

# PowerPlasma 100S CNC



Plasma Cutters CNC



## Make Mechanized Marvels.

- ▶ 100 Amps of cutting power offers quick cuts on CNC projects
- ▶ Blow-back type start with Pilot arc re-energizes arc without reset.
- ▶ Adjustable post flow allows user to optimize torch cooling during extended cutting sessions.
- ▶ CNC Torch with CNC Port Plug with full signals for THC and On/Off.
- ▶ 60% Duty Cycle at 100 Amps; 100% Duty Cycle at 80 Amps.
- ▶ Recommended for up to 3/4" daily use. 1 1/8" Clean cut rating.

### CNC Performance at a sensible price.

#### Breaks the 100 Amp Barrier on a Budget

The PowerPlasma 100S CNC package offers a product that is hard to beat. Breaking the 100 Amp barrier for a CNC packaged Plasma cutter, the PowerPlasma 100S CNC model will equip many customers to be able to go toe to toe with their larger competitors. Already a standard OEM option from several plasma table manufacturers the PowerPlasma 100S delivers exactly what is promised, saving customers thousands and lowering the price barrier to 100 amp cutting capability. What is so special about 100 amps? Well the ability to cut non stop on thinner gauges and the power to cut thicker gauges without having to come to a crawl means that the unit is ideal to tackle most CNC jobs without hiccups.

#### Why is the CNC cutting performance less than a manual setup?

This is a question that many customers have when shopping for CNC plasma cutters. The lower rating is not unique to us. In fact, it is pretty well known in the industry that CNC cutting does require *more* out of a machine than a hand held operation. First, the cutting thickness estimates are reduced because the cutting speed of CNC tables is much greater than is typically averaged by hand cutting. This faster speed helps improve production. While technically possible to achieve the same approximate cut thickness as the hand held version, it cuts into production greatly, reducing economic profitability. Also the continuous cutting capability of CNC means that there is little time off for cooling of the unit or torch, which means that duty cycle is often exceeded at maximum cut rating. Lowering the maximum output means that duty cycle increases but cut thickness and speed decreases. On the PowerPlasma 100S, this means the unit would cut ideally around 100% duty cycle at 80 amps, which still is a tremendous cut capability. But when needed, the unit is still capable of pushing out the full 100 Amps if enough rest is allowed between extended cuts. Pierce capability is also reduced due to the fact that proper piercing technique of "rotating" the torch down and into the cut isn't an option. Piercing must be done straight down, into a molten pool of metal which can blow back onto the torch, shortening the consumable life or damaging the torch. For maximum cuts, edge starts are prescribed for best cutting experience.



### Specifications

**Process:** Plasma (A-PAC)  
**Amps 1 and 3 Phase Model:** I1MAX: 82A/52A; I1EFF: 64A /41A  
**Plasma Torch Type:** IPT100M (Innotec) 15 ft.  
**OCV:** 250V  
**Weight:** 58 lbs.  
**Recommended Daily Max Cut:** 3/4" (Steel)\*

**Output:** 20-60A; 88-120V  
**Input Voltage:** 220-240V ±10%  
**Post Flow:** 0-50 Seconds  
**Fan Type:** Full Time, Single Fan  
**Dimensions:** 25"Lx16"Hx10"W  
**Max Clean Cut:** 1 1/8" (edge start steel)\*

**Duty Cycle @ Max Amps:** 60% @ 100A  
**Phase:** Select from 1 or 3 Phase models  
**Start Type:** Blow-Back with Pilot Arc  
**Compressor Requirements (Recommended):** 8CFM @ 90PSI  
**Input Cable Length:** 6'  
**Max Pierce:** 5/8"-3/4" with THC control (Steel)\*

\*For Aluminum, reduce capacity 30-40%. For Stainless, reduce 20-30%.

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All specifications, accessories and options are subject to change without notice.

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## Panel Configuration and Details



1. Torch and Arc Function Selector Switches: 2T/4T Torch trigger operation (latch on/off), Pilot Arc Function (Tip Saver or Normal operation), Air test (Setup cutting pressure or Auto operation).
2. Post Flow Timer. Controls gas flow time after the weld.
3. 2T/4T/Pedal. Select between 2T/4T torch sequencer operation or foot pedal operation.
4. Air Pressure: Indicates Air Pressure while cutting. OK to Cut light indicates safe minimum operating pressure when lit.
5. Amp Control. Adjusts Cutting Amperage.
6. LED Display and LED Warning lights. Indicates Amperage. LED indicators warn of overcurrent or duty cycle limits.



CNC socket located on the rear.  
Provides: Off On Signal, OK To move,  
Torch Height Control Signal and Raw or  
Divided Voltage signals.

Plug only included with Single phase model.

## Standard Equipment and Options



### Standard Kit:

- IPT 100M Torch, 15ft.
- 250 Amp Work Clamp and 9 foot Cable
- Starter Consumable kit

### Customer Favorite Options:

- PowerCard 250 SKU/# PC250-M
- IPT 100M Machine torch SKU/# INTM-PT100M-100A-25BBP-MACHINE (For CNC operation only see our CNC package option)

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