

INDUSTRIAL EQUIPMENT CATALOGUE

# SMARTTECH

WELDING & CUTTING SYSTEMS

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Engineered power for fabrication, construction and heavy industry.  
MMA · TIG · MIG/CO<sub>2</sub> · Plasma Cutting — Machines, One Standard.

FULL PRODUCT RANGE — ALL MACHINES / 4 CATEGORIES

[Smartech.vip](http://Smartech.vip)

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# Built for the Working World.

**SMARTTECH** designs and supplies DC inverter welding and plasma-cutting equipment for fabrication workshops, construction sites, and industrial maintenance teams.

## HISTORY

*[Company history placeholder — founding year, milestones, manufacturing background to be supplied by client. ]*

## MISSION

*[Mission statement placeholder. ]*

## VISION

*[Vision statement placeholder. ]*

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## WHY SMARTTECH

- ✓ IGBT / Inverter Technology across the range
- ✓ Compact, portable, jobsite-ready design
- ✓ Digital current & parameter displays
- ✓ Built-in overload & thermal protection

# Four Categories. 57 Machines. One **Standard.**

From manual arc welding to CNC-ready plasma cutting, every **SMARTTECH** machine is built on the same inverter platform philosophy — stable output, digital control, and industrial-grade durability.

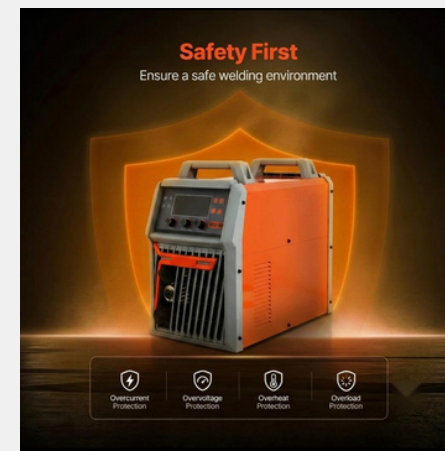
## 01 MMA / ARC Welding

24 DC inverter stick welders for fabrication & site work



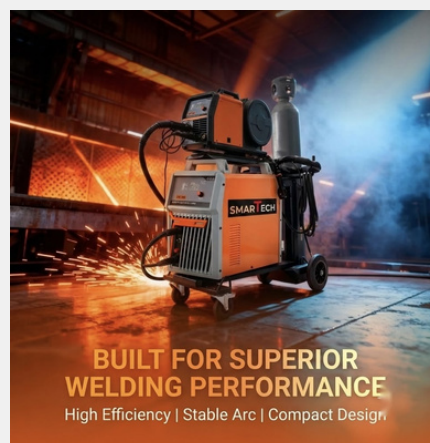
## 02 MIG/ CO<sub>2</sub> Welding

4 precision DCTIG/MMA dual-process inverters



## 03 TIG Welding

24 industrial wire-fed welders, static & mobile



## 04 Plasma Cutting

5 dual-module CNC-ready cutting systems





CATEGORY 1

# MMA WELDING

SMARTeCH's MMA / ARC range spans 24 configurations—from compact single-phase inverters to heavy-duty 3-phase industrial welders and dual-station flagships—engineered for stable arc, hot start, and anti-stick performance in every unit.

SMARTeCH — MMA / ARC RANGE



MMA SERIES — COMPACT



INPUT VOLTAGE  
**220V**

INPUT CAPACITY  
**5.5KVA**

OUTPUT CURRENT  
**20-120A**

WEIGHT  
**1.8KG**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-200

Model: MMA-200 | DCInverterMMAWelder

A compact blue-and-black DC inverter MMA welder with digital current display and dual dial controls, suited to light workshop and maintenance welding.

APPLICATIONS

|                        |                    |                    |                      |
|------------------------|--------------------|--------------------|----------------------|
| Steel Fabrication      | Structural Welding | Construction Sites | Maintenance & Repair |
| Agricultural Equipment |                    |                    |                      |

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER             | SPECIFICATION |
|-----------------------|---------------|
| Rated Input Voltage I | 220V          |
| Input Power Capacity  | 5.5KVA        |
| No-Load Voltage       | 70-80V        |
| Output Voltage Range  | 20-27V        |
| Output Current Range  | 20-120A       |
| Duty Cycle            | 60%           |

MMA SERIES — COMPACT



OUTPUT CURRENT  
Typical: 20–200A

DISPLAY  
Current Meter

WEIGHT  
Compact

COOLING  
Forced Air

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-200 (Industrial)

Model: MMA-200 (Industrial) | DCInverterMMAWelder

A compact IGBT single-tube MMA inverter in an industrial grey/orange housing, with a simple current-meter display and single output-current dial — built for light fabrication and site repair work.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                              |
|----------------------|--------------------------------------------|
| Rated Input Voltage  | Depends on configuration                   |
| Output Current Range | Typical specification — up to 200A         |
| Duty Cycle           | Depends on configuration                   |
| Control Panel        | Single current dial, digital current meter |

MMA SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220V**

OUTPUT CURRENT  
**20–120A**

WEIGHT  
**2.1KG**

ROD Ø  
**1.0–2.5mm**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-228A

Model: MMA-228A | DCInverterMMAWelder

The SMARTTECH MMA-228A is a digitally-controlled industrial MMA inverter with full 2-phase/3-phase network compatibility (220V/380V), VRD thrust arc initiation, and one-click adjustment for industrial-duty stick welding.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V          |
| Input Power Capacity | 4.0KVA        |
| No-Load Voltage      | 70–80V        |
| Output Voltage Range | 20–25.6V      |
| Output Current Range | 20–120A       |
| Duty Cycle           | 60%           |

MMA SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220/380V 3-Phase**

OUTPUT CURRENT  
**20-145A**

WEIGHT  
**3.6KG**

ROD Ø  
**2.5-3.2mm**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-258A

Model: MMA-258A | DCInverterMMAWelder

A step up from the MMA-228A, the MMA-258A adds full 3-phase (220V/380V) network compatibility for industrial welding requirements up to 3.2mm rod diameter.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION        |
|----------------------|----------------------|
| Rated Input Voltage  | 220V / 380V, 3-phase |
| Input Power Capacity | 4.5KVA               |
| No-Load Voltage      | 70-80V               |
| Output Voltage Range | 20-25.6V             |
| Output Current Range | 20-145A              |
| Duty Cycle           | 60%                  |

MMA SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220/380V**

OUTPUT CURRENT  
**20-180A**

WEIGHT  
**7.8KG**

ROD Ø  
**2.5-4.0mm**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-315I

Model: MMA-315I | DCInverterMMAWelder

The MMA-315I shares the MMA-315 platform's digital control and VRD thrust arc initiation, in a 2-phase 220V/380V configuration for industrial welding up to 4.0mm electrodes.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V / 380V   |
| Input Power Capacity | 5.5KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-27.2V      |
| Output Current Range | 20-180A       |
| Duty Cycle           | 60%           |

MMA SERIES — INDUSTRIAL FLAGSHIP



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**20–360A**

WEIGHT  
**14KG**

ROD Ø  
**2.5–5.0mm**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-500A

Model: MMA-500A | DCInverterMMAWelder

The SMARTTECH MMA-500A tops the industrial MMA range with 3-phase 380V input and up to 360A output for the heaviest fabrication welding loads, at 2.5–5.0mm electrode diameters.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 380V, 3-phase |
| Input Power Capacity | 12.5KVA       |
| No-Load Voltage      | 70–80V        |
| Output Voltage Range | 20–29.6V      |
| Output Current Range | 20–360A       |
| Duty Cycle           | 60%           |

MMA SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220/380V**

OUTPUT CURRENT  
**20-220A**

WEIGHT  
**7.5KG**

ROD Ø  
**2.5-4.0mm**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-315A

Model: MMA-315A | DCInverterMMAWelder

The SMARTTECH MMA-315A is a newly-upgraded, small-size high-current industrial MMA inverter with full-network 2-phase 220V/3-phase 380V compatibility, digital control, and VRD thrust arc initiation for 2.5-4.0mm electrodes.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION        |
|----------------------|----------------------|
| Rated Input Voltage  | 220V / 380V, 3-phase |
| Input Power Capacity | 6.8KVA               |
| No-Load Voltage      | 70-80V               |
| Output Voltage Range | 20-28.8V             |
| Output Current Range | 20-220A              |
| Duty Cycle           | 60%                  |



