

# SPRINTER 180Si

## STICK WELDER



Shown:  
Sprinter 180Si, K5453-1

### PORTABLE. VERSATILE. POWERFUL.

The Sprinter™ 180Si stick welder gives you power in a small package. Weighing in under 20 lbs., it is lightweight and portable, and the 180 amp output enables you to weld electrodes up to 5/32 inches, including 7018 and 6010. This machine is more than just a stick welder. The Sprinter 180Si welder combines superior stick capabilities with high-frequency TIG, pulsed TIG mode, amptrol compatibility and dual input voltage (120V/230V). A simple display allows you to dial in the weld settings so you can get started quickly and easily on any job, anywhere – maintenance work, fabrication, light structural and everything in between. The Sprinter 180Si is a stick welder and so much more.

#### Processes »

DC Stick, DC TIG

#### Applications »

Light Duty Fabrication, Maintenance, Farm, Auto Body, Aerospace, Light structural, Shipbuilding

#### Output »



#### Input »



#### Product Numbers »

K5453-1 Sprinter™ 180Si

K5600-1 Sprinter 180Si Case One-Pak®

K5584-1 Sprinter 180Si TIG One-Pak

K5585-1 Sprinter 180Si Case and TIG One-Pak

## VALUE-ADDED FEATURES

- **Two Stick Modes** - Dedicated E6010 and E7108 weld modes allow for greater welding versatility and superior performance
- **High Frequency Start** - Strike a precise arc every time while TIG welding
- **Pulsed TIG Mode** - Provides heat management and enhanced control when making thin, precise welds
- **Dual Input** - Run the Sprinter 180Si welder off 120V or 230V depending on the job

## KEY CONTROLS

1. Carry Handle
2. Seven Segment Display
3. Weld Selection
4. Duty Cycle Thermal Overheat Exceeded Indicator
5. Voltage Reduction Device Indicator
6. Pulse Mode On/Off Button
7. Amperage Adjustment Knob
8. Twist Mate™ Receptacles
9. 8-Pin TIG Foot Pedal Receptacle



## INNOVATIVE USER INTERFACE

1. Amperage
2. Weld Selection
3. Status Indicators
4. Pulse Mode Selection (TIG Only)



## ADVANCED OPTIONS



**Stick mode for Crisp Arc** on cellulosic electrodes such as 6010/6011/6013.



**Stick Mode for Soft Arc** on electrodes such as 7018.



**Voltage Output** indicator.



**Hi Frequency TIG Mode** for use with start button or foot pedal.



**Select Hz rate** for Pulsed TIG when welding thin materials or achieving a cleaner weld appearance.



**Lift TIG Mode** for lift start TIG welding.

## TIG PERFORMANCE

### Pulsed TIG

Use pulsed TIG welding to help minimize burn through on thin materials. It can help to increase travel speed and result in smaller bead width. Lower heat input may lessen warpage of parts, especially stainless steel materials.

TIG pulse can be turned on or off in the advanced options menu. The Pulsed TIG feature has a single knob control which sets the pulse frequency over the range of 0.1 to 100 pulses per second. The pulse setting automatically regulates the output current between the peak amperage set by the amptrol (if used) and the background amperage, which is equal to 50% of the peak. The peak pulse % on-time is fixed at 50%.

## RECOMMENDED ACCESSORIES



### Machine Carrying Case

Water resistant, lockable case designed with enough space to store the Sprinter 180Si welder and all of the TIG One-Pak accessories.

**Order K5549-1**



### Gas Regulator with Hose.

Compensated flowmeter regulator shielding gas kit for use with Argon (Ar).

**Order 3100211**



### Welding Cart

Designed to store and transport a welder, gas cylinder, cables and accessories.

**Order K2275-1**



### Caliber® 17 Series TIG Torch Ready Pak® - Flexible

Premium Caliber TIG Torch with a 150A 60% Duty Cycle.

**Order K5339-17F-1**



### Foot Pedal

Pedal for TIG Welding

**Order K4361-1**



### Cut Length Consumables

TIG welding filler metals are available for welding stainless steel, mild steel and copper alloys.

**Request Lincoln Publication C1.10 for more information.**



### Caliber® 17/18/26 Series TIG Torch Expendables Kit - 1/16"-1/8"

Includes all of the front end parts needed to run a Gas Lens setup on 17/18/26 Series TIG Torches.

**Order KP4760-HD**

## PACKAGES AVAILABLE



### K5453-1 Sprinter™ 180Si Base Model

- Sprinter 180Si welder
- Insulated Electrode Holder and Cable
- Heavy Duty Work Clamp and Cable
- 230V to 120V Power Cord Adapter



**K5600-1 Sprinter 180Si Case One-Pak** includes everything in K5453-1 Sprinter 180Si Stick Welder base model and:

- Case (K5549-1)



**K5584-1 Sprinter 180Si TIG One-Pak** includes everything in K5453-1 Sprinter 180Si Stick Welder base model and:

- Caliber 17 Series TIG Torch K4841-17F-1
- Parts Kit for 17 series Tig Torch (KP4760-HD)
- Foot Pedal (K4361-1)
- Adjustable Gas Regulator and Hose (3100211)
- TIG Torch Adapter (K1622-7)



**K5585-1 Sprinter 180Si Case and TIG One-Pak** with case includes everything in K5584-1 Sprinter 180Si TIG One-Pak and:

- Case (K5549-1)

## PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/Voltage/ Duty Cycle	Input Current @ Rated Output	Output Range	Open Circuit Voltage (OCV)	Dimensions H x W x D in (mm)	Net Weight lb (kg)
Sprinter 180Si	K5453-1	120/230/1/60	110A/14.6V/40% TIG	120VAC: 20A	10-110A DC TIG	Average OCV - 65V Peak OCV - 110V VRD OCV (Peak) - 14V	11.8 x 6.25 x 16 (299.7 x 158.8 x 406.4)	20 (9.1)
Sprinter 180Si TIG One-Pak	K5584-1		85A/23.2V/40% STICK	230VAC: 30A	20-85A STICK			
Sprinter 180Si Case One-Pak	K5600-1		200A/16.4V/25% TIG		10-200A DC TIG			
Sprinter 180Si Case and TIG One-Pak	K5585-1		180A/26.4V/25% STICK		20-180A STICK			

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

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