PLASMA CUTTER

Medium Industrial Heavy Industrial

PLASMA CUT 61mc

Precision Cutting. Maximum Efficiency. Built in Canada.

Plasma cutting is one of the most efficient and versatile processes for cutting electrically conductive metals. It delivers high cutting speed, excellent edge quality, low distortion, and low operating cost, making it ideal for both thin and thick materials.

The Canaweld Plasma 60 delivers a maximum output of 60 A with a true 100% duty cycle, ensuring continuous operation without interruption.

It provides a recommended cutting capacity of 3/4 in. (20 mm), a maximum severance cut capacity of 1-1/4 in. (32 mm), and a piercing capacity of 5/8 in. (16 mm), delivering powerful and reliable cutting performance across a wide range of applications, all while operating at a true 100% duty cycle at its full 60 A output.

Designed for both manual and CNC use, this machine combines industrial power, precision cutting performance, and intuitive control in a lightweight, compact, durable, and highly portable system—ideal for both workshop and on-site applications.

Why Plasma Cutting

- Faster than oxy-fuel cutting on thin and medium-thickness metals
- Cuts all conductive metals including mild steel, stainless steel, aluminum, and copper
- No preheating required
- Clean, precise cuts with minimal slag
- Reduced heat-affected zone and material distortion
- Lower operating costs
- Ideal for manual and automated (CNC) cutting applications

Applications

- Metal fabrication workshops
- Automotive and manufacturing industries
- HVAC and ducting systems
- Construction and installation
- CNC plasma cutting tables
- Maintenance and repair operations
- Light gouging and surface material removal

Suitable Cutting Materials

- Carbon Steel (Mild Steel)
- Stainless Steel
- Aluminum
- Galvanized Steel
- Copper
- Brass

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Key Features

- **60 A Output at 100% Duty Cycle**
  Continuous cutting at full power without overheating
- **Advanced Inverter Technology**
  Stable arc performance with high efficiency and reliability
- **High Cutting Quality**
  Clean edges with minimal dross and reduced finishing requirements
- **Versatile Cutting Capability**
  Supports fine cutting, drag cutting, bevel cutting, gouging, grate/grid cutting, and marking
  Suitable for both manual and automated operation

- **Dedicated Grate Cutting Mode**
  Maintains arc stability on expanded metal, grating, and mesh
  Reduces nozzle wear and improves cut consistency
- **HF-Free Arc Starting**
  Reliable arc ignition without high-frequency starting
  Reduces electromagnetic interference and improves reliability
- **CNC Ready System**
  Seamless integration with automated cutting systems
- **Oversized 85 A Torch**
  Improved durability, heat management, and extended consumable life
- **Light Gouging Capability**
  Suitable for surface material removal and edge preparation
- **Color LCD Display & User-Friendly Interface**
  Clear visibility of all cutting parameters. Fast setup and easy operation
- **2T / 4T Torch Trigger Modes**
  2T (Momentary Trigger): Arc remains active only while the trigger is pressed.
  4T (Latched Trigger): Arc remains active after releasing the trigger, reducing operator fatigue during long cuts.
- **Front-Panel Gas Test Function**
  Allows easy air pressure and airflow adjustment without initiating the plasma arc
- **Advanced Protection Systems**
  Protection against air pressure fluctuations, overload, and overcurrent
- **Smart Auto Start Fan Cooling**
  Fan operates only when required. Reduces dust, noise, and power consumption while extending internal component life
- **Reduced Operating Costs**
  Simplified operation reduces training and troubleshooting time.
  Extended consumable life lowers replacement costs and improves productivity
- **Lightweight & Portable Design**
  Easy to carry and ideal for workshop and field applications

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Control & Display

INTELLIGENT CONTROL SYSTEM – BUILT FOR REAL WORK

The Canaweld Plasma 60 features a modern color LCD panel designed for efficient and precise control.

- Real-time display of cutting current and system status
- Easy parameter adjustment
- Quick setup for manual and CNC operation
- Clear and intuitive interface for all operators

Cutting Performance

- **Severance cutting Thickness: 1-1/4 in (32 mm)**
- **Maximum Recommended cutting Thickness: 1 in (25.4 mm)**
- **Rated cutting Thickness 7/8 in (22.2 mm)**
- **Piercing cutting Thickness: 7/16 in (11 mm)**

Cutting thickness ratings should be reduced by up to 30% for aluminum and other metals with high thermal conductivity.

Gouging Performance

- **Rate of metal removal**
- **Size of Groove**

Values shown are typical single-pass results. Wider and deeper grooves can be achieved using different gouging techniques and multiple passes.

Torch & Configuration

- **Manual Plasma Torch: 20 ft (6 m)** lead length
- **CNC Plasma Torch: 26 ft (8 m)** lead length
- **Torch Rating: 85 A**
  Heavy-duty torch designed for stable arc performance and extended consumable life

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PLASMA Cut 61 mc Technical Specification	
Process	PLASMA CUTTING
Input Voltage, Single Phase, 50/60 Hz	208 to 240 V(±10%)
Primary Current@Max Welding Current	49 A
Maximum Primary Effective Current (I1 eff max)	49 A
Ignition	No HF
Maximum Cutting Current	60 A
Duty Cycle @ Maximum Cutting Current in 104o F (40o C)	100%
Cutting Current @ 100% Duty Cycle in 104o F (40o C)	60 A
Cutting Current @ 60% Duty Cycle in 104o F (40o C)	___
Open Circuit Voltage : Volt	370 V
Severance Cutting Thickness of Solid Steel : inch (mm)	in (mm)
Maximum Clean Cutting Thickness of Solid Steel : inch (mm)	in (mm)
Note: Cutting Thickness Capacity of Aluminum is 30% less	
Recommended Air Flow/Air Pressure	4.0 cfm (115 L/min) at 73 psi (500 kpa)
Weight : lb. (Kg)	48 lb. (22 Kg)
Dimensions Including Handle (D, W, H) : inch (mm)	24.8 x 8.5 x 16.5 inch (630 x 215 x 420 mm)
CANAWELD RESERVES THE RIGHTS OF CHANGING THE SPECIFICATION WITHOUT NOTICE	

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.