

DIGITAL

PowerTIG 210/320EXT



POWERTIG 210 EXT

PROCESS: AC/DC GTAW-P/SMAW
INPUT: 240V 33A 50/60 Hz, 1 phase
OCV: 62 V
WEIGHT: 40 LBS

TIG OUTPUT: 5-210 A DC /10-210A AC
STICK OUTPUT: 10-160A
CLASSIFICATION: PRO/COMMERCIAL
DIMENSIONS: 8.5"Wx17"Lx16"H

TIG DUTY CYCLE: 40% @ 210 A
STICK DUTY CYCLE: 40% @ 160 a
IGBT TYPE: MODULE
ELECTRODE DIAMETER: 1/16" – 1/8"

POWERTIG 320 EXT

PROCESS: AC/DC GTAW-P/SMAW
INPUT: 240V OR 480V, 23 A 50/60 Hz, 3 PH
OCV: 62 V
WEIGHT: 57 LBS

TIG OUTPUT: 5-320 A DC /10-320A AC
STICK OUTPUT: 10-320A
CLASSIFICATION: PRO/COMMERCIAL
DIMENSIONS: 9"Wx20"Lx19"H

TIG DUTY CYCLE: 60% @ 320 A
STICK DUTY CYCLE: 50% @ 320 A
IGBT TYPE: MODULE
ELECTRODE DIAMETER: 1/16" – 1/4"



SUITABLE FOR:

- ⇒ Portable Repair
- ⇒ Construction
- ⇒ Farm/Ranch
- ⇒ Home/Hobbyists
- ⇒ Motorsports/Automotive
- ⇒ Fabrication

TIG is unparalleled as a quality weld process. So when you need the best possible weld, the PowerTIG 210 EXT and the PowerTIG 320 EXT have the control and stability to get the job done. The digital microprocessor inside the units, controls every function accurately so that settings can be precisely set without guess work. Along with the digital management of the weld arc and basic functions, the welders have the ability to store up to 9 pre-programmed favorite settings.

As you would expect for welders in this category, the units feature pulse welding. The welders not only feature pulsing in AC and DC, it also features an advanced form of pulse for welding aluminum. This advanced pulse is a combination of AC and DC, and the oscillation between the AC and DC supports rapid penetration, but, also prevents burn-through and warping on thin aluminum sheeting by preventing excessive heat build up in the metal.

The simple layout of the panel is user friendly and self explanatory. The basic features all can be accessed with a quick push of a button. Although the unit has advanced features that can be employed, basic setup and use is not affected by complicated background menus or extra buttons or controls to worry about. Should the user want it, the advanced settings are easy to access, and offer even more control over the way you want to weld.

GTAW-P

DIGITAL PERFORMANCE

MICROPROCESSOR CONTROL:

The micro processor found inside the digital PowerTIG welders precisely manages all welding functions. This helps operating efficiency, and offers a wide range of adjustment so the welder can be set up to the customers demands.

AC WAVE FORM:

Although many welders prefer one wave form over the other, there are times when you may need an additional choice to get the best results on the Aluminum you are welding. The Power TIG EXT units feature advanced square wave, sine, and soft square wave. Each has its own distinct personality, and can help the user to get the most out of the machine.

AC BALANCE/FREQUENCY CONTROL:

The great overall feel and effect while welding aluminum is controlled by two controls which work together to improve and stabilize the AC arc while welding. The balance control adjusts the cleaning area around the weld. The AC frequency can be used to focus the arc to gain more penetration.

STANDARD AND ADVANCED PULSE:

The 210 and 320 models of the EXT series feature a standard pulse and an advanced pulse. The standard pulse is great for standard welding in AC or DC. However the advanced pulse can only be used in AC. In this mode, the welder actually oscillates between AC and DC providing a perfect condition for welding thin aluminum material.

STICK PROGRAMMING AND VRD:

The stick capabilities of these welders should not be forgotten. These units feature digital adjustments for hot start for amperage and duration. It also features arc force control to improve short arc characteristics. The Voltage Reduction Device (VRD) may be used to reduce OCV shock hazard where required.

POWER FACTOR CORRECTION:

A welcome addition to our digital series, Power Factor Correction is used to help stabilize less than stellar input current, on power that may be "dirty". This helps to prevent unit failure or over loading when the power is supplied to the unit is coming from a generator or other sort of non grid power. The PFC is greater than 99% so that the arc is extremely stable.

PowerTIG 210/320EXT

TIG SPECIFICATIONS 210 /320 EXT:

Start Amps	1-100%
End Amps	1-100%
Arc Force	0-100%

GAS

Pre-Gas Flow	.1-9.9 Seconds
Post Gas Flow	0-25 Seconds

PANEL 2T/4T

Up Slope	0-10 Seconds
Down Slope	0-25 Seconds

AC

AC Frequency	20-200 Hertz
AC Balance	-30% to +30% (20-80% of EP)

PULSE

Pulse Frequency	.5-500 Hz DC/ .5-10 Hz AC (Adv/Std.)
Pulse Amps Ratio	1-99%
Pulse Time Balance	20-80%

START TYPE

- Lift Start (with adjustable parameters)
- High Frequency Start (Solid State with adjustable parameters)

Optional Equipment:

- Water Cooler • Amp Control Torch • Cart
- Water Cooled Torch • Gas Regulator



GTAW-P