



# NEOMIG series Product Instruction

MULTI-PROCESS IGBT INVERTER WELINDG MACHINE

## Parameter

Model#	NEOMIG-160 (BV)	NEOMIG-180 (BV)	NEOMIG-200
Type	FULL-BRIDGE IGBT INVERTER WELDING MACHINE		
Rated Input Voltage (V)	Single Phase ~ 220V   110V&220V		
Rated input frequency (Hz)	50/60Hz		
Rated input Power (KVA)	4.5KW	5.3KW	6.5KW
Non-load Voltage (V)	60V	60V	60V
Output current MIG (A) @220V	20 - 160A	20 - 180A	20 - 200A
Output current MMA (A) @220V	20 - 140A	20 - 160A	20 - 180A
Output current TIG (A) @220V	20 - 140A	20 - 160A	20 - 180A
Output current MIG (A) @110V	20 - 120A	20 - 120A	/
Output current MMA (A) @110V	20- 120A	20 - 120A	/
LIFT TIG WELDING PROCESS	YES	YES	YES
Duty cycle (%) @ 30°C	60%	60%	60%
Efficiency (%)	85%	85%	85%
Class of Insulation	F	F	F
Shell protection grade	IP21S	IP21S	IP21S
Suggested Electrode Max.	3.2mm	4.0mm	4.0mm
Suggested Welding Wire Dia.	0.6mm/0.8mm/1.0mm	0.6mm/0.8mm/1.0mm	0.6mm/0.8mm/1.0mm
MAX, MIG WIRE INSIDE(KG)	5kg	5kg	5kg
Connector size	13mm	13mm	13mm
N.W./G.W. (kg)	11kg/17kg	11kg/17kg	11kg/17kg
Machine Size (LxWxH mm)	520*320*400mm	520*320*400mm	520*320*400mm
Packaging	BROWN CARTON	BROWN CARTON	BROWN CARTON
Dimnsions (WXDXH mm)	620*380*450mm	620*380*450mm	620*380*450mm

## Features:

### 1. 4-IN-1 Multi-Process

NEOMIG series welder combos with MIG/MAG, FLUX, MMA and DC LIFT TIG welding process in one unit.

- A. Support Solid wire 0.6/0.8/1.0mm
- B. Support Flux Cored Wire 0.8/1.0/1.2mm
- C. Support Basic/Rutile/Cellulose electrode welding

## For Reference

Material & Gas		Wire Dia.	Welding Current	Welding Voltage	Workpiece Thick.
Fe	CO2	0.8mm	50A – 150A	18 – 22V	0.9 – 4mm
		1.0mm	70A – 180A	18 – 22V	2 – 12mm
	CO2+Ar	Wire Dia.	Min. Welding Current	Welding Voltage	Workpiece Thick.
		0.8mm	30A – 150A	17 – 22V	0.4 – 6mm
	1.0mm	50A – 300A	18 – 32V	2 – 20mm	
Material & Gas		Wire Dia.	Min. Welding Current	Welding Voltage	Workpiece Thick.
Ss	Ar+CO2	0.8mm	30A – 120A	17 – 24V	0.4 – 6mm
		1.0mm	50A – 300A	17 – 34V	1 – 12mm
Material & Gas		Wire Dia.	Min. Welding Current	Welding Voltage	Workpiece Thick.
Flux	NO GAS	0.8mm	50A – 150A	18 – 22V	0.9 – 4mm
		1.0mm	70A – 180A	18 – 22V	2 – 12mm
Material & Gas		Wire Dia.	Min. Welding Current	Welding Voltage.	Workpiece Thick.

### 2. FULL-BRIDGE Circuit Design

As to the Full-Bridge circuit design, it makes more smooth welding, higher working cycle, and longer service life.

### 3. Inductance Regulation for MIG/MAG welding

- A. Adjust the welding softness for satisfying the user's welding habit.
- B. Adjust the penetration, ensure the adhesion of the weld bead, realize the consistent penetration of the workpiece, and improve the welding quality of the workpiece

### 4. GAS Detection & Quick Wire Feeding for MIG/MAG welding

- A. Gas Detection: Check the gas flow before welding, make sure the smooth welding
- B. Quick Wire Feeding: Speeding up the wire feeding after assembling the wire, saving the time.

