

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

MIG



GTAW (DC) - SCRATCH / LIFT START

TIG



SMAW

STICK

- 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 in 104 ^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. | CWGPGTW300-15E |  | |
| 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 |  | |
| | 4 | Drive Roll 0.040-0.045 Inch Or 1.0-1.2 mm U Groove (Aluminum) | Cw261012 |  | |
| Adjustable Nozzle Insulator | 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 style | | | CWU14-45 |
| | | | | CWU24A-62 | |
| Spool Holder Adapter | 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 |  | |

MULTI PROCESS




MULTIPROCESS 301-SL



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 | |