

SKILL-310

Arc Welding Machine

Introduction

The **SKILL-310 Arc Welding Machine** is a robust and versatile three-phase inverter-based welding machine, designed for high-performance and professional-grade applications. With a maximum output of **310A**, this machine comes equipped with a **Voltage Reduction Device (VRD)** switch for enhanced safety and compatibility with a wide range of electrodes, including **E6013, E7010, E6010, E7018**, and **pipeline cum cellulose electrodes (2.5mm - 3.15mm)**. This makes it an ideal choice for industrial and pipeline welding operations.

Technical Specifications



Parameter	Unit	SKILL-310
Output		
No-load Voltage	V	67
Working Voltage	V	21.6-32
Rated Welding Current	A	310
Current Range	A	40-310
Rated Duty Cycle	%	100% @ 207A / 60% @ 310A
Input		
Phase		3
Frequency	Hz	50/60
Supply Voltage	V	415
Rated Input Current	A	18
Maximum Effective Input Current	A	13
Rated Input Capacity	kVA	12.5
Efficiency and Protection		
Efficiency	%	≥85
Power Factor (COSφ)		0.99
Protection Class		IP23
Insulation Class		H

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Applications

- **Industrial Welding:** Ideal for welding pipelines, structural components, and heavy machinery.
- **Pipeline and Cellulose Welding:** Specially designed to handle cellulose electrodes for pipeline welding.
- **Construction Projects:** Suitable for on-site structural welding in demanding environments.

General Repairs and Maintenance: Versatile for workshops and field operations.

Key Features

1. **High Performance and Flexibility:**
 - Delivers a maximum current of **310A**, adjustable from **10A to 310A**.
 - Suitable for a wide variety of electrodes, including general-purpose and cellulose-based electrodes.
 2. **Inbuilt VRD Switch:**
 - **Voltage Reduction Device (VRD)** can be turned on or off as per user preference.
 - Ensures operator safety by reducing idle voltage to **<36V** when the machine is idle, minimizing risk in wet or confined spaces.
 3. **Heavy-Duty Capabilities:**
 - Rated duty cycle of **100% at 207A** and **60% at 310A**, ensuring consistent performance for demanding tasks.
 4. **Energy-Efficient Inverter Technology:**
 - High efficiency of **≥85%**, reducing energy consumption and operational costs.
 - **Power Factor (COSφ): 0.99**, ensuring optimal utilization of power.
 5. **Durable and Rugged Design:**
 - **IP23 Protection Class** for safe operation in challenging industrial environments.
 - **Insulation Class H** ensures reliable performance under high thermal stress.
 6. **User-Friendly Operation:**
 - Digital display for precise control and monitoring of welding parameters.
 - Compact and lightweight design for easy handling and portability.
 - **Benefits**
- **Operator Safety:** VRD switch enhances safety during operations in hazardous conditions.
 - **Versatility:** Compatible with a wide range of electrodes for various applications.
 - **Energy Efficiency:** Advanced inverter technology minimizes power consumption.
 - **Durable Build:** Rugged design ensures long-lasting performance in tough conditions.

Package Includes

- **Power Source:** SKILL-310 Arc Welding Machine.
- **Welding Cable with Holder:** 2.5 meters.
- **Earthing Cable:** 2.5 meters.