



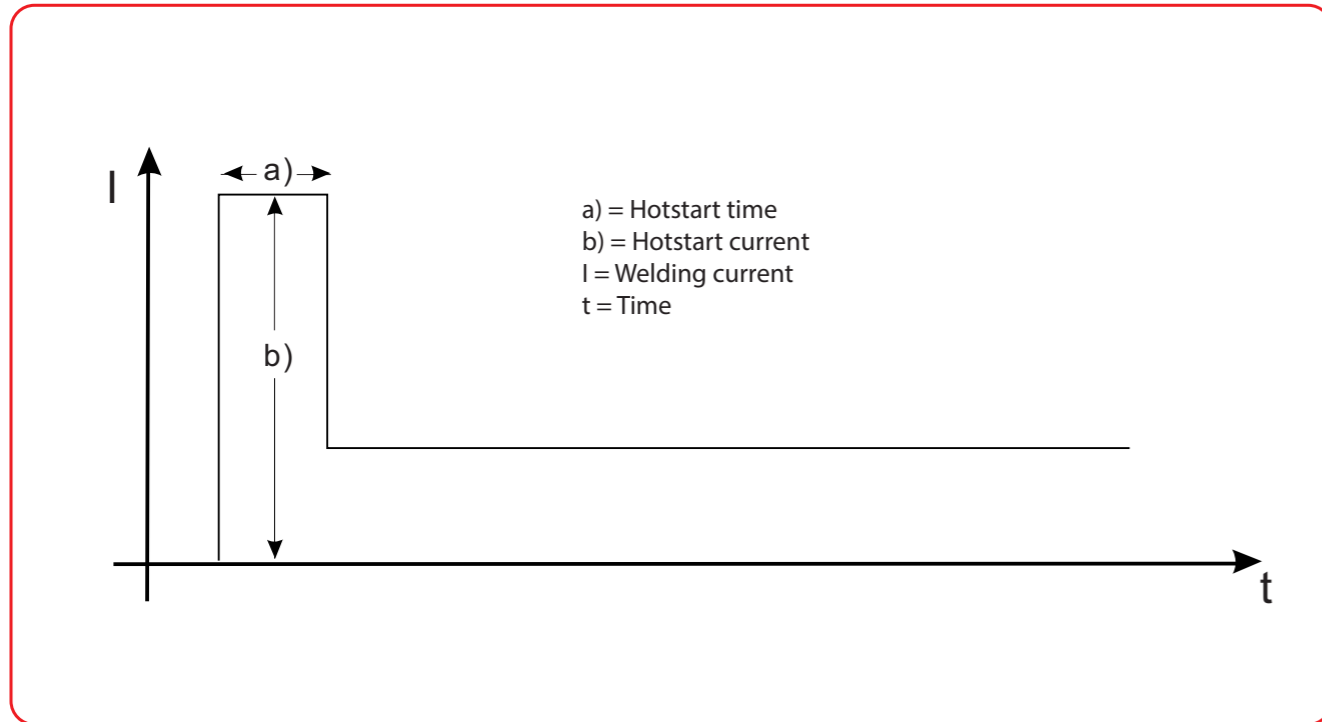
# STICK(SMAW)

MINI ARC-140i/160i	57
MINI ARC-180i/200i	57
STICK-200HD/200MV(PFC)	61
ARC-315i	65
ARC-400i/500i/630i	65



