# AC/DC MULTIPROCESS

Medium Industrial  Heavy Industrial

**MULTIPROCESS 8Pro 421 MP-TP**

# ONE MACHINE. EVERY PROCESS. ZERO COMPROMISE

## HIGH- PERFORMANCE MULTIPROCESS PLATFORM

The 8Pro 421-MpTp is more than a welding machine—it is a complete industrial welding platform built for environments where performance, flexibility, and reliability are essential.
In most multiprocess systems, adding more functions often leads to compromises in the performance of each process.
The 8Pro sets a new standard in multiprocess welding performance.
Delivering up to 420 A, it integrates advanced welding technologies into a unified system, enabling seamless switching between processes without sacrificing performance.
Each process is engineered as a complete professional solution, not a secondary feature.
Whether in **TIG AC/DC Pulse** or high-performance **MIG Pulse**, the system delivers the same level of control, stability, and weld quality.
This is what sets the 8Pro apart: true multiprocess capability without compromise.
Built in Canada and designed for real industrial conditions, it is ready to perform today and adapt to future demands.

## Breaking the 300 A Barrier

With an output of up to 420 A, the 8Pro 421 surpasses the typical 300 A range of many AC/DC Multiprocess machines, setting a new benchmark for power in its class.

## ENGINEERED FOR INDUSTRIAL APPLICATIONS

In real production environments, conditions are never constant—materials change, thickness varies, and production demands evolve throughout the day.
The 8Pro 421 is built to handle this reality, delivering consistent performance across steel, stainless, aluminum, and alloys through advanced power and intelligent control.
Where reliability matters and downtime is costly, the 8Pro platform keeps production running without interruption.

## POWER SOURCE — 8PRO 421-MpTp

Reliable Power. Precision Control.
At the heart of the system is a power source engineered to perform under demanding industrial conditions. With a duty cycle designed for continuous operation:
**420 A @ 35% • 350 A @ 60% • 305 A @ 100% Rated at 40°C (104°F),** it maintains stable output in demanding environments where many machines begin to lose performance stability. But performance is not defined by power alone, it is driven by control.
Built on advanced inverter technology, the 8Pro 421 features a highly responsive control system with an intuitive LCD panel interface, delivering smooth arc characteristics, precise parameter control, and consistent weld quality across all processes.

TIG AC / DC · HF · TIG LIFT · TIG PULSE · MIG PULSE · MIG SYNERGIC MANUAL · LCD · VRD PROTECTION STICK · CC CV · STICK AC / DC · 3 PHASE 575V 50/60 HZ · SAVE JOB · FAN AUTO CONTROL · IEC · CSA OR PS US · ONTARIO MADE · 4 YEAR WARRANTY

| | |
|---|---|
| MIG Manual / Synergic | MIG Pulse |
| Flux Cored | MIG Brazing |
| TIG (AC) Pulse | TIG (DC) Pulse |
| STICK | GOUGING |

## Weldable Metal

- Aluminum and Aluminum Alloys
- Magnesium and Magnesium Alloys
- Carbon and Mild Steel
- HSLA Steels
- Alloy Steels, including Chrome-Moly (4130 / 4140, CrMo)
- Stainless Steels: Austenitic (304 / 316), Ferritic, Martensitic
- Copper and Copper Alloys, including Brass, Bronze, and Silicon Bronze
- Nickel-Based and Heat-Resistant Alloys

### COOLING & DURABILITY OF THE POWER SOURCE

Industrial environments are demanding. Dust, heat, and continuous operation quickly expose design weaknesses.
The 8Pro addresses these challenges with:

- Wind-tunnel cooling system to protect internal components
- Auto-controlled fan to reduce dust intake and noise
- Intelligent thermal management for long-term reliability

The result is a machine that maintains its performance not only when new, but throughout years of operation.

### INTELLIGENT CONTROL & DISPLAY — BUILT FOR REAL WORKFLOW

One of the key advantages of the system is how seamlessly it adapts to the operator's workflow.
When the wire feeder is connected, control automatically shifts to the feeder—right where the operator is working. When disconnected, full control returns to the power source for TIG, Stick, and Gouging.
No manual switching or reconfiguration is required. The system automatically recognizes the configuration and responds accordingly.
Large, user-friendly LCD panels on both the power source and wire feeder provide clear visibility of all parameters at a glance, while the ability to save and recall welding programs ensures consistent, high-quality results.
These features reduce setup time, eliminate confusion, and allow welders to focus on what matters most—the weld.

