

**Panasonic**

**Welding Machine**

**TIG/MMA/CUT**

Panasonic pursues *Only one* in welding



# WX5 Series

Full Digital Control AC/DC TIG Welding Machine

AC Standard TIG

Mix TIG

AC Soft TIG

AC Hard TIG

DC TIG

MMAW

**Achieve high quality welding of aluminum and various materials!**



YC-350WX5



YC-500WX5

## AC waveform control

### AC balance control-cleaning width adjustment

For AC TIG aluminum welding, the cleaning width can be adjusted. The adjustment range of EP is 10-50% by changing the percentage of EP, the higher percentage of EP, the wider the cleaning width and the shallower the penetration.

Waveform	Effect on weld bead	Effect on appearance
<p>10% EP</p>	<p>Large EN area Low electrode loss</p> <p>Narrow and deep penetration</p>	<p>Narrow joint</p>
<p>40% EP</p>	<p>Small EN area High electrode loss</p> <p>Wide and shallow penetration</p>	<p>Wide joint with cleaning area</p> <p>Cleaning area</p>

### AC balance control-bias current adjustment

For AC TIG aluminum welding, the cleaning strength of removing the oxide film can be further adjusted by changing the amplitude ratio of EP and EN, achieving the ideal the penetration and width of the joint. The bias current range is -70% - 70% and the standard is 0.

Waveform	Effect on weld bead	Effect on appearance
<p>The bias current 10%</p>	<p>Wider and deeper joint</p>	<p>Narrower joint</p> <p>Smaller cleaning area</p>
<p>The bias current -10%</p>	<p>Narrower and shallower joint</p>	<p>Wider joint</p> <p>Larger cleaning area</p>

### AC balance control-AC frequency adjustment

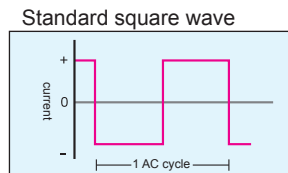
Through the adjustment of AC frequency (adjustment range 30-100Hz), the arc concentration and arc stiffness can be controlled, the higher the frequency, the stronger the arc concentration.

Waveform	Effect on weld bead	Effect on appearance
<p>AC frequency, 30Hz</p>	<p>Wider joint &amp; deeper penetration</p>	<p>Wider joint</p> <p>Cleaning area</p>
<p>AC frequency, 100Hz</p>	<p>Narrower joint Suitable to fillet joint and automatic welding</p>	<p>Narrower joint</p> <p>Cleaning area</p>

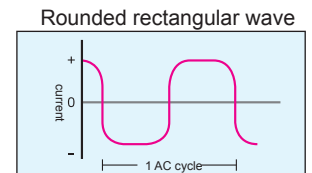
## AC waveform selection

### AC standard TIG mode

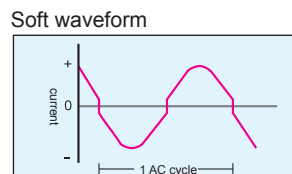
As a rectangular wave current with the same positive and negative peaks, AC standard mode is widely used in aluminum, magnesium and their alloys from thin plates to thick plates; The thin and thick plate have a large heat capacity difference. When they are welded together, the low-frequency pulses (0.5-10Hz) are used to control the output, making welding easier.



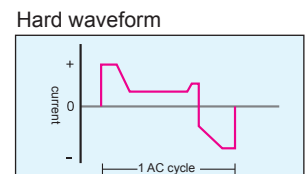
Standard AC waveform: fast polarity switching, high arc stability, good dynamic characteristics, and strong ability to clean aluminum oxide film. Suitable for a wide range of aluminum and its alloy welding.



The rounded rectangular waveform: smooth polarity switching, soft arc, and nice wetting effect on the molten pool. Suitable for overhead and grooved welding.

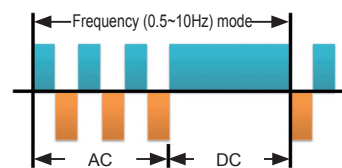


The wave shape at zero-crossing point is rectangular. And the wave crest is a sine wave. The arc noise is low and softer.



Hard wave: the arc heat concentration is high. (Suitable for welding with narrow bead.) Suitable for thin plate welding. Fillet welds of the normal thickness plates. If pulse is turned ON, it can be suitable for plates of different thickness.

