Product Guide

[TIG Welding Machines]

		Process				Process			Input		Outp	ut Currer	nt (A)	(%)	(Hz)	(s)		
	Model	AC TIG	DC TIG	Pulse	AC Stick	DC Stick	Weld Navigation	Phase	Voltage (VAC)	Frequency (Hz)	AC TIG	DC TIG	DC Stick	Duty Cycle (%)	Pulse Frequency (Hz)	Arc Spot Time (s)	Base Metal Thickness (mm)	Page
(action)	300BZ3		0	0		0		3	380 or 415	50/60	_	300	250	40	0.8 to 500	0.1 to 5.0	Stainless steel: 0.3 to 6.0	2
Digital (In	200BL3YNA		0	0		0		1	200 to 240	50/60	_	200	150	20	0.5 to 500	0.1 to 5.0	Stainless steel: 0.3 to 4.5	2
<u> </u>		0	0	0		0	0	3	380 to 415	50/60	300	300	250	40	0.1 to 500	0.1 to 5.0	Stainless steel: 0.3 to 6.0 Aluminum: 0.8 to 6.0	3
	315TX3		0	0		0		3	380 or 415	50/60	-	315	315	60	0.5 to 500	-	Stainless steel: 0.5 to 6.0	3
	400TX3		0	0		0		3	380 or 415	50/60	_	400	400	60	0.5 to 500	_	Stainless steel: 0.5 to 8.0	3
	200BL1HDK		0			0		1	220	50/60	-	200	160	20	_	l	Stainless steel: 0.5 to 4.5	4
I over	300WX4	0	0	0		0		3	380 or 415	50/60	300	300	250	40	0.5 to 500	I	Stainless steel: 0.5 to 6.0 Aluminum: 0.8 to 6.0	4
	500WX4Y0E	0	0	0		0		3	380	50/60	500	500	400	60	0.5 to 500	I	Stainless steel: 0.8 to 8.0 Aluminum: 1.5 to 8.0	4
	300WY4	0	0	0		0		3	380 or 415	50/60	300	300	250	40	0.5 to 500	ı	Stainless steel: 0.5 to 6.0 Aluminum: 0.8 to 6.0	5
	200BR1YAA	0	0	0				1	200	50/60	200	200	_	25	0 to 500	-	Stainless steel: 0.5 to 4.5 Aluminum: 0.8 to 4.5	5
	300TSP		0	0		0		3	380 or 415	50/60	_	300	300	40	0.5 to 15	0.5 to 5.0	Stainless steel: 0.5 to 6.0	6
and of the same	500TSP		0	0		0		3	380 or 415	50/60	_	500	500	60	0.5 to 15	0.5 to 5.0	Stainless steel: 0.8 to 8.0	6
H	150TM(Mini)		0			0		1	220 or 380	50/60	_	150	150	20	_	_	Stainless steel: 0.5 to 4.5	6
	300WP5	0	0	0	0	0		1	220 or 380 or 415	50/60	315	315	315	40	0.5 to 10	0.5 to 5.0	Stainless steel: 0.8 to 6.0 Aluminum: 1.5 to 6.0	7

[Full Digital (Inverter)]: Digital display, control and communication for easier operation, increased energy savings, reduced size and weight and superior welding performance compared to non-digital or thyristor welding machines.

[Inverter]: Inverter control achieves improved welding performance compared to thyristor models while providing increased energy savings in a smaller and lighter design. [Thyristor]: Standard welding models.

[AC/DC Stick Welding Machines, Plasma Cutting Machines]

			Process				Input				
Model	AC Stick	DC Stick	Arc Gouging	DC Simple TIG	Cutting	Phase	Voltage (VAC)	Frequency (Hz)	Output Current (A)	Duty Cycle (%)	Page
400AT3		0		0		3	380 or 415	50/60	400	60	16
630AT3		0	0	0		3	380 or 415	50/60	630	60	16
400SS3		0				3	380 or 415	50	400	60	16
630SS3		0	0			3	380 or 415	50	630	60	16
405FL4	0					1	220 or 380 or 415	50	400	60	17
505FL4	0					1	220 or 380 or 415	50	500	60	17
305AA3	0					1	380	50	300	60	17
060PS2					0	3	380 or 415	50/60	63	60	18
100PS2					0	3	380 or 415	50/60	100	60	18

200BL1

Compact and Lightweight, Weighing Only 10 kg. **Portable Model Suitable for** Mobile Welding.



±20% input voltage compensation for stable welding performance.

Easy to Use for Mobile Welding

- Good Portability.
- · Compact.
- · Lightweight with only 10 kg.