# All Processes.
# Fully Engineered.

## TIG AC/DC PULSE WELDING


### KEY PERFORMANCE ADVANTAGES

- control – minimizes distortion and burn-through
- Thin metal capability – precise control for very thin materials, including aluminum
- Arc stability – smooth, consistent arc in all welding positions
- Penetration – strong, reliable welds on thicker materials
- Flexibility – adapts to different joints, positions, and material thicknesses
- Electrode life – extended tungsten durability
- Superior weld quality – reduces re-welding and excessive cleanup

### HIGH-PERFORMANCE TIG CAPABILITIES

- Maximum output: 420 A at 40% duty cycle, 350 A at 60% duty cycle
- Capable of TIG welding aluminum and steel up to 11/16 in (17 mm) thickness
- Adjustable AC balance settings, providing full control over cleaning action and penetration during aluminum welding
- Adjustable Pre-flow and Post-flow
- Adjustable Initial amperage and slope
- Adjustable Final amperage and slope
- HF Start delivers reliable, contactless arc ignition, prevents tungsten contamination, extends tungsten life, stabilizes the arc, and supports smooth puddle formation
- Hot Start improves arc ignition, enhances tungsten durability, stabilizes the arc, and increases weld quality at start-up
- Once tungsten diameter is set on the control panel, Hot Start is automatically adjusted
- Remote amperage control via foot pedal, available in both wired and wireless versions for maximum flexibility

# AC/DC MULTIPROCESS

**MULTIPROCESS 8Pro 421 MP-TP**

## ADVANCED TIG FUNCTIONS & CONTROL

TIG AC welding, with or without advanced Pulse
TIG DC welding, with or without advanced Pulse

## WAVEFORM CONTROL

Advanced Square Wave – Provides deeper penetration, higher torch travel speed, and rapid cooling of the weld pool
Sine Wave – Simulates a conventional power source and produces a quieter arc sound
Triangular Wave – Minimizes heat input and distortion on thin aluminum, enabling faster travel speeds

## ADVANCED PULSE PARAMETER CONTROL

All pulse parameters are easily accessible via the LCD interface, including:
Peak and base amperage
Pulse frequency and pulse width

## SPECIALIZED TIG Welding Modes

### Tack TIG Welding

Produces fast, precise tack welds with minimal heat input to improve part alignment during fit-up while reducing distortion and minimizing clamping requirements. Ideal for sheet metal fabrication, pipe fit-up, and precision assembly applications.

### Stitch TIG Welding

Creates controlled intermittent weld segments separated by adjustable cooling intervals. This technique significantly reduces overall heat input and distortion on long seams and thin materials while maintaining excellent weld appearance and joint integrity. Especially suitable for edge joints, lap joints, and heat-sensitive assemblies.

### Cold TIG Welding

An advanced low-heat-input pulsed TIG welding process designed for superior control on thin or heat-sensitive materials. By precisely controlling arc energy and pulse duration, Cold TIG minimizes distortion, reduces the risk of burn-through, and improves weld consistency. Ideal for thin materials, automotive panels, precision fabrication, and delicate components requiring exceptional heat control.

- **Cold Tack TIG Welding**

  Combines the precision of Tack TIG with the low-heat characteristics of pulsed TIG technology to produce extremely clean and accurate tack welds with ultra-low heat input. Improves fit-up quality while minimizing material deformation, discoloration, and post-weld correction.

- **Cold Stitch TIG Welding**

  Uses advanced low-heat pulsed TIG technology to deposit precisely controlled intermittent weld beads with reduced thermal impact. Produces cleaner, stronger welds on thin or heat-sensitive materials while minimizing distortion and maintaining excellent appearance and dimensional stability.