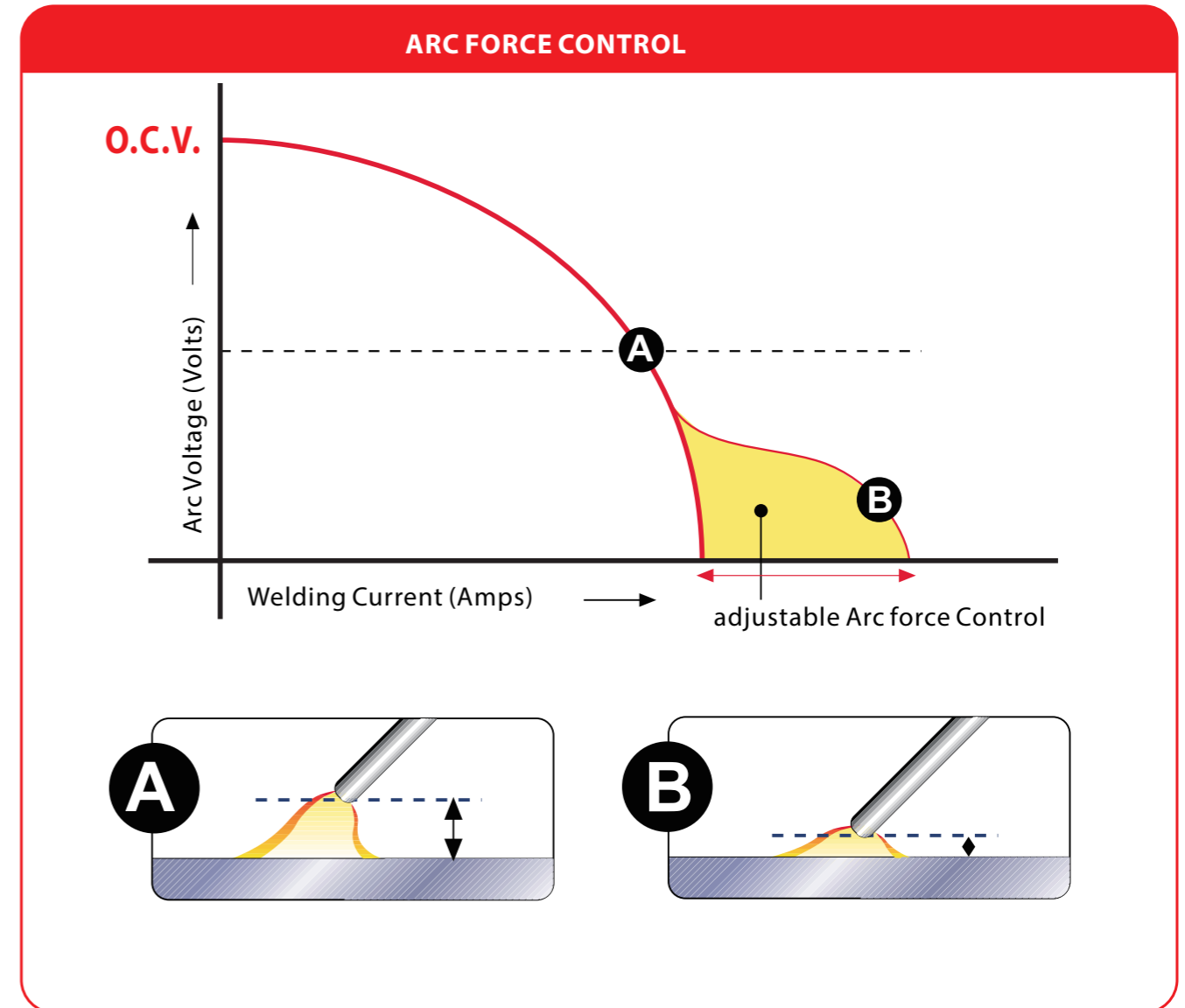
PROFESSIONAL IN WELDING

# 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. See page 16.

# 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. See page 16

# MINI ARC-140i/160i/180i/200i

Small, exquisite and powerful



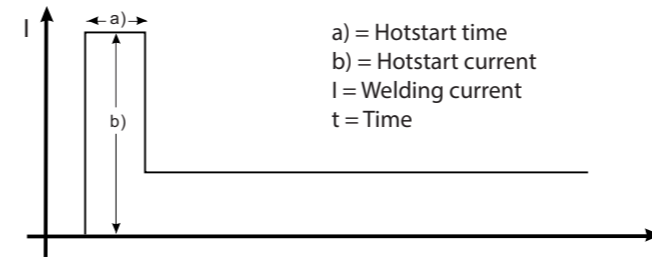
## Quick Specs

**Processes:**  
MMA(Stick)  
**Applications:**  
Construction industry  
Metal workshops  
Agriculture  
Repair and maintenance  
**Input Power:**  
140i/160i/180i/200i: 230V, 1-Phase