Good Welding Performance

- High-speed IGBT inverter control achieves instantaneous arc starting.
- DC Stick welding is also available.
- Initial current and crater-fill current can be set.

Twin Inverter Control AC/DC TIG Welding Machines

High-Performance Models for Producing High-Quality Welds on a Variety of Materials.



Various welding modes for various workpieces.

Various Welding Modes for High Quality Welding

Twin inverter control and adjustable AC output for welding a wide variety of aluminum workpieces.

 High AC output frequency produces a concentrated arc.

Ideal for welding hard aluminum (No.6000 and 7000 of JIS) and aluminum bronze.



(Aluminum No.7000 series)

Low AC output frequency makes it possible to weld a wide range of workpieces such as thin plates, thick plates and aluminum alloys. (Aluminum bronze)



AC standard TIG welding Allows you to weld a wide variety of materials from thin to thick plates.

Mix TIG welding

AC TIG welding

AC soft TIG welding Produces a soft arc with low noise.

AC hard TIG welding

Mix TIG welding

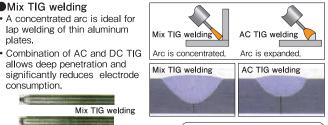
consumption.

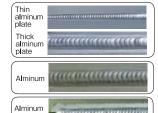
A concentrated arc is ideal for

lap welding of thin aluminum

allows deep penetration and

- Produces a concentrated arc.
- · Great for gap welding of thin plates.

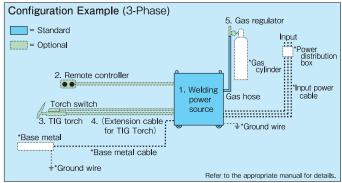


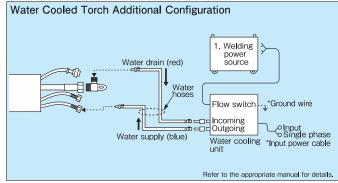


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Welding System Configuration

TIG





*Customer supplied items		*Customer supplied items			opropriate manual for details.
1. Welding Power Source	2. Remote Controller (optional)	3. Welding Torch (optional) *Common model names are described below.	4. Extension Cable (optional)	5. Gas Regulator (optional)	Other Items
YC-300BZ3 • 3m gas hose included. • Terminal adaptor for 0.3 m base metal cable included.	YC-30BPR1 (5 m)	● YT-30TS2TAG (4 m, air-cooled) ■ Selectable between No.9-10, 14, 15, 18, 19 of page 10	Selectable between 5, 10, 15 m	YX-251A	Optional water cooling unit YX-09KGC1 required to use water-cooled torches. (3 m water hose included.)
YC-200BL3YNA - 2.5 m input power cable included.	-	● YT-15TS2TAD (4 m, air-cooled)	_	YX-16AG1	_
YC-300BP4YUA • 3 m gas hose included. • Terminal adaptor for 0.3 m base metal cable included.	YC-30BPR1 (5 m) YC-30BPR4 (5 m, parameter recall)	YT-30TS2TAG (4 m, air-cooled) Selectable between No.9-10, 14, 15, 18, 19 of page 10	Selectable between 5, 10, 15 m	YX-251A	Optional water cooling unit YX-09KGC1 required to use water-cooled torches. (3 m water hose included.)
YC-315TX3 • 3m gas hose included.	_	_	_	_	_
YC-400TX3 • 3m gas hose included.	-	-	_	_	-
YC-200BL1HDK • 3m gas hose included. • Attached cable/ Torch switch adaptor inclued.	_	●YT-158T ●YT-208T	_	_	_
YC-300WX4 · 3 m gas hose included.	YC-301URTRK1 (5 m)	● YT-30TS2 (4 m, air-cooled) ■ Selectable between No.1-4, 6, 7, 11-13, 16, 17, 20, 21 of page 10	Selectable between 5, 10, 15 m	YX-251A	Optional water cooling unit YX-09KGC1 required to use water-cooled torches. (3 m water hose included.)
YC-500WX4Y0E • 3 m gas hose included.	YC-301URTRK1 (5 m)	● YT-50TSW2 (4 m, water-cooled) ■ Selectable between No.1-4, 6, 7, 11-13, 16, 17, 20, 21 of page 10	Selectable between 5, 10, 15 m	YX-251A	Optional water cooling unit YX-09KGC1 required to use water-cooled torches. (3 m water hose included.)
YC-300WY4 · 3 m gas hose included.	_	-	_	-	-
YC-200BR1YAA • 3 m gas hose included. • 3 m base metal cable included.	-	● YT-20TS2TAD (8m, air-cooled)	_	YX-16AG1	-
YC-300TSP	-	-	_	_	-
YC-500TSP · 3 m gas hose included.	YC-301URTRK1 (5 m)	● YT-50TSW2 (4 m, water-cooled) ■ YT-50TSW2 C1(8 m, water-cooled)	Selectable between 5, 10, 15 m	YX-251A	Optional water cooling unit YX-09KGC1 required to use water-cooled torches. (3 m water hose included.)
YC-150TM(Mini)	_	_	_	_	_
YC-300WP5	YC-304URW (4 m)	_	_	_	_