# AC/DC MULTIPROCESS

**MULTIPROCESS 8Pro 421 MP-TP**

## Professional MIG Process Controls

- MIG Synergic Technology: Automatically optimizes parameters based on material thickness, shielding gas, and process selection
- MIG Manual / MIG Synergic Mode: Full control over wire feed speed, voltage, trigger modes (2T / 4T / Spot), burn-back, pre-flow, post-flow, slow feed, and adjustable inductance and voltage compensation
- MIG Pulse Mode: Full control over wire feed speed, voltage, trigger modes (2T / 4T / 4T+ / Spot), burn-back, pre-flow, post-flow, slow feed, and adjustable inductance and voltage compensation
- Double Pulse Mode: Full control over wire feed speed, voltage, trigger modes (2T / 4T / 4T+), burn-back, pre-flow, post-flow, slow feed, and adjustable inductance and voltage compensation, with advanced adjustment of arc length, double pulse duty cycle, double pulse frequency, and double pulse amplitude

### SLP-41T Wire Feeder

- Swiss-made, heavy-duty, industrial-grade wire feeder with a selectable 2-roll or 4-roll drive system and quick-release roll mechanism for fast and reliable operation.
- Supports wire diameters from 0.030 in (0.8 mm) to 1/16 in (1.6 mm), enabling precise filler selection for aluminum, steel, stainless steel, and flux-cored welding across a wide range of applications.
- High-torque motor, ensures smooth, stable, and precise wire feeding
- Push-pull capability for soft wires such as aluminum, with synchronized feeder and gun motors
- Fully synchronized push-pull operation for consistent performance with soft wires
- Integrated LCD panel on the wire feeder allows full adjustment of welding parameters directly at the feeder, providing precise control at the closest point to the workpiece
- Long interconnection cable (minimum 16 ft / 5 m) ensures excellent access to the workpiece and enhanced mobility
- Lightweight, compact design ideal for suspended installation when required.
- Top-mounted wire feeder design with quick installation and rotational capability for flexible positioning and improved operator convenience
- Four industrial caster wheels supplied as standard for smooth and easy transport
- Protective spool cover prevents dust ingress and wire contamination, ensuring consistent weld quality, with an integrated transparent section for easy monitoring of wire levels and timely spool replacement


## STICK WELDING PERFORMANCE

- Delivers outstanding stick welding performance across all industrial electrodes, including cellulosic types
- Advanced Arc Force ensures stable arc behavior and improved penetration control
- Soft Start provides smoother arc ignition and improved weld stability
- Adjustable Hot Start enhances arc initiation and improves weld quality at start-up
- Integrated VRD (Voltage Reduction Device) improves operator safety by reducing idle open-circuit voltage
- Supports both AC and DC stick welding for maximum application flexibility
- Suitable for a wide range of industrial and field applications where reliability is critical

## ARC AIR GOUGING CAPABILITY

- Provides full control of arc air gouging parameters directly from the control panel
- Ensures precise adjustment of current for different electrode sizes and materials
- Delivers stable arc performance for consistent and controlled material removal
- Suitable for joint preparation, defect removal, and back-gouging applications
- Designed for reliable operation in demanding industrial environments

# OPTIONAL CONFIGURATIONS and SYSTEM EXPANSION

### ROBOTIC & COBOTIC INTEGRATION (OPTIONAL)

The modular design of the 8Pro 421-MpTp enables seamless integration with robotic and cobotic welding systems. Advanced penetration control and arc-length stabilization ensure consistent arc performance and highly repeatable weld quality in automated applications, with system control managed directly through the power source for efficient setup and reliable operation.

# DUAL WIRE FEEDER SYSTEM (OPTIONAL)

### Higher Productivity. Lower Operating Costs.

The 8Pro 421-MpTp can be equipped with the optional **SLP-41T Dual MIG Wire Feeder** (available upon special order), ensuring the correct wire is always ready—whether using two different filler materials or two wire diameters.
By eliminating frequent wire spool and torch changes, the system reduces downtime, minimizes wear-part consumption, and significantly lowers operating costs. Exceptionally stable wire feeding makes this solution ideal for construction equipment manufacturing, shipbuilding, pressure vessel fabrication, automotive production, and pipeline welding, without adding system complexity.
When paired with the 8Pro 421-MpTp, it forms a highly efficient welding solution that maximizes uptime and fully utilizes the system's performance potential.