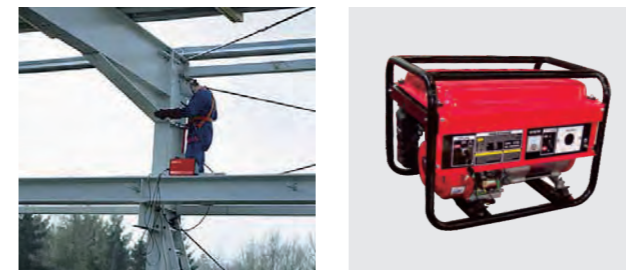
**Amperage Range:**  
140i: 10-140A/160i: 10-160A  
180i: 10-180A/200i: 10-200A  
**Rated Out put at 40°C (104°F):**  
140i: 140A at 25.6V @60% Duty Cycle  
160i: 160A at 26.4V @60% Duty Cycle  
180i: 180A at 27.2V @60% Duty Cycle  
200i: 200A at 28V @60% Duty Cycle  
**Weight:** 4.6 kg

## HOT START

Hot Start adaptive control provides positive arc start without sticking. See page 55



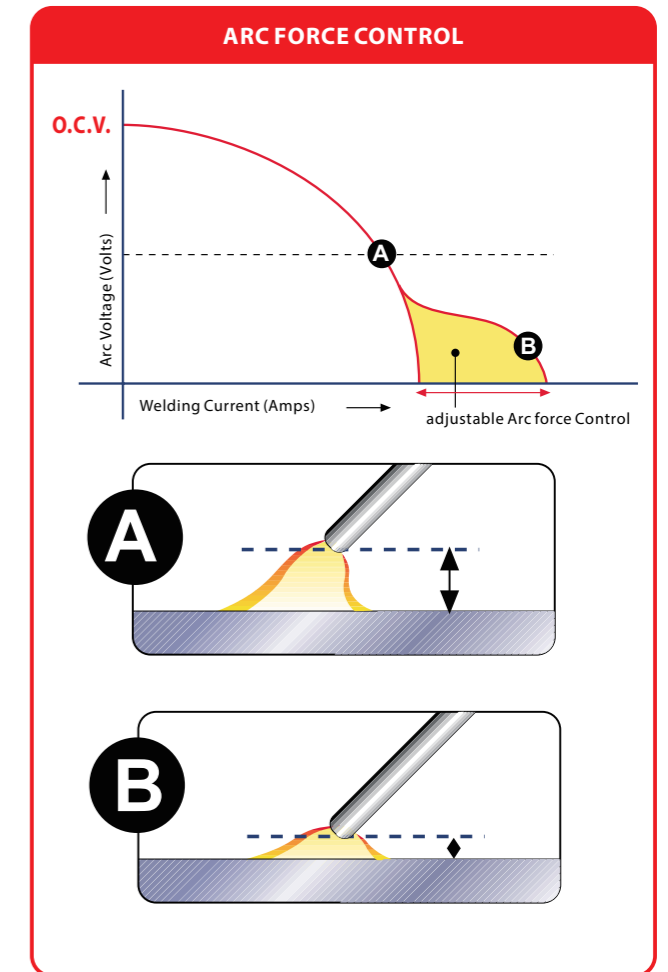
## 100% suitable for construction sites



Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.

