



SYNMIG SERIES 140A/160A/180A

MULTI-PROCESS INVERTER WELINDG MACHINE

Parameter:

Model#	SYNMIG-140	SYNMIG-160	SYNMIG-180
Type	IGBT	IGBT	IGBT
Rated Input Voltage (V)	220V	220V	220V
Rated input frequency (Hz)	50/60Hz	50/60Hz	50/60Hz
Rated input Power (KVA)	4.5Kw	5.5Kw	6.5KW
Non-load Voltage (V)	60V	60V	60V
Output current MIG/MAG (A)	140A	160A	180A
Output current MMA (A)	140A	160A	180A
Output current TIG LIFT (A)	140A	160A	180A
Synergy Control (MIG mode)	Available	Available	Available
Manual Control (MIG mode)	Available	Available	Available
Inductance Regulation	-10-0-+10	-10-0-+10	-10-0-+10
VRD (MMA mode)	ON/OFF	ON/OFF	ON/OFF
ARC-FORCE (MMA mode)	0 - 10	0 - 10	0 - 10
ANTI-STICK (MMA mode)	ON/OFF	ON/OFF	ON/OFF
HOT-START (MMA mode)	0 - 10	0 - 10	0 - 10
Rated Duty cycle (%)	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	5.0mm
Suggested Welding Wire Dia.	0.8/1.0/1.2mm	0.8/1.0/1.2mm	0.8/1.0/1.2mm
Connector size	9mm	9mm	13mm
N.W./G.W. (kg)	11/17Kg	11/17kg	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)	650*380*470mm	650*380*470mm	650*380*470mm

Features:



MULTI-PROCESS

DO EVERYTHING YOU WANT



**GAS
MIG WELDING**
CO₂/ Ar / CO₂ + Ar



**NO GAS
MIG WELDING**
FLUX CORED WIRE



**BRAZE
MIG WELDING**
For Galvanized sheet



**Alu. Wire
MIG WELDING**
according to the Job list



**MMA/ARC
WELDING**
Electrode Rod 5.0mm



**LIFT TIG
WELDING**
For Stainless Steel sheet

1. Multi-Process welding function

SYNMIG series welder combos with MIG/MAG with gas, FLUX without gas, TIG and MMA welding function in one unit. With the quick Synergic regulation of welding parameters, it can do the welding jobs easily. The intelligent and automatic control of the arc, moment by moment, maintains high welding performance in all working conditions, with different materials and/or gases. The operator can also intervene manually along the arc length.

Material & Gas		Wire Dia.	Min. Welding Current	Workpiece Thick.	Max. Welding Current	Workpiece Thick.
Fe	CO ₂	0.6mm	40A	0.7mm	120A	2.2mm
		0.8mm	40A	0.6mm	180A	4.3mm
		0.9mm	40A	0.6mm	200A	4.5mm
		1.0mm	50A	0.7mm	200A	4.5mm
		Wire Dia.	Min. Welding Current	Workpiece Thick.	Max. Welding Current	Workpiece Thick.
	CO ₂ + Ar	0.6mm	40A	0.6mm	120A	1.9mm
		0.8mm	40A	0.6mm	180A	4.2mm
		0.9mm	40A	0.6mm	200A	5.1mm
1.0mm		50A	0.7mm	200A	4.2mm	
Material & Gas		Wire Dia.	Min. Welding Current	Workpiece Thick.	Max. Welding Current	Workpiece Thick.
Flux (FCAW)	NO GAS	0.8mm	40A	0.7mm	180A	4.6mm
		0.9mm	40A	0.6mm	200A	5.2mm
		1.0mm	50A	0.9mm	200A	6.0mm
Material & Gas		Wire Dia.	Min. Welding Current	Workpiece Thick.	Max. Welding Current	Workpiece Thick.
AlSi AlMg	Ar	1.0mm	50A	0.6mm	150A	3.7mm
		1.2mm	60A	0.7mm	200A	7.0mm

*** Above datasheet for reference only ***

2. HIGH QUALITY PRECISION LED DISPLAYER

All the values that are shown and can be selected according to the welding mode, welding material with recommended gas, welding wire diameter, welding current, wire feeding speed and welding voltage.



3. ADVANCED SETTING FOR MIG WELDING

With MIG mode, advanced setting can be selected, the Inductance Regulation is available.