### QUICK & EASY WIRE CHANGE

Each wire feeder rotates around its axis, improving ergonomics and enabling fast, effortless wire changes—even in demanding conditions. Support for wire diameters from 0.030 in (0.8 mm) to 1/16 in (1.6 mm) ensures optimal filler selection for every application.

### INSTANT PROCESS SWITCHING

The welding process can be switched instantly via the torch trigger. Transitions between active process lines occur within milliseconds, ensuring uninterrupted workflow and maximum operational efficiency.

## Reliability & Quality Control

- Certified to IEC and CSA standards by CSA or QPS and manufactured in Canada. Canadian-built
- 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

# AC/DC MULTIPROCESS

**MULTIPROCESS 8Pro 421 MP-TP**

## 8 Pro 421 Mp-Tp Technical Specification

| | | | | | | |
|---|---|---|---|---|---|---|
| **All Process** | Multiprocess: TIG AC/DC, TIG AC/DC Pulse, MIG, MIG Brazing, MIG Pulse, MIG Double Pulse, Stick, Gouging | | | | | |
| | Unit | TIG | | MIG | Stick | Gouging |
| **General Technical Information** | | AC | DC | DC | AC / DC | AC / DC |
| **Input Voltage, Three Phase, 50/60 Hz** | V | 575 (±10%) | | | | |
| **Primary Current@ Rated Max. Welding Current (575V)** | A | 23 | 23 | 27 | 28 | 28 |
| **Max. Primary Effective Current (I1 eff max.) (575V)** | A | 15.5 | 15.5 | 18 | 19 | 19 |
| **Welding Current Range** | A | 10 - 420 | 10 - 420 | 30 - 420 | 10 - 420 | 60 - 420 |
| **Duty Cycle @ Rated Max. Welding Current (104°F / 40° C)** | A | 35%@420A | | | | |
| **Welding Current @ 100% Duty Cycle (104°F / 40°C)** | A | 305 | 315 | 305 | 305 | 305 |
| **Welding Current @ 60% Duty Cycle (104°F / 40°C)** | A | 350 | 360 | 350 | 350 | 350 |
| **Open Circuit Voltage** | V | 97V (VRD:14.5) | | | | |

CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE

## TIG Parameters

| | | |
|---|---|---|
| **TIG Process Types** | | TIG HF, TIG Lift, TIG AC/DC, TIG AC/DC Pulse |
| **TIG Process Modes** | | Pulse/No-Pulse, Tack, Cold Tack, Stitch (HF Mode), Cold Stitch (HF Mode) |
| **Remote Control** | | 2T, 4T, Foot Pedal |
| **TIG Adjustable Parameters** | | Pre Flow, Initial Amperage, Initial slope, Welding Amperage, Base Amperage, Pulse Duty Cycle, Pulse frequency, Final slope, Final Amperage, Post Flow, Tungsten electrode diameter |
| **Wave Shapes (In AC Mode)** | | Advanced Square Wave, Sine wave, Triangular wave, Frequency, Balance Cold Tack, Cold Stitch, Tack, Stitch |
| **Memory Function** | | Save and Recall Settings |
| **Max. Welding Thickness (TIG)** | in (mm) | 5/8 (15.9) |
| **Max. Tungsten Electrode Diameter** | in (mm) | 3/16 (4.8) |
| **Torch Cooling** | | Water-Cooled |

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## 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+) trigger mode, arc length, double pulse duty cycle, double pulse frequency, double pulse amplitude |
| **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) |

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# AC/DC MULTIPROCESS

## MULTIPROCESS 8Pro 421 MP-TP

| Wire Feeder Specifications | | |
|---|---|---|
| **Voltage** | V | 24, DC |
| **Wire Feeder Rolls** | | Selectable 2-Roll or 4-Roll, Quick Release, For AL, CS, SS, FCAW Wires. |
| **Wire Diameter** | in (mm) | 0.030, 0.035, 0.040, 0.045 (0.047), 1/16 in (0.8, 0.9, 1.0, 1.2,1.6 mm) |
| **Type of Rolls** | | U, V, K |
| **Wire Feeder Mechanism** | | Heavy-Duty, Aluminum Chassis, All Rolls on Ball bearings SWISS Made |
| **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 Recal 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) | 31 (14) |
| **Wire Feeder Dimensions** | in (mm) | 23.6 X 9.4 X 16.5 (600 X 240 X 420) |
| CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE | | |

| Stick & 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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| General Parameters | | |
|---|---|---|
| **Weldable Metals** | | Aluminum & Aluminum Alloys; Magnesium Alloys; Carbon Steel; Stainless Steel; Low-Alloy and Tool Steels (e.g., Cr-Mo); Copper & Copper Alloys (including Silicon Bronze); Nickel Alloys; Titanium & Titanium Alloys; Cast Iron; Hardfacing Alloys |
| **Min. (Continious / Running output) Power of Generator** | KVA | 40 |
| **Power Source Weight** | lb (kg) | 131 (59.5) |
| **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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Canaweld
Elevating Welding Equipment Standards

# WIRE FEEDER

● Medium Industrial ● Heavy Industrial

SL-41 SERIES & SLP-41 SERIES

## The wire feeder is not an accessory, It is the heart of the system

## SL/SLP Series MIG Wire Feeders

### Why Wire Feeding Matters

Even the most advanced power source cannot deliver stable performance without precise and consistent wire feeding.

A high-performance wire feeder delivers:

- Smooth and stable arc behavior
- Consistent wire speed and metal transfer
- Reduced spatter and rework
- Higher productivity
- Reliable performance across a wide range of wire sizes and materials


### The Canaweld Solution

The Canaweld SL/SLP Series Wire Feeders are engineered for demanding industrial environments—combining precision, flexibility, and ease of use.

Designed for seamless integration with Canaweld multi-process power sources, these feeders deliver exceptional wire control, robust mechanical construction, and operator-focused functionality.

From thin aluminum to heavy flux-cored applications, the SL/SLP Series ensures stable, consistent feeding under all operating conditions—even in harsh industrial environments.

### Key Advantages

- Swiss-Made Heavy-Duty Feeder Mechanism – Selectable 2-roll or 4-roll drive with quick-release rolls for continuous operation
- High-Torque Drive System – Smooth, stable, and precise wire feeding across all wire types
- Advanced Push-Pull Capability – For soft wires such as aluminum with synchronized feeder and gun motors
- Smart Dual-Control System with Integrated LCD Interface – Full local control at feeder; when disconnected, control transfers to the power source
- Extended Reach & Mobility – Long interconnection cable (minimum 16 ft / 5 m)
- Flexible Installation & Ergonomic Design – Compact, lightweight, rotatable, and suitable for suspended installation
- Industrial Mobility System – Four heavy-duty caster wheels
- Wire Protection & Monitoring System – Protective spool cover with transparent window

### Reliability & Quality Control

- CSA / QPS-certified, Canadian-built
- Validated through routine and type testing in accordance with IEC, CSA, and international standards.

# WIRE FEEDER

## SL-41 SERIES & SLP-41 SERIES

### Technical Specifications

- Drive System: Selectable 2-Roll / 4-Roll
- Feed Rolls: Heavy-duty, 1-1/2 in (37 mm)
- Wire Sizes: 0.030, 0.035, 0.040, 0.045, 1/16 in (0.8, 0.9, 1.0, 1.2, 1.6 mm)
- Wire Types: Solid / Flux-Cored / Metal-Cored / Aluminum
- Control Panel: LCD digital interface with full parameter visibility
- Parameter Memory Function: Yes
- User Interface: User-friendly design for easy setup and adjustment
- Operating Voltage: 24 V (safe operating system)
- Cooling Compatibility: Air-Cooled / Water-Cooled
- Torch Connection: Euro Connector termination
- Mobility: High mobility design with 4 caster wheels
- Mounting Options: Rotatable / Suspended / Machine-Mounted
- Installation Flexibility: Flexible installation configurations

