

- Medium Industrial
- Heavy Industrial

Multiprocess 5 Pro 501m / 5 Pro 401m

The Canaweld Multi-process 5 Pro 501m / 401m are heavy-duty, industrial-grade MIG Synergic/Multiprocess welding machines designed for professional fabricators and industrial users requiring precision, power, and durability. These machines are ideal for applications requiring high productivity, stable arc performance, simplified setup, and consistent, high-quality weld results across a wide range of materials and thicknesses.

Featuring advanced Canadian-made inverter technology, they deliver excellent arc stability and highly efficient operation with low power consumption.

Lightweight and easy to move, they are ideal for workshops, job sites, and field operations.

Comprehensive Welding Process Capabilities

Supports MIG (Manual & Synergic), MIG Brazing, Flux-Cored, TIG DC (Lift Start, no HF), Stick welding, and Arc Air Gouging.

This true multi-process capability provides maximum flexibility across a wide range of industrial applications. Versatile polarity switching allows operation with gas or gasless wires, Stick electrodes, and Lift TIG.

MIG Synergic Function

The machine features both MIG Manual and MIG Synergic modes. In Synergic mode, welding parameters are automatically optimized based on material type, thickness, and shielding gas, reducing setup time and operator dependency while ensuring stable arc performance.

Welding parameters can be saved and recalled, enabling repeatability, faster setup for recurring jobs, and consistent weld quality.

This process is especially suitable for industrial production, repetitive tasks, and applications where uniform weld appearance, reduced spatter, and high efficiency are essential.

Professional MIG Manual / Synergic Controls

- Full control over wire speed and voltage
- Adjustable trigger modes (2T / 4T / Spot)
- Adjustable burn-back, pre-flow, post-flow, and slow feed
- Adjustable inductance and voltage compensation
- Synergic control for automatic parameter optimization based on material, thickness, and shielding gas

Control & Display

- Large, user-friendly LCD panel with all parameters visible at a glance
- Save and recall welding programs for consistent, high-quality results
- Smart feeder connection: parameter control is handled through the power source LCD when the feeder is disconnected and automatically transferred to the feeder LCD when connected.



PROCESSES



Weldable Metals

- Carbon Steel
- Stainless Steel
- Low Alloy Steel (including Chrome-Moly)
- Cast Iron
- Copper & Copper Alloys
- Nickel Alloys
- Titanium
- Silicon Bronze
- Aluminum & Aluminum Alloys (MIG process only)

- Medium Industrial
- Heavy Industrial

MIG Parameters

MIG Process Modes	Manual, Synergic, Pulse, Double Pulse
MIG Adjustable Parameters & Controls	Full control over wire speed, voltage, burn-back, pre-flow, post-flow, slow feed, inductance, (2T/4T/Spot) trigger mode
MIG Pulse Adjustable Parameters & Controls	Full control over wire speed, voltage, burn-back, pre-flow, post-flow, slow feed, inductance, (2T/4T/4T+/Spot) trigger mode
MIG Double Pulse Adjustable Parameters & Controls	Full control over wire speed, voltage, burn-back, pre-flow, post-flow, slow feed, inductance, (2T/4T/4T+/Spot) trigger mode
Memory Function	Save and Recall Settings
Parameter Control	Via Power Source or Wire Feeder LCD Panel; automatic control via Wire Feeder when connected
MIG Gun Types	Regular MIG Gun, Spool Gun, Pull Gun (Water-Cooled or Air-Cooled)

Wire Feeder Specifications

Voltage	V	24, DC
Wire Feeder Rolls		Selectable 2-Roll or 4-Roll, Quick Release, AL, SS, Steel
Wire Diameter		0.030, 0.035, 0.040, 0.045 in (0.8, 0.9, 1.0, 1.2 mm)
Wire Feeder Mechanism		Heavy-Duty, Aluminum Chassis, All Rolls on Ball bearings
Wire Spool Protection		Yes
Spool Diameter	in (mm)	12 (300)
Cooling Unit		Optional (See Cooling Units information on the website)
Control Via LCD Panel (Wire Feeder or Power Source)		Yes
Memory Function		Save and Recall Settings
Caster Wheels		Installed as standard
Interconnecting Cable Length (Wire Feeder to Power Source)	ft (m)	16 (5) (Other lengths optional)
Mounting Options		Rotatable on Power Source or suspension mounting
Push Pull		Optional
Spool Gun		Optional
Compatibility		Compatible with all Canaweld power sources
Wire Feeder Weight (Excluding Interconnecting Cable)	lb (kg)	30 (13.5)
Wire Feeder Dimensions	in (mm)	23.6 X 9.4 X 17.1 (600 X 240 X 435)

CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE

Stick and gouging Parameters

Adjustable parameters		Current, Arc Force, Hot Start
Max. Electrode Diameter (Stick)	in (mm)	3/16 (4.8)
Max. Electrode Diameter (Gouging)	in (mm)	1/4 (6.4)

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5Pro 401-M Technical Specification

All Process	Multiprocess: MIG, MIG Brazing, MIG Pulse, MIG Double Pulse, Stick, Gouging, TIG DC				
Process	Unit	MIG	TIG DC(Lift)	Stick	Gouging
General Technical Information		DC	DC	DC	DC
Input Voltage Range (Three Phase, 50/60 Hz)	V	575 V (±10%)			
Primary Current@ Rated Max. Welding Current (575V)	A	24.5	22.7	25	25
Max. Primary Effective Current (I1 eff max.) (575V)	A	24.5	22.7	25	25
Output Current Range	A	30 - 400	10 - 400	10 - 400	10 - 400
Duty Cycle @ Rated Max. Welding Current (104°F / 40° C)	A	100%@400A			
Welding Current @ 100% Duty Cycle (104°F / 40°C)	A	400	400	400	400
Welding Current @ 60% Duty Cycle (104°F / 40°C)	A	–	–	–	–
Open Circuit Voltage	V	97 (VRD:14.5)			
Min. (Continuous / Running output) Power of Generator	KVA	40			

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5Pro 401-M Technical Specification

All Process	Multiprocess: MIG, MIG Brazing, MIG Pulse, MIG Double Pulse, Stick, Gouging, TIG DC				
Process	Unit	MIG	TIG DC(Lift)	Stick	Gouging
General Technical Information		DC	DC	DC	DC
Input Voltage Range (Three Phase, 50/60 Hz)	V	575 V (±10%)			
Primary Current@ Rated Max. Welding Current (575V)	A	33.8	31.7	34.3	34.3
Max. Primary Effective Current (I1 eff max.) (575V)	A	24.5	23	25	25
Output Current Range	A	30 - 500	10 - 500	10 - 500	60 - 500
Duty Cycle @ Rated Max. Welding Current (104°F / 40° C)	A	40%@500A			
Welding Current @ 100% Duty Cycle (104°F / 40°C)	A	400	400	400	400
Welding Current @ 60% Duty Cycle (104°F / 40°C)	A	450	450	450	450
Open Circuit Voltage	V	97 (VRD:14.5)			
Min. (Continuous / Running output) Power of Generator	KVA	50			

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General Parameters

Weldable Metals		Carbon Steel, Stainless Steel, Low Alloy Steel (including Chrome-Moly), Cast Iron, Copper & Copper Alloys, Nickel Alloys, Titanium, Silicon Bronze, Aluminum & Aluminum Alloys (MIG process only)
Power Source Weight	lb (kg)	123 (56)
Power Source Dimensions (Including Handle) (D, W, H)	in (mm)	26.7 x 12.6 x 20.8 (680 X 320X 530)

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Power & Duty Cycle

Duty cycle performance at 40°C (104°F) (IEC / CSA standards):

- **5 Pro 501m: 500 A @ 40%, 400 A @ 60%, 300 A @ 100%**
- **5 Pro 401m: 400 A @ 60%, 300 A @ 100%**

Both models deliver continuous heavy-duty performance for medium and heavy fabrication applications.

