

# SQUARE WAVE® 205

## AC/DC TIG & STICK WELDER



Shown:  
SQUARE WAVE 205, K5613-1

### THE POWER OF PRECISION AND SIMPLICITY

Discover a new wave of TIG innovation with the Square Wave 205 AC/DC TIG welder. With a user-driven design, enhanced digital interface, and outstanding arc performance, this machine allows you tackle your next project with confidence and ease.

Whether you're a hobbyist or a full-blown fabricator, this compact machine delivers the perfect combination of machine control and welding capabilities to handle whatever comes your way.

#### Processes »

AC/DC TIG, AC/DC Stick

#### Applications »

Home, Hobby, Shop, Light Fabrication, Hobby Aviation, Motorsports, Makers, Education

#### Output »



#### Input »



#### Product Numbers »

SQUARE WAVE 205  
K5613-1

## VALUE-ADDED FEATURES

- **Simple User Interface** - bright 4.3" LCD display that makes setup intuitive and easy.
- **AC/DC TIG and AC/DC Stick Capabilities** - optimized processes for a variety of materials and applications with excellent E6010 and E7018 performance.
- **Advanced Features** - pulse, AC frequency, and AC balance to provide control no matter the material and application.
- **Robust Design** - Durable design, IP21S rated, for optimal performance in a wide range of environments and conditions.
- **Lightweight and Portable** - only 36 lbs. with ergonomic front handles and an integrated storage compartment to make transportation easy.
- **Dual Input Voltage** - 120V and 230V inputs so you can plug into any common power supply.

## KEY CONTROLS

- |                             |                               |
|-----------------------------|-------------------------------|
| 1. LCD Display              | 6. Positive Output Receptacle |
| 2. Process Indicator        | 7. Negative Output Receptacle |
| 3. Process Options          | 8. Amperage Indicator         |
| 4. Process Selection Button | 9. Back Button                |
| 5. Scroll/Select Knob       | 10. 6-pin Remote Receptacle   |



## WHAT'S INCLUDED

	Base Unit (K5613-1)
Caliber 17 TIG Torch Ready Pak	•
Caliber 17/18/26 Series Medium Duty TIG Torch Parts Kit [KP4760-MD]	•
25 ft. Foot Amptrol [K870]	•
Gas Regulator [300369]	•
120V to 230V Power Cord Adapter	•
Electrode Holder with Twist-Mate adapter	•
Work Cable and Clamp with Twist-Mate adapter	•



## RECOMMENDED ACCESSORIES



### CanVAS Cover (Small-Medium) K2377-1

Protect your welder when not in use. Made from attractive red canvas that is flame retardant, mildew resistant and water repellent. Includes a convenient side pocket to hold your welding torch or gun.



### Utility Cart K520-1

Upgrade your welding set up with this durable and versatile Utility Cart. This cart is designed to securely transport a power source, 150 cu.ft gas cylinder, tools and welding accessories.



### Caliber® 26 Series TIG Torch - Flexible, 12.5 ft K4842-26F-1

Premium Caliber® TIG Torch with a Flexible Torch Head and a 200A 60% Duty Cycle.



### Caliber® 9 Series TIG Torch - Flexible, 12.5 ft K4844-9F-1

Premium Caliber® TIG Torch with a Flexible Torch Head and a 125A 60% Duty Cycle.



### Caliber® Stubby Torch Parts Kit - 17/18/26 Torches KP4765-ST

Stubby torch parts for 17/18/18 TIG Kit using .040"-1/8" tungsten electrodes



### Hand Amptrol™ Rotary Track Style 25 ft (7.6m) (6-Pin) K963-3

Provides 25 ft. (7.6 m) of remote current control for TIG welding.



### Caliber® 17/18/26 Series TIG Torch Expendables Kit - 0.040"-1/32" KP4760-MD

Caliber TIG Expendables Kits include all of the front end parts needed to run a Gas Lens set up on 17/18/26 Series TIG Torches. Caliber TIG Expendables are compatible with both Lincoln Electric and competitive TIG Torches.

## PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power: Voltage/Phase/Hertz	Rated Output Current/Duty Cycle	Output Range	Dimensions H x W x D in (mm)	Net Weight lb (kg)
SQUARE WAVE 205	K5613-1	120/1/60	TIG: 125A/25%* TIG: 100A/60% TIG: 85A/100%  DC Stick: 80A/25% DC Stick: 70A/60% DC Stick: 65A/100%  AC Stick: 70A/100%	TIG: 8-125A DC Stick: 15-90A AC Stick: 15-70A	14.75 x 9.27 x 21 (375 x 235 x 534)	36 (16.33)
		230/1/60	TIG: 205A/25% TIG: 160A/60% TIG: 130A/100%  DC Stick: 170A/25% DC Stick: 130A/60% DC Stick: 100A/100%  AC Stick: 140A/25% AC Stick: 115A/60% AC Stick: 100A/100%	TIG: 8-205A DC Stick: 15-170A AC Stick: 15-140A		

\*AC TIG: 110A/25%

For best welding results with Lincoln Electric® equipment, always use Lincoln Electric consumables. Visit [www.lincolnelectric.com](http://www.lincolnelectric.com) for more details.

### CUSTOMER ASSISTANCE POLICY

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed. Lincoln Electric is a responsive manufacturer, but the definition of specifications, and the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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