## Arcforce correction (welding characteristics)

Arcforce is a setting that allows you to adjust the arc to soft smooth arc to a more aggressive digging arc. Setting high is to bump up amperage when you have a really tight arc so that you keep welding. See page 56



## TOP Features:

- Heavy duty cycle 60% at rated output
- Available to use all electrode types
- Premium welding performance
- Powerful: designed for use with long supply cables
- Portable in the shop or at the job site — at 4.6KG, the shoulder strap allows the end user to easily move from location to location.
- Antistick-weld like a professional -- the arc burns steadily without sticking or annealing of the stick electrode.
- Arc Force makes it easier to weld large-drop melting electrode types at low current strengths with a short arc in particular.
- Voltage Reduction Device (VRD). When enabled from the set up menu reduces the open circuit voltage in STICK mode for use in electrically hazardous conditions or when the use of a VRD is required.
- Generator power supply friendly
- Power Factor Corrected (PFC) for optimum performance from 110 volts to 220 volts — reduces nuisance breaker tripping. (Optional)
- Fast, precise, clean arc ignition and arc ending.

# MINI ARC-140i/160i

## Technical specifications

Item No	MINI ARC-140i	MINI ARC-160i
Rated Input Voltage	1PH ~ 230V ±15%	1PH ~ 230V ±15%
Max. Load Power Capacity	5.60KVA	6.60KVA
Rated Duty Cycle(40°C)	60%	140A/25.6V
	100%	120A/24.8V
		160A/26.4V
		140A/25.6V
Welding Current/Voltage Range	20A/20.8V~140A/25.6V	20A/20.8V~160A/26.4V
Open Circuit Voltage	70V~80V	70V~80V
Power Factor	0.8	0.8
Efficiency	80%	80%
MMA Arc Force	Preset	Preset
	Hot Start Time	Preset
	Hot Start Current	Preset
Dimension	345x145x230mm	345x145x230mm
Weight	4.6KG	4.6KG

# MINI ARC-180i/200i

## Technical specifications

Item No	MINI ARC-180i	MINI ARC-200i
Rated Input Voltage	1PH ~ 230V ±15%	1PH ~ 230V ±15%
Max. Load Power Capacity	7.65KVA	8.75KVA
Rated Duty Cycle(40°C)	60%	180A/27.2V
	100%	160A/26.4V
		200A/28V
		180A/27.2V
Welding Current/Voltage Range	20A/20.8V~180A/27.2V	20A/20.8V~200A/28V
Open Circuit Voltage	70V~80V	70V~80V
Power Factor	0.8	0.8
Efficiency	80%	80%
MMA Arc Force	Preset	Preset
	Hot Start Time	Preset
	Hot Start Current	Preset
Dimension	345x145x230mm	345x145x230mm
Weight	4.6KG	4.6KG

### Accessories

#### MINI ARC-140i/160i

For Standard accessories



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



Hand helmet  
Brush/hanner

For Optional accessories



TIG torch: TIG-17V  
Gas connector: M12  
Cable length 4M

### Accessories

#### MINI ARC-180i/200i

For Standard accessories



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



Hand helmet  
Brush/hanner

For Optional accessories



TIG torch: TIG-17V  
Gas connector: M12  
Cable length 4M

# STICK-200HD/200MV (PFC)

Digital control, Heavy duty power



## Quick Specs

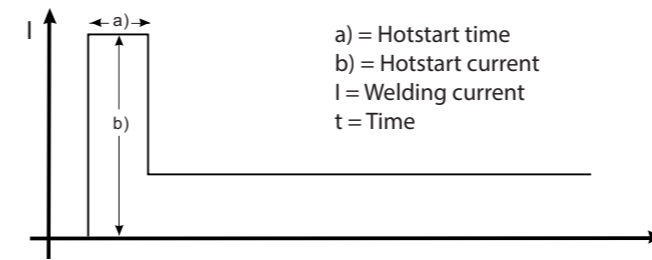


**Processes:**  
MMA(Stick)  
**Applications:**  
Construction industry  
Metal workshops  
Agriculture  
Repair and maintenance

