

# DC Inverter Multi-Process Welder Cutter

This DC inverter machine offers TIG, CUT, and electrode welding capabilities. It is widely applicable in industries like petroleum, chemical, power supply, and metallurgy.



## Overview

### Versatile Multi-Process Solution

The CT416 is a high-performance DC inverter machine engineered for versatility, combining MMA (electrode welding), TIG welding, and plasma cutting capabilities in a single, compact unit. Utilizing advanced Pulse Width Modulator (PWM) technology, it delivers stable output and precise control across diverse industrial applications, including shipbuilding, aerospace, and chemical processing. Designed for efficiency and reliability, this machine features automatic protection systems and excellent cutting performance, making it an essential tool for professionals handling steel, stainless steel, aluminum, and copper.

## Technical Specifications

### Performance Metrics

<b>85 %</b> Efficiency	<b>0.93 COSφ</b> Power Factor	<b>60 %</b> Rated Duty Cycle
---------------------------	----------------------------------	---------------------------------

### Operating Parameters

Function	Input Capacity (KVA)	Current Range (A)	Arc Starting
TIG	3.2	10-160	HF
MMA	4.1	10-130	Contact
CUT	1.8	10-40	Contact

Input Power Voltage	220V±10% 50/60Hz
---------------------	------------------

## Physical Characteristics

### Dimensions and Weight

<b>13.4 Kg</b> Weight	<b>440 mm</b> Length	<b>218 mm</b> Width	<b>355 mm</b> Height
--------------------------	-------------------------	------------------------	-------------------------

## Capabilities

### Industry Applications

- Petroleum
- Chemical Industry
- Power Supply
- Metallurgy
- Shipbuilding
- Boilers
- Pressured Vessels
- Pipes
- Vehicles
- Aerospace

### Applicable Materials

Steel, Aluminum, Stainless Steel, Copper, Low Carbon Steel, High Strength Steel, Cr-Mo Steel, Titanium Alloy

## Safety and Features

### Protection Systems

Under-voltage Protection • Over-voltage Protection • Over-current Protection • Over-heating Protection