

## Dual Feeder Multiprocess System

**Maximum Productivity. Minimum Downtime.**

### Maximum Flexibility

In modern fabrication environments, every minute spent changing wire spools, adjusting parameters, or switching processes reduces productivity. The Canaweld Dual Feeder Multiprocess System eliminates these interruptions by combining the powerful 8Pro 421-MpTp multiprocess power source with two independent SLP-41T wire feeders.

Two different wire types, diameters, or welding procedures remain ready at all times. Operators can switch instantly between welding programs without changing wire spools, torches, or machine settings.

The result is higher productivity, lower operating costs, reduced consumable usage, and maximum uptime.

Ideal for:

- Heavy Equipment Manufacturing
- Structural Steel Fabrication
- Pressure Vessel Production
- Shipbuilding
- Automotive Manufacturing
- Pipeline Construction

## ONE SYSTEM. EVERY PROCESS

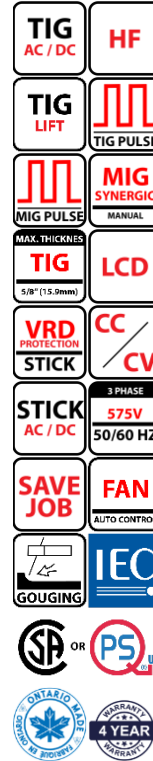
### 8PRO 421-MpTp Multiprocess Power Source

At the heart of the system is the Canaweld 8Pro 421-MpTp, a high-performance industrial welding platform delivering up to 420 A.

Processes include:

- MIG Manual
- MIG Synergic
- MIG Pulse
- Double Pulse MIG
- Flux-Cored Welding
- MIG Brazing
- TIG AC Pulse
- TIG DC Pulse
- Stick (MMA)
- Arc Air Gouging

Unlike conventional multiprocess systems, each welding process is fully optimized to deliver exceptional arc stability, precise control, and consistent weld quality.



- MIG Manual / Synergic
- Flux Cored
- MIG Pulse
- 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

### Industrial Power. Continuous Performance.

Designed for demanding industrial environments:

420 A @ 35%

350 A @ 60%

305 A @ 100%

Rated at 40°C (104°F)

Advanced inverter technology delivers:

- Stable arc performance
- Fast dynamic response
- Precise parameter control
- High energy efficiency
- Long-term reliability

### Cooling & Reliability

Built for continuous industrial operation.

Features include:

- Wind-Tunnel Cooling Technology
- Auto-Controlled Fan System
- Intelligent Thermal Management

Benefits:

- Reduced dust contamination
- Lower noise levels
- Improved cooling efficiency
- Extended component life
- Greater long-term reliability

### Intelligent Control System

#### Control at the Point of Welding

The system automatically transfers control to the active device. When a wire feeder is connected, welding parameters are controlled directly from the feeder. When operating TIG, Stick, or Gouging, control automatically returns to the power source. No manual switching. No reconfiguration.

Large LCD displays on both the power source and feeders provide clear visibility of welding parameters, while program memory allows instant recall of stored welding procedures.

Benefits:

- Faster setup
- Consistent weld quality
- Reduced operator error
- Improved productivity

### MIG Manual • Synergic • Pulse • Double Pulse Advanced MIG Welding Performance

The system offers complete control across all MIG welding modes.

#### MIG Synergic

Automatically optimizes welding parameters based on:

- Material type
- Material thickness
- Shielding gas
- Wire diameter

## MIG Pulse

Provides controlled droplet transfer through high and low current pulses for stable arc performance and reduced spatter.

Benefits:

- Reduced spatter
- Lower heat input
- Better penetration control
- Reduced distortion
- Improved weld appearance

## Double Pulse

Adds a secondary pulse cycle for superior bead appearance and heat management.

Ideal for:

- Aluminum
- Stainless Steel
- High-alloy materials
- Pulse Amplitude
- Pulse Duty Cycle

Advanced controls include:

- Arc Length
- Pulse Frequency
- Burn-Back
- Pre-Flow
- Post-Flow
- Inductance Control
- Voltage Compensation
- Trigger Modes (2T / 4T / 4T+ / Spot)

## Dual Feeder Productivity Advantage Two Wires. Instant Selection.

Each SLP-41T feeder can be configured with:

- Different wire diameters
- Different filler materials
- Different welding programs

Operators can instantly switch between welding procedures using the torch trigger. Process changes occur within milliseconds, maintaining uninterrupted workflow.

Benefits:

- No spool changes
- No parameter re-entry
- Less downtime
- Lower operating costs
- Higher production efficiency

## Complete System Configuration

The system includes:

- 8Pro 421-MpTp Multiprocess Power Source
- Two SLP-41T Wire Feeders
- Dual Feeder Rotating Support Assembly
- Heavy-Duty Industrial Cart
- Liquid Cooling Unit

In addition to advanced MIG capabilities, the system delivers full performance across TIG AC/DC Pulse, Stick (MMA), and Arc Air Gouging processes.

### OTHER PROCESSES

#### TIG AC/DC PULSE WELDING

##### **Maximum Control. Superior Weld Quality.**

The 8Pro 421-MpTp delivers advanced TIG AC/DC Pulse welding performance for aluminum, stainless steel, carbon steel, copper alloys, and specialty materials. It provides precise heat control, exceptional arc stability, and consistent weld quality across a wide range of industrial applications.

#### KEY ADVANTAGES

- Precise heat control minimizes distortion and burn-through
- Excellent performance on thin and heat-sensitive materials
- Stable arc characteristics in all welding positions
- Consistent penetration and weld quality
- Extended tungsten life
- Reduced post-weld cleanup and rework
- Ideal for aluminum, stainless steel, and specialty alloys

#### ADVANCED WAVEFORM CONTROL

The system provides selectable AC waveforms to optimize arc performance for different applications.