- Adjust the welding softness for satisfying the user's welding habit.
- 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. ADVANCED SETTING FOR MMA WELDING

With MMA mode, advanced setting can be selected, it's helpful for welding all electrodes.

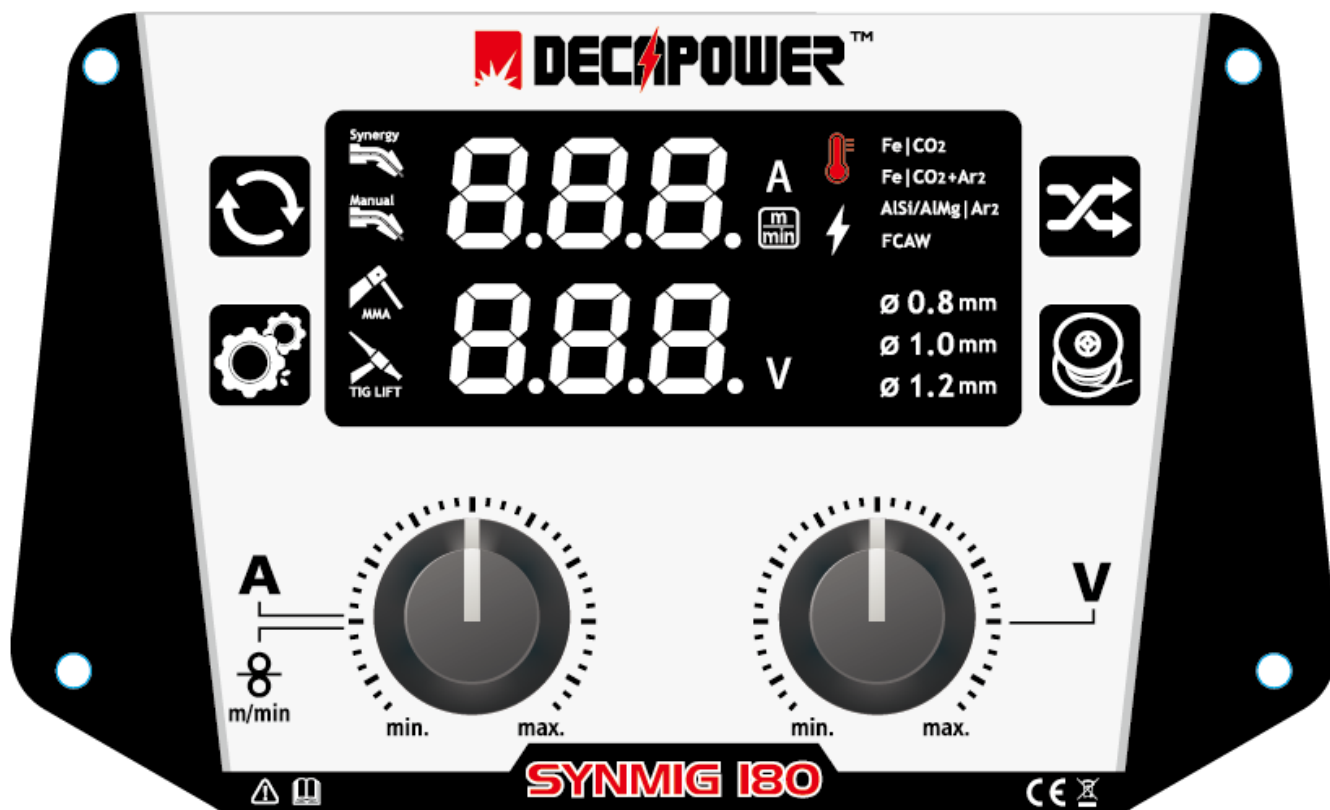
- VRD (Voltage Reduced Device) ON/OFF
- ANTI-STICK ON/OFF
- HOT START 0 - 10
- ARC FORCE 0 - 10



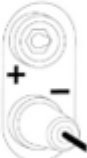

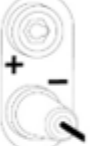


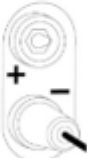

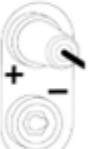


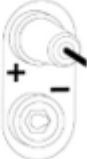

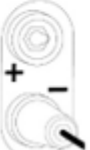
5. LIFT TIG WELDING

It's the additional welding mode for simple DC TIG welding with scratching ARC starting

6. SIMPLE TO USE

The simple operation is very friendly for end-users and quick access to the welding purpose.