MMA SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220/380V**

OUTPUT CURRENT  
**20-180A**

WEIGHT  
**4.7KG**

ROD Ø  
**2.5-4.0mm**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-328A

Model: MMA-328A | DCInverterMMAWelder

The MMA-328A steps up output further for industrial-duty welding at 2.5-4.0mm rod diameters, with full 2-phase (220V/380V) network support.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V / 380V   |
| Input Power Capacity | 5.5KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-27.2V      |
| Output Current Range | 20-180A       |
| Duty Cycle           | 60%           |

MMA SERIES — INDUSTRIAL



INPUT VOLTAGE

220/380V

OUTPUT CURRENT

20-240A

WEIGHT

7.4KG

ROD Ø

2.5-4.0mm

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-400A

Model: MMA-400A | DCInverterMMAWelder

The MMA-400A extends the industrial MMA range to 240A output with full 2-phase 220V / 2-phase 380V / 3-phase 380V network compatibility for heavy fabrication welding.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                    |
|----------------------|----------------------------------|
| Rated Input Voltage  | 220V / 380V (2-phase or 3-phase) |
| Input Power Capacity | 7.5KVA                           |
| No-Load Voltage      | 70-80V                           |
| Output Voltage Range | 20-29.6V                         |
| Output Current Range | 20-240A                          |
| Duty Cycle           | 60%                              |

MMA SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220/380V**

OUTPUT CURRENT  
**20–210A**

WEIGHT  
**4.8KG**

ROD Ø  
**2.5–4.0mm**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-428A

Model: MMA-428A | DCInverterMMAWelder

The MMA-428A is a higher-current industrial MMA inverter for continuous heavy-duty welding at 2.5–4.0mm rod diameters, with 2-phase 220V/380V network support.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V / 380V   |
| Input Power Capacity | 6.5KVA        |
| No-Load Voltage      | 70–80V        |
| Output Voltage Range | 20–28.4V      |
| Output Current Range | 20–210A       |
| Duty Cycle           | 60%           |

MMA SERIES — COMPACT



INPUT VOLTAGE  
**220V**

INPUT CAPACITY  
**5.5KVA**

OUTPUT CURRENT  
**20-120A**

WEIGHT  
**1.9KG**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-145

Model: MMA-145 | DC Inverter MMA Welder

A compact entry-level DC inverter MMA welder from the same platform family as the MMA-200/300/400, IGBT single-tube design for light-duty repair and maintenance welding.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V          |
| Input Power Capacity | 5.5KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-27V        |
| Output Current Range | 20-120A       |
| Duty Cycle           | 60%           |

MMA SERIES — COMPACT



INPUT VOLTAGE

220/380V

INPUT CAPACITY

5.5KVA

OUTPUT CURRENT

20-145A

WEIGHT

3.2KG

MMA / ARC WELDING — INVERTER

SMARTeCH ARC-255

Model: ARC-255 | DC InverterMMAWelder

A dual-voltage (220V/380V) DC inverter ARC/MMA welder in a yellow/white compact housing, IGBT single-tube design for site and workshop welding.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V / 380V   |
| Input Power Capacity | 5.5KVA 70-    |
| Output Voltage Range | 80V 20-27V    |
| Output Current Range | 20-145A       |
| Duty Cycle           | 60%           |

MMA SERIES — COMPACT



INPUT VOLTAGE  
**220/380V**

INPUT CAPACITY  
**5.5KVA**

OUTPUT CURRENT  
**20-120A**

WEIGHT  
**3.6KG**

MMA / ARC WELDING — INVERTER

SMARTTECH ARC-275

Model: ARC-275 | DC InverterMMAWelder

A dual-voltage (220V/380V) DC inverter ARC/MMA welder in a blue compact housing, IGBT single-tube design for general fabrication welding.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V / 380V   |
| Input Power Capacity | 5.5KVA 70-    |
| Output Voltage Range | 80V 20-27V    |
| Output Current Range | 20-120A       |
| Duty Cycle           | 60%           |

MMA SERIES — COMPACT



INPUT VOLTAGE

220V

INPUT CAPACITY

5.5KVA

OUTPUT CURRENT

20-120A

WEIGHT

1.7KG

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-300

Model: MMA-300 | DCInverterMMAWelder

A compact blue-and-black DC inverter MMA welder, IGBT single-tube design, with stable arc and minimal spatter for general fabrication and repair welding.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 5.5KVA        |
| Input Power Capacity | 70-80V        |
| Output Voltage Range | 20-27V        |
| Output Current Range | 20-120A       |
| Duty Cycle           | 60%           |

MMA SERIES



OUTPUT CURRENT  
Typical: up to 315A

INPUT VOLTAGE  
220/380V

DISPLAY  
Digital + LED

MOBILITY  
Handle-carry

MMA / ARC WELDING — INVERTER

SMARTTECH ZX7-315S

Model: ZX7-315S | DC Inverter MMA Welder

The SMARTTECH ZX7-315S is a wide-voltage (220V/380V) DC inverter stick welder with dual analog dials for thrust current and welding current, and status indicators for supply voltage and protection state.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                          |
|----------------------|----------------------------------------|
| Rated Input Voltage  | 220V / 380V (wide-voltage)             |
| Output Current Range | Typical specification — up to 315A     |
| Duty Cycle           | Depends on configuration               |
| Control Panel        | Thrust current + welding current dials |



MMA SERIES



OUTPUT CURRENT  
**20–400A**

INPUT VOLTAGE  
**220/380V**

ELECTRODE Ø  
**1.6–5.0mm**

WEIGHT  
**Varies**

MMA / ARC WELDING — INVERTER

SMARTTECH ZX7-400S

Model: ZX7-400S | DC InverterMMAWelder

The SMARTTECH ZX7-400S is a high-performance DC inverter MMA welding machine designed for fabrication workshops, construction sites and industrial maintenance. Built using IGBT inverter technology with wide-voltage (220V/380V) input compatibility, it delivers a stable arc, adjustable arc-force current, and reliable welding quality in a compact, site-ready enclosure.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                             |
|----------------------|-------------------------------------------|
| Rated Input Voltage  | 220V / 380V (wide-voltage, auto-adapting) |
| Output Current Range | Typical specification — 20–400A           |
| Duty Cycle           | Depends on configuration                  |

MMA SERIES — DIGITAL



OUTPUT CURRENT  
**20–400A**

INPUT VOLTAGE  
**220/380V Digital**

DISPLAY  
**Digital LCD**

WEIGHT  
**Varies**

MMA / ARC WELDING — INVERTER

SMARTTECH ZX7-400T

Model: ZX7-400T | DC InverterMMAWelder

The SMARTTECH ZX7-400T upgrades the ZX7 platform with a full digital control display and single- knob digital parameter adjustment, auto-switching between 220V and 380V supply for sites with variable power infrastructure.

APPLICATIONS

- Steel Fabrication
- Structural Welding
- Construction Sites
- Maintenance & Repair
- Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                      |
|----------------------|------------------------------------|
| Rated Input Voltage  | 220V / 380V (digital dual-voltage) |
| Output Current Range | Typical specification — 20–400A    |
| Duty Cycle           | Depends on configuration           |
| Control Interface    | Digital LCD + parameter knob       |

MMA SERIES



OUTPUT CURRENT  
Typical: 20–400A

INPUT VOLTAGE  
Depends on config

DISPLAY  
Digital

MOBILITY  
Handle-carry

MMA / ARC WELDING — INVERTER

SMARTTECH ZX7-400 (Standard)

Model: ZX7-400 (Standard) | DCInverterMMAWelder

A standard single-voltage configuration of the ZX7-400 DC inverter welder, with dedicated current and thrust-force dial controls and a digital current readout — built for everyday stick-welding on steel fabrication and site work.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                                 |
|----------------------|-----------------------------------------------|
| Rated Input Voltage  | Depends on configuration                      |
| Output Current Range | Typical specification — 20-400A               |
| Duty Cycle           | Depends on configuration                      |
| Control Panel        | Current + thrust-force dials, digital display |

