

# ARC-400dual



## Quick Specs



### Heavy Industrial Application:

Installation and set-up  
Repair and maintenance  
Chemical and process industry  
Shipyards and off-shore industry  
Pipe welding outside

### Process:

Stick (SMAW)  
DC TIG(GTAW)  
Air Carbon Arc Gouging

**Input Power:** 230~400V, 3-Phase

**Amperage Range:** 40-400A

**Rated Output at 40°C (104°F):** 400A at 36V @60% Duty Cycle

**Weight:** 35KG

## Heavy duty powers at any volts from 220-440V.

**ARC-400dual** is built with a double control circuits in order to confirm the full welding powers at any voltage with rated duty cycle. Designed based on the universal stability power source, built with a soft-switching system, the machine can be fit with variable line-in volts automatically and reliably. It's the new idea and new technology to built a welding power source.

It's specially designed for cellulose electrodes are 100% safe for vertical-down welds and with a professional welding performance.

Powerful with heavy duty cycle of 60%@400A at any volts from 220V to 440v, we set a new standard in this class.

## Specialist Features

### Precision Arc Performance:

- **Built with a Double-controlled circuits** make the machine fit with variable line-in volts automatically and confirm the full output at any voltage with rated duty cycle.
- **Built-in arc control** lets you get in tight without sticking the electrode. An electrode compensation circuit ensures consistent arc control performance regardless of the electrode size.
- **Hot Start Function** reliably ignites the electrode and melts perfectly to ensure the best quality even at the start of the seam.
- **Arc Force** makes it easier to weld large-drop melting electrode types at low current strengths with a short arc in particular.
- **Thermal overload protection** light indicates power shutdown. Helps prevent machine damage if the duty cycle is exceeded or airflow is blocked.
- Available for **Air carbon arc gouging**.
- **Expert of Vertical-down** welding with cellulose electrodes.
- **Fast, precise, clean arc ignition and arc ending.**



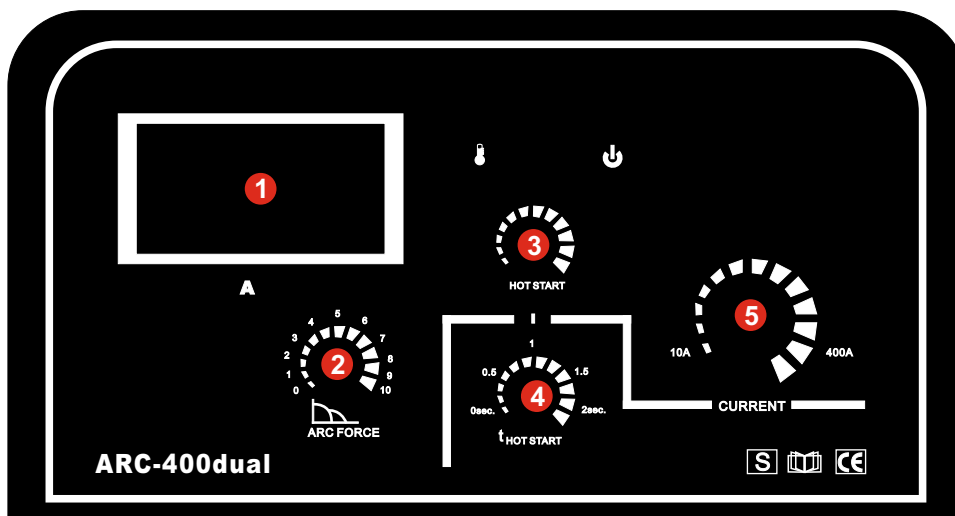
### Outstanding Quality:

- Newly designed using the latest power electronic technology for improved reliability.
- CE Certified.
- One-Year Warranty on parts.

