

# ForceCut® 42i



40 AMP IGBT PLASMA CUTTER WITH PFC

Input Voltage: 95-270V 50/60Hz 1 PHASE PFC Auto-Voltage Weight: 36 lbs

Dimensions: 8"W x 18"L x 15"H Input Current: 29A Input Power: 4.3KW

Cutting Current: 20-40A RATED CUT: .78" (20mm) Maximum Cut: .98" (25mm)

No-Load Voltage: 480V Duty Cycle: 40% @ 40 Protection Class: IP23S Insulation Class: F

Warranty: 3 Years Parts and Labor

## Introduction

LONGEVITY wanted to create a unit for the on-the-go user, something that was portable yet performed up to the expectations of the customer all while maintaining LONGEVITY's priority on value. The ForceCut® 42i meets all the required criteria and more!

The ForceCut® 42i is capable of being hooked up to most portable compressors and generators. Powered by IGBT inverter technology, the ForceCut® 42i is lightweight and more reliable than other units on the market using out-of-date technology.

The ForceCut® 42i only weighs 36lbs. and runs off 110/220v 1 phase voltage making this unit the most portable plasma cutters on the market for its power. The ForceCut® 42i offers quality cutting of up to .78" (20mm) and rough cuts of up to .98"(25mm).

## A. Variable Amp Adjustment

LONGEVITY offers variable amps adjustments and not presets on the ForceCut® 42i. This allows users to pinpoint the correct setting while cutting.

**SUITABLE FOR:**  
Factory Maintenance  
Fabrication  
Farm  
Auto Body Repair  
Portable Repair  
CNC Tables

## RATED CUTTING CAPACITY\*



\*Image not to scale.

The Power to Last!

3 YEAR WARRANTY



**NEW AND IMPROVED!**  
**NOW WITH AN EASY ACCESS CNC PORT ON THE FRONT OF THE MACHINE!**

## B. Efficient IGBT Inverter Technology

IGBT technology has taken the welding industry to new levels. It gives us the ability to offer smaller units that weigh less while increasing efficiency. The ForceCut® 42i with its portable design can be powered by 8500 watt generator. LONGEVITY uses IGBT technology powered by Siemens because of the increase in performance and better reliability than outdated inverter technology. Put the oxy torch away and give our plasma cutters a try. You will never go back!

# ForceCut® 42i



40 AMP IGBT PLASMA CUTTER WITH PFC

## C. Pilot Arc

On out-of-date plasma cutters, when the arc is interrupted the trigger must be disengaged to restart the arc. With the ForceCut® 42i plasma cutter, the Pilot Arc system automatically senses loss of voltage, and re-ignites the Pilot Arc allowing for the torch head to maintain an arc when cutting. This is effective allowing you to not worry about the cutting height, cut speed, and it allows you to cut expanded metal. Pilot Arc technology allows for you to always have power to the arc which increases your cutting speed and assists with uneven cutting surfaces.

## D. Blowback Arc Start / CNC Ready

The ForceCut® 42i starts the arc by creating an internal spark to ignite the plasma arc. By using air pressure to move the electrode against the nozzle, the ForceCut® 42i creates the arc without any need for high frequency. This allows for easier CNC table integration without the worry of interference.

## E. Built In Air Filter And Regulator

Built in gas/air filter and regulator provides air filtration of airborne particles to keep the ForceCut 42i cutting clean and efficiently.



### INCLUDED:



PT-60 Torch  
20ft



110/220 Power  
Plug Adapter



10 ft Ground/Earth  
Cable



Consumables

### QUICK CONNECT

The Euro style quick-connect offers efficient and safe interchangeability with aftermarket torches like Trafimet®.