### Mixed TIG mode



In MIX TIG mode, the alternate outputs of AC and DC further increase the heat input of the heating base metal and the penetration depth, and reduce the tungsten electrode burning loss. You can obtain the satisfied welding result by filling the wire during AC period. (if the frequency is adjusted to 1-2Hz, it is easy to find the insertion time of the filler wire.)

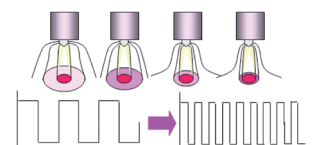
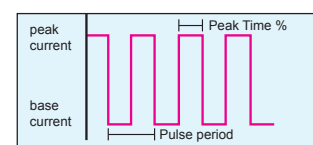
## Pulse control

Generally speaking, TIG pulse welding can be divided into the following types:

- Low frequency pulse (0.1~10Hz);
- Intermediate frequency pulse (10~500Hz);

Low-frequency pulse is focused on controlling the amount of heat input, while the medium-frequency pulse welding is mainly used to increase the stiffness of the arc.

Pulse frequency and main welding characteristics:



pulse frequency	arc state	Main Applications
Low frequency pulse (0.1-30Hz)	The arc column is wide.	Full-position welding, different plate thickness with dislocation welding, penetration welding
Medium frequency pulse (10-500Hz)	Arc concentration, arc sound.	High speed welding, fillet welding and wire filling are easy.

EP: Electrode rod positive polarity EN: Electrode rod negative polarity

## Description of Welding Method

### Recommended application of various welding methods

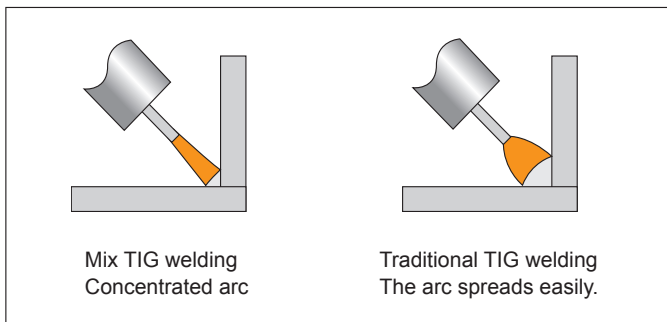
Welding methods	Weld appearances	Welding speed	Arc noise	Butt joint	Thin plate fillet joint	Thick plate butt	Thick plate fillet	Different plate thickness	Vertical edge butt joint	Easy to fill wire?	Electrode life
Mixed TIG	● Medium width	▲	●	◎	●	●	●	●	◎	◎	◎
Standard TIG	◎ Medium width	◎	●	●	●	◎	◎	●	●	◎	●
Hard TIG	● Narrow	●	▲	◎	◎	●	◎	◎	●	●	●
Soft TIG	● Wide	◎	◎	●	▲	●	●	▲	●	●	●

◎Excellent ●Good ▲Acceptable

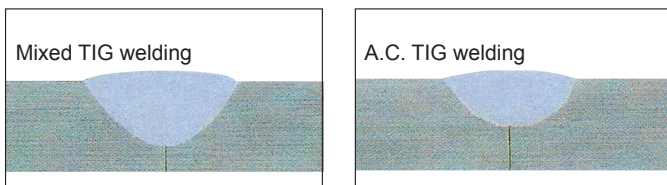
### The multiple welding modes are ready for selection to meet different welding needs.

#### Mix TIG welding

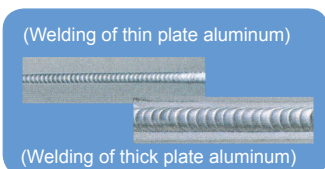
Thanks to high arc concentration, it's easy for you to complete the aluminum thin plate fillet welding and realize the reliable tack welding.



Because AC TIG welding contains DC component, it can get deep penetration.

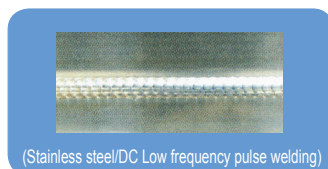


#### AC Standard TIG Welding



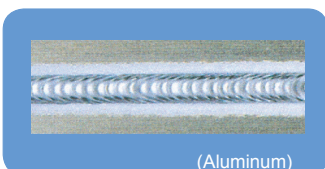
- From thin plate to thick plate, various shapes workpiece can be welded.