MMA SERIES — COMPACT



INPUT VOLTAGE  
**220V**

INPUT CAPACITY  
**5.5KVA**

OUTPUT CURRENT  
**20-120A**

WEIGHT  
**2.3KG**

MMA / ARC WELDING — INVERTER

SMARTTECH MMA-400

Model: MMA-400 | DCInverterMMAWelder

A DC inverter MMA welder stepping up to 400A-class output, IGBT single-tube design with multiple overheat/overcurrent/overvoltage/undervoltage protections.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V          |
| Input Power Capacity | 5.5KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-27V        |
| Output Current Range | 20-120A       |
| Duty Cycle           | 60%           |

MMA SERIES — HEAVY DUTY



OUTPUT CURRENT  
Typical: up to 500A

INPUT VOLTAGE  
Depends on config

MODULES  
Dual Module

MOBILITY  
Handle-carry

MMA / ARC WELDING — INVERTER

SMARTTECH ZX7-500 (Standard)

Model: ZX7-500 (Standard) | DCInverterMMAWelder

A higher-output ZX7-500 configuration for heavier fabrication loads, with digital current display and dual dial controls for current and thrust-force adjustment, in a dual-module industrial enclosure.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                                 |
|----------------------|-----------------------------------------------|
| Rated Input Voltage  | Depends on configuration                      |
| Output Current Range | Typical specification — up to 500A            |
| Duty Cycle           | Depends on configuration                      |
| Control Panel        | Current + thrust-force dials, digital display |

MMA SERIES — FLAGSHIP



OUTPUT CURRENT  
**Up to 630A**

STATIONS  
**A / B Dual**

MOBILITY  
**Castor Wheels**

COOLING  
**Forced Air**

MMA / ARC WELDING — INVERTER

SMARTeCH ZX7-630

Model: ZX7-630 | DC InverterMMAWelder

The SMARTeCH ZX7-630 is a heavy-duty IGBT dual-station welding machine for high-volume fabrication, with independent A/B current controls allowing two operators to weld simultaneously from one power source. Castor-mounted for shop-floor mobility.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER                  | SPECIFICATION                               |
|----------------------------|---------------------------------------------|
| Rated Input Voltage        | Depends on configuration (three-phase)      |
| Output Current Range       | Typical specification — up to 630A combined |
| Number of Welding Stations | 2 (A/B independent + total control)         |
| Duty Cycle                 | Depends on configuration                    |

MMA SERIES — COMPACT



INPUT VOLTAGE  
**220V**

INPUT CAPACITY  
**5.5KVA**

OUTPUT CURRENT  
**20-120A**

WEIGHT  
**3.3KG**

MMA / ARC WELDING — INVERTER

SMARTTECH ARC-950

Model: ARC-950 | DC InverterMMAWelder

A DC inverter ARC/MMA welder in a teal/green compact housing, IGBT single-tube design with the same protection suite as the rest of the compact range.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V          |
| Input Power Capacity | 5.5KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-27V        |
| Output Current Range | 20-120A       |
| Duty Cycle           | 60%           |

MMA SERIES — HEAVY INDUSTRIAL



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**40–280A**

ROD Ø  
**φ2.5–φ5.0**

WEIGHT  
**Varies**

MMA / ARC WELDING — INVERTER

SMARTTECH ZX7-400 (Industrial)

Model: ZX7-400 (Industrial380V) | DCInverterMMAWelder

The industrial-duty ZX7-400 is a 380V three-phase IGBT-module DC inverter welder with a full-airduct high-speed fan, independently adjustable welding and thrust current, and a classic thickened metal casing for harsh site environments.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER              | SPECIFICATION |
|------------------------|---------------|
| Rated Input Voltage    | 380V, 3-phase |
| Input Power Capacity   | 10.5KVA       |
| No-Load Output Voltage | 70–80V        |
| Output Voltage Range   | 20–31.2V      |
| Output Current Range   | 40–280A       |



MMA SERIES — HEAVY INDUSTRIAL



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**40-320A**

ROD Ø  
**φ2.5-φ5.0**

WEIGHT  
**Varies**

MMA / ARC WELDING — INVERTER

SMARTTECH ZX7-500 (Industrial

Model: ZX7-500 (Industrial380V) | DCInverterMMAWelder

The industrial-duty ZX7-500 extends the 380V three-phase platform to 320A output, with independently adjustable welding/thrust current and multiple overheat/overcurrent/overvoltage/undervoltage/VRD protections for continuous heavy fabrication.

APPLICATIONS

Steel Fabrication

Structural Welding

Construction Sites

Maintenance & Repair

Agricultural Equipment

KEY FEATURES

- ✓ IGBT Single-Tube Inverter Technology
- ✓ Hot Start & Arc-Force Control
- ✓ VRD Electric-Shock Prevention
- ✓ Stable Arc, Minimal Spatter
- ✓ Overheat / Overcurrent / Overvoltage / Undervoltage Protection
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER              | SPECIFICATION |
|------------------------|---------------|
| Rated Input Voltage    | 380V, 3-phase |
| Input Power Capacity   | 10.5KVA 70-   |
| No-Load Output Voltage | 80V 20-32V    |
| Output Voltage Range   | 40-320A       |
| Output Current Range   |               |

# MMA Range Comparison

Aside-by-side overview of the full SMARTTECH MMA / ARC inverter welding range, from compact site units to heavy 3-phase industrial welders. All figures are typical for each model family — confirm against the datasheet for the exact configuration ordered.

| MODEL                | OUTPUT CURRENT      | INPUT VOLTAGE     | ROD Ø     | WEIGHT  | MOBILITY      |
|----------------------|---------------------|-------------------|-----------|---------|---------------|
| ZX7-400S             | Typical: 20-400A    | 220/380V          | 1.6-5.0mm | Varies  | Handle-carry  |
| ZX7-400T             | Typical: 20-400A    | 220/380V digital  | 1.6-5.0mm | Varies  | Handle-carry  |
| ZX7-630              | Typical: up to 630A | Depends on config | -         | Varies  | Castor wheels |
| ZX7-400 (Standard)   | Typical: 20-400A    | Depends on config | -         | Varies  | Handle-carry  |
| ZX7-315S             | Typical: up to 315A | 220/380V          | -         | Varies  | Handle-carry  |
| ZX7-500 (Standard)   | Typical: up to 500A | Depends on config | -         | Varies  | Handle-carry  |
| MMA-200 (Industrial) | Typical: up to 200A | Depends on config | -         | Compact | Handle-carry  |
| MMA-200              | 20-120A             | 220V              | -         | 1.8KG   | Handle-carry  |
| MMA-300              | 20-120A             | 220V              | -         | 1.7KG   | Handle-carry  |
| MMA-400              | 20-120A             | 220V              | -         | 2.3KG   | Handle-carry  |
| MMA-145              | 20-120A             | 220V              | -         | 1.9KG   | Handle-carry  |
| ARC-255              | 20-145A             | 220/380V          | -         | 3.2KG   | Handle-carry  |
| ARC-275              | 20-120A             | 220/380V          | -         | 3.6KG   | Handle-carry  |
| ARC-950              | 20-120A             | 220V              | -         | 3.3KG   | Handle-carry  |
| MMA-228A             | 20-120A             | 220V              | 1.0-2.5mm | 2.1KG   | Handle-carry  |

|                      |         |              |           |        |              |
|----------------------|---------|--------------|-----------|--------|--------------|
| MMA-258A             | 20-145A | 220/380V 3ph | 2.5-3.2mm | 3.6KG  | Handle-carry |
| MMA-328A             | 20-180A | 220/380V     | 2.5-4.0mm | 4.7KG  | Handle-carry |
| MMA-428A             | 20-210A | 220/380V     | 2.5-4.0mm | 4.8KG  | Handle-carry |
| MMA-315A             | 20-220A | 220/380V 3ph | 2.5-4.0mm | 7.5KG  | Handle-carry |
| MMA-315I             | 20-180A | 220/380V     | 2.5-4.0mm | 7.8KG  | Handle-carry |
| MMA-400A             | 20-240A | 220/380V     | 2.5-4.0mm | 7.4KG  | Handle-carry |
| MMA-500A             | 20-360A | 380V 3ph     | 2.5-5.0mm | 14KG   | Handle-carry |
| ZX7-400 (Industrial) | 40-280A | 380V 3ph     | 2.5-5.0mm | Varies | Handle-carry |
| ZX7-500 (Industrial) | 40-320A | 380V 3ph     | 2.5-5.0mm | Varies | Handle-carry |

All figures marked "Typical" reflect the common configuration for each OEM model family. Several entries share verified datasheet specifications from supplier documentation — see individual product pages for source notes.