## Technical specifications

Item No	ARC-400dual	
Rated Input Voltage	3PH ~ 230/400V +15%	
Max. Load Power Capacity	380V:16.9KVA 220V:11KVA	
Rated Duty Cycle (40oC)	60%	380V:400A 220V:360A
	100%	380V:315A 220V:300A
Welding Current/Voltage Range	380V:40A/20.8V~400A/36V	
Open Circuit Voltage	220V:40A/20.8V~360A/34.4V 60V~80V	
Power Factor	0.92	
Efficiency	89%	
MMA Arc Force	10A~200A	
Hot Start Time	0.1S~2S	
Hot Start Current	10A~200A	
Dimension (LxWxH)	540X265X430mm	
Weight (KG)	35KG	

## General View of Control Panel



### Control Panel Parameter Values

#### 1. Ammeter/Voltmeter Display

#### 2. Arcforce rotary dial

To adjust the welding parameters to the electrode type used. Infinite setting from rutile (soft arc) to cellulose (hard arc) electrode types.

#### 3. Hotstart current rotary dial

Increased ignition current during the set hotstart period to optimise the arc ignition. Setting from 20 A to 200 A.

#### 4. Hotstart period rotary dial

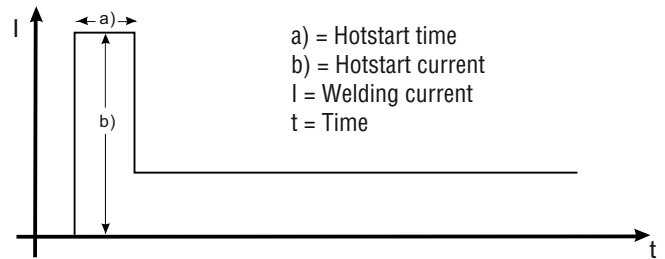
Increased ignition current (hotstart current) flows during the period set. Setting from 0 s to 2 s.

#### 5. Welding current setting rotary dial

Infinite setting of the welding current across the whole power range.

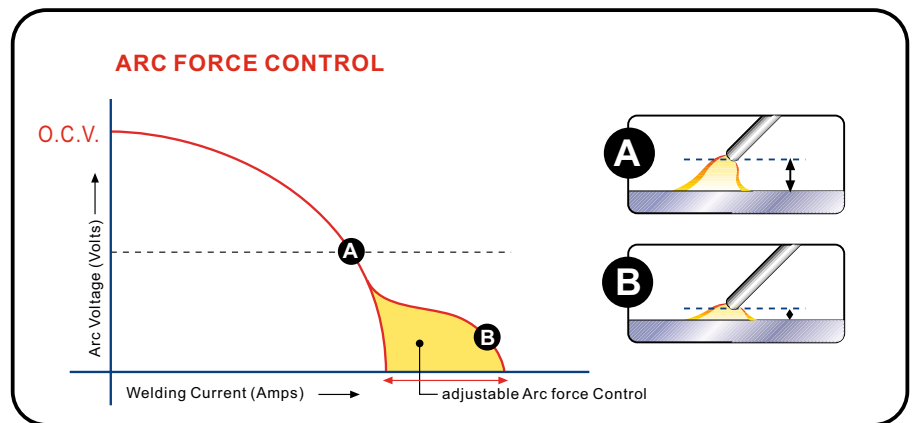
## Hot Start

**Hot start** function reliably ignites the electrode and melts perfectly to ensure the best quality even at the start of the seam. This solution makes lack of fusion and cold welds a thing of the past and significantly reduces weld reinforcement. Adjust the hot start current here and the time here.



## Arcforce correction (welding characteristics)

During the welding process, arcforce prevents the electrode sticking in the weld pool with increases in current. This makes it easier to weld large-drop melting electrode types at low current strengths with a short arc in particular.



## Accessories

### For Standard accessories



Electrode holder with cable 2M  
Earth clamp with cable 2M



Hand helmet  
Brush/hanner

### For Optional accessories



Air Carbon Gouging Torch