#### DC TIG Welding



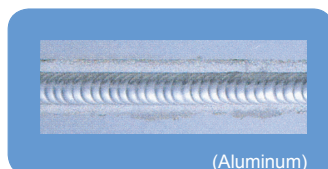
- Choose the arc ignition method according to the purpose.
- Suitable for multi-point welding.  
※EP=electrode positive polarity method

#### AC hard TIG Welding



- Strong arc concentration.
- Suitable for welding thin plates with gaps.

#### AC soft TIG Welding



- The arc is soft and the noise is low.

## rated specification

Item	Unit	YC-350WX5HGY	YC-500WX5HGY
Control method	—	Digital IGBT control	
Rated input Power supply and number of phases	—	3-phase AC 380 V ±20%	
Input power frequency	Hz	50/60	
Rated input capacity	KVA/kW	16.6/13.5	29.5/22.5
Rated output No-load voltage	V	DC 62	DC 70
Rated output current	A	TIG 350 MMA 300	TIG 500 MMA 400
Rated output voltage	V	TIG 24 MMA 32	TIG 30 MMA 36
Rated duty cycle	%	35	60
Output current range	A	DC TIG 4-350 AC TIG 10-350 MMA 10-300	DC TIG 5-500 AC TIG 20-500 MMA 20-400
Output voltage range	V	TIG 10.2-24 MMA 20.2-32	TIG 10.2-30 MMA 20.2-36
Pulse current	A	DC TIG 4-350 AC TIG 10-350	DC TIG 5-500 AC TIG 20-500
Pulse frequency	Hz	0.1-500	
Memory	—	100 channels for storing and recalling	
Shielding gas	—	Ar: 99.99% or higher	
Up-slope time	S	0-20 continuous adjustment (0.1 increment)	
Down-slope time	S	0-20 continuous adjustment (0.1 increment)	
Gas pre-flow time	s	0-30 continuous adjustment (0.1 increment)	
Gas after-flow time	S	0-30 continuous adjustment (0.1 increment)	
AC frequency (AC TIG)	Hz	30-100 (factory setting: 70)	
Input power terminal	—	Terminal block (for 3 phases, M5 bolts)	
Output terminal	—	Fast plug	Bolt fastening method
Enclosure class	—	IP23S	
Insulation class	—	200°C	
Cooling method	—	Forced air cooling	
Dimensions (Length×Width×Height)	mm	560×380×730	730×380×875
Mass	kg	74	128

Description:

Note: Welding power output range measured under resistive load according to GB/T 15579.1-2013

## Optional peripheral devices



T SMAU064  
Foot controller



YJ-1052THGG  
Automatic wire filling device



YX-09KGC2HGP  
Liquid cooling system

Note:500WX5 needs to be equipped with large-capacity liquid cooling device YX-09KGC2HGT.

# 200BL3

Full Digital Control DC TIG Welding Machine

**DC TIG** **MMAW**

Portable  
Body weigh  
**10kg**

**Ultra-thin and light-weighted structure!  
Best for field use!**



YC-200BL3

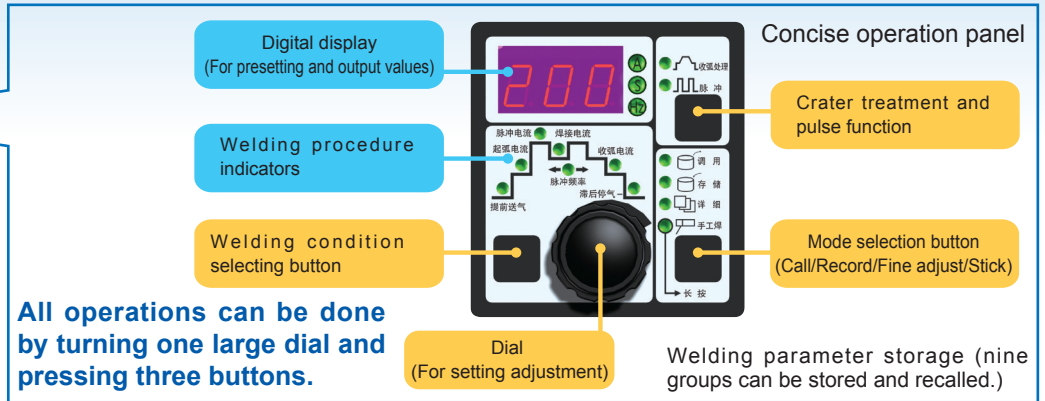
Specialized torch  
YT-15TS2HBK  
YT-20TS2HBJ

## Pursue simple operation mode

Full digital control, high performance and simple operation.