STANDARD ACCESSORIES — MMA RANGE

- Electrode Holder
- Ground / Earth Clamp
- Power Cable
- Earth Cable

CATEGORY 2

# TIG WELDING

Dual-process DC TIG/MMA inverters, plus dedicated industrial argon-arc (WSM) welders, delivering precise arc control for thin-gauge and high-finish welding across stainless, mild steel and specialty alloys.

SMARTTECH — TIG RANGE

## Safety First

Ensure a safe welding environment



Overcurrent  
Protection



Overvoltage  
Protection



Overheat  
Protection



Overload  
Protection

TIG SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220V**

OUTPUT CURRENT  
**20-130A**

WEIGHT  
**4.3KG**

ROD Ø  
**2.5-3.2mm**

TIG WELDING — DUAL-PROCESS DC INVERTER

SMARTTECH WSM-200A

Model: WSM-200A | DCInverterArgon-Arc(TIG)Welder

The SMARTTECH WSM-200A is a digitally-controlled industrial TIG (argon tungsten-arc) welder with full 220V network compatibility, one-click adjustment, and VRD thrust arc initiation for precision welding up to 3.2mm rod diameter.

APPLICATIONS

Stainless Steel Fabrication

Precision Welding

Automotive Repair

Sheet Metal Work

KEY FEATURES

- ✓ Digital Control, Stronger Stability
- ✓ One-Click Parameter Adjustment
- ✓ Industrial-Duty Output
- ✓ Full 220V Network Compatibility
- ✓ VRD Thrust Arc Initiation, Multiple Pulse Options
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V          |
| Input Power Capacity | 6.8KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-28V        |
| Output Current Range | 20-130A       |
| Duty Cycle           | 60%           |

TIG SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220/380V**

OUTPUT CURRENT  
**20-130A**

WEIGHT  
**4.5KG**

ROD Ø  
**2.5-3.2mm**

TIG WELDING — DUAL-PROCESS DC INVERTER

SMARTTECH WSM-250A

Model: WSM-250A | DCInverterArgon-Arc(TIG)Welder

The SMARTTECH WSM-250A steps up the WSM TIG platform to 220V/380V network compatibility for industrial-duty precision welding up to 3.2mm rod diameter.

APPLICATIONS

Stainless Steel Fabrication

Precision Welding

Automotive Repair

Sheet Metal Work

KEY FEATURES

- ✓ Digital Control, Stronger Stability
- ✓ One-Click Parameter Adjustment
- ✓ Industrial-Duty Output
- ✓ Full 220V/380V Network Compatibility
- ✓ VRD Thrust Arc Initiation, Multiple Pulse Options
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V / 380V   |
| Input Power Capacity | 6.8KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-29.6V      |
| Output Current Range | 20-130A       |
| Duty Cycle           | 60%           |
| Weight               | 4.5KG         |

TIG SERIES



PROCESS  
TIG / MMA

OUTPUT CURRENT  
Up to 315A

IGNITION  
Lift / HF

COOLING  
Forced Air

TIG WELDING — DUAL-PROCESS DC INVERTER

SMARTTECH TIG-315

Model: TIG-315 | DC InverterTIG/MMAWelder

The SMARTTECH TIG-315 is a dual-process DC inverter welder combining precision TIG welding with full MMA stick-welding capability in a single unit, with adjustable gas delay and stable low-current arc control.

APPLICATIONS

Stainless Steel Fabrication

Precision Welding

Automotive Repair

Sheet Metal Work

KEY FEATURES

- ✓ Dual Process — TIG & MMA
- ✓ Digital Current Display
- ✓ Hot Start & Anti-Stick (MMA mode)
- ✓ Adjustable Gas Delay
- ✓ Stable Low-Current Arc
- ✓ Portable Industrial Enclosure

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                      |
|----------------------|------------------------------------|
| Process              | DC TIG (Lift/HF start) + MMA       |
| Output Current Range | Typical specification — up to 315A |
| Duty Cycle           | Depends on configuration           |
| Gas Type             | Argon (TIG mode)                   |

TIG SERIES — FLAGSHIP



PROCESS  
TIG / MMA

OUTPUT CURRENT  
Up to 400A

IGNITION  
Lift / HF

COOLING  
Forced Air

TIG WELDING — DUAL-PROCESS DC INVERTER

SMARTTECH TIG-400

Model: TIG-400 | DC InverterTIG/MMAWelder

The SMARTTECH TIG-400 steps up the TIG/MMA dual-process platform to 400A-class output, with the same TIG/MMA selector, adjustable gas delay, and digital current display for heavier-duty precision welding.

APPLICATIONS

Stainless Steel Fabrication

Precision Welding

Automotive Repair

Sheet Metal Work

KEY FEATURES

- ✓ Dual Process — TIG & MMA
- ✓ Digital Current Display
- ✓ Hot Start & Anti-Stick (MMA mode)
- ✓ Adjustable Gas Delay
- ✓ Stable Low-Current Arc
- ✓ Portable Industrial Enclosure

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                      |
|----------------------|------------------------------------|
| Process              | DC TIG (Lift/HF start) + MMA       |
| Output Current Range | Typical specification — up to 400A |
| Duty Cycle           | Depends on configuration           |
| Gas Type             | Argon (TIG mode)                   |



# TIG Range Comparison

SMARTTECH's TIG range spans dual-process TIG/MMA inverters and dedicated industrial argon-arc (WSM) welders.

| MODEL    | PROCESS         | OUTPUT CURRENT      | INPUT VOLTAGE     | WEIGHT |
|----------|-----------------|---------------------|-------------------|--------|
| TIG-315  | TIG / MMA       | Typical: up to 315A | Depends on config | Varies |
| TIG-400  | TIG / MMA       | Typical: up to 400A | Depends on config | Varies |
| WSM-200A | TIG (Argon-Arc) | 20-130A             | 220V              | 4.3KG  |
| WSM-250A | TIG (Argon-Arc) | 20-130A             | 220/380V          | 4.5KG  |

All figures marked "Typical" reflect common configurations; WSM-200A/250A figures are sourced from manufacturer datasheet.

## STANDARD ACCESSORIES — TIG RANGE

- TIG Torch
- Argon Gas Regulator
- Tungsten Electrode Kit
- Earth Cable

CATEGORY 3

# MIG / CO<sub>2</sub> WELDING

SMART<sup>TECH</sup>'s MIG/CO<sub>2</sub> range spans 24 configurations—compact single-panel workshop units through to 3-phase heavy-industrial and dual-module production welders with carbon-gouging capability.

SMART<sup>TECH</sup> — MIG / CO<sub>2</sub> RANGE



**BUILT FOR SUPERIOR  
WELDING PERFORMANCE**

High Efficiency | Stable Arc | Compact Design

MIG SERIES — COMPACT



OUTPUT CURRENT  
Typical: up to 270A

PANEL  
Single Knob Digital

MODES  
MMA /Flux/Lift-TIG

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-270 (Panel B)

Model: MIG-270 | InverterMIGWeldingMachine—DigitalPanel

This MIG-270 configuration uses a single-knob digital current control with IGBT badge and status LEDs for MMA / Flux-Core 0.8 / Flux-Core 1.0 / Lift-TIG modes.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                       |
|----------------------|-------------------------------------|
| Process              | MIG / Flux-Core / Lift-TIG / MMA    |
| Output Current Range | Typical specification — up to 270A  |
| Duty Cycle           | Depends on configuration            |
| Control Panel        | Single-knob digital current control |
| Cooling Method       | Forced air cooling                  |

Photo shows a visually distinct control-panel design from MIG-270 (Panel A) above under the same model name — confirm with supplier which panel corresponds to your incoming stock.

