



# MULTI FUNCTIONAL WELDING Hi 500MT

Automatically switches polarity according to wire feeder  
A multifunctional three-in-one welding machine

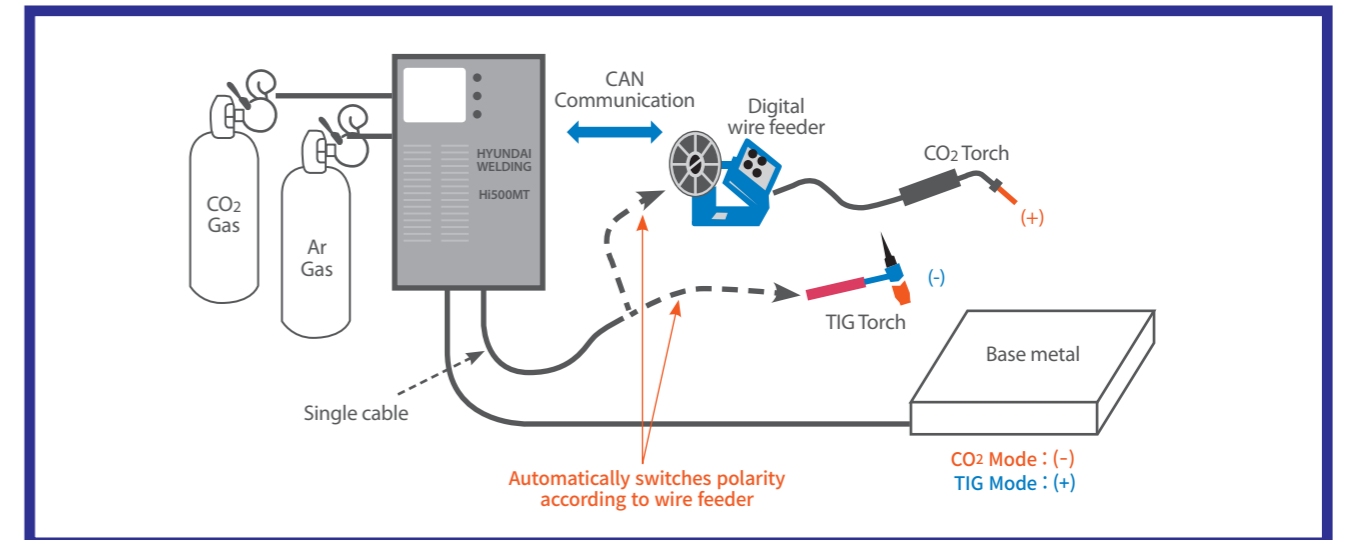


Model		Hi 500MT
TYPE		CO <sub>2</sub> / TIG / STICK
Rated power	KVA	37KVA
Input voltage	V	440V ±10%, 3phase, 60Hz
Frequency	Hz	60
Rated output current	A	500
Rated output voltage	V	42
Rated output current range	A	10~500
Rated output voltage range	V	10~42
Max open circuit voltage	V	80V
Duty cycle	%	100
Weight	kg	83kg
Dimension (WxDxH)	mm	374x607x828

Application field
<ul style="list-style-type: none"> <li>• Heavy industry</li> <li>• Construction site</li> <li>• Welding education center</li> <li>• Offshore plant</li> </ul>

Features
<ul style="list-style-type: none"> <li>▶ 3 in 1 multifunctional welding machine</li> <li>▶ CO<sub>2</sub>, TIG automatic polarity switching</li> <li>▶ CAN communication base</li> <li>▶ Built-in pulse function in TIG mode</li> <li>▶ Switching frequency : 60kHz</li> </ul>

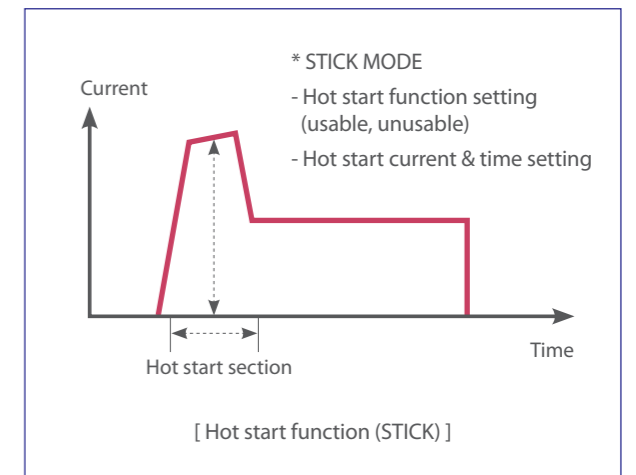
Components by welding method		
① CO <sub>2</sub> welding	② TIG welding	③ STICK Welding
Digital wire feeder	Analog remote box	Analog remote box
CO <sub>2</sub> torch	TIG torch	STICK holder
CO <sub>2</sub> gas	Ar gas	Single cable
Single cable	Single cable	Earth cable
Earth cable	Earth cable	



- Automatic polarity switch according to whether the digital feeder is connected or not
- CO<sub>2</sub> : Use digital transmitter / TIG, STICK : Use analog remote box
- Supply and CO<sub>2</sub> torch connection : Torch (+), Base (-)
- Remote box and TIG torch connection : Torch (-), Base (+)

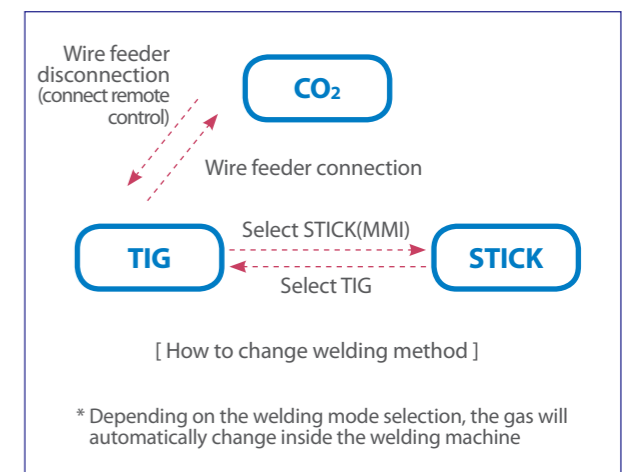
## CO<sub>2</sub> WELDING

- Constant Voltage Control (CV) based
- Transmitter : Setting of this voltage and current setpoint
- MMI : Variable setting (Pre Flow and After Flow, crater current / voltage setting)
- Torch operation mode selectable
- CAN communication based data transmission / reception



## TIG WELDING

- Constant Current Control (CC) based
- Start method : HF / LIFT start
- Output method : DC / pulse
- Operation method : Normal mode / Repeat mode
- DC current and Peak / Base current setting using analog remote box
- MMI : Variable settings such as gas Flow (Pre Flow / After Flow), Slope control (up slope / down slope)



## STICK WELDING

- Constant Current Control (CC) based
- DC current setting with analog remote box
- TIG / STICK mode can be changed by using MMI selection button