

● Medium Industrial ● Heavy Industrial

Canaweld has redefined what's possible by introducing the **MULTIPROCESS 7Pro 221M-Tp** a **Canadian-made** welding machine that sets a new industry standard. This all-in-one powerhouse supports **seven welding processes**, including **MIG Manual/Synergic, MIG Brazing, Flux-Cored, TIG AC Pulse, TIG DC Pulse, TIG DC (No HF), and Stick**. It is designed to **weld all met-als**, including **aluminum, stainless steel, and related alloys**, with **precision and efficiency**. The **Canaweld MULTIPROCESS 7Pro 221M-Tp** is built for **industrial performance**, boasting **one of the highest duty cycles among machines of its power class in the North American market**. Engineered for durability and reliability, this industrial-grade welding system is designed to go anywhere and weld anything, **backed by an unmatched 4-year warranty**, ensuring long-term confidence and superior performance in demanding welding applications. When it comes to power, versatility, and endurance, nothing comes close.

Despite its rugged construction, the **Canaweld MULTIPROCESS 7Pro 221M-Tp** remains portable and user-friendly, featuring a **professional-grade Canaweld wire feeder** and an intuitive color LCD panel for quick setup and clear parameter display. This machine delivers exceptional weld-ing quality on both thin and thick plates across various metals.

Its advanced software allows users to save and recall favorite settings, improving efficiency and precision for repetitive welding tasks while maintaining an exceptionally user-friendly experience. The **MULTIPROCESS 7Pro 221M-Tp** by Canaweld also features advanced waveforms, pulse con-trols, and an HF start in TIG, making it ideal for minimizing distortion in TIG welding, even on very thin materials. Additionally, it is equipped with an auto-controlled fan, which extends the power source lifespan, enhances fan durability, and reduces internal dust buildup.

For enhanced safety in Stick welding, this multi-process welding machine includes a Voltage Reduction Device (VRD) to protect welders from electric shocks.

With its best-in-class performance, superior durability, and all-in-one versatility, the **Canaweld MULTIPROCESS 7Pro 221M-Tp** is built to go anywhere and weld anything—setting a new bench-mark for professional welding solutions in Canada and beyond.

## Features

### Multi-Process Versatility with Industrial Performance

- **7-in-1 Functionality:** Supports MIG Synergic/ MIG Manual, MIG Brazing, Flux-Cored, TIG AC Pulse, TIG DC Pulse, TIG DC (without HF), and Stick Welding, offering maximum flexibility for diverse applications.
- **Rugged Yet Lightweight Design:** Metal face panel with flip doors for easy access and enhanced durability—ideal for on-site and field welding.
- **Versatile Polarity Options:** Manual switching between gas and gasless wires, Stick electrodes, and Lift TIG welding for added convenience.
- **Innovative Wind Tunnel System:** Minimizes dust and debris intake, increasing durability and extending machine lifespan.
- **Auto-Control Fan Cooling:** Activates only when necessary, reducing dust buildup, noise, and overheating risks, while increasing power supply efficiency and fan longevity.
- **Extreme Duty Cycle Testing:** Designed for continuous operation at 104°F (40°C) and 50% humidity, ensuring superior reliability in harsh conditions.
- **Advanced Heat Control:** Reduces distortion while maintaining consistent penetration for high-quality welds.
- **Clean Welds with Minimal Spatter:** Optimized arc control produces stronger, cleaner joints.
- **User-Friendly LCD Display:** Provides a clear, intuitive interface, allowing quick adjustments for both novice and professional welders.
- **Program Memory:** Save and recall up to 10 favorite settings, improving efficiency and streamlining workflow.

- **4-Year Warranty:** Backed by Canaweld's industry-leading support, ensuring long-term reliability.

### MIG, Flux-Cored, and Brazing Features

- **Canaweld Professional Wire Feeder:** Ensures precise and consistent wire feeding, optimizing weld quality and reducing feed-related issues.
- **Comprehensive MIG Controls:** Full control over wire speed, voltage, trigger mode (2T/4T), burnback, pre-flow, post-flow, and slow feed, with additional inductance adjustment for optimal tuning.
- **Spool Gun Mode:** Enhances performance when welding soft metals like aluminum with thin-gauge wires, ensuring smooth feeding and clean welds.
- **MIG Synergic Technology:** Automatically selects and adjusts optimal welding parameters for MIG, MIG Brazing, and Flux-Cored welding, making setup effortless while delivering superior performance for welders of all skill levels.
- **High-Performance MIG Output:** 200A @ 30% duty cycle, 160A @ 60% duty cycle, and 150A @ 100% duty cycle at 104°F (40°C)—ideal for demanding industrial environments.

### TIG AC/DC Pulse Welding Features

- **Comprehensive TIG Control:** Full selection of AC/DC modes, Pulse, Trigger Mode (2T/4T), Preflow, Pre Current, Up Slope, Welding Current, Down Slope, Post Current, Post Flow, and Inductance, providing precise welding adjustments.
- **Pulse TIG Welding:** Enhances arc stability, reduces distortion, and ensures deeper penetration for both

thin and thick materials.