200BL3

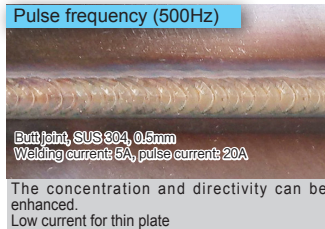
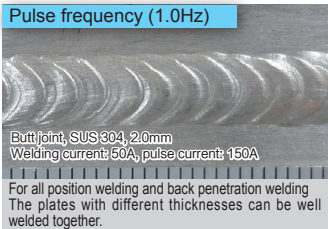


## Full digital control ensures high welding quality.

Through full digital control, the precious setting, representation and management of welding parameters can be realized. The arc ignition can be well controlled. The increment of 1A is achievable.

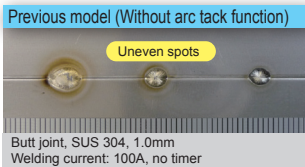
## Standard DC pulse function

The pulse frequency adjustment range is as wide as 0.5 ~ 500Hz, adapting different welding condition and realizing quality welding.



## Arc tack welding

The timer can be adjusted from 0.1 to 5.0s (0.1s increment). The uniform and consistent spot with constant penetration is obtainable.



## Easy to carry for field use



It's OK to storage machine by stacking them horizontally in three layers.

**Portable**  
The mass of the power source  
**10kg**

The rotary metal supporter against rolling over

- Portable Although the strong sheet metal structure is used, the mass is only 10kg. The machine can be carried just like a briefcase.
- Wide rated voltage range 220V ±15% (170~253V)
- A rotary metal supporter against rolling over is equipped.
- Electric shock prevention function (For stick welding)
- Arc force function can prevent stick from sticking on the workpiece (For stick welding).

## Nine channels of welding parameters can be stored and recalled.

The uniformed welding conditions and stable welding quality are assured.

## Rated specifications

Models		YC-200BL3	
Rated Input Voltage	—	220V(170V~260V) 50/60HZ	
Number of Phase	phase	1	
Rated Input Capacity	kVA	7.3	
Rated Input Power	kW	4.8	
Rated No-Load Voltage	V	71	
Weld Current Range Note	TIG	A	5 ~ 200
	MMA	A	5 ~ 150
Weld Voltage Range Note	TIG	V	10.2 ~ 18
	MMA	V	20.2 ~ 26
Initial Current	A	5 ~ 200	
Pulse Current	A	5 ~ 200	
Crater Arc Current	A	5 ~ 200	
Rated Duty Cycle	%	20	
Control Method	—	IGBT Inverter	
Cooling Method	—	Forced air-cooled	
High Frequency Generator	—	Spark Generator	
Gas Pre- After-Flow Time	s	0 ~ 25 ( 0.1s increment )	
Up-slope Down-slope Time Adjustable Range	s	0 ~ 10 ( 0.1s increment )	
Arc-spot Time Adjustable Range	s	0.1 ~ 5 ( 0.1s increment )	
Pulse Frequency Adjustable Range	Hz	0.5 ~ 500	
Pulse Duty Ratio Adjustable Range	%	50 (fixed)	
Crater Arc Control Methods	—	ON / OFF	
Store channel	—	9 channels	
Dimension(W×D×H)	mm	95×450×295	
Weight	kg	10	
Insulation Class	—	200°C	
EMC	—	A class	
Enclosure Class	—	IP21S	

※Note: The output range of the welding power source (measured under the resistive load as specified in GB/T 15579.1-2013)

# TX4 Series

Full Digital Control DC TIG Welding Machine

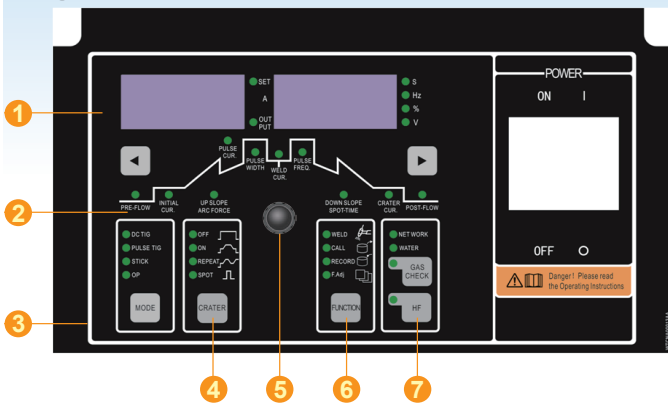
DC TIG MMAW



YC-400TX4

Widely used in petrochemical industry, pressure vessel power construction, stainless steel products and other fields.

