

PILOT 310

MMA/ARC WELDING MACHINE

Introduction

The **PILOT 310 Welding Machine** is a versatile and advanced IGBT inverter DC MMA and LIFT TIG welder, designed to deliver powerful performance with precision. With its lightweight and portable design, it is perfect for industrial and field applications, supporting a wide range of welding tasks. Powered by single-phase AC 220V \pm 15%, this machine provides consistent and reliable output for various materials.



Key Features

- Advanced Technology:**
 - IGBT Inversion Technology:** Ensures a stable arc with minimal spatter and high efficiency.
 - PWM (Pulse Width Modulation):** Enables efficient power conversion and smooth operation.
- Welding Versatility:**
 - Supports **MMA (Manual Metal Arc)** welding and **LIFT TIG** welding.
 - Suitable for materials like carbon steel, cast iron, stainless steel, copper, and non-ferrous alloys.
- User-Friendly Design:**
 - Lightweight (only 8 kg) and compact for easy transportation and storage.
 - Digital display for precise monitoring and control of welding parameters.
- Performance Enhancements:**
 - Constant current output with strong resistance to grid voltage fluctuations.
 - Rich functionality, including adjustable driver current and release strip for manual welding.
- Energy Efficiency:**
 - Compact and energy-efficient design saves electricity while ensuring high performance.
- Durability and Protection:**
 - IP23 Enclosure Protection:** Ensures durability in demanding environments.
 - Insulating paint on circuit boards for protection against moisture and corrosive gases.

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Trusted Since 1996

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Technical Specifications

Parameter	Unit	PILOT 310
Frequency	Hz	50/60
No-Load Voltage	V	MMA: 64V, TIG: 59V
Rated Output	A/V	MMA: 310A/32V, TIG: 200A/17.6V
Adjustable Current Range	A	MMA: 20-310, TIG: 10-310
Rated Duty Cycle	%	60% @ 40°C
Capacity	A	130A to 310A
Suitable Electrode Size	mm	1.6-4.0
Cooling System		Fan Cooled
Protection Class		S
Max Rated Input Current	A	43.9
Max Effective Input Current	A	26
Max Rated Input Capacity	kVA	9.5
Static External Characteristic		Step-down characteristics
Enclosure Protection Class		IP23
Weight	kg	8
Dimensions (L×W×H)	mm	380 × 158 × 285

Applications

- **Industrial Fabrication:** Precision welding for industrial projects.
- **Field Work:** Portability makes it ideal for on-site tasks.
- **Indoor Decoration:** Lightweight and efficient for smaller projects.
- **General Repairs:** Versatile for maintenance and repair tasks.

Benefits

- **Portability:** Perfect for high-mobility environments or work at heights.
- **Cost-Effective:** Combines high functionality with a competitive price.
- **Durable Design:** Ensures reliability and long-term use in challenging environments.
- **Energy Efficient:** Saves electricity without compromising performance.