- **High-Frequency (HF) Start:** Provides flawless arc ignition and stability, ensuring seamless TIG welding.
- **Balance Control for Aluminum Welding:** Optimizes the cleaning and penetration cycle, guaranteeing superior weld quality on aluminum.
- **Advanced AC Waveform Selection:**
  - **Progressive Square Wave:** Increases torch speed and penetration.
  - **Sine Wave:** Reduces noise for smoother operation.
  - **Triangular Wave:** Controls heat input and minimizes distortion.
- **Foot Pedal for Amperage Control:** Enables real-time amperage adjustments, crucial for professional TIG welding applications.
- **High-Performance TIG (AC) Output:** 200A @ 40% duty cycle, 170A @ 60% duty cycle, and 160A @ 100% duty cycle at 104°F (40°C)—ideal for industrial applications.

### Stick Welding Features

- **Arc Force Control:** Automatically adjusts arc dynamics to enhance arc stability, maintain a steady arc, and prevent electrode sticking, ensuring a smoother welding experience.
- **Voltage Reduction Device (VRD):** A built-in safety feature that lowers open-circuit voltage (OCV) to minimize electric shock risks, while ensuring optimal voltage when welding.



## PROCESSES



### MULTIPROCESS 7Pro 221M-Tp Technical Specification

Process	MIG /Flux cored	TIG DC	TIG AC	Stick Electrode AC/DC	MIG /Flux cored	TIG DC	TIG AC	Stick Electrode AC/DC
Input Voltage, Single Phase, 50/60 Hz	208 to 240(±10%)				105 to 120(±10%)			
Primary Current @ Rated Maximum Welding Current (@240/120V)	26.8 A	22 A	22 A	30.5 A	30 A	30.5 A	30.5 A	35.7 A
Maximum Primary Effective Current (I1 eff max) (@240/120V)	14.7 A	14 A	15 A	18 A	24 A	25.5 A	25.5 A	25.5 A
Programming and Saving Parameters	Up to 10 JOBS							
Technology of Adjustment (Manual/Synergic)	Manual or Synergic							
Welding Current Range	30 - 200 A	5 - 200 A	5 - 200 A	10 - 200 A	30 - 130 A	5 - 160A	5 - 160 A	10 - 130 A
Duty Cycle @ Rated Maximum Welding Current at 104°F (40°C)	30%@200A	30%@200 A	40%@200 A	30%@200A	50%@130 A	40%@160 A	40%@160 A	40%@130 A
Welding Current @ 100% Duty Cycle at 104°F (40°C)	150 A	150 A	160 A	140 A	110 A	140 A	140 A	100 A
Welding Current @ 60% Duty Cycle at 104°F (40°C)	160 A	160 A	170 A	160 A	125 A	150 A	150 A	120 A
Open Circuit Voltage : Volt	75.5 V				75.5 V			
Solid Steel Wire Size Range : inch (mm)	0.023 – 0.040 in (0.6 – 1.0 mm)				0.023 - 0.040 in (0.6 - 1.0 mm)			
Stainless Steel Wire Size Range : inch (mm)	0.030 - 0.040 in (0.8 - 1.0 mm)				0.030 - 0.040 in (0.8 - 1.0 mm)			
Flux-cored Wire Size Range : inch (mm)	0.030 - 0.040 in (0.8 - 1.0 mm)				0.030 - 0.040 in (0.8 - 1.0 mm)			
Aluminum Wire Size Range : inch (mm)	0.040 in (1.0 mm)				0.040 in (1.0 mm)			
Cusi3 Wire Size Range : inch (mm)	0.030 – 0.040 in (0.8 – 1.0 mm)				0.030 - 0.040 in (0.8 - 1.0 mm)			
Max Wire Feeder speed : ipm (m/min)	649 ipm (16.5 m/min)				590 ipm (15 m/min)			
Wire Feeder Mechanism Material	Metal							
Wire Spool Size : inch (mm)	8 inch (203 mm)							
Weight : lb. (Kg)	50.7 lb.(23 kg)							
Dimensions Including Handle (D, W, H) : inch (mm)	24.8 x 9 x 17.5 inch (630 x 230 x 445 mm)							

CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE

### Available Models :

- In Gold Package you will get : (PLC7PRO221S)
- In Aluminum Package you will get : (PLC7PRO221A)