MIG SERIES — FLAGSHIP



PROCESS  
**MIG/Flux/  
TIG/MMA/ SYN**

DISPLAY  
**Dual Digital**

HOUSING  
**Rugged Red/Black**

COOLING  
**Forced Air**

MIG / CO<sub>2</sub> WELDING — INVERTER

**SMARTTECH** MIG-950

Model: MIG-950 | DC Inverter Multi-Process Welder

The **SMARTTECH** MIG-950 is a multi-process DC inverter welder supporting Flux-Core (0.8/1.0), Lift-TIG, MMA, and Synergic MIG modes, in a rugged red/black industrial housing with dual digital voltage/current displays.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Multi-Process: MIG / Flux / Lift-TIG / MMA / SYN
- ✓ Synergic Wire-Speed Control
- ✓ Overheat & Overload Protection
- ✓ Dual Digital Voltage & Current Display
- ✓ Rugged Industrial Housing
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                                      |
|----------------------|----------------------------------------------------|
| Process              | MIG / Flux-Core / Lift-TIG / MMA / Synergic        |
| Output Current Range | Typical specification                              |
| Duty Cycle           | Depends on configuration                           |
| Control Panel        | Dual digital display, mode selector, synergic dial |
| Cooling Method       | Forced air cooling                                 |

MIG SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220V**

OUTPUT CURRENT  
**20-130A**

WEIGHT  
**4KG**

WIRE Ø  
**0.8-1.0mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-200

Model: MIG-200 | IGBTModuleSoft-SwitchingInverter MIG Welder

The SMARTTECH MIG-200 uses IGBT module soft-switching inverter technology for vertical, flat, corner and overhead welding techniques, with a thickened shell for industrial environments such as steel-structure shipyards.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ IGBT Module Soft-Switching Inverter
- ✓ High-Speed Air Duct Cooling
- ✓ Wire & Gas Diameter: 2.5-4.0 / 0.8-1.0mm
- ✓ Multi-Position Welding (Vertical/Flat/Corner/Overhead)
- ✓ Thickened, Harsh-Environment Shell
- ✓ Industrial-Grade Assistance

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 220V          |
| Input Power Capacity | 6.8KVA        |
| No-Load Voltage      | 70-80V        |
| Output Voltage Range | 20-29.6V      |
| Output Current Range | 20-130A       |
| Duty Cycle           | 60%           |
| Weight               | 4KG           |

MIG SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220V**

OUTPUT CURRENT  
**20-150A**

WEIGHT  
**4KG**

WIRE Ø  
**0.8-1.0mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-250

Model: MIG-250 | IGBTModuleSoft-SwitchingInverter MIG Welder

The SMARTTECH MIG-250 extends the MIG-200 platform to a wider wire/rod range (2.5-5.0mm / 0.8-1.0mm) for heavier industrial welding requirements.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ IGBT Module Soft-Switching Inverter
- ✓ Multi-Position Welding (Vertical/Flat/Corner/Overhead)
- ✓ High-Speed Air Duct Cooling
- ✓ Thickened, Harsh-Environment Shell
- ✓ Wire & Gas Diameter: 2.5-5.0 / 0.8-1.0mm
- ✓ Industrial-Grade Assistance

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |     |
|----------------------|---------------|-----|
| Rated Input Voltage  | 220V          |     |
| Input Power Capacity | 6.8KVA        |     |
| No-Load Voltage      | 70-80V        |     |
| Output Voltage Range | 20-29.6V      | 20- |
| Output Current Range | 150A          |     |
| Duty Cycle           | 60%           |     |
| Weight               | 4KG           |     |
| Dimensions           | 310×155×290mm |     |

MIG SERIES — DIGITAL



OUTPUT CURRENT  
**Up to 350A**

PANEL  
**Full Digital**

MOBILITY  
**Static Feet**

COOLING  
**Forced Air**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-35 Digital

Model: NBC-35 | InverterÇOWelder—FullDigitalPanel

The SMARTTECH NBC-35 Digital replaces the analog switch layout with a full digital function-button panel for one-touch mode, wire-check and gas-check selection.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                            |
|----------------------|------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded       |
| Output Current Range | Typical specification — up to 350A       |
| Duty Cycle           | Depends on configuration                 |
| Control Panel        | Full digital function-button panel       |
| Gas Type             | CO <sub>2</sub> / Ar-CO <sub>2</sub> mix |
| Cooling Method       | Forced air cooling                       |



MIG SERIES — COMPACT



OUTPUT CURRENT  
Typical: up to 270A

DISPLAY  
Dual Digital

MOBILITY  
Static Feet

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-270

Model: NBC-270 | InverterCOWelder

The SMARTTECH NBC-270 is a compact inverter CO<sub>2</sub> gas-shielded welder with dual digital voltage/ current displays and mode switches for MMA, MIG, and wire/gas check functions.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                        |
|----------------------|--------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded   |
| Output Current Range | Typical specification — up to 270A   |
| Duty Cycle           | Depends on configuration             |
| Control Panel        | Mode switches + dual digital display |
| Cooling Method       | Forced air cooling                   |



MIG SERIES — COMPACT



OUTPUT CURRENT  
Typical: up to 270A

PANEL  
Switch + Dial

DISPLAY  
Dual Digital

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-270 (Panel A)

Model: MIG-270 | InverterCOWelder—SwitchPanel

This MIG-270 configuration uses a manual switch panel (MMA/MIG mode, wire-check, gas-check) with dual digital voltage/current displays.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                               |
|----------------------|---------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded          |
| Output Current Range | Typical specification — up to 270A          |
| Duty Cycle           | Depends on configuration                    |
| Control Panel        | Manual mode switches + dual digital display |
| Cooling Method       | Forced air cooling                          |

A second MIG-270 photo with a different (IGBT-badged, single-knob) control panel design was also supplied — likely an alternate control-panel revision of the same model. See MIG-270 (Panel B) below.

MIG SERIES — COMPACT



PROCESS  
MIG / MMA

DISPLAY  
Dual Digital

PANEL  
Switch + Dial

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-300

Model: MIG-300 | DC Inverter MIG/MMA Welder

The SMARTTECH MIG-300 is a compact dual-process MIG/MMA inverter with dedicated MMA/MIG mode switches, wire-check and gas-check functions, and dual digital displays for voltage and current.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                         |
|----------------------|---------------------------------------|
| Process              | MIG / CO <sub>2</sub> + MMA           |
| Output Current Range | Typical specification                 |
| Duty Cycle           | Depends on configuration              |
| Control Panel        | MMA/MIG mode switches, wire/gas check |
| Cooling Method       | Forced air cooling                    |

MIG SERIES — COMPACT



OUTPUT CURRENT  
Typical: up to 315A

DISPLAY  
Dual Digital

MOBILITY  
Static Feet

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-315

Model: NBC-315 | InverterCOWelder

The SMARTTECH NBC-315 extends the compact NBC platform to 315A-class output, with the same dual digital display and mode-switch control panel as the NBC-270.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                        |
|----------------------|--------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded   |
| Output Current Range | Typical specification — up to 315A   |
| Duty Cycle           | Depends on configuration             |
| Control Panel        | Mode switches + dual digital display |
| Cooling Method       | Forced air cooling                   |

MIG SERIES



OUTPUT CURRENT  
Up to 350A

MOBILITY  
Static Feet

PANEL  
Switch + Meter

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-350

Model: NBC-350 | InverterCOGas-ShieldedWelder — Standard

The SMARTTECH NBC-350 is an inverter-based CO<sub>2</sub> gas-shielded MIG welder for general fabrication and production welding, with a manual switch panel and dual analog-style meters for arc voltage and current.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                             |
|----------------------|-------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded        |
| Output Current Range | Typical specification — up to 350A        |
| Duty Cycle           | Depends on configuration                  |
| Control Panel        | Manual switches + analog-style dual meter |
| Gas Type             | CO <sub>2</sub> / Ar-CO <sub>2</sub> mix  |

MIG SERIES — MOBILE



OUTPUT CURRENT

Up to 350A

MOBILITY

Castor Wheels

GUARD

Reinforced Handle

COOLING

Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-350 Mobile

Model: NBC-350 (Castor) | InverterCOWelder—Mobile

This mobile configuration of the NBC-350 mounts the same inverter CO<sub>2</sub> welding platform on a castor-wheeled base with a reinforced red handle guard for rolling directly to the workpiece.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                            |
|----------------------|------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded       |
| Output Current Range | Typical specification — up to 350A       |
| Duty Cycle           | Depends on configuration                 |
| Mobility             | Castor wheels, reinforced handle guard   |
| Gas Type             | CO <sub>2</sub> / Ar-CO <sub>2</sub> mix |
| Cooling Method       | Forced air cooling                       |