## Digital operation panel



### 1 Multi-functional digital displays

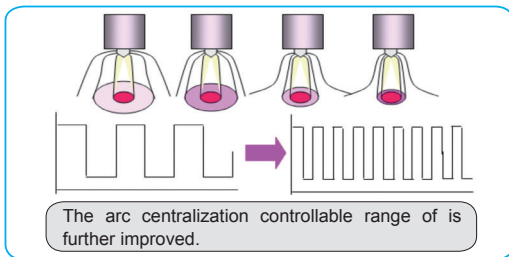
The values of current, voltage, time, frequency, duty cycle, alarm code and more can be shown on the displays. The finest adjusting step is 0.1A when the preset welding current is less than 10A.

### 2 TIG welding mode control

1. After selecting TIG welding mode by pressing the button 3, the sequence parameters can be fine-tuned by rotating and pressing the Dial 5.

2. The parameters such as pre-flow & post-flow times, current, pulse frequency and duty cycle, up and down slope times etc. can be adjusted in Crater ON mode. The additional adjustments on up and down slope times are obtainable even in Crater OFF mode.

3. The pulse frequency ranges from 0.1Hz to 500Hz, ready for your free adjustment. Thanks to the wide adjustment scope of pulse frequency from 0.1 to 500 Hz, the controllable range of arc concentration characteristics is further expanded, which is beneficial to thin plate welding and fast welding.

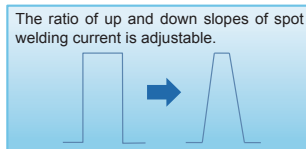


### 3 Three welding processes

1. DC TIG, pulse TIG & stick.
2. When stick welding is selected, both acid & alkaline electrodes are applicable and the arc-start & arc-force current can be adjusted.

### 4 TIG welding function selection

1. In Crater Repeat mode, you may stop welding by double-pressing the torch switch.
2. Apart from the adjustable welding time in spot welding mode, the up and down slopes are added at the start and end of spot welding process respectively.



### 5 The easy-to-use dial

The digital encoder provides you a convenient operation, just rotating to adjust and pressing to confirm.

### 6 More functional settings

1. 100 groups of welding parameters can be stored & recalled.
2. The detailed menu provides you more functional settings and adjustments.
  - Current-limiting function: The upper limit can be set between 50A and 400A.
  - Anti-electric shock function: This function can be enabled when you use stick welding mode in a wet or cramped environment. The factory default is OFF.
  - Arc-start adjustment function: The arc ignition current and time are adjustable.
  - Short-circuit alarm: Once the tungsten electrode is short-circuited with the work piece, the machine enters the alarm state, preventing the tungsten electrode from burning. (For more information, please refer to the operational manual.)

### 7 Arc-start setting

Both high frequency and touch arc ignition functions are open for selection. In case high frequency generator is not allowed to use, you may choose touch arc start to strike the arc.

## Rated specifications

Model number		YC-400TX4HGH	YC-400TX4HGY
Number of phases	—	3	
Rated input voltage	V	380±10%	380/415
Rated frequency	Hz	50/60	
Rated input	TIG	kVA	13.5
	MMA	kVA	17.85
Rated output	TIG	kW	12.8
	MMA	kW	17
Power factor	—	0.95	
Rated no-load voltage	V	73	
Output current adjustable range note	TIG	A	4~400
	MMA	A	4~400
Output voltage adjustable range note	TIG	V	10.2~26
	MMA	V	20.2~36
Initial current	A	4~400	
Pulse current	A	4~400	
Crater current	A	4~400	
Rated duty cycle	%	60	
Control method	—	IGBT Inverter type	
Cooling method	—	Forced air-cooling	
High-frequency generator	—	Spark-oscillation type	
Pre-flow time	S	0~30	
Post-flow time	s	0~30	
Up-slope time	s	0~20	
Down-slope time	S	0~20	
Arc spot time	s	0.1~30	
Pulse frequency	Hz	0.1~500	
Pulse width	%	5~95	
Crater control process	—	Three mode(ON,OFF,REPEAT)	
Dimensions (W×D×H)	mm	340×558×603	
Mass	kg	44	
Insulation class	—	130°C(reactor 180°C)	
EMC classification	—	A	
IP code	—	IP23	