### MULTIPROCESS 7Pro 221M-Tp - Gold Package

## What Is Included

### MULTIPROCESS 7Pro 221M-Tp- Gold Package (PLC7PRO221S)

ITEM	QTY	Description	PART NO.	
Ground ClampSet	1	Ground Clamp Set 215 A including: 10 ft. Welding Cable AWG 4 (21.2 mm), Cable Plug 35, Ground Clamp 400A	ALP1980440	
Electrode HolderSet	1	Electrode holder Set 215 A including: 10 ft. welding cable AWG 4 (21.2 mm), Cable Plug 35, Electrode Holder EH301	ALP2280095	
MIG Gun M250 Series	1		CWGPGTW250-10E	
Gas Welding Hose	1	1/4" Argon Inert Hose (10 ft)	TLJ1080188	
MIG Drive Rolls Set	2	Set of 2 Feed Rolls 0.035-0.045 Inch Or 0.9-1.1 mm V Groove (Hard Wire)	CW210911	
	2	Feed Roll ø37mm Twin, Quick Change, for hard wire ø0.6+1.0 VT, green + red	cw220610	
	2	Feed Roll ø37mm Twin, Quick Change, for hard wire ø0.8 + 0.9mm VT, blue + colorless	cw220809	
MIG Gun Tweco® Style Consumable Kits	5	Contact Tip 0.030 inch (0.8 mm)	ALPMIGCON	
	5	Contact Tip 0.035 inch (0.9 mm)		
	5	Contact Tip 0.040 inch (1.0 mm)		
	1	Mig Gun Nozzle - Self Insulated - Screw On - tweco® style		
Adapter Plug 230-120V	1		CGA9980060	
Spool Holder Adapter 12" to 8"	1		CGA2890928	
TIG Torch 26	1	CLASSIC TIG 26 TORCH, 12FT C/W ML3550 END, Zip Cover and Snap on	CAN-UWP26FX-12-0B-MSL-GS4-ZS	
TIG Consumable Kit	1	Collet 1/16" (1.6 mm)	ALPTORCHCON26	
	1	Collet 3/32" (2.4 mm)		
	1	Collet body 1/16" (1.6 mm)		
	1	Collet body 3/32" (2.4 mm)		
	1	TIG CERAMIC CUP #8, 12.5 mm		
	1	TIG CERAMIC CUP #7, 11 mm		
	1	BACK CAP SMALL		
	1	BACK CAP MEDIUM		
TIG Tungsten Electrode MIX of 8	1		CTE500-RGBW-116332	
Argon/CO2 Regulator	1	UL-Approved LV150 Series, Single Stage For CO2/Argon, Mix	CW-RLV-150-60CF-AR	
Foot Pedal	1	Foot Pedal 6 Pin for TIG AC/DC 301 and 401	TGJ2580474	



**MULTIPROCESS 7Pro 221M-Tp- Aluminum Package**

### Upgrade to “Aluminum” and get additional:

#### MULTIPROCESS 7Pro 221M-Tp- Aluminum Package (PLC7PRO221A)

ITEM	QTY	Description	PART NO.	
MIG Spool Gun CST251	1	Tweco® Style, amp250, length 10F	CWICL08131	
MIG Spool Gun CST251 Consumable Set	2	Contact Tip 0.030 inch (0.8 mm)	ALPCST251	
	2	Contact Tip 0.035 inch (0.9 mm)		
	2	Contact Tip 0.040 inch (1.0 mm)		
	2	Contact Tip 0.045 inch (1.2 mm)		
	1	Drive Roll, 0.030-0.040 inch (0.8-1.0 mm) U Groove		
	1	Drive Roll, 0.030-0.035 inch (0.8-0.9 mm) U Groove		
	1	Drive Roll, 0.030-0.035 inch (0.8-0.9 mm) V Groove		
	1	MIG Gun Diffuser- U52- Tweco Style		
	1	Nozzle Adjustable Push On 22-50, Tweco Style, 12.8 mm, (Compatibale Insulator U52, U32 only)		

**Applications:** Ideal for industries where weld quality and appearance matter most, including:

- Aerospace
- Aluminum Industries
- Automotive Parts and Bodies
- Passenger Car Industries
- Training school
- Metal Building
- Manufacturing
- Medical Industries
- Railcar
- Boat/Yacht
- Shipbuilding
- Light Fabrication
- Food Industries and High Purity Processing
- Mechanical Contractors



- Installation
- Restoring
- Maintenance and repair-field operation
- Plumbing & HVAC
- Civil Construction
- Infrastructure & roofing
- Work/Service Trucks
- Farm and Ranch

### Weldable Metals :

- Steel
- Stainless Steel
- Aluminium (with Spool Gun)
- Chrome Moly
- Titanium
- Copper



### OPTIONAL ACCESSORIES

PRODUCT	PART NO.	
Foot Pedal	TGJ2580470	
Ground Clamp Set	ALP1980441	
Ground Clamp Set	ALP1980451	
Ground Clamp Set	ALP1980452	
Electrode Holder Set	ALP2280449	
Electrode Holder Set	ALP2280470	
Electrode Holder Set	ALP2280472	
Gas Fitting	CGA3180121	
C5 Series Helmets	CWELITE-550S-BLK	
C8 Series Helmets	CWPOWER-980S-BLK	
C8 Series Helmets	CWPOWER-980S-CO	
Argon/CO2 Regulator	CW-RMV-250-30LM-AR	
MIG Spool Gun CST251	CWICL08131	
MIG Spool Gun CST251	CWICL08161	
MIG Spool Gun CST251	CWGPG-PGSP360A-24-P10-60BE	
Welding Cart (Single and Double Gas Bottle Variations)	TR4-D1-2	