MIG SERIES — FLAGSHIP



OUTPUT CURRENT  
Up to 500A

MOBILITY  
Static Feet

MODULES  
Dual Module

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500

Model: NBC-500 | Dual-Module Inverter CO<sub>2</sub> Welder — Standard

The SMARTTECH NBC-500 is an industrial-grade dual-module inverter MIG/CO<sub>2</sub> welder for high-duty production, with manual switch panel and analog-style dual meters.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                             |
|----------------------|-------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded        |
| Output Current Range | Typical specification — up to 500A        |
| Duty Cycle           | Depends on configuration                  |
| Control Panel        | Manual switches + analog-style dual meter |
| Gas Type             | CO <sub>2</sub> / Ar-CO <sub>2</sub> mix  |
| Cooling Method       | Forced air cooling                        |

MIG SERIES — REINFORCED



OUTPUT CURRENT  
**Up to 500A**

GUARD  
**Reinforced Red**

MOBILITY  
**Static Feet**

COOLING  
**Forced Air**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500 Reinforced

Model: NBC-500 (Red Guard) | Dual-Module Inverter CO<sub>2</sub> Welder

This NBC-500 variant keeps the static-feet analog-panel configuration but adds a reinforced red handle guard over the torch connection block for high-traffic workshop protection.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                             |
|----------------------|-------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded        |
| Output Current Range | Typical specification — up to 500A        |
| Duty Cycle           | Depends on configuration                  |
| Control Panel        | Manual switches + analog-style dual meter |
| Protective Guard     | Reinforced red handle / connector guard   |
| Cooling Method       | Forced air cooling                        |

MIG SERIES — MOBILE



OUTPUT CURRENT  
**Up to 500A**

MOBILITY  
**Castor Wheels**

MODULES  
**Dual Module**

COOLING  
**Forced Air**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500 Mobile

Model: NBC-500 (Castor) | Dual-Module Inverter CO<sub>2</sub> Welder

The NBC-500 Mobile places the dual-module CO<sub>2</sub> welding platform on a castor-wheeled base for repositioning a high-output production welder around a fabrication bay.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                            |
|----------------------|------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded       |
| Output Current Range | Typical specification — up to 500A       |
| Duty Cycle           | Depends on configuration                 |
| Mobility             | Castor wheels                            |
| Gas Type             | CO <sub>2</sub> / Ar-CO <sub>2</sub> mix |
| Cooling Method       | Forced air cooling                       |



MIG SERIES — MOBILE REINFORCED



OUTPUT CURRENT  
Up to 500A

MOBILITY  
Castor Wheels

GUARD  
Reinforced Red

COOLING  
Forced Air

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500 Mobile

Model: NBC-500 (Castor,RedGuard) | Dual-Module Inverter CO<sub>2</sub> Welder

Combining castor-wheel mobility with a reinforced red handle guard for production floors needing both mobility and torch-connector protection.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                           |
|----------------------|-----------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded      |
| Output Current Range | Typical specification — up to 500A      |
| Duty Cycle           | Depends on configuration                |
| Mobility             | Castor wheels                           |
| Protective Guard     | Reinforced red handle / connector guard |

MIG SERIES — SOFT-SWITCH



OUTPUT CURRENT  
**Up to 500A**

PANEL  
**Full Digital**

START  
**Soft-Switch**

MOBILITY  
**Castor Wheels**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500 Soft-Switch

Model: NBC-500 Soft-Switch | Dual-Module Inverter CO<sub>2</sub> Welder

The NBC-500 Soft-Switch upgrades the control panel to full digital function-buttons with soft-start switching electronics to reduce arc-start spatter.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                                         |
|----------------------|-------------------------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded                    |
| Output Current Range | Typical specification — up to 500A                    |
| Duty Cycle           | Depends on configuration                              |
| Control Panel        | Full digital function-button panel, soft-switch start |
| Mobility             | Castor wheels                                         |
| Cooling Method       | Forced air cooling                                    |

MIG SERIES — DIGITAL



OUTPUT CURRENT  
**Up to 500A**

PANEL  
**Full Digital**

MOBILITY  
**Castor Wheels**

COOLING  
**Forced Air**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500 Digital

Model: NBC-500 Digital | Dual-Module Inverter CO<sub>2</sub> Welder

The NBC-500 Digital pairs the dual-module CO<sub>2</sub> welding platform with a full digital function-button control panel and castor-wheel mobility.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                      |
|----------------------|------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded |
| Output Current Range | Typical specification — up to 500A |
| Duty Cycle           | Depends on configuration           |
| Control Panel        | Full digital function-button panel |
| Mobility             | Castor wheels                      |
| Cooling Method       | Forced air cooling                 |

MIG SERIES — DIGITAL II



OUTPUT CURRENT  
**Up to 500A**

PANEL  
**Full Digital**

MOBILITY  
**Castor Wheels**

COOLING  
**Forced Air**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500 Digital II

Model: NBC-500 DigitalII | Dual-ModuleInverterCOWelder

A further digital-panel configuration of the NBC-500 on a castor-wheeled base, mirroring the NBC-500 Digital's control layout and specification.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ Dual-Module Inverter Architecture
- ✓ Wire & Gas Self-Check Modes
- ✓ Digital Voltage / Current Display
- ✓ Adjustable Arc Voltage & Inductance
- ✓ Industrial-Grade Enclosure
- ✓ Forced-Air Cooling

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                      |
|----------------------|------------------------------------|
| Process              | MIG / CO <sub>2</sub> Gas-Shielded |
| Output Current Range | Typical specification — up to 500A |
| Duty Cycle           | Depends on configuration           |
| Control Panel        | Full digital function-button panel |
| Mobility             | Castor wheels                      |
| Cooling Method       | Forced air cooling                 |

MIG SERIES — INDUSTRIAL



INPUT VOLTAGE  
**220/380V**

OUTPUT CURRENT  
**40-270A**

WEIGHT  
**Varies**

WIRE Ø  
**0.8-1.0mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-300 Industrial

Model: MIG-300 (Industrial) | HighArc-InitiationInverterCOWelder

This industrial MIG-300 configuration uses IGBT single-tube high arc-initiation technology for a high arc-strike success rate, with a high-definition LCD panel, filter reactor for spatter reduction, and classic metal casing.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ IGBT Single-Tube High Arc-Initiation
- ✓ Highly Stable Wire-Feed Power Supply
- ✓ Classic Metal Casing
- ✓ High-Definition LCD, Freely Switchable Welding Functions
- ✓ Filter Reactor — Stable Arc, Low Spatter
- ✓ Wire & Rod Ø: 2.5/4.0 – 0.8/1.0mm

TECHNICAL SPECIFICATIONS

| PARAMETER              | SPECIFICATION |
|------------------------|---------------|
| Rated Input Voltage    | 220V / 380V   |
| Input Power Capacity   | 10.5KVA       |
| No-Load Output Voltage | 70-80V        |
| Output Voltage Range   | 14-32V        |
| Output Current Range   | 40-270A       |
| Duty Cycle             | 50%           |
| Dimensions             | 490×250×440mm |

MIG SERIES — INDUSTRIAL FLAGSHIP



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**60–350A**

WEIGHT  
**28KG**

WIRE Ø  
**0.8–1.2mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-350A

Model: MIG-350A | IGBTModuleSoft-SwitchingInverter MIG Welder — 3-Phase

The SMARTTECH MIG-350A moves to 380V three-phase power for industrial high-load welding up to 350A, with the same multi-position welding capability and thickened shell as the compact MIG range, now on a wheeled industrial chassis.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ IGBT Module Soft-Switching Inverter, 3-Phase 380V
- ✓ High-Speed Air Duct Cooling
- ✓ Wire & Gas Diameter: 2.5–4.0 / 0.8–1.2mm
- ✓ Multi-Position Welding (Vertical/Flat/Corner/Overhead)
- ✓ Thickened, Harsh-Environment Shell
- ✓ Steel-Structure Shipyard Grade Assistance

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 380V, 3-phase |
| Input Power Capacity | 13.7KVA 70–   |
| Output Voltage Range | 80V 17–40V    |
| Output Current Range | 60–350A       |
| Duty Cycle           | 60%           |

Weight 28KG

MIG SERIES — HEAVY INDUSTRIAL



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**40–350A**

WEIGHT  
**Varies**

WIRE Ø  
**0.8–1.2mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-350 Industrial

Model: NBC-350 (Industrial) | IGBT Hard-Switch Inverter CO<sub>2</sub> Welder — 3-Phase