**Input Power:**  
200HD: 115/230V, 1-Phase  
200MV: 230V or 115/230V, 1-Phase  
**Amperage Range:** 10-200A  
**Rated Out put at 40°C(104°F):**  
200A at 28V @60% Duty Cycle  
**Weight:** 12KG

## HOT START

Hot Start adaptive control provides positive arc start without sticking. See page 55



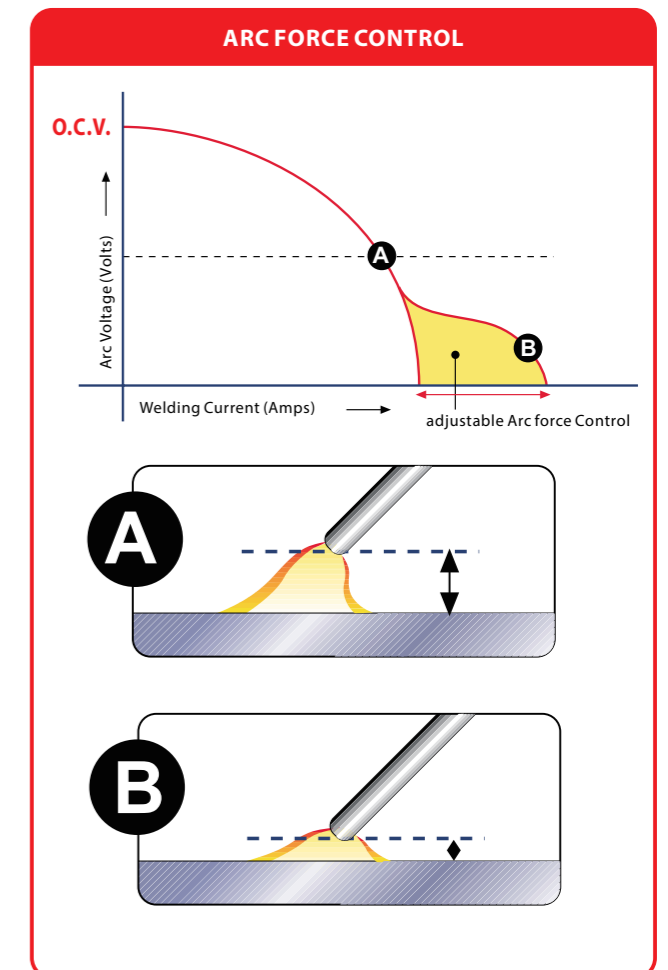
## 100% suitable for construction sites



Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.

## Arcforce correction (welding characteristics)

Arcforce is a setting that allows you to adjust the arc to soft smooth arc to a more aggressive digging arc. Setting high is to bump up amperage when you have a really tight arc so that you keep welding. See page 56



## TOP Features:

- Heavy duty cycle 60% at rated output.
- Available to use all electrode types.
- Premium welding performance.
- Powerful: designed for use with long supply cables.
- Portable in the shop or at the job site — at 4.5KG, the shoulder strap allows the end user to easily move from location to location.
- Antistick-weld like a professional -- the arc burns steadily without sticking or annealing of the stick electrode.
- Arc Force makes it easier to weld large-drop melting electrode types at low current strengths with a short arc in particular.
- Voltage Reduction Device (VRD). When enabled from the set up menu reduces the open circuit voltage in STICK mode for use in electrically hazardous conditions or when the use of a VRD is required.
- Generator power supply friendly.
- Power Factor Corrected (PFC) for optimum performance from 110 volts to 220 volts — reduces nuisance breaker tripping. (Optional)
- Fast, precise, clean arc ignition and arc ending.