Smart Cooling, Safety & Protection

- Optional auto-controlled fan cooling reduces noise, dust intake, and energy consumption
- Wind-tunnel cooling system minimizes internal dust and debris, extending service life
- Integrated VRD (Voltage Reduction Device) ensures operator safety during idle stick welding
- Highly precise temperature monitoring and control system to prevent overload conditions and ensure safe operation

Wire Feeder

- Heavy-duty, durable industrial feeder with selectable 2-roll or 4-roll drive and quick-release rolls
- High-torque motor for smooth, stable, and precise wire feeding
- Push-pull option for soft wires such as aluminum, with synchronized feeder and gun motors
- Push-pull synchronized operation for soft wires
- Integrated LCD panel on the wire feeder allowing full adjustment of welding parameters directly at the feeder, enabling precise control at the closest point to the workpiece
- Long interconnection cable (minimum 16 ft / 5 m) for excellent access to the workpiece and enhanced mobility
- Lightweight, compact design, suitable for suspended installation if required
- Top-mounted wire feeder design with quick installation and rotational capability for flexible positioning
- Four industrial caster wheels supplied as standard for smooth and easy transport
- Protective plastic spool cover preventing dust ingress and wire contamination, ensuring consistent weld quality, with integrated transparent section for easy monitoring of wire levels and timely spool replacement



Reliability & Quality Control

- CSA Or QPS-certified, Canadian-built
- Validated through routine and type testing in accordance with IEC, CSA, and international standards
- Extensive testing exceeding international standards, continuously monitored through advanced computerized test systems, under extreme temperature conditions (0°C – 50°C / 32°F – 122°F) and 50% humidity to ensure consistent performance, long-term durability, and uncompromising reliability in the most demanding industrial environments
- Backed by Canaweld's industry-leading 4-year warranty, with up to 5-year coverage on select components



Application

- Aerospace & Automotive Manufacturing – Parts, body assemblies, and aluminum structures
- Heavy & Medium-Duty Fabrication
- Pressure vessels, storage tanks, boilers, heat exchangers, and general construction
- Marine & Boat/Yacht Construction – Aluminum and stainless steel structures
- Rail & Vehicle Manufacturing – Railcars, trains, and specialized vehicles
- Technical Training & Education – Vocational schools and technical institutions
- Maintenance, Repair & Field Operations – Industrial maintenance, piping systems, and oil & gas pipelines
- Stainless Steel & Aluminum Fabrication – Food, pharmaceutical, and marine industries

Available Models

- Air-Cooled Silver
- Air-Cooled Gold
- Air-Cooled Aluminum
- Water-Cooled Gold



Available Models :











- PLB7580196
MULTIPROCESS 5PRO 501M AIR COOLED SILVER
- PLB7580197
MULTIPROCESS 5PRO 501M AIR COOLED GOLD
- PLB7580198
MULTIPROCESS 5PRO 501M AIR COOLED ALUMINUM
- PLB7580199
MULTIPROCESS 5PRO 501M WATER COOLED GOLD

- PLB7580185
MULTIPROCESS 5PRO 401M AIR COOLED SILVER
- PLB7580186
MULTIPROCESS 5PRO 401M AIR COOLED GOLD
- PLB7580187
MULTIPROCESS 5PRO 401M AIR COOLED ALUMINUM
- PLB7580188
MULTIPROCESS 5PRO 401M WATER COOLED GOLD

What Is Included








MULTIPROCESS 5PRO 501M AIR COOLED SILVER (PLB7580196) MULTIPROCESS 5PRO 401M AIR COOLED SILVER (PLB7580185)

ITEM	QTY	Description	PART NO.	
Ground ClampSet	1	Ground Clamp Set 500A, 10ft, Cable SizeAWG 3/0 (85 mm ²) , Cable Plug 70-95	CWGC500A-3/0-10-70D	
MIG Gun	1	MIG Gun M500 Tregaskiss-Style Series, 15ft, Euro Termination	CWMG-500-15-TRGS-ET	
Wire Feeder	1	MIG Feeder SLP-41	CWFSLP41	
Welding Cart	1	Welding Cart TR4-D2 Convertible Single/Double Gas Bottle	CWWC-TR4-D2	
Gas Welding Hose	1	1/4"Argon Gas Hose, 10 ft. including quick connector	TLJ1080188	
Argon/CO2 Regulator	1	UL-Approved MV250Series,SingleStage ForArgon/CO2,Mix	CW-RLV-150-60CF-AR	
MIG Drive Rolls Set	2	Feed roll 35° V-groove for solid wire below side 0.047" - 1/16" (1.2 - 1.6 mm) VT	CW241216	
	2	Pressure roll flat for solid wire upper side without groove 1.2 - 1.6 mm (without Inch)	CW241216	
	4	Feed roll 90° V-groove Knurled for flux cord wire 1.0 - 1.2 mm RT (without Inch)	CW281012	
AdjustableNozzle Insulator	1	MIGAdjustable Nozzle Insulator, Tweco® style, 300 & 400AM	CWU34A	
MIG Gun Tweco®Style Consumable Kits	5	ContactTip 0.030 inch (0.8 mm)	ALPCON4001	
	5	ContactTip 0.035 inch (0.9 mm)		
	5	ContactTip 0.040 inch (1.0 mm)		
	5	ContactTip 0.045 inch (1.2 mm)		
	1	Mig Gun Nozzle -Push On,Adjustable tweco® style		
Spool HolderAdapter	1	Spool HolderAdapter 12"(30cm)To 8"(20cm)	CGA2890928	