This heavy-industrial NBC-350 uses IGBT module hard-switch inverter technology for vertical, flat, corner and overhead welding, with a high-speed air duct rated for continuous industrial-load welding such as steel structure shipyards.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ IGBT Hard-Switch Inverter Technology, 3-Phase 380V
- ✓ High-Speed Air Duct — Continuous Heavy-Load Rated
- ✓ Wire & Rod Ø: 2.5/5.0 – 0.8/1.0/1.2mm
- ✓ Multi-Position Welding (Vertical/Flat/Corner/Overhead)
- ✓ Thickened Metal Shell
- ✓ Steel-Structure Shipyard Grade Assistance

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 380V, 3-phase |
| Input Power Capacity | 13.7KVA 70–   |
| Output Voltage Range | 80V 12–40V    |
| Output Current Range | 40–350A       |
| Duty Cycle           | 50%           |

MIG SERIES — INDUSTRIAL FLAGSHIP



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**60-500A**

WEIGHT  
**30KG**

WIRE Ø  
**0.8-1.6mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH MIG-500A

Model: MIG-500A | IGBTModuleSoft-SwitchingInverter MIG Welder — 3-Phase

The SMARTTECH MIG-500A tops the industrial MIG range at 500A output on 380V three-phase power, for the heaviest structural steelwork and shipyard welding, with wire diameters up to 1.6mm.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ IGBT Module Soft-Switching Inverter, 3-Phase 380V
- ✓ High-Speed Air Duct Cooling
- ✓ Wire & Gas Diameter: 2.5-5.0 / 0.8-1.6mm
- ✓ Multi-Position Welding (Vertical/Flat/Corner/Overhead)
- ✓ Thickened, Harsh-Environment Shell
- ✓ Steel-Structure Shipyard Grade Assistance

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 380V, 3-phase |
| Input Power Capacity | 24.4KVA 70-   |
| Output Voltage Range | 80V 17-50V    |
| Output Current Range | 60-500A       |
| Duty Cycle           | 60%           |
| Weight               | 30KG          |



MIG SERIES — HEAVY INDUSTRIAL FLAGSHIP



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**60–500A**

MOBILITY  
**Castor Wheels**

WIRE Ø  
**0.8–1.2mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

SMARTTECH NBC-500 Industrial

Model: NBC-500 (Industrial) | IGBTSoft-SwitchInverterCOWelder—3-Phase

The heavy-industrial NBC-500 steps up to IGBT soft-switch inverter technology and 500A output on a wheeled chassis, for the heaviest continuous-duty structural and shipyard welding.

APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

KEY FEATURES

- ✓ IGBT Soft-Switch Inverter Technology, 3-Phase 380V
- ✓ High-Speed Air Duct — Continuous Heavy-Load Rated
- ✓ Wire & Rod Ø: 2.5/5.0 – 0.8/1.0/1.2mm
- ✓ Multi-Position Welding (Vertical/Flat/Corner/Overhead)
- ✓ Thickened Metal Shell, Castor-Mounted
- ✓ Steel-Structure Shipyard Grade Assistance

TECHNICAL SPECIFICATIONS

| PARAMETER              | SPECIFICATION |
|------------------------|---------------|
| Rated Input Voltage    | 380V, 3-phase |
| Input Power Capacity   | 24.4KVA       |
| No-Load Output Voltage | 70–80V        |
| Output Voltage Range   | 17–50V        |
| Output Current Range   | 60–500A       |
| Duty Cycle             | 50%           |
| Dimensions             | 570×310×570mm |

MIG SERIES — HEAVY INDUSTRIAL FLAGSHIP



INPUT VOLTAGE  
**380V 3-Phase**

OUTPUT CURRENT  
**60–500A**

MOBILITY  
**Castor Wheels**

GOUGING Ø  
**Up to 1.6mm**

MIG / CO<sub>2</sub> WELDING — INVERTER

# SMARTTECH NBC-500D Industrial

Model: NBC-500D (Industrial) | IGBTSoft-SwitchInverterCO/Googing  
Welder — 3-Phase

The NBC-500D adds carbon-rod arc-gouging capability (up to Ø1.6mm) to the NBC-500 Industrial platform, on a castor-wheeled chassis for the heaviest structural and shipyard fabrication work.

## APPLICATIONS

Structural Steelwork

Shipbuilding

Heavy Manufacturing

Pipeline Fabrication

Arc Gouging & Weld Preparation

## KEY FEATURES

- ✓ IGBT Soft-Switch Inverter Technology, 3-Phase 380V
- ✓ Carbon-Rod Arc Gouging Capability
- ✓ Multi-Position Welding (Vertical/Flat/Corner/Overhead)
- ✓ High-Speed Air Duct — Continuous Heavy-Load Rated
- ✓ Thickened Metal Shell, Castor-Mounted
- ✓ Wire/Rod/Carbon Ø: 2.5/5.0mm, 0.8/1.0/1.2/1.6mm

## TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION |
|----------------------|---------------|
| Rated Input Voltage  | 380V, 3-phase |
| Input Power Capacity | 24.4KVA 70–   |
| Output Voltage Range | 80V 17–50V    |
| Output Current Range | 60–500A       |

## MIG / CO<sub>2</sub> Range Comparison

SMARTTECH's MIG/CO<sub>2</sub> range spans compact workshop units through to heavy 3-phase industrial welders with carbon-gouging capability.

| MODEL                     | OUTPUT CURRENT      | INPUT VOLTAGE     | MOBILITY      |
|---------------------------|---------------------|-------------------|---------------|
| NBC-350                   | Typical: up to 350A | Depends on config | Static feet   |
| NBC-350 Mobile            | Typical: up to 350A | Depends on config | Castor wheels |
| NBC-35 Digital            | Typical: up to 350A | Depends on config | Static feet   |
| NBC-500                   | Typical: up to 500A | Depends on config | Static feet   |
| NBC-500 Reinforced        | Typical: up to 500A | Depends on config | Static feet   |
| NBC-500 Mobile            | Typical: up to 500A | Depends on config | Castor wheels |
| NBC-500 Mobile Reinforced | Typical: up to 500A | Depends on config | Castor wheels |
| NBC-500 Soft-Switch       | Typical: up to 500A | Depends on config | Castor wheels |
| NBC-500 Digital           | Typical: up to 500A | Depends on config | Castor wheels |
| NBC-500 Digital II        | Typical: up to 500A | Depends on config | Castor wheels |
| MIG-300                   | Typical             | Depends on config | Static feet   |
| NBC-270                   | Typical: up to 270A | Depends on config | Static feet   |
| NBC-315                   | Typical: up to 315A | Depends on config | Static feet   |
| MIG-270 (Panel A)         | Typical: up to 270A | Depends on config | Static feet   |
| MIG-270 (Panel B)         | Typical: up to 270A | Depends on config | Static feet   |
| MIG-950                   | Typical             | Depends on config | Static feet   |

|                            |                    |          |               |
|----------------------------|--------------------|----------|---------------|
| <b>MIG-200</b>             | 20-130A            | 220V     | Static feet   |
| <b>MIG-250</b>             | 20-150A            | 220V     | Static feet   |
| <b>MIG-350A</b>            | 60-350A            | 380V 3ph | Castor wheels |
| <b>MIG-500A</b>            | 60-500A            | 380V 3ph | Castor wheels |
| <b>MIG-300 Industrial</b>  | 40-270A            | 220/380V | Static feet   |
| <b>NBC-350 Industrial</b>  | 40-350A            | 380V 3ph | Static feet   |
| <b>NBC-500 Industrial</b>  | 60-500A            | 380V 3ph | Castor wheels |
| <b>NBC-500D Industrial</b> | 60-500A (+gouging) | 380V 3ph | Castor wheels |

All figures marked "Typical" reflect common OEM configurations. Several NBC-500/NBC-350 units are visually similar production variants — confirm exact model/configuration codes against the supplier packing list before final print.

STANDARD ACCESSORIES — MIG / CO<sub>2</sub> RANGE

- MIG Torch
- Gas Hose
- Wire Feed Roller
- Earth Cable

CATEGORY 4

# PLASMA CUTTING

Dual-module, dual-gas-valve CNC-ready plasma cutting systems for clean, fast cuts across mild steel, stainless and aluminium.