### Applications

- Aerospace and precision industries
- Industrial fabrication
- Structural steel
- Automotive and transportation
- Aluminum welding
- Heavy-duty manufacturing
- High-Torque Drive System – Smooth, stable, and precise wire feeding across all wire types
- Advanced Push-Pull Capability – For soft wires such as aluminum with synchronized feeder and gun motors
- Smart Dual-Control System with Integrated LCD Interface – Full local control at feeder; when disconnected, control transfers to the power source
- Extended Reach & Mobility – Long interconnection cable (minimum 16 ft / 5 m)
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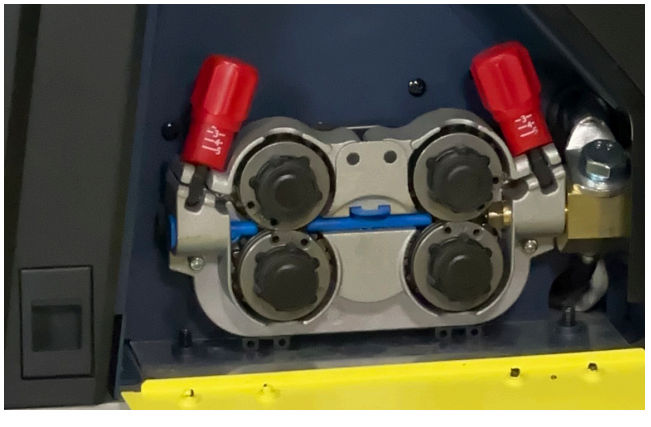

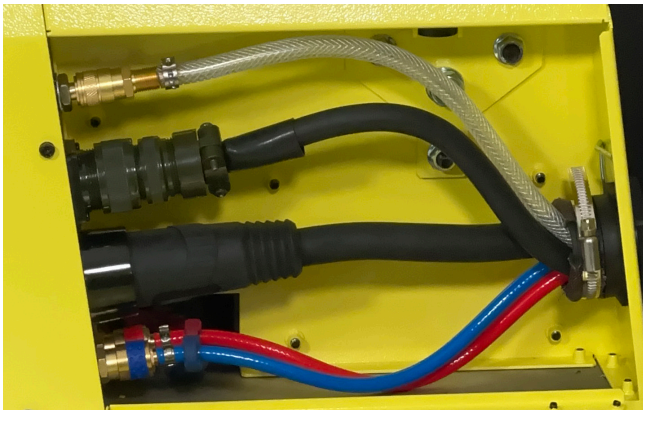

Elevating Welding Equipment Standards

# WIRE FEEDER

## SL-41 SERIES & SLP-41 SERIES

## Specifications

| Wire Feeder Specifications | | |
|---|---|---|
| **Voltage** | V | 24, DC |
| **Wire Feeder Rolls** | | Selectable 2-Roll or 4-Roll, Quick Release, For AL, CS, SS, FCAW Wires. |
| **Wire Diameter** | in (mm) | 0.030, 0.035, 0.040, 0.045 (0.047), 1/16 in (0.8, 0.9, 1.0, 1.2,1.6 mm) |
| **Type of Rolls** | | U, V, K |
| **Wire Feeder Mechanism** | | Heavy-Duty, Aluminum Chassis, All Rolls on Ball bearings SWISS Made |
| **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 Recal 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) | 31 (14) |
| **Wire Feeder Dimensions** | in (mm) | 23.6 X 9.4 X 16.5 (600 X 240 X 420) |

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## Compatibility

| Different Model Compatibility | |
|---|---|
| Canaweld Power source | **Compatible Wire Feeder Model** |
| 5 Pro 401-M / 5 Pro 501-M | **SL-41** |
| 5 Pro 401-Mp / 5 Pro 501-Mp | **SLP-41** |
| TIG AC/DC 351 Pulse | **SLP-41T** |
| TIG AC/DC 421 Pulse | |
| 8 Pro 421 Mp-Tp | |
| 8 Pro 421 Mp-Tp Dual Feeder | |

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# Water Cooling Systems

Medium Industrial  Heavy Industrial

CUH1, CUH1501, CUH1801 Series

## ADVANCED COOLING SYSTEMS FOR WELDING AND CUTTING

Efficient cooling is essential when working with powerful MIG, TIG, and Plasma machines. High welding currents generate significant heat in the torch, which can reduce performance, cause premature wear, and limit operator comfort. Canaweld cooling systems are engineered to maintain stable torch temperatures even under heavy-duty operating conditions.
By circulating coolant through the torch and cables, the system dissipates excess heat, protects critical components, and improves overall welding performance. This allows the use of smaller and lighter torches for better handling, improved maneuverability, and reduced operator fatigue during long working hours. Reduced overheating also helps extend torch and consumable lifespan while lowering maintenance costs.
There are three cooling unit models available in the Canaweld product range. One model connects directly to the electrical mains and can be used with most welding and cutting machines, depending on power requirements. The other two models are specifically designed for Canaweld machines and support full system communication for enhanced torch protection and system control.
The characteristics of all three models, along with compatible machines, can be found in the specification table on the following page.