Upgrade from “Silver” to “Gold” and get additional:







**MULTIPROCESS 5PRO 501M AIR COOLED GOLD (PLB7580197)
MULTIPROCESS 5PRO 401M AIR COOLED GOLD (PLB7580186)**

ITEM	QTY	Description	PART NO.	
TIG Torch	1	Premium TIG Torch T3FX – Air-Cooled, 240A, 12'	CWTT-AT3-12-FH-9P-PK	
Electrode Holder	1	Electrode Holder Set 500A, 10ft, Cable SizeAWG 3/0 (85 mm ²) , Cable Plug 70-95	CWEL500A-3/0-10-70D	
Gas Welding Hose	1	1/4"Argon Gas Hose, 10 ft. including quick connector	TLJ1080188	
Argon/CO2 Flowmeter	1	UL-Approved Argon/CO2 Flowmeter Regulator FM250, 60 SCFH	CWFM-250-60CF-AR	
Foot Pedal	1	Foot Pedal 6 Pin Connector	TGJ2580474	
TIG ConsumableKit	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 CAPSMALL		
1	BACK CAP MEDIUM			
TIG Tungsten Electrode	1	Mix Of Ten Tungsten Electrode (CWMIX6)	CTE500-RGB-116332	



Upgrade from “Silver” to “Aluminum” and get additional:








MULTIPROCESS 5PRO 501M AIR COOLED ALUMINUM (PLB7580198)
MULTIPROCESS 5PRO 401M AIR COOLED ALUMINUM (PLB7580187)

ITEM	QTY	Description	PART NO.	
Push Pull Gun	1	Push-Pull Gun PM300 Series	CWUGPTW300-24-20E	
Gas Welding Hose	1	1/4"Argon Gas Hose, 10 ft. including quick connector	TLJ1080188	
Argon/CO2 Flowmeter	1	UL-Approved Argon/CO2 Flowmeter Regulator FM250, 60 SCFH	CWFM-250-60CF-AR	
Foot Pedal	1	Foot Pedal 6 Pin Connector	TGJ2580474	
TIG ConsumableKit	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 CAPSMALL		
TIG Tungsten Electrode	1	Mix Of Ten Tungsten Electrode (CWMIX6)	CTE500-RGB-116332	



Upgrade from “Silver” to “Water-Cooled Gold” and get additional:

MULTIPROCESS 5PRO 501M WATER COOLED GOLD (PLB7580199)
MULTIPROCESS 5PRO 401M WATER COOLED GOLD (PLB7580188)

ITEM	QTY	Description	PART NO.	
Cooling Unit	1	CU-H1801 Colling Unit System	CWCOOL-CU-H1801	
TIG Torch	1	Premium TIG Torch 18 Super Cool, 12', Water Cooled	CWTT-W18SCE-12-FH	
Electrode Holder	1	Electrode Holder Set 500A, 10ft, Cable SizeAWG 3/0 (85 mm²) , Cable Plug 70-95	CWEL500A-3/0-10-70D	
Gas Welding Hose	1	1/4"Argon Gas Hose, 10 ft. including quick connector	TLJ1080188	
Argon/CO2 Flowmeter	1	UL-Approved Argon/CO2 Flowmeter Regulator FM250, 60 SCFH	CWFM-250-60CF-AR	
Foot Pedal	1	Foot Pedal 6 Pin Connector	TGJ2580474	
TIG ConsumableKit	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 CAPSMALL		
TIG Tungsten Electrode	1	Mix Of Ten Tungsten Electrode (CWMIX6)	CTE500-RGB-116332	