### 5. Quick ARC-START and Wave Control for MIG/MAG welding

Stabilized the small current transition, Reduce the splash of large current by 70% ~ 80%,

The constant current arc starting improves the arc starting to 100%.

Adopt analog circuit high-speed and accurate control technology, to achieve precise control of each droplet transfer and high-speed welding.

High penetration rate and excellent weld bridging ability, realize the wide gap welding and high weld quality.

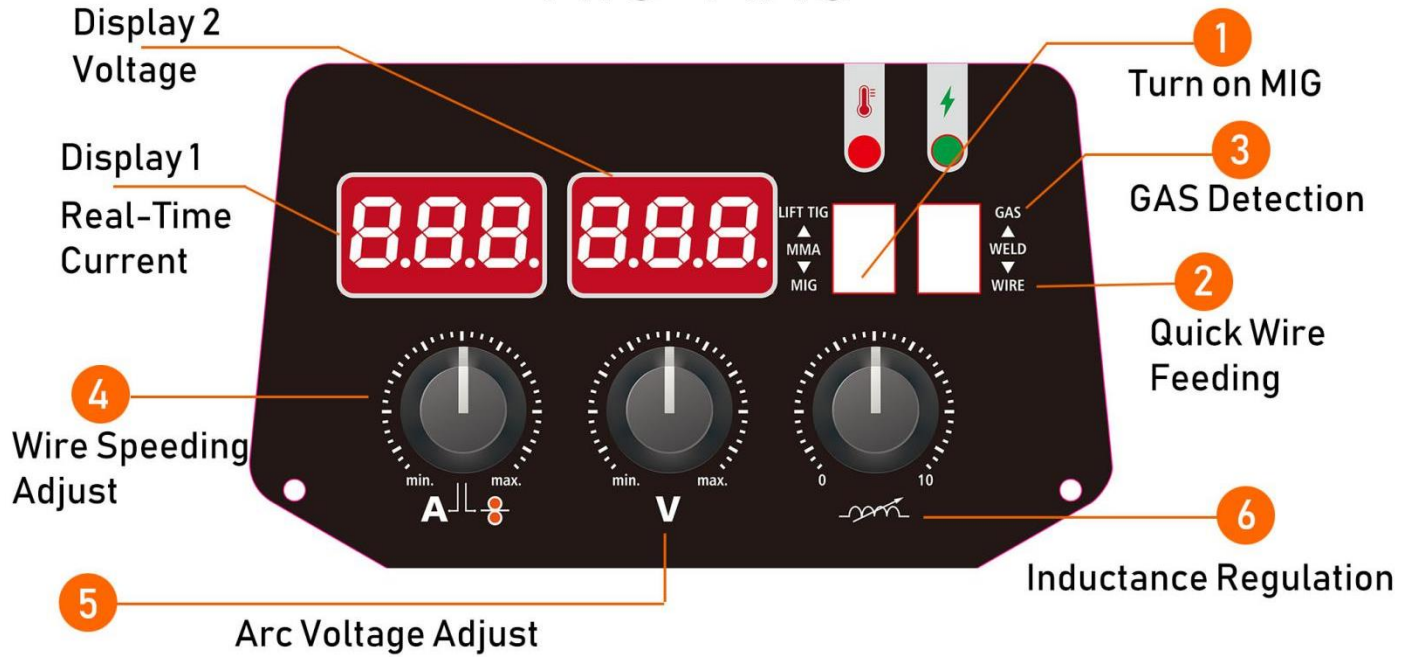
Ultra-low heat input can control the formation of weld and minimize the deformation.

### 6. Optimize ARC-STOP

Optimize the ARC-STOP for precise control. The process of arc stopping is smooth and fast, it increases the contact area for next welding, and improves the continuity of welding process.

