

Model: KPT-12IC

Overview

The **KPT-12IC-CUT 120** is a state-of-the-art plasma cutting machine designed for precision, efficiency, and versatility. Featuring advanced IGBT module-based technology, this digital machine delivers robust performance for industrial applications. With an integrated oil-free 415V 3-phase air compressor and an MMA welding function, this machine is ideal for cutting up to 25mm cleanly and provides external air input for cutting up to 35mm.

(Built-in compressor is recommended for onsite use only. Use External Compressor for continuous usage)

Key Features

Performance

- **Cutting Capacity:**
 - **Up to 25mm:** Clean cut with the inbuilt compressor.
 - **Up to 35mm:** Heavy-duty cut using external air input.
- **Current Range:** Upgraded **120A max output** for enhanced performance.
- **Voltage:** Operates on **415V 3-phase input** for industrial use.

Technology

- **IGBT Module-Based:** Ensures stable performance, high efficiency, and energy savings.
- **Digital Display:** Precise current settings for optimal cutting and welding accuracy.
- **Dual Functionality:** Integrated **MMA welding mode** for added versatility.

Compressor

- **Inbuilt Oil-Free Air Compressor:** Ensures reliable and consistent air supply for clean cuts.
- **External Air Input Option:** Allows enhanced cutting capacity up to 35mm.

Usability

- **Lightweight and Compact Design:** Easy to transport and handle.
- **User-Friendly Interface:** Intuitive controls with a bright digital display for seamless operation.

Safety

- **Overload Protection:** Advanced circuitry to safeguard against overcurrent and overheating.



- **Insulated Housing:** Designed for maximum operator safety.
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Technical Specifications

Specification/Model		KPT-12AC	
Work mode		Cutting	Manual welding
Input	Power parameters	3-phase AC415V	
		50/60Hz	
	Rated input capacity	17.1kVA	
	Rated input current	30A	
	Cross sectional area of power input cable	≥4mm ²	
	Air source	External compressed air (dry and free from water and oil)/built-in air compressor	
	Capacity of external gas source	≥150L	
	Pressure of external gas source	0.4Mpa-0.6Mpa	
	Power of built-in air compressor	1500W (3-phase AC415V power supply)	
Output	Average value of no-load voltage	307V	70V
	Peak value of no-load voltage	310V	72V
	Rated output current	100A	170A
	Rated operating voltage	120V	26.8V
	Current adjustment range	30A~100A	20A~170A
	Cutting and arc initiation mode	Non-contact	
	Recommended cutting thickness of common carbon steel	25mm	
	Max. cutting thickness of common carbon steel	40mm	
Duty cycle		60%@40°C	35%@40°C
Power factor COSφ		≥0.80	
Efficiency η		≥90%	
Insulation grade		H	
Shell protection class		IP21S	

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Dimensions (L×W×H)	623mm×308mm×588mm
Net weight	55KG

Applications

- **Metal Fabrication:** Precision cutting for mild steel, stainless steel, and aluminum.
- **Construction:** Ideal for on-site operations with heavy-duty cutting needs.
- **Repair and Maintenance:** Multi-functional use for cutting and MMA welding.

Benefits

- Integrated air compressor eliminates the need for external units, reducing setup costs.
- Enhanced cutting power for a wide range of thicknesses and materials.
- Reliable and durable, suitable for demanding industrial environments.