# TIGMATE

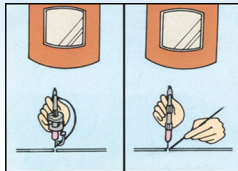
Wire filling device

**High-efficient automatic TIG welding is achievable on various welding conditions.**



## Multiple wire filling methods

- Continuous wire feeding: higher welding efficiency for automatic welding
- Intermittent wire feeding: For aluminum welding, the heat input is well controlled to obtain the appearance of fish-scale.
- Pulsed synchronous wire feeding: synchronous wire feeding with low frequency pulse current
- Switch B synchronous wire feeding: Feeder can be controlled by foot controller.



TIGMATE Manual Fill

## Easy operation for automatic wire feeding.

- After connecting the 6-core communication cable to the TIG welding power source, the collaborative automatic wire feeding can be achieved. (The TIG welding power source requires an analog communication interface.)
- Wire feeding delay and wire withdrawal can be set.
- The attached welding torch accessory allows the device to adapt to various welding torches.

## Rated specification

Model		YJ-1052THGG
Rated input voltage	—	Single phase AC 380V
Frequency	Hz	50/60
Feeding speed	m/min	0.3 to 3.0
Speed adjustment	—	First, second, crater and wire withdrawing
Feeding mode	—	Continuous, intermittent, pulse synchronization, switch B synchronization (For pulse frequency less than 2Hz, pulse width less than 50%)
Intermittent duration	s	Feeding 0.2 ~ 5    Holding 0.2 ~ 5
Delayed feeding time	s	0.2 ~ 5
Rated duty cycle	%	100
Dimensions (W×D×H)	mm	500×312×500
Mass	kg	24.5

# TIG welding torch

## TIG welding torch



●YT-15TS  
(Applicable plate thickness:3.0mm or less)



●YT-20TS  
(Applicable plate thickness:4.5mm or less)



●YT-30TSW  
(Applicable plate thickness:6.0mm or less)

## Rated specifications

Model			YT-15TS	YT-20TS	YT-30TSW
Torch body shape			Angle	Angle	Angle
Rated welding current	DC (DCSP)	A	150	200	300
	AC	A	105	140	210
Rated duty cycle		%	35	35	100% DC
Applicable electrode diameter		Φmm	0.5~2.4	1.0~3.2	1.0~4.0
Cooling method		1	Air cooling		Water cooled

# 400AT Series

IGBT Controlled DC Welding Machine



The high-reliable multi-functional model adaptable to rigorous environments! Equipped with VRD (Voltage Reduction Device) / Electric Shock Preventing



- MMA
- SIMPLE TIG



- MMA
- SIMPLE TIG
- CELLULOSE ELECTRODE

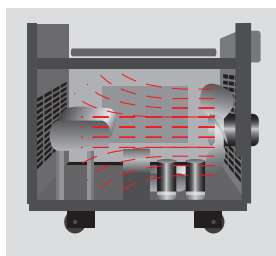


- MMA
- GOUGING
- SIMPLE TIG

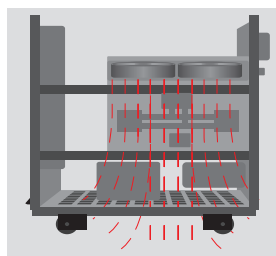
## The high-reliable DC arc welding power unit with the enclosure protection grade IP23

### Dust-proof and drop-proof

The enclosure protection is upto IP23. The fan is improved to the design of positioning at the top and blowing downwards from the design of positioning at the rear and blowing forwards, which effectively minimizes the collection of dust and improves the service life of the fan.



The previous model



Model 400AT3

### Excellent 3-layer and 4-chamber design

The main power components, PC Board, switch, potentiometer and so on are built in 2 hermetic chambers, which effectively prevents from ingress of dust. The intake port is positioned at the top layer, which highly improve the efficiency of heat emission.

### The high-temperature resistant design

This model can work at the ambient temperature as high as 50°C and therefore is very adaptable to the high-temperature environment in field.

## The elaborate model meeting the working demand and provides multiple functions

- AT3 has the functions of manual welding and simple TIG. In addition, the special model for using the cellulose welding rod is available.