WELDING POLARITY CHART			TORCH		WORKPIECE	
	MIG-MAG (GAS)					
	TIG					
	MMA					

Product Details:



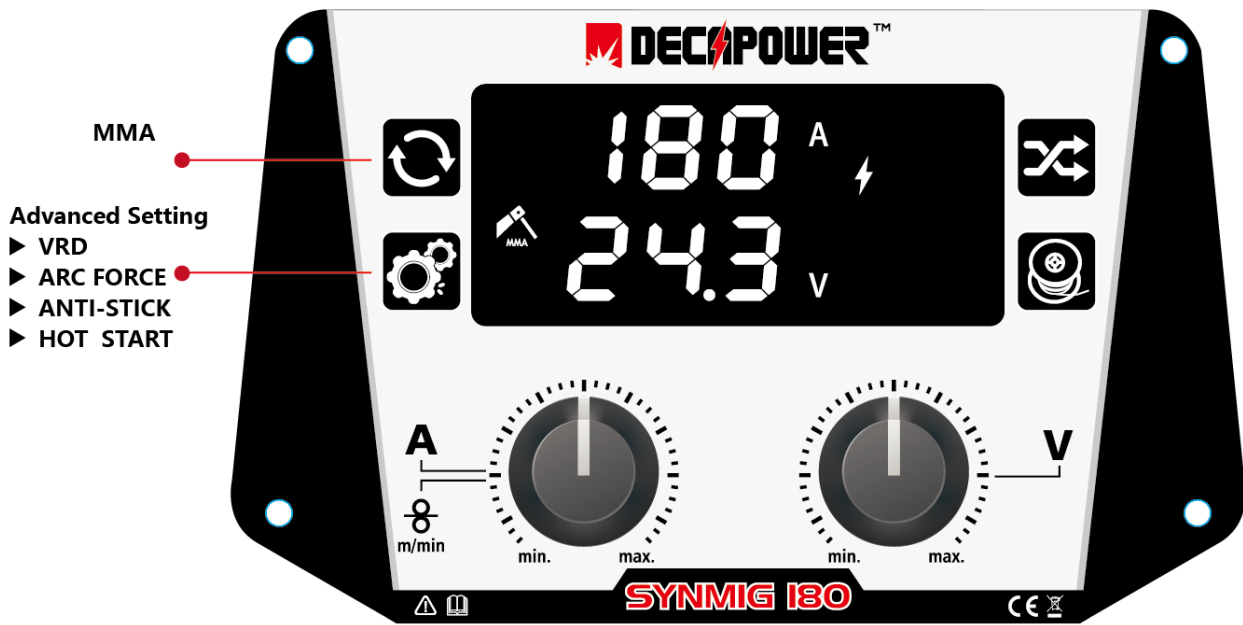
SYNERGY MIG MODE



MANUAL MIG MODE



MMA MODE



LIFT TIG MODE



Follow the operation video on youtube:

[UPDATEING](#)

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, Aluminum Welding and TIG welding.

Optional Accessories	SPECIFICATION		*** REMARK ***
1. For Flux Welding (NO-GAS)	1. General Standard MIG Torch	MB15AK	Standard
	2. Knurled Groove wire feeding roller	0.6-0.8mm	Optional
		0.8-1.0mm	Optional
	E71T-GS Flux cored wire	0.8mm/1Kg	Optional
		0.8mm/5Kg	Optional
2. For Aluminum wire Welding	1. TRAFIMET MIG TORCH with 3m cable	15AK/20SQM	Optional
	2. Torch AL. contact tips	1.0mm	Optional
		1.2mm	Optional
	3. U Groove wire feeding roller	1.0-1.2mm	Optional
4. Short Soft tube for aluminum wire inlet		Optional	
3. For Spool gun welding (NO GAS)	Spool Gun (QLBF-200iii) with 3m cable		Optional
	Spool gun wire feeding roller	0.8-0.9mm/ 0.8-1.0mm	Optional
4. 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.

DECAPOWER



FLUX WELDING
SOLDADURA FLUX



MIG WELDING
SOLDADURA MIG



ARC WELDING
SOLDADURA POR ARCO



TIG WELDING
SOLDADURA TIG



PLASMA CUTTING
CORTE DE PLASMA



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