# STICK-200HD/200MV (PFC)

## Technical specifications

Item No	STICK-200HD	STICK-200MV (PFC)
Rated Input Voltage	1PH ~ 230V ±15%	1PH ~ 115/230V +15%
Max. Load Power Capacity	8.75KVA	7.07KVA
Rated Duty Cycle(40°C)	60%	200A/28V
	100%	160A/26.4V
Welding Current/Voltage Range	20A/20.8V~200A/28V	20A/20.8V~200A/28V
Open Circuit Voltage	70V~80V	70~80V
Power Factor	0.8	0.99
Efficiency	80%	80%
MMA	Arc Force	1%~100%
	Hot Start Time	0.1-2S
	Hot Start Current	1%~100%
Dimension	410x185x310mmmm	410x185x310mmmm
Weight	12KG	12KG

### Accessories

#### STICK-200HD/200MV (PFC)

For Standard accessories



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



Hand helmet  
Brush/hanner

For Optional accessories



TIG torch: TIG-17V  
Gas connector: M12  
Cable length 4M



# ARC-315i/400i/500i/630i

Sturdy and durable MMA(Stick) welder



## Quick Specs



**Processes:**  
MMA(Stick)

**Applications:**  
Construction industry  
Metal workshops  
Agriculture  
Repair and maintenance

**Input Power:**  
315i: 400V, 3-Phase  
400i/500i/630i: 400V, 3-Phase

**Amperage Range:**

315i: 20-315A/400i: 20-400A  
500i: 20-500A/630i: 20-630A

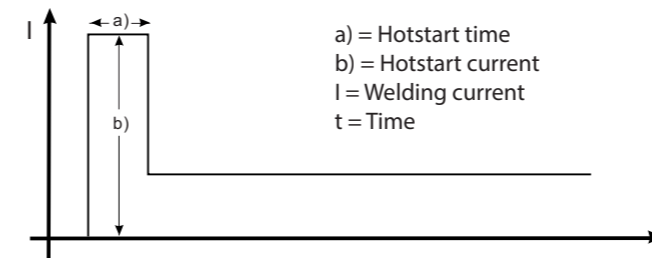
**Rated Out put at 40°C(104°F):**

315i: 315A at 32.6V @60% Duty Cycle  
400i: 400A at 36V @60% Duty Cycle  
500i: 500A at 40V @60% Duty Cycle  
630i: 630A at 44V @60% Duty Cycle

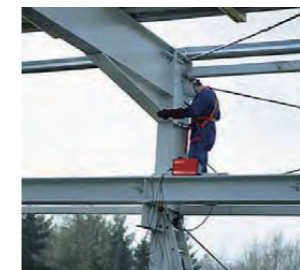
**Weight:** 315i: 20KG  
400i: 45KG/500i: 50KG/630i: 50KG

## HOT START

Hot Start adaptive control provides positive arc start without sticking. See page 55.