4 Power source Combination



3 Power source Combination

The combined power unit comprised of multiple power units can be used in many industries such as ship-building and petrochemical industries.

### The force current is adjustable freely up to 220A.

In case the welding rod is stuck in welding, adjust the force current. As the arc transfer form depends on the types of welding rods, adjusting up the output current by an appropriate value at the moment of short circuit caused by molten drops can effectively improve the welding performance.

## Specifications

Model		YD-400AT3	YD-630AT3
Control mode	—	IGBT inverter	
Input power frequency	Hz	50/60	
Rated input capacity	kVA/kW	17.6/16.7	32.2/30.8
Rated output current	A	400	630
Rated output voltage	V	36	44
Rated duty cycle	%	60	
Rated output voltage at no load	V	71	76
Output current range	A	20~410	50~630
Arc force current	A	Max.220	
Arc ignition current	A	Max.150	
Enclosure protection grade	—	IP23	
Insulation class	—	Grade H (Grade B for the main transformer)	
Cooling mode	—	Forced air cooling	
Starting mode for TIG	—	Touch starting	
Dimensions(W×D×H)	mm	327×560×602	372×619×706
Mass	kg	43	71

Note: The output range of the welding power source measured under the resistive load as specified in GB/T 15579.1-2013

- It is designed to provide the function of protection from electric shock as the means for safe working high and in damp environments.
- The extended cable having the length up to 100m(300A,60mm') makes it possible to work high above the ground or at a distance.
- It can be used for welding by using various acidic, basic, stainless-steel and low-hydrogen welding rods.
- High allowable fluctuation of input voltage.



The shell design is convenient for multi-layer code placement.

## The unique control technology of the touch arc ignition for argon arc welding enables the machine to output low arc ignition current, avoiding possible burning loss of the tungsten electrode.

# 060/100PF3

Full Digital Controlled Plasma Cutting Machine



High quality cutting

## Much Better Cutting Performance

The comparison on cutting performance

The new-type cutting torch powered by full digital machine offers you high-level of cutting solution.

Item	PF3 cutting result	Previous model	
Cutting speed	0.3m/min		
The comparison on cutting results	The smoothness	<p>About Ra2.52</p>	<p>About Ra6.3</p>
	The cut width	<p>About Ra2.35</p>	<p>2.85mm</p>
	The amount of adhering slag	<p>Very less</p>	<p>Acceptable</p>
	The verticality of cut surface	<p>Fine</p>	<p>OK</p>

## Easy-to-operate "Cutting Navigation Function"

The professional cutting parameter setting function makes more convenient, professional and personalized operations possible.

The optimal cutting conditions can be set with ease



The cutting navigation can be started by just pushing a button!

1. Material Selection  
Turn the dial to pick up material (Carbon steel/SUS/Aluminum)
2. Thickness Selection
3. Manual/Auto Selection



YP-060PF3HGF



YP-100PF3HGF

## Air Plasma Arc Gouging

Compared with conventional carbon arc gouging, the noise level reduces over 10 dB and consumables can be saved.

Air plasma arc gouging can be easily realized by replacing the cutting nozzle with gouging nozzle.

### The Gouging Result

	Construction result	Width (mm)	Deep (mm)
Mild steel		10.4	5.3
Aluminum		9.0	4.4
Stainless steel		9.4	4.7

## Load pressure monitoring function

1. Digital display for easy fine adjustment

The self-draining air filter is provided.

2. Air pressure can be monitored

When air pressure exceeds the recommended range, the machine prompts a warning message which can be controlled by the operator.

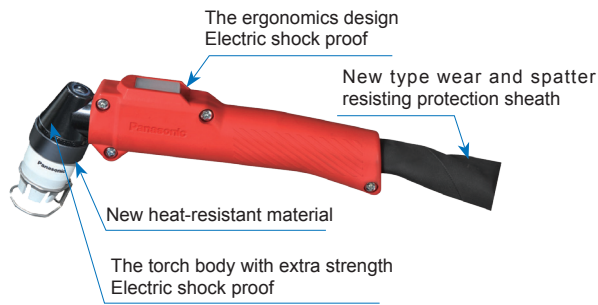
## Digital control panel



- 1 Digital Display
- 2 Operation Lock
- 3 Air Pressure Monitoring
- 4 Cutting Torch Life Span Monitoring
- 5 Cutting Navigation
- 6 Specific Settings

