



PROFESSIONAL IN WELDING

PROTIG

**Powerful output, Heavy duty for industrial,
Outstanding performance**

Advanced DC TIG Welding



Good for heavy industries of Stainless Steel & Alloys
Precision fabrication / Heavy fabrication / Pipe and tube fabrication / Aerospace

Quick Specs

Input Voltage	3PH ~ 400V ±15%
Output Range	20A ~ 400A/500A/600A
Rated Output(40 C) 60%	PROTIG-400CT: 400A/26V PROTIG-500CT: 500A/30V PROTIG-600CT: 600A/34V
Net Weight	70kg

Machines Processes

DC TIG (GTAW)
Pulsed TIG (GTAW-P)
Stick (SMAW)

Industrial Applications

Precision fabrication
Heavy fabrication
Pipe and tube fabrication
Aerospace



Advanced Features

▪ High-frequency Start

High-frequency (HF) arc starter for non-contact arc initiation. Provides more consistent arc starts and greater reliability compared to traditional. HF arc starters. Arcs can be easily established under various conditions.

▪ Fast Spot Arc System

Simply controls the spot arc parameter and offers a stable arc.

▪ Fast, precise and clean arc ignition and arcquenching

▪ 10 Independent Memory

Features ten independent memories that maintain/save your parameters. It is convenient to restore the previous settings, making the operation much easier and more efficient (equals more time savings).

▪ Side-mounted torch holder

Enable a place for your torch when not in use.

▪ Advanced Pulse Controls

Exceptionally smooth and precise arc for welding exotic materials.

Pulse.

Pulsing can increase puddle agitation, arc stability and travel speeds while reducing heat input and distortion. This models provide extended ranges.

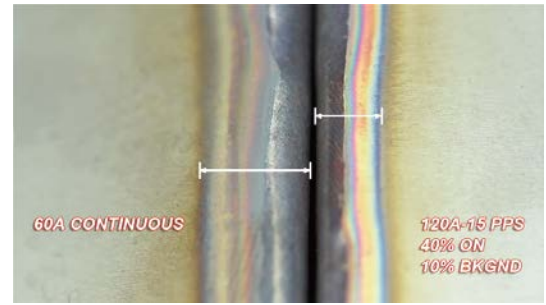
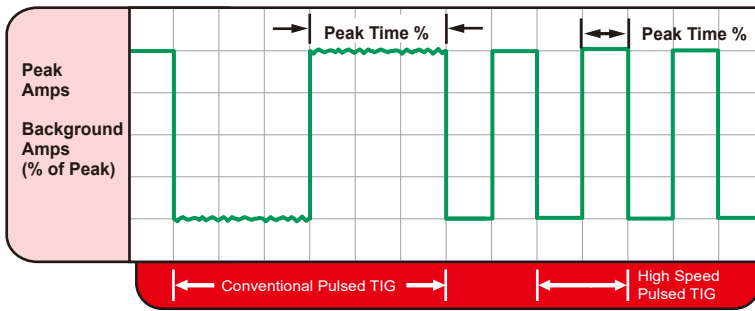
▪ Gas lens with the torch

- 1) More gas coverage, gas is more concentrated.
- 2) Less turbulence in the gas.
- 3) Allows the tungsten to stick out further for better visibility and getting into tight spaces.
- 4) A cleaner gas and a cleaner weld.

▪ Fan-On-Demand

Power source cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through the machine.

Pulse TIG



Typically from 0.2 to 10 PPS, Provides a heating and cooling effect on the weld puddle and can reduce distortion by lowering the average amperage. This heating and cooling effect also produces a distinct ripple pattern in the weld bead. The relationship between pulse frequency and travel speed determines the distance between the ripples. Slow pulsing can also be coordinated with filler metal addition and can increase overall control of the weld puddle.

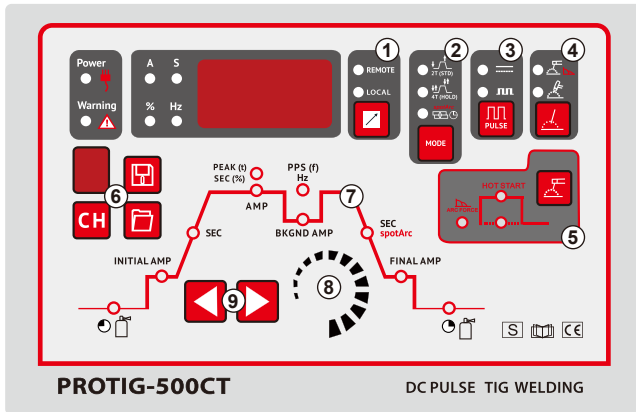
In excess of 40 PPS, Pulsed TIG becomes more audible than visible - causing increased puddle agitation for a better as-welded microstructure. Pulsing the weld current at high speeds - between a high Peak and a low Background amperage - can also constrict and focus the arc. This results in maximum arc stability, increased penetration and increased travel speeds.

Pressure Pipelines Application

ProTIG-500CT + Cold Wire Feeder + Carriage system is a solution for pressure pipelines. It is 500A @ 100% Duty Cycle. With the precise arc control, it delivers deep penetration and high-quality welding seams.



General View of Control Panel



1. **Remote:** used for foot pedal or Remote torch.
Local: adjusted Currents by face panel
2. 2T/4T holding mode or Spot Welding mode selection
3. Pulse ON/OFF selection.
4. Process selection
5. ARC FORCE/HOT START
6. Memory with capacity of 10 sets parameters
7. Function Sequence
8. Encoder Control
9. Select welding parameters button

Specifications

Item No	PROTIG-400CT	PROTIG-500CT	PROTIG-600CT
Rated Input Voltage	3PH ~ 400V ±15%	3PH ~ 400V ±15%	3PH ~ 400V ±15%
Input Power	TIG: 14.39 KVA	TIG: 20.76 KVA	TIG: 28.24 KVA
	MMA: 14.21 KVA	MMA: 19.93 KVA	MMA: 27.69 KVA
Output Range	TIG: 20A/10.8V~400A/26V	TIG: 20A/10.8V~500A/30V	TIG: 20A/10.8V~600A/34V
	MMA: 20A/20.8V~315A/32.6V	MMA: 20A/20.8V~400A/36V	MMA: 20A/20.8V~500A/40V
Rated Output(40°C) 60%	TIG: 400A/26V	TIG: 500A/30V	TIG: 600A/34V
	MMA: 315A/32.6V	MMA: 400A/36V	MMA: 500A/40V
Polarity	DC	DC	DC
Dimensions(L*W*H)	960x420x900mm	960x420x900mm	960x420x900mm
Net Weight	70KG	70KG	70KG

Water-cooling Unit: WC-150	
Operating Voltage	230V 50/60Hz
Rated Power	260W
Cooling Power	1.5KW(1L/MIN)
Maximum Pressure	0.3MPA/60HZ
Recommended Cooling Liquid	20%~40% ethanol/water
Tank Volume	6.5L



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