CU-H1801

### Key Advantages

- Maintains stable torch temperature at high welding currents
- Extends torch and consumable lifespan
- Allows the use of compact and lightweight torches
- Improves operator comfort and productivity
- Supports reliable performance in demanding MIG, TIG, and Plasma applications
- Reduces overheating and maintenance requirements

Whether used in fabrication shops, heavy industry, pipeline work, maintenance applications, or precision welding environments, a dependable cooling system helps ensure maximum efficiency, durability, and consistent performance.


CU-H1501

### Canaweld Water Cooling Systems

Canaweld water Cooling systems provide efficient and reliable cooling for TIG, MIG, and Plasma applications. Designed with advanced engineering and compact construction, they are suitable for both light- and heavy-duty industrial use and are compatible with most welding and cutting machines on the market.

### Canaweld Key Features

- High-efficiency heat exchanger for maximum cooling performance
- Powerful separate fan and smart airflow design for maximum efficiency with minimum size and weight
- Brass regenerative turbine electric pump for reliable pressure and coolant flow, even with long torches or high-altitude operation
- Special filter designed to absorb particles within the coolant circulation system
- Multiple protection systems, including water circulation monitoring and pressure switch protection
- Special coolant liquid supplied with the system to lubricate the pump and protect against freezing during winter conditions
- Available in different cooling capacities to match various torch types and industrial applications.


CU-H1

# Water Cooling Systems

**CUH1, CUH1501, CUH1801 Series**

## Reliability & Quality Control

- Certified to IEC and CSA standards by CSA or QPS and manufactured in Canada. Canadian-built
- Extensive testing exceeding international standards, continuously monitored through advanced computerized test systems, under extreme temperature conditions 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

| Cooling System Specification | | | | |
|---|---|---|---|---|
| **Cooling Unit Series** | | **CU-H1** | **CU-H1501** | **CU-H1801** |
| **Input Voltage Range (Single Phase, 50/60 Hz)** | V | 220-240 (connected directly to the mains) | 220-240 (powered by the welding machine power supply) | |
| **Maximum Primary Current** | A | 1.3 | 1.65 | 1.7 |
| **Cooling Power at 1 L/min (as IEC standard)** | W | 1100 | 1400 | 1800 |
| **Rated Maximum Pressure (50/60 Hz)** | psi (bar) | 54 (3.7) / 68 (4.7) | | |
| **Pressure Switch Safety Protection** | | Yes | Yes | Yes |
| **Flow switch Protection** | | Optional | | |
| **Internal Coolant Filter** | | Yes | Yes | Yes |
| **Power Source Communication for Torch Protection** | | No | Yes | Yes |
| **Tank Capacity** | gal (L) | 1.85 (7) | 1.58 (6) | 1.58 (6) |
| **Recommended Machine Type** | | Any Brand (MIG, Plasma) | Canaweld TIG AC/DC 281 Pulse | Canaweld TIG AC/DC (351/421) Pulse, Multiprocess 5Pro (501/401), 8Pro 421, Multiprocess Dual feeder |
| **Weight** | lb (kg) | 42 (19) | 46 (21) | 61 (28) |
| **Dimensions Including Handle (D x W x H)** | in | 26 x 9.2 x 15.7 (660 x 235 x 400) | 26.5 x 8.2 x 16.5 (675 x 210 x 420) | 30.3 x 12.2 x 15.7 (770 x 310 x 400) |
| *** The IEC-rated cooling capacity is specified for 25°C (77°F) ambient temperature, a coolant flow rate of 1 L/min, and a coolant temperature increase of 40°C (72°F).** | | | | |
| CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE | | | | |