

PLASMA CUTTING EQUIPMENT »

alphaCUT 825i



COMMERICAL LEVEL FEATURES AND PERFORMANCE

- EASY TO SETUP AND USE. INTUITIVE CONTROLS
- 35% DUTY CYCLE AT MAX 60 AMP OUTPUT
- ADJUSTABLE POST-FLOW TO EXTEND CONSUMABLE LIFE
- ADJUSTABLE AMP RANGE FROM 20 TO 60A
- BLOW BACK ARC START WITH PILOT ARC
- SELECT FROM TIP SAVER OR AUTO RESTART
- EASILY DISCONNECT TORCH AND WORK CLAMP FOR TRAVEL
- OPERATES ON 240V OR 120V OUTPUT ($\pm 10\%$)

APPLICATIONS:

- MOTOR SPORTS/AEROSPACE
- FABRICATION/PROTOTYPING
- HOME/HOBBY
- HVAC
- HAND CUTTING
- PORTABLE REPAIR



- 3 Year Parts and Labor Warranty
- 1 Year Shipping Coverage

DESIGNED FOR SIMPLICITY.

The AHP alphaCUT 825i delivers high quality cuts with minimal bevel and dross thanks to the adoption of the Innotect iPT60 plasma cutting torch. This ergonomically designed torch is well known in the industry for its reliability, quality of cut and inexpensive cost of consumables. It's proven to be among the top tier of torches in the industry by offering long lasting design features which include items like flexible torch cables for easier use with intricate cuts and a quick disconnect "Central" connector that provides a safe, single point connection for the torch. The blow-back design of the torch includes a pilot arc function which means no contact with the metal is needed to establish or maintain an arc. This also eliminates the need for HF starting which many "price" brand plasma cutters still use that can interfere with electronics in the area.

The plasma cutter is more than just a nice torch of course. The IGBT components of the inverter design that the alphaCUT 825i uses are more robust and durable than many of the old, outdat-

ed MOSFET designs you'll find on most budget priced plasma cutters found in the marketplace. The IGBT design that is at the heart of the unit is very comparable to what our much more expensive competitors also use. They are designed for years of punishment and service.

The operation of the plasma cutter is straight forward and devoid of gimmickry. However, it provides you with two types of operation of the pilot arc. The Auto-restart function allows the pilot arc to automatically restart if the cut is lost, This is perfect for using on dirty, painted or irregular surfaces and works well for cutting items like expanded metal. Just keep the trigger held down and the unit will automatically shift back and forth between the cutting arc and the pilot arc as needed. The Tip-saver function allows the user to maximize consumable life, by only keeping the pilot arc engaged for 3 seconds, enough time to start the arc. If the cut is lost with the tip saver function engaged, the trigger will need to be re-pressed to restart. However, the design will reduce over all wear on the plasma cutter and can extend consumable life up to 20 to 30% on normal cutting tasks.

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ALPHACUT 825i SPECIFICATIONS

Voltage Input	120V/240V
Input Amperage 120V Inrush (I1 _{MAX}), Rated Effective (I1 _{EFF})	41A/36A
Input Amperage 240V Inrush (I1 _{MAX}), Rated Effective (I1 _{EFF})	25A/22A
Output 120V	20-30A; 88-92V
Output 240V	20-60A; 20-104V
120V Rated Duty Cycle at 40° C	35% @ 30A/92V
240V Rated Duty Cycle at 40° C	35% @ 60A/104V
OCV	300V
Post Flow	Adjustable 0-60 Seconds
Maximum Supply Pressure from Compressor	95 PSI
Cutting Pressure (Set while air is flowing)	65 to 72 PSI
Low Air Pressure Safety Cut-Out	Yes
Independent Air Check for Setting Air Pressure	Yes
Overcurrent and Overtemperature Warning	Yes
Pilot Arc	Yes, Automatic and 3 Second Tip Saver Modes
Torch Type	Innotec iPT 60, 14 ft.
Pilot Arc	Yes, Automatic and 3 Second Tip Saver Modes
Start Type	Blow-Back, Contactless (Non-HF)
Work Clamp and Cable Length	200A Rated, 9 ft.
CNC Capable	Not rated for CNC use. Use for Hand Cutting Applications Only
Minimum Generator Size and Type Requirement	10,000W with 5% or Less THD (Rated as Clean Power Output)
Minimum Compressor Size Requirement	4.5 to 5 CFM @ 90 PSI; 25 gallon capacity tank
Maximum Severance Cut Thickness	1"
Maximum Clean Cut Thickness	7/8"
Maximum Rated Cut Thickness (For Daily Use)	5/8"
Unit Weight and Dimensions	50 lbs. 18"H X 9.5"W X 25"L
Plug Type and Length	NEMA 6-50P, 6.5 ft.



STANDARD PACKAGED ACCESSORIES:

- MAIN CUTTER WITH CENTRAL CONNECTOR FOR TORCH
- INNOTECT IPT 60 PLASMA TORCH 14 FT.
- 200A WORK CLAMP WITH 6 FT CABLE AND CONNECTOR
- AIR PRESSURE REGULATOR WITH WATER TRAP BASE
- 60A CONSUMABLE STARTER KIT
- PILOT ARC FUSE REPLACEMENT KIT
- 240V TO 120V INPUT PIGTAIL POWER ADAPTER (NEMA 6-50R TO 15-5P)

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SUGGESTED OPTIONAL ACCESSORIES:

- INNOTECH IPT 60 TORCH, 25 FT.
- .6MM, .9MM, 1.0MM AND 1.1MM CONSUMABLE KITS FOR DIFFERENT AMPERAGE RANGES



FRONT PANEL USER INTERFACE:



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