View Welding Helmet Series	CWPOWER-990T-BLK	
Classic Duty Welding Helmet Series	CWELITE-550S-BLK	
Premium All-Function Welding Helmet Series	CWPOWER-980S-BLK	
Premium All-Function Welding Helmet Series	CWPOWER-980S-CO	