



[Manuals.plus](#) /

› [YESWELDER](#) /

› YESWELDER TIG-205P PRO Welder Instruction Manual

YESWELDER TIG-205P PRO

YESWELDER TIG-205P PRO Welding Machine Instruction Manual

Model: TIG-205P PRO

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of the YESWELDER TIG-205P PRO welding machine. This versatile 3-in-1 unit supports ARC, DC TIG, and Pulsed TIG welding processes, offering up to 200A output for various material thicknesses. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.



Figure 1.1: YESWELDER TIG-205P PRO Welding Machine and Accessories.

2. SAFETY INFORMATION

Welding operations involve significant risks. Always adhere to safety guidelines to protect yourself and others. This machine incorporates safety features such as automatic shutdown for overheating and overload, and an IP21 protection standard for water resistance.

SAFETY FIRST



Figure 2.1: Built-in Safety Features.

General Safety Precautions:

- Always wear appropriate personal protective equipment (PPE), including welding helmet, gloves, protective clothing, and safety shoes.
- Ensure adequate ventilation in the welding area to disperse fumes.
- Protect bystanders from arc rays and hot metal.
- Do not weld near flammable materials.
- Ensure the machine is properly grounded.
- Disconnect power before performing any maintenance or adjustments.

3. PRODUCT OVERVIEW AND KEY FEATURES

The TIG-205P PRO is designed for versatility and ease of use, featuring a large LED display and multiple welding functions.

3.1 Multi-Process Capability

This machine offers three welding processes in one compact unit: ARC (Stick), DC TIG, and Pulsed TIG. This allows for a wide range of applications and material types.



Figure 3.1: 3-in-1 Multi-Process Synergic Welder.

3.2 Large LED Display

The large LED screen provides clear visibility of welding parameters such as current, operating mode, and welding mode, making adjustments intuitive.



Figure 3.2: Enhanced LED Panel for Easy Parameter Reading.

3.3 High Frequency (HF) Arc Start

HF arc ignition ensures non-contact arc starting for TIG welding, providing reliable and stable performance without electrode contamination.

3.4 5-Pin Foot Pedal Interface

A dedicated 5-pin interface allows for connection of an optional foot pedal, enabling convenient control over arc ignition and current adjustment during welding.



Figure 3.3: 5-Pin Foot Pedal Interface.

3.5 Portable Design

Weighing only 4.8 kg, the TIG-205P PRO is highly portable, making it suitable for various work environments.

PORTABLE & POWERFUL



Figure 3.4: Portable and Compact Design.

3.6 IGBT Inverter Technology

Integrated advanced IGBT inverter technology ensures excellent arc stability and produces high-quality welds.



Figure 3.5: IGBT Inverter Technology.

4. PANEL INTRODUCTION

Familiarize yourself with the control panel and its functions for efficient operation.

PANEL INTRODUCTION

- 1 Welding Mode Button
- 2 Operation Mode Button (Towards the Right)
- 3 Operation Mode Button (Towards the Left)
- 4 Welding Function Button
- 5 Parameter Adjusting
- 6 Digital Display



Figure 4.1: Front Panel Overview.



Figure 4.2: Intelligent Digital Screen Display and Controls.

Control Panel Elements:

1. **Welding Mode Button:** Selects between Stick, HF TIG, and Pulse TIG modes.
2. **Operation Mode Buttons (Left/Right):** Navigates through different adjustable parameters.
3. **Welding Function Button:** Toggles specific welding functions like Hot Start, Arc Force, Spot Time, Steps Mode.
4. **Parameter Adjusting Knob:** Adjusts the value of the selected parameter (e.g., current, voltage, pulse frequency).
5. **Digital Display:** Shows current settings and operational data.
6. **Indicators:** Lights for Pre Gas, Slope Up, Duty Cycle, Pulse Hz, Slope Down, Post Gas, I Start, I Stop, Warning.

5. INCLUDED ACCESSORIES

The YESWELDER TIG-205P PRO typically comes with the following accessories:

