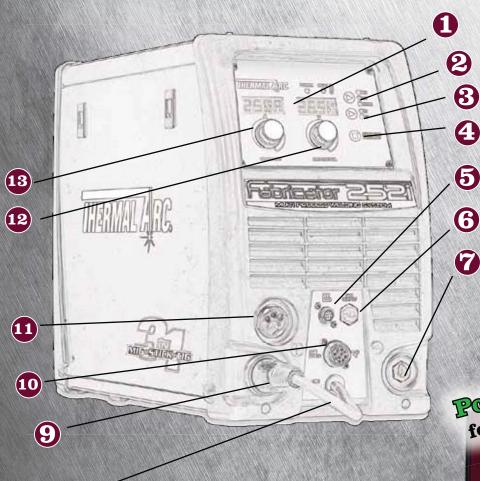
2521 INVERTER

MULTIPROCESS WELDING SYSTEM



- 1) Digital Meters
- 2) Process Selection
- 3) Trigger Latch Function
- 4) Advanced Features
- 5) 8 pin Receptacle
- 6) Gas Outlet for TIG Torch
- 7) Negative Weld Output 50 mm Dinse Terminal

- 8) MIG Torch Polarity Cable
- 9) Positive Weld Output 50mm Dinse Terminal
- 10) 10 pin Receptacle for Spool Gun
- 11) MIG Torch Euro Connector
- 12) MIG Voltage Control
- 13) Wirespeed / Amperage Control











1 Phase













The Thermal Arc Fabricator 252i is a full multi process, digital control, DC, CC/CV, MIG/Stick/Lift TIG inverter power supply. This is the ultimate unit designed for precision MIG, DC TIG and Stick welding.

MACHINE FEATURES:



Three Process Capability:

MIG (GMAW/FCAW), STICK (SMAW), TIG (GTAW).

MIG

- * Infinite Voltage Control with optimized starting performance.
- * Inductance Control for arc stability and spatter control.
- * Tweco MIG Gun with 3m cable and industry standard Euro connection.
- * Durable Metal Feed Plate features 2 roll drive system, quick change reversible drive rolls and easy-to-set single scaled wire tension knob.
- * 100, 200, or 300mm Spool Capacity allows easy installation of wire spool sizes.
- * Spool Gun ready.

STICK:

* Adjustable Arc Force Control for optimum STICK electrode performance.

TIG

 Lift TIG Start: Provides TIG arc starting without use of high frequency.

Other Features:

- * PFC Power Factor Correction: Up to 40% more electrically efficient than conventional MIG Welders.
- * Digital Meters: Voltage and Amperage; Preview and Hold capability.
- * Excellent Portability: Lightweight, less than 30kg.
- * Comprehensive Setup Chart: Weld set up guide for optimum welding performance over a wide range of materials and shielding gases.
- * Trigger Control: 4T (Latch) eliminates operator fatigue.
- * Remote Receptacle: Enables connection of remote control devices and Spool Gun.
- * Quick Change Polarity: Simple quick change polarity (no tools required) from the front of the power source.
- Overload Protection: Shuts down the power source to protect the internal electrical components from overheating.
- *** IP23S:** Suitable for outdoor use.
- * Advanced Features: Includes
 Pre & Post Flow, Down Slope, Hot Start, Spot, Stitch, Burn
 Back, Wire Sharp, Arc Hour Runtime, Run-In Speed.



CONTROL PANEL

Power Indicator

The Green power indicator illuminates in the presence of power on the control circuitry

Digital Meters WFS / AMPS and Volts

Left Knob

Adjust weld Process value

- MIG Wirefeed speed
- TIG Amperage
- STICK Amperage

Right Knob

Primary function to set MIG volts

- MIG Push (1 sec) for Inductance
- STICK Push (1 sec) for Arc Force or Dig feature



Advanced Feature Button

Depress & Release to enter or exit Depress & Hold to purge shielding gas

Fault Indicator

The Fault will illuminate yellow when any of the faults are detected

Process Mode Button

Depress to change process:

- MIG (GMAW/FCAW)
- TIG (GTAW)
- STICK (SMAW)

Trigger Latch Button

Depress to change Trigger Fn:

- 2T (0n/0ff)
- 4T (Trigger Hold)
 - Once the weld arc has started, release the trigger and continue welding
 - Activate the trigger again or brake the welding arc to finish welding

ADVANCED FEATURES

The Fabricator® 252i welding characteristics are optimized to supply the best welding performance whether in the MIG, TIG or Stick modes. In those situations when you need more control for special weld applications or productivity enhancements go to the Advanced Features if required.

FUNCTION	MIG	TIG	STICK	DESCRIPTION
Operator Controls	Local / Remote	Local / Remote	Local / Remote	Determines whether the control is at the machine or from a remote device
Preflow Time	0 - 5.0 sec.	0 - 5.0 sec.		The time shielding gas is turned on before the arc is initiated
Hot Start	_	-	On/Off - Time - Amps	Higher burst of amps to help initiate the stick electrode arc
Run-In	30 - 150%	-	-	Slower or higher percentage of the set wire feed speed before the arc is initiated to optimize arc starting
Spot Weld	On/Off - Time	_	-	Enables Spot Welding
Stitch Weld	On/Off - Time (Stitch/Dwell)	-	-	Enables Stitch or Skip Welding
Down Slope	_	0 - 30.0 sec.	_	Eliminates the crater that can form at the end of the weld
Burnback	0 - 1.0 sec	-	-	Eliminates the wire from sticking in the weld puddle
Wire Sharp	OFF / ON	_	-	Sharpens the wire ensuring good arc start repeatability
Postflow Time	0 - 30.0 sec.	0 - 30.0 sec.	_	The time shielding gas remains on after arc is turned off
Wire Feed Speed Units	IPM / mpm	_	-	Can be set to "Inches per Minute" or "Meters per Minute"
Arc Hour Accumulated Run Time	0 - 10,000 hrs.	0 - 10,000 hrs.	0 - 10,000 hrs.	Records welding arc time
Restore Factory Defaults	No / Yes	No / Yes	No / Yes	Returns power source to the original factory settings