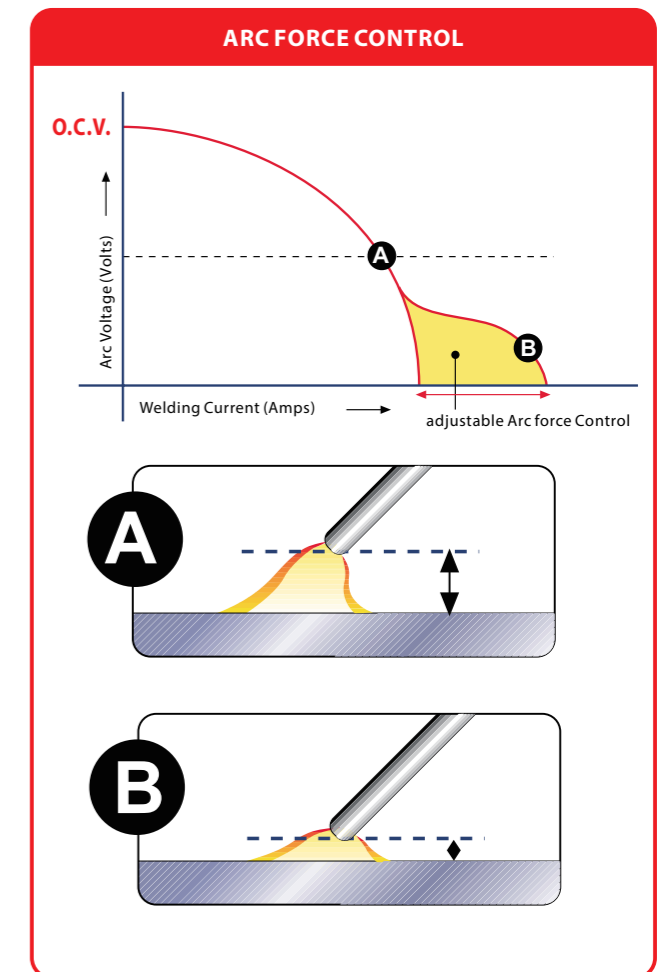
## 100% suitable for construction sites



Perfect for large construction sites and very tough assembly work with mains supply leads up to 50 metres or connected directly to a generator. High tolerance to mains fluctuations ensures a perfect welding result.

## Arcforce correction (welding characteristics)

Arcforce is a setting that allows you to adjust the arc to soft smooth arc to a more aggressive digging arc. Setting high is to bump up amperage when you have a really tight arc so that you keep welding. See page 56.



## TOP Features:

- **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.
- Expert of vertical-down welding with cellulose electrodes.
- **Special designed for carbon arc gouging.**
- **Fast, precise, clean arc ignition and arc ending.**
- **10 channels memory capacity**

# ARC-315i

## Technical specifications

Item No	ARC-315i	
Rated Input Voltage	3PH ~ 400V ±15%	
Max. Load Power Capacity	16.0 KVA	
Rated Duty Cycle(40°C)	60%	
	100%	
Rated Duty Cycle(40°C)	315A/32.6V	
	250A/30V	
Welding Current/Voltage Range	20A/20.8V~315A/32.6V	
Open Circuit Voltage	70V~80V	
Power Factor	0.8	
Efficiency	80%	
MMA Arc Force	1%~100%	
	Hot Start Time	0.1-2S
	Hot Start Current	1%~100%
Dimension	540x240x480mm	
Weight	20KG	

# ARC-400i/500i/630i

## Technical specifications

Item No	ARC-400i	ARC-500i	ARC-630i	
Rated Input Voltage	3PH ~ 400V ±15%	3PH ~ 400V ±15%	3PH ~ 400V ±15%	
Max. Load Power Capacity	19.93KVA	27.68KVA	39.41KVA	
Rated Duty Cycle(40°C)	60%	400A/36V	500A/40V	
	100%	315A/32.6V	400A/36V	
Rated Duty Cycle(40°C)	630A/45.2V	500A/40V	500A/40V	
Welding Current/Voltage Range	20A/20.8V~400A/36V	20A/20.8V~500A/40V	20A/20.8V~630A/45.2V	
Open Circuit Voltage	70V~80V	70V~80V	70V~80V	
Power Factor	0.85	0.85	0.85	
Efficiency	85%	85%	85%	
MMA Arc Force	1%~100%	1%~100%	1%~100%	
	Hot Start Time	0.1S~2S	0.1S~2S	0.1S~2S
	Hot Start Current	1%~100%	1%~100%	1%~100%
Dimension	680x310x650mm	680x310x650mm	680x310x650mm	
Weight	45KG	50KG	50KG	

### Accessories

#### ARC-315i

For Standard accessories



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



Hand helmet  
Brush/hanner

For Optional accessories



TIG torch: TIG-17V  
Gas connector:M12  
Cable length 4M

### Accessories

#### ARC-400i/500i/630i

For Standard accessories



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



Hand helmet  
Brush/hanner

For Optional accessories



Air Carbon Gouging Torch