## OPERATING & SETTING

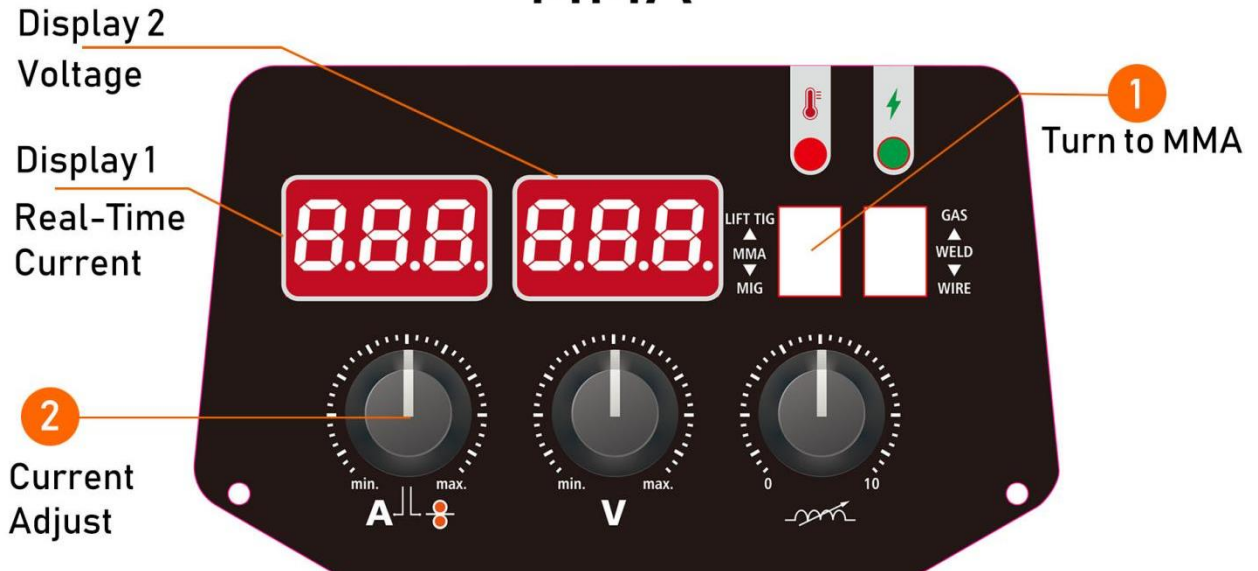
### MIG-MAG



Display 1: Real-Time Current Displayed

Display 2: Load Voltage Displayed

### MMA



Display 1: Real-time Current, Only displayed during MMA welding

Display 2: When not welding, it displayed the no-load voltage. The load voltage is displayed during welding

# TIG



Display 1: Real-time Current, Only displayed during TIG welding

Display 2: When not welding, it displayed the no-load voltage. The load voltage is displayed during welding

## Product Details:





## Accessories&Shapes:

### Type 1



## TYPE 2



### Ready-TO-WELD:

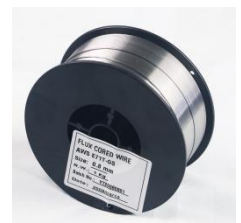
The machine comes with standard accessories:

1. 1x MB15AK MIG TROCH with 3m cable
2. 1x 200A Electrode holder with 2m cable
3. 1x 300A Ground clamp with 2m cable
4. 1x Welding mask
5. 1x Brush/Hammer

Standard Accessories:



Meanwhile, we offer optional accessories for Flux Welding, and TIG welding.



Optional Accessories	SPECIFICATION		*** REMARK ***
1. For MIG Welding (NO-GAS/GAS)	1. General Standard MIG Torch	MB15AK	Standard
	2. Knurled Groove wire feeding roller	0.6-0.8mm	Optional
		0.8-1.0mm	Optional
	3. Tips for M.S. wire	0.6/0.8/1.0mm	Optional
	4. Knurled Groove Roller	0.8-1.0mm	Optional
5. E71T-GS Flux cored wire		0.8mm/1Kg	Optional
		0.8mm/5Kg	Optional
2. For Spool gun welding	Spool Gun (QLBF-200iii) with 3m cable		Optional
	Spool gun wire feeding roller	0.8-0.9mm/ 0.8-1.0mm	Optional
3. For Lift TIG welding	WP17V Lift TIG torch with 4m cable		Optional

If you want to learn more Optional Accessories, please contact sales for more information.

**Video Link:** [https://youtu.be/89X38i6\\_UVA](https://youtu.be/89X38i6_UVA)



**DECAPOWER**



**FLUX WELDING**  
SOLDADURA FLUX



**MIG WELDING**  
SOLDADURA MIG



**ARC WELDING**  
SOLDADURA POR ARCO



**TIG WELDING**  
SOLDADURA TIG



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