##### **Advanced Square Wave**

- Deep penetration
- Faster travel speeds
- Focused arc control
- Rapid weld pool response

##### **Sine Wave**

- Smooth arc characteristics
- Traditional TIG feel
- Reduced arc noise

##### **Triangular Wave**

- Reduced heat input
- Lower distortion
- Higher travel speed on thin aluminum

#### ADVANCED PULSE CONTROL

- Peak Current
- Base Current
- Pulse Frequency
- Pulse Width

Full pulse control ensures precise heat management and consistent weld quality.

### HIGH-PERFORMANCE TIG CAPABILITY

420 A @ 35% Duty Cycle

350 A @ 60% Duty Cycle

Rated at 40°C (104°F)

- Welds aluminum and steel up to 11/16 in (17 mm)
- Adjustable AC balance for cleaning and penetration control
- Adjustable pre-flow and post-flow
- Adjustable start and end current
- Adjustable up-slope and down-slope
- HF start for reliable, contact-free arc ignition
- Automatic hot start optimized by tungsten diameter
- Wired and wireless foot pedal compatibility

### SPECIALIZED TIG PROCESSES

#### Cold TIG

Low heat input welding for thin and heat-sensitive materials, minimizing distortion and burn-through.

#### Cold Tack TIG

Produces precise tack welds with minimal heat input, improving alignment and reducing clamping requirements.

#### Stitch TIG

Creates controlled weld segments with cooling intervals to reduce distortion on long seams.

#### Cold Stitch TIG

Combines pulsed welding with controlled heat input for cleaner, stronger welds on delicate materials.

### INDUSTRIAL STICK WELDING PERFORMANCE

- AC and DC stick welding
- Adjustable hot start
- Soft start technology
- Advanced arc force control
- Integrated VRD (Voltage Reduction Device)

Reliable arc performance with full electrode compatibility, including cellulosic electrodes.

#### Benefits:

- Stable arc ignition
- Improved penetration control
- Increased operator safety
- Excellent field welding performance

### ARC AIR GOUGING

- Adjustable gouging current
- Stable arc performance
- Precise material removal

#### Applications:

- Weld defect removal
- Joint preparation
- Back gouging
- Surface correction

## ROBOTIC & COBOTIC INTEGRATION (OPTIONAL)

The modular design of the 8Pro 421-MpTp allows seamless integration with robotic and collaborative robotic welding systems.

Advanced arc control and penetration stability ensure repeatable weld quality in automated production environments.

## LIQUID COOLING SYSTEM

The liquid cooling system efficiently removes heat from MIG, TIG, and plasma torches.

- Benefits:
- Extended duty cycles
- Improved arc stability
- Longer torch life
- Reduced maintenance costs
- Enhanced operator comfort

## WELDABLE MATERIALS

- Aluminum and aluminum alloys
- Magnesium alloys
- Carbon and mild steel
- HSLA steels
- Alloy steels
- Chrome-moly steels (4130 / 4140)
- Stainless steels
- Copper and copper alloys
- Brass
- Bronze
- Silicon bronze
- Nickel-based alloys
- Heat-resistant alloys

## Applications:

- Heavy and medium-duty fabrication shops
- Heavy aerospace and aluminum fabrication
- Shipbuilding and large boat/yacht structures
- Automotive and heavy equipment manufacturing
- Truck & trailer manufacturing (heavy sections)
- Railcar and rolling stock manufacturing
- Machinery, molds, and heavy components
- Electric Power generation (shop and outage work)
- Refineries and petrochemical plants
- Food industry & high-purity stainless piping
- Civil construction and infrastructure fabrication
- Mechanical contractors; installation, maintenance & repair
- Training schools (advanced/industrial programs)

### 8 Pro 421 Mp-Tp Technical Specification

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

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### TIG Parameters

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

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### MIG Parameters

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

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### Wire Feeder Specifications

<b>Voltage</b>	V	24, DC
<b>Wire Feeder Rolls</b>		Selectable 2-Roll or 4-Roll, Quick Release, For AL, CS, SS, FCAW Wires.
<b>Wire Diameter</b>	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)
<b>Type of Rolls</b>		U, V, K
<b>Wire Feeder Mechanism</b>		Heavy-Duty, Aluminum Chassis, All Rolls on Ball bearings SWISS Made
<b>Wire Spool Protection</b>		Yes
<b>Spool Diameter</b>	in (mm)	12 (300)
<b>Cooling Unit</b>		Optional (See Cooling Units information on the website)
<b>Control Via LCD Panel (Wire Feeder or Power Source)</b>		Yes
<b>Memory Function</b>		Save and Recal Settings
<b>Caster Wheels</b>		Installed as standard
<b>Interconnecting Cable Length (Wire Feeder to Power Source)</b>	ft (m)	16 (5) (Other lengths optional)
<b>Mounting Options</b>		Rotatable on Power Source or suspension mounting
<b>Push Pull</b>		Optional
<b>Spool Gun</b>		Optional
<b>Compatibility</b>		Compatible with all Canaweld power sources
<b>Wire Feeder Weight (Excluding Interconnecting Cable)</b>	lb (kg)	31 (14)
<b>Wire Feeder Dimensions</b>	in (mm)	23.6 X 9.4 X 16.5 (600 X 240 X 420)

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### Stick & Gouging Parameters

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

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### General Parameters

<b>Weldable Metals</b>		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
<b>Min. (Continuous / Running output) Power of Generator</b>	KVA	40
<b>Power Source Weight</b>	lb (kg)	131 (59.5)
<b>Power Source Dimensions (Including Handle) (D, W, H)</b>	in (mm)	26.7 x 12.6 x 20.8 (680 X 320X 530)

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