SMARTECH — PLASMA CUTTING RANGE

**SMARTECH**

## BUILT FOR SUPERIOR WELDING PERFORMANCE

High Efficiency | Stable Arc | Compact Design



PLASMA SERIES



RATED CURRENT  
**60A**

CONTROL  
**Manual**

GAS VALVES  
**Single**

COOLING  
**Forced Air**

PLASMA CUTTING — DUAL-MODULE CNC-READY

SMARTTECH LGK-60

Model: LGK-60 | DC Inverter Plasma Cutter

The SMARTTECH LGK-60 is a compact DC inverter plasma cutter for workshops and light-industrial cutting tasks, with a single current knob, adjustable gas delay, and digital amperage display.

APPLICATIONS

Sheet Metal Cutting

Structural Steel

CNC Cutting Tables

Automotive Repair

KEY FEATURES

- ✓ DC Inverter Technology
- ✓ Adjustable Gas Delay
- ✓ Overheat Protection
- ✓ Digital Amperage Display
- ✓ Compact, Portable Enclosure
- ✓ Manual Operating Mode

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION               |
|----------------------|-----------------------------|
| Rated Output Current | Typical specification — 60A |
| Cutting Thickness    | Depends on configuration    |
| Operating Mode       | Manual                      |
| Gas Type             | Compressed Air              |
| Cooling Method       | Forced air cooling          |

PLASMA SERIES



RATED CURRENT  
**80A**

CONTROL  
**Manual**

GAS VALVES  
**Single**

COOLING  
**Forced Air**

PLASMA CUTTING — DUAL-MODULE CNC-READY

SMARTTECH LGK-80

Model: LGK-80 | DC InverterPlasmaCutter

The SMARTTECH LGK-80 steps up the compact plasma platform to 80A-class cutting, with the same single current knob, adjustable gas delay, and digital amperage display as the LGK-60.

APPLICATIONS

Sheet Metal Cutting

Structural Steel

CNC Cutting Tables

Automotive Repair

KEY FEATURES

- ✓ DC Inverter Technology
- ✓ Adjustable Gas Delay
- ✓ Overheat Protection
- ✓ Digital Amperage Display
- ✓ Compact, Portable Enclosure
- ✓ Manual Operating Mode

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION               |
|----------------------|-----------------------------|
| Rated Output Current | Typical specification — 80A |
| Cutting Thickness    | Depends on configuration    |
| Operating Mode       | Manual                      |
| Gas Type             | Compressed Air              |
| Cooling Method       | Forced air cooling          |

PLASMA SERIES



RATED CURRENT  
**100A**

CONTROL  
**Manual / Auto**

GAS VALVES  
**Dual**

COOLING  
**Forced Air**

PLASMA CUTTING — DUAL-MODULE CNC-READY

SMARTTECH LGK-100

Model: LGK-100 | Dual-ModuleDual-Gas-ValvePlasma Cutter

The SMARTTECH LGK-100 is a dual-module, dual-gas-valve plasma cutting system offering manual and automatic (CNC) operating modes, digital amperage display, and automatic gas-check function.

APPLICATIONS

Sheet Metal Cutting

Structural Steel

CNC Cutting Tables

Automotive Repair

KEY FEATURES

- ✓ Manual / Automatic (CNC) Modes
- ✓ Digital Amperage Display
- ✓ Fault & Working Status Indicators
- ✓ Dual Gas Valve System
- ✓ Automatic Gas Self-Check
- ✓ Dual-Module Inverter Design

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                     |
|----------------------|-----------------------------------|
| Rated Output Current | Typical specification — 100A      |
| Cutting Thickness    | Depends on configuration          |
| Operating Mode       | Manual / Automatic (CNC-ready)    |
| Gas Type             | Compressed Air / Gas (dual valve) |
| Cooling Method       | Forced air cooling                |



PLASMA SERIES — FLAGSHIP



RATED CURRENT  
**120A**

CONTROL  
**Manual / Auto**

GAS VALVES  
**Dual**

COOLING  
**Forced Air**

PLASMA CUTTING — DUAL-MODULE CNC-READY

SMARTTECH LGK-120

Model: LGK-120 | Dual-ModuleDual-Gas-ValvePlasma Cutter

The SMARTTECH LGK-120 tops the plasma range with the highest rated current in the family, retaining the dual-module, dual-gas-valve architecture and manual/automatic CNC-ready operation.

APPLICATIONS

Sheet Metal Cutting

Structural Steel

CNC Cutting Tables

Automotive Repair

KEY FEATURES

- ✓ Manual / Automatic (CNC) Modes
- ✓ Digital Amperage Display
- ✓ Fault & Working Status Indicators
- ✓ Dual Gas Valve System
- ✓ Automatic Gas Self-Check
- ✓ Dual-Module Inverter Design

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                     |
|----------------------|-----------------------------------|
| Rated Output Current | Typical specification — 120A      |
| Cutting Thickness    | Depends on configuration          |
| Operating Mode       | Manual / Automatic (CNC-ready)    |
| Gas Type             | Compressed Air / Gas (dual valve) |
| Cooling Method       | Forced air cooling                |

PLASMA SERIES — FLAGSHIP



RATED CURRENT  
**120A**

CONTROL  
**Manual / Auto**

GAS VALVES  
**Dual**

COOLING  
**Forced Air**

PLASMA CUTTING — DUAL-MODULE CNC-READY

SMARTTECH LGK-120 (Alt. Unit)

Model: LGK-120 | Dual-ModuleDual-Gas-ValvePlasmaCutter

A second production unit of the LGK-120, shown here on static feet. Specification matches the standard LGK-120; confirm serial/packing-list codes before listing as a distinct SKU.

APPLICATIONS

Sheet Metal Cutting

Structural Steel

CNC Cutting Tables

Automotive Repair

KEY FEATURES

- ✓ Manual / Automatic (CNC) Modes
- ✓ Digital Amperage Display
- ✓ Fault & Working Status Indicators
- ✓ Dual Gas Valve System
- ✓ Automatic Gas Self-Check
- ✓ Dual-Module Inverter Design

TECHNICAL SPECIFICATIONS

| PARAMETER            | SPECIFICATION                     |
|----------------------|-----------------------------------|
| Rated Output Current | Typical specification — 120A      |
| Cutting Thickness    | Depends on configuration          |
| Operating Mode       | Manual / Automatic (CNC-ready)    |
| Gas Type             | Compressed Air / Gas (dual valve) |
| Cooling Method       | Forced air cooling                |

# Plasma Range Comparison

The SMARTTECH plasmarangescalesfromportable60Acuttersto heavy-duty 120A dual-module systems.

| MODEL               | RATED CURRENT | GAS VALVES | CONTROL MODE       | DISPLAY |
|---------------------|---------------|------------|--------------------|---------|
| LGK-60              | Typical: 60A  | Single     | Manual             | Digital |
| LGK-80              | Typical: 80A  | Single     | Manual             | Digital |
| LGK-100             | Typical: 100A | Dual       | Manual / Automatic | Digital |
| LGK-120             | Typical: 120A | Dual       | Manual / Automatic | Digital |
| LGK-120 (Alt. Unit) | Typical: 120A | Dual       | Manual / Automatic | Digital |

All specifications marked "Typical" reflect the common configuration for this OEM model family and should be verified against the manufacturer datasheet before publishing final figures.

## STANDARD ACCESSORIES — PLASMA RANGE

- Plasma Torch
- Ground / Earth Clamp
- Air Filter Regulator
- Consumable Kit

# Accessories & Consumables

Genuine SMARTTECH accessories and consumables, matched to every machine in the range for consistent weld and cut quality.



## Electrode Holder

Insulated holder for MMA electrodes



## Ground Clamp

Heavy-duty earth / ground clamp



## TIG Torch

Air-cooled torch with consumable kit



## MIG Torch

Wire-feed torch, various tip sizes



## Plasma Torch

Cutting torch with nozzle & electrode set



## Gas Hose

Reinforced gas supply hose



## Power Cable

Heavy-gauge industrial power cable



## Wire Feed Roller

Replacement roller, various wire sizes

GET IN TOUCH

# Let's Build Something Strong.

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Jiqiu Town, Hedong District, Linyi City, Shandong Province.

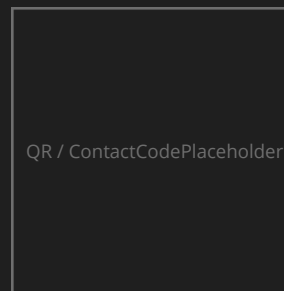
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SCAN FOR FULL  
PRODUCT CATALOGUE

**SMARTTECH**

WELDING & CUTTING SYSTEMS

