

CUT-120C IGBT Plasma Cutter

This plasma cutter is designed to cut materials using ordinary compressed air. It is widely applicable in industries such as petroleum, chemical processing, power supply, metallurgy, shipbuilding, and aerospace.



Product Overview

High-Performance IGBT Plasma Cutter

The CUT-120C is a robust industrial plasma cutter utilizing advanced full-bridge inverter technology with single-tube IGBTs for superior efficiency and reliability. Designed for heavy-duty manufacturing, it delivers precise, smooth cutting edges on a wide range of conductive materials including carbon steel, stainless steel, and copper. With integrated protections against over-heating and phase lack, this portable yet powerful machine ensures stable performance in harsh environments.

Technical Performance

Key Performance Metrics

120 A

Max Output Current

45 mm

Max Cutting Thickness

60 %

Duty Cycle

85 %

Efficiency

Electrical Specifications

Parameter	Value
Input Power Voltage	380V ±15% 50/60Hz
Rated Input Capacity	22 KVA
No-load Voltage	300 V
Output Current Range	30-120 A
Power Factor	>0.93 COSφ
No-load Consumption	40 W

Material Compatibility

Applicable Materials

Carbon Steel, Alloy Steel, Stainless Steel, Cast Iron, Aluminum, Copper

Operational Features

Cutting Capabilities

- Non-contact pilot arc starting
- High frequency (HF) electronic switch for stable arc
- Adjustable post-flow time (5s / 10s / 60s)
- Auto-locked and non-auto-locked trigger modes
- Voltage-pressure compensation for power fluctuations

Safety & Durability

Integrated Protection Systems

Under-voltage • Over-current • Over-heating • Over-loading • Phase Lack • Gas Lack

Environmental Resistance

- Anti-dust internal structure
- Anti-moisture coating
- Anti-corrosion design
- IP21S Protection Class
- Insulation Class F

Physical Specifications

Dimensions	513 × 268 × 455 mm
------------	--------------------

Net Weight	28 kg
------------	-------

Industrial Applications

Target Industries	Petroleum, Shipbuilding, Boilers, Pressure Vessels, Aerospace, Vehicle Manufacturing
-------------------	--