

TigMatic® 300iP

Issued November 2022 • TigMatic 300iP Rev. 01/UK

TIG/Stick Welding
Power Source



Quick Specs



Industrial Applications

Food and Beverage
Petro chemical
Pipe spool fabrication
Ship building
General fabrication

Processes

DC TIG (GTAW)
DC TIG pulsed (GTAW-P)
MMA/Stick (SMAW)

Input Power 400V Three Phase

Welding Output 300A, 32V by 35% duty cycle

Max. Output Amperage 300

Output Range 5-300A

Net Weight 24 kg

Experience reliable and precise arc performance paired with a user-friendly interface that puts advanced capabilities at your fingertips.

With a step-by-step guided setting process, the TigMatic® 300iP power source is ready to weld within seconds. The extremely rugged and robust TigMatic® 300iP can run DC TIG, DC TIG Pulse and MMA, including cellulosic electrodes, in even the toughest environments.

NEW!



Graphical user interface – A guided four step approach to achieve optimal weld parameters.
• The extremely intuitive LCD panel provides an overview of the settings and makes adjustment quick and efficient.

Optimised start sequence for each Tungsten diameter.

• The start values are automatically set, ensuring smooth and accurate TIG starts every time.

Program memories – Store and recall 3 weld programs with direct access from the front panel or through trigger select.

• Deliver more productivity by eliminating the need to manually set the parameters
• Deliver consistent quality by welders of all skills

Trigger select allows the operator to recall stored program by tapping the torch trigger.

• Eliminating the need to walk back to the machine to change parameters.



TigMatic® 300iP Machine only



TigMatic® 300iP with Cooler and Trolley

Advanced Remote-control options

The weld current can be adjusted between or during welds.

- Compatible with Miller hand and foot controls (foot pedal).
- Select a wireless foot pedal for unrestricted flexibility
- Select a Miller EuroTorch with built in remote option in the handle.

The Tack welding mode provide precise and repeatable tacks, ideal for when preparing the weld object.

- Store and recall directly from the front panel to save time between weld cycles
- Maintain control of the heat input

4TS trigger mode for manual adjustment of the heat input from the torch trigger

- Toggle between two different current levels without extinguishing the arc

Optimized MMA performance for Basic, Rutile and cellulosic electrodes.

- Select electrode type in the set-up menu to get suitable arc force and hot start parameters, ensuring good starts and good arc control



Power source is warranted for three years, parts and labor.



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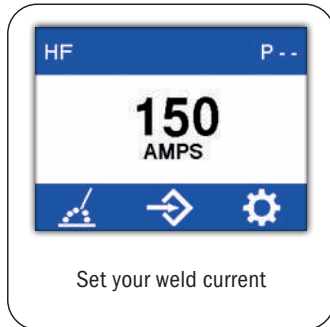
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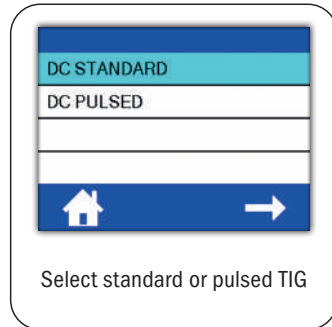
Advanced weld settings made easy

Regardless of weld process selected, the machine can be set up in four quick steps. This reduces set up time between jobs and reduces the risk of weld defects and re-work.

Step 1



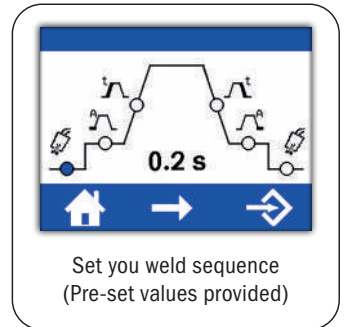
Step 2



Step 3



Step 4



TigMatic® user interface – clean, crisp and easy to use

The TigMatic® system provides a full set of features and settings at your fingertips – ease of use without compromise.



- Clean user interface with large symbols
- Only the relevant information is displayed
- Direct access to the most commonly used settings
- Utilizing LCD screen technology to simplify the set up and speed up each task

Features

TIG Settings

- Adjustable Pre/Post gas
- Adjustable slope up/down
- Adjustable start/end current
- Dual weld current levels
- Pulse mode
- Tack mode
- Min/Max values for remotes

MMA/Stick settings

- Electrode selection
- Hot Start™
- Arc force (DIG)
- Cellulosic mode
- Adjustable OCV (VRD)
- Min/Max values for remotes

TIG Torch Kits and Connectors

The Miller® TIG torches have been designed to perfectly match and to ensure that the welder can fully benefit from the superior arc quality of the Miller® TIG equipment. The material has been carefully selected to prevent ageing and leakage in the hoses and cables. Miller® uses more copper in the power cable to minimize the heat losses and maximize the output.