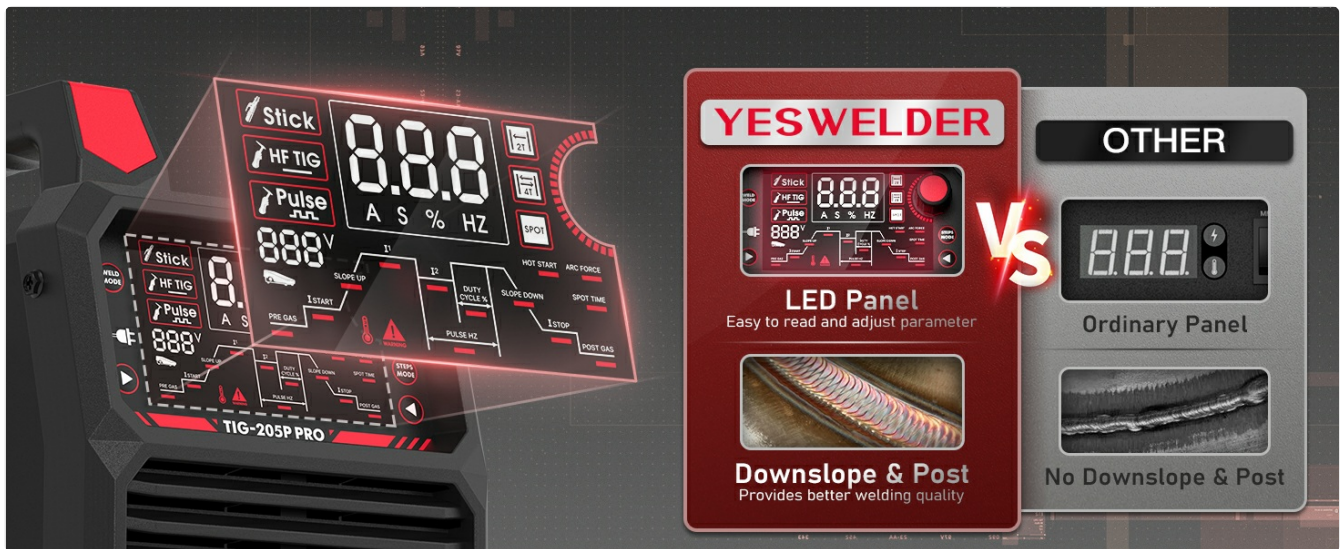


Figure 5.1: Accessories Included with the TIG-205P PRO.

- TIG-205P PRO Welder Unit
- 3m Ground Clamp
- 3m Electrode Holder
- TIG Torch Consumables
- 4m WP-17 TIG Torch
- 3m Argon Gas Hose

6. SETUP

Follow these steps for initial setup of your welding machine:

1. **Placement:** Place the welding machine on a stable, level surface in a well-ventilated area, away from moisture and direct sunlight.
2. **Power Connection:** Connect the power cable to a suitable 230V power outlet. Ensure the power source meets the machine's requirements.
3. **Ground Clamp Connection:** Connect the ground clamp cable to the appropriate output terminal (usually marked with a '-' or ground symbol) on the front panel. Secure the ground clamp to the workpiece or welding table.
4. **TIG Torch Connection:** Connect the TIG torch to the designated TIG torch connection port. Ensure the gas

hose from the torch is connected to the gas inlet on the machine's rear panel, and then to your argon gas cylinder via a regulator.

5. **Electrode Holder Connection (for ARC welding):** If performing ARC welding, connect the electrode holder cable to the '+' output terminal.
6. **Foot Pedal Connection (Optional):** If using a foot pedal, connect its 5-pin connector to the foot pedal interface on the machine.

7. OPERATING INSTRUCTIONS

This section outlines the basic operation for different welding modes.



Figure 7.1: TIG-205P PRO in Operation.

7.1 Powering On and Mode Selection

1. Turn on the main power switch located on the rear panel.
2. Use the **Welding Mode Button** on the front panel to cycle through ARC (Stick), DC TIG, and PULSED TIG

modes. The selected mode will be indicated on the LED display.

7.2 Parameter Adjustment

Once a mode is selected, use the **Operation Mode Buttons** (left/right arrows) to highlight the parameter you wish to adjust (e.g., welding current, pulse frequency, pre-gas time). Rotate the **Parameter Adjusting Knob** to change the value. The large LED display will show the current setting.

7.3 TIG Welding (DC TIG / HF TIG)

For TIG welding, ensure your argon gas cylinder is open and the flow rate is set appropriately. The machine features High Frequency (HF) arc start for clean, non-contact ignition.



Figure 7.2: High Frequency Arc Start in TIG Welding.

7.4 Pulsed TIG Welding

Pulsed TIG mode provides better control over heat input, reducing distortion and improving weld appearance, especially on thin materials. Adjust pulse frequency (Hz) and duty cycle as needed.



Figure 7.3: Pulse Function for Enhanced Welding Control.

7.5 ARC (Stick) Welding

For ARC welding, select the ARC mode. The machine features adjustable Arc Force and Hot Start functions to

improve arc stability and ignition. Anti-stick and VRD (Voltage Reduction Device) are integrated for user safety.

8. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your welding machine.

- **Cleaning:** Periodically clean the machine's exterior with a dry cloth. Use compressed air to blow out dust from the cooling vents. Ensure the machine is unplugged before cleaning.
- **Cable Inspection:** Regularly inspect all cables (power, ground, torch) for cuts, fraying, or damage. Replace damaged cables immediately.
- **Torch Maintenance:** Clean the TIG torch collet, collet body, and ceramic nozzle regularly. Replace worn-out consumables.
- **Storage:** Store the machine in a dry, dust-free environment when not in use.

9. TROUBLESHOOTING

Refer to this section for common issues and their potential solutions.

Problem	Possible Cause	Solution
Machine does not power on.	No power supply; Power switch off; Internal fault.	Check power cord and outlet; Turn on power switch; Contact customer support.
No arc or weak arc.	Improper ground connection; Incorrect current setting; Worn electrode/torch consumables.	Ensure good ground contact; Increase current; Replace electrode/consumables.
Overheating indicator on.	Exceeded duty cycle; Insufficient ventilation.	Allow machine to cool down; Ensure clear airflow to vents.
Poor weld quality.	Incorrect parameters; Contaminated workpiece; Improper technique.	Adjust settings; Clean workpiece; Review welding technique.

10. SPECIFICATIONS

Technical specifications for the YESWELDER TIG-205P PRO welding machine.



Figure 10.1: Technical Specifications.

Specification	Value
Model	TIG-205P PRO
Manufacturer	YESWELDER
Input Voltage (U1)	230V
Output Current (I2)	Up to 200A (TIG), 160A (ARC)
Duty Cycle (X)	60% at 200A (TIG), 60% at 160A (ARC)
No-Load Voltage (U0)	65V
Cooling Mode	Fan Cooling
Insulation Grade	F
Protection Standard	IP21S
Dimensions (Package)	44.9 x 36.79 x 28.9 cm
Weight (Package)	9.36 kg

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact YESWELDER customer service directly. Keep your proof of purchase for warranty claims.