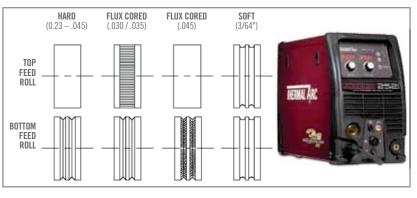
In addition, the Advanced Features Button can be used to initiate a 30 second gas line purge function to facilitate gas tank connection and setup. Simply press and hold the button for approximately (2) seconds, gas will purge for (30) seconds. It will stop if pressed again.

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DRIVE ROLLS & OUTLET GUIDES

DRIVE ROLLS					
Wire Size	Wire Type	Top Feed Roll	Bottom Feed Roll		
.023" (0.6 mm)	HARD	407002-001	407002-002		
.030" (0.8 mm)	HARD	407002-001	407002-002		
.035" (0.9 mm)	HARD	407002-001	407002-002		
.045" (1.2 mm)	HARD	407002-001	171115-003		
.030" (0.8 mm)	FLUX CORED	375832	407002-002		
.035" (0.9 mm)	FLUX CORED	375832	407002-002		
.045" (1.2 mm)	FLUX CORED	407002-001	170924-010		
3/64" (1.2 mm)	S0FT	408023-002	408023-002		
OUTLET GUIDES					
Outlet Guide, .030"045" (0.8 mm - 1.2 mm)			872606		

Outlet Guide, .023" (0.6 mm)







WELDI	NG DC
Maximum Output	300 Amps
MIO (OMANI/EO AND)	250A / 26.5V @ 40% Duty Cycle
MIG (GMAW/FCAW) Welding Output @ 40°C	200A / 24V @ 60% Duty cycle
Welding output @ 40 0	150A / 21.5V @ 100% Duty Cycle
CTION (CMAIN)	230A / 29.2V @ 40% Duty Cycle
STICK (SMAW) Welding Output @ 40°C	200A / 28V @ 60% Duty cycle
Wolding output @ 40 0	150A / 26V @ 100% Duty Cycle
TIO (OMANA)	250A / 20V @ 40% Duty Cycle
TIG (GMAW) Welding Output @ 40°C	200A / 18V @ 60% Duty cycle
moraling datput @ 10 0	150A / 16V @ 100% Duty Cycle
Current Range	5-300 A
MIG Welding Voltage Range	14-30 V
Wirefeed Speed Range	1.7 – 17.8 m/min
Maximum Plate Thickness	12.7 mm
Wire Diameter Range	
Mild Steel:	0.6 - 1.2 mm
Stainless Steel:	0.6 - 0.9 mm
Aluminum: (with Spool Gun)	0.8 - 1.2 mm
Flux cored:	0.8 - 1.2 mm
Fitted Feedroll Suits MIG Wire	0.9 - 1.2 mm
Warranty Period	2 Years
Approvals	IEC 60974-1 (CE)
Protection Class	IP23S

DIMENSIONS AND WEIGHT					
Dimensions H x W x D	440 mm x 260 mm x 600 mm				
Weight	29.6 kg				
PRIMARY POWER					
Primary Voltage	Nominal 230 VAC				
Supply Voltage Range	187-276 VAC				
Number of Phases	Single Phase				
Supply Frequency	50/60 Hz				
Rated kVA @ 250 Amps	8.2 kVA				
Lead Cord Length	2.7 m				
Input Current	22.4 Amps				

System Contents (W1004408)

- * Fabricator 252i Power Supply
- ★ 3m Tweco® TWE2 250 Amp MIG Gun
- * Tweco WeldSkill® 200 Amp electrode holder with 4m lead
- * Tweco WeldSkill 200 Amp ground clamp with 3 m lead
- **★**Drive Rolls:
- 1.0 / 1.2mm V Groove Lower & Flat Upper (Fitted)
- 0.6 / 0.8mm V Groove
- **★** Operator's Manual
- **★** 2.7 m Mains Lead
- **★** 0.6 mm Outlet Guide

Ordering Information

Fabricator 252i system package with 3m TWE2 MIG Torch W1004408 Tweco TWE2 250A MIG Torch with 3m cable 161.550.307 Fabricator 252i shown on Single Cylinder 26 Style TIG Torch and Accessories W4013600 **Professional Cart** Spool Gun (required for aluminium welding) SG200TA-25-3545 Basic Cart W4014700 Single Cylinder Professional Cart W4015001 **Dual Cylinder Professional Cart** W4015002 Roll Cage W4015101 Remote Foot Control, 7.6m 10-4016 **Consumables** Remote Hand Control, 7.6m 10-4014 Storage **Single Cylinder Cart Dual Cylinder Cart Basic Cart Accessory Drawer**



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