The TIG torches can be configured with a standard torch head or a flexible alternative. The ergonomic handle can also be fitted with a remote control for adjustment of the weld current at the point of welding.



*Remote current control from the thumb wheel, available as an option on all models

Torch	Stock No.	Technical description	DC current
EuroTorch A-125, 4 meter	058022031	50 mm ² Dinse, 5/8" gas, 14 pin control	125A @ 60%
EuroTorch A-150, 4 meter	058022021	50 mm ² Dinse, 5/8" gas, 14 pin control	150A @ 60%
EuroTorch A-200, 4 meter	058022013	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch A-200F, 4 meter	058022014	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch A-200, 8 meter	058022015	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch A-200F, 8 meter	058022016	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch A-200R, 4 meter	058022017	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch A-200FR, 4 meter	058022018	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch A-200R, 8 meter	058022019	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch A-200FR, 8 meter	058022020	50 mm ² Dinse, 5/8" gas, 14 pin control	200A @ 60%
EuroTorch W-250F, 4 meter	058022006	50 mm ² Dinse, 5/8" gas, 14 pin control	250A @ 100%
EuroTorch W-250FR, 4 meter	058022010	50 mm ² Dinse, 5/8" gas, 14 pin control	250A @ 100%
EuroTorch W-250F, 8 meter	058022008	50 mm ² Dinse, 5/8" gas, 14 pin control	250A @ 100%
EuroTorch W-250FR, 8 meter	058022012	50 mm ² Dinse, 5/8" gas, 14 pin control	250A @ 100%
EuroTorch W-270, 4 meter	058022005	50 mm ² Dinse, 5/8" gas, 14 pin control	270A @ 100%
EuroTorch W-270R, 4 meter	058022009	50 mm ² Dinse, 5/8" gas, 14 pin control	270A @ 100%
EuroTorch W-270, 8 meter	058022007	50 mm ² Dinse, 5/8" gas, 14 pin control	270A @ 100%
EuroTorch W-270R, 8 meter	058022011	50 mm ² Dinse, 5/8" gas, 14 pin control	270A @ 100%
EuroTorch W-350, 4 meter	058022001	50 mm ² Dinse, 5/8" gas, 14 pin control	350A @ 100%
EuroTorch W-350R, 4 meter	058022002	50 mm ² Dinse, 5/8" gas, 14 pin control	350A @ 100%
EuroTorch W-350, 8 meter	058022003	50 mm ² Dinse, 5/8" gas, 14 pin control	350A @ 100%
EuroTorch W-350R, 8 meter	058022004	50 mm ² Dinse, 5/8" gas, 14 pin control	350A @ 100%

R - Remote control | F - Flex neck | A - Air cooled | W - Water cooled

Tungsten

Tungsten	Amp Range	2% Ceriated (AC/DC)	2% Lanthanated (AC/DC)
1.6 mm	70-150 A	WC116X7	WL2116X7
2.4 mm	140-250 A	WC332X7	WL2332X7
3.2 mm	225-400 A	WC018X7	WL2018X7
4.0 mm	300-500 A	WC532X7	WL2532X7

Specifications (Subject to change without notice.)



TigMatic® 300iP

Welding Mode	Rated Output			Amperage Range DC	Max OCV	Low OCV	Rated Peak Striking Voltage (UP)	Dimensions	Weight	
	100%	60%	35%							
TIG (GTAW)	200 A	250 A	300 A	5-300 A	70 V	-	8.5 KV	H: 360 mm W: 205 mm D: 570 mm	24 kg (net) 26 kg (ship)	
	18 V	20 V	22 V							
Stick (SMAW)	200 A	250 A	300 A				18 V			-
	28 V	30 V	32 V							

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
TigMatic 300iP	059016034			
Torches		See page 3		
Accessories				
TigMatic Cool	028042110	Cooler tank capacity: 5L - Requires coolant, stock number 043810		
TigMatic Trolley	058035018	Four-wheeled cart with cylinder rack		
Stick Welding Cable Kit	057014351	Electrode holder kit 200 A, 35 mm ² , 5 m		
Work Cable with Clamp	057014331	Return cable kit 200 A, 35 mm ² , 5 m		
Remote Controls				
Wireless remote foot pedal	301580	Wireless foot pedal (range: 27 m)		
Wireless Remote Hand Control	301582	Wireless hand control (range: 90 m)		
RFCS-14 Heavy duty remote foot pedal	194744	Wired foot pedal (range: 6 m)		
RHC-14	242211020	Wired hand control (range: 6 m)		
SRHC-14	058040019	Single-hand remote control for current only, 5 m		
	058040020	Single-hand remote control for current only, 10 m		
	058040021	Single-hand remote control for current only, 20 m		

Date:

Total Quoted Price:

Miller recommends *Elega* consumables

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