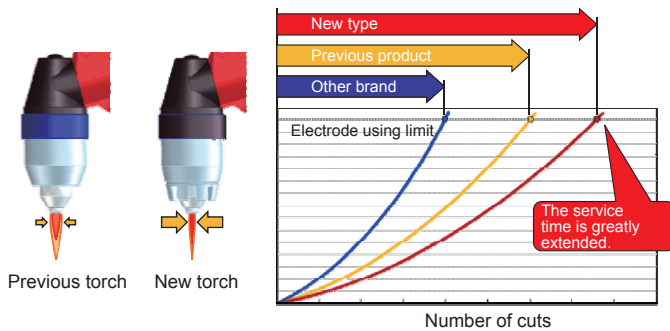
## The Long-lasting Plasma Arc Cutting Torch

### Enhanced operability and durability



### Higher precision cutting tip with prolonged life span

The comparison on the consumption of electrodes (080PF)



## Cutting Thickness

Thickness (mm)	60PF(mm)		100PF(mm)	
	Contact	Non-contact	Contact	Non-contact
Carbon steel	12	36	12	40
Stainless steel	12	35	12	40
Aluminum	10	20	10	30
Copper	5	8	6	10

## Applicable Cutting Torch

Model	Rated Current	Shape	Cooling Method	Length	Duty
YT-06PD3HAJ	60	Angular	Air Cooling	10m	100%
YT-10PD3HAJ	100A	Angular	Air Cooling	10m	60%

## Rated Specifications

Type		YP-060PF3HGF	YP-100PF3HGF
Rated input voltage	V	AC380(±20%)	
No. of phases	—	3	
Rated frequency	Hz	50/60	
Rated input	kVA	9.81(Cutting) /11.32(Gouging)	17.67(Cutting) /19.82(Gouging)
	kW	7.27(Cutting) /8.48(Gouging)	13.87(Cutting) /15.95(Gouging)
Maximum no-load voltage	V	295	300
Rated output current	A	60	100
Rated output voltage	V	104(Cutting) 124(Gouging)	120(Cutting) 140(Gouging)
Rated duty cycle	%	100	60
Output current	A	15 ~ 60	15 ~ 100
Control process	—	IGBT Inverter	
Power source cooling method	—	Forced cooling	
Enclosure protection Class	—	IP21S	
Insulation grade	—	Main transformer130°C(Reactor 180°C)	
Electromagnetic compatibility classification	—	A	
Dimension(W×D×H)	mm	290 × 606 × 559	
Weight	kg	43	48

\*Note: The output ranges are tested on the conditions of resistance load according to GB15579.1-2013.

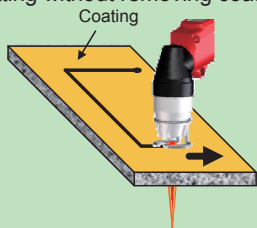
## Electrode and Cutting Nozzle

Short	Short cutting nozzle		TET01110 / TET01310 / TET01512 / TSM06626 (The inner diameters are 1.1, 1.3, 1.5 and 1.7mm respectively.)
	Short Electrode		TET02033
Long	Long cutting nozzle		TET01114 / TET01313 / TET01513 (The inner diameters are 1.1, 1.3 and 1.5 respectively.)
	Long Electrode		TET02040
Gouging nozzle			TET02502(for use with electrode TET02033)

## Abundant Cutting Functions for Different Applications

### 1. Cutting coated steel plate

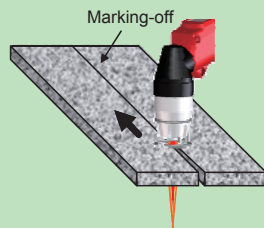
Cutting without removing coating



Caution! The harmful gas can be generated during cutting. Proper ventilation and safety appliance are highly recommended.

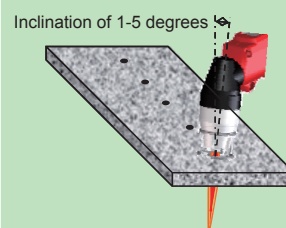
### 2. Pulse Cutting

Easy to cut thin plate



### 3. Piercing

Punch a hole on the thin plate can be realized.



Machine can be stacked in two layers for transportation and storage.

# Panasonic



## Safety precautions

- Before attempting to use any welding product, always read the manual to ensure correct use.

# Panasonic<sup>®</sup>

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The color is subject to be different to the real product.  
The specifications are subject to change without notice.  
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