Specifications

1. Welding Power Sources

	Rated Input Voltage Phase	Rated	Οι	itput Cu	rrent Ad	justable	Range	(A)	Rated	Arc Spot	AC	MIX	Pulse	Dimensions				
Model		Phase	, ,	Phase		Input (kVA)	AC TIG			MIX	DC	DC	Duty Cycle	Time		Frequency		
	Rated Frequency	(kW)	Standard	Hard	Soft	TIG	TIG	Stick	(%)	(s)	(Hz)	(Hz)	(Hz)	(mm)	(kg)			
YC-300BZ3	380 V or 415 V 3-phase	10.5	_	_		_	4 to	4 to	40	0.1 to	_	_	0.8 to	380×510×410	35			
1 O-500B25	50/60 Hz	9.5					300	250	40	5			500	300/310/410				
YC-200BL3YNA	200 to 240 V 1-phase 50/60 Hz	7.8 5.1	_	_	ı	_	5 to 200	5 to 150	20	0.1 to 5	_	_	0.5 to 500	95×420×295	9			
YC-300BP4YUA	380 to 415 V 3-phase 50/60 Hz	11.6 9.7	10 to 300	20 to 300	10 to 200	10 to 300	4 to 300	4 to 250	40	0.1 to 5	30 to 400	0.1 to 20	0.1 to 500	375×523×634	64			
YC-315TX3	380 V or 415 V 3-phase 50/60 Hz	8.8 8.3	_	_	_	_	4 to 315	4 to 315	60	_	_	_	0.5 to 500	327×555×602	42			
YC-400TX3	380 V or 415 V 3-phase 50/60 Hz	14.5 12.4	_	_	-	_	4 to 400	4 to 400	60	_	_	_	0.5 to 500	327×555×602	43			
YC-200BL1HDK	220 V 1-phase 50/60 Hz	7.5 4.5	_	_	-	_	5 to 200	5 to 160	20	_	_	_	_	150×345×252	10			
YC-300WX4	380 V or 415 V 3-phase 50/60 Hz	12.0 10.5	10 to 300	20 to 300	10 to 200	10 to 300	4 to 300	4 to 250	40	_	_	0.5 to 10	0.5 to 500	380×530×730	74			
YC-500WX4Y0E	380 V 3-phase 50/60 Hz	24.0 19.5	20 to 500	40 to 500	20 to 330	20 to 500	5 to 500	50 to 400	60	_	_	0.5 to 10	0.5 to 500	440×585×945	118			
YC-300WY4	380 V or 415 V 3-phase 50/60 Hz	10.5 9.0	10 to 300	20 to 300	10 to 200	10 to 300	4 to 300	4 to 250	40	_	_	0.5 to 10	0.5 to 500	380×530×730	74			
YC-200BR1YAA	200 V 1-phase 50/60 Hz	7.3 5.4	10 to 200	_	ı	_	4 to 200	_	25	_	_	_	0 to 500	212×448×333	15			
YC-300TSP	380 V or 415 V 3-phase 50/60 Hz	16.1 13.5	_	_	-	_	5 to 300	5 to 300	40	0.5 to 5	_	_	0.5 to 15	470×560×845	136			
YC-500TSP	380 V or 415 V 3-phase 50/60 Hz	33.2 30.7	_	_	_	_	5 to 500	5 to 500	60	0.5 to 5	_	_	0.5 to 15	500×650×1 020	225			
YC-150TM(Mini)	220 V or 380 V 1-phase 50/60 Hz	11.4 6.3	_	_	_	_	8 to 150	8 to 150	20	_	_	_	_	300×460×520	62			
YC-300WP5	220 V or 380 V or 415 V 1-phase 50/60 Hz	26.0 17.0	20 to 315	_	_	_	5 to 315	5 to 315	40	0.5 to 5	_	_	0.5 to 10	465×617×846	193			

2. Remote Controllers Eliminate the need to return to the power source to adjust welding current or voltage.

■YC-301URTRK1

- For use with WX4
- 5 m 6 core cable



YC-30BPR1

- For use with BZ3 and BP4
- 5 m 12 core cable
- Pulse current adjustment

YC-30BPR4

- For use with BP4
- Recall of welding parameters
- 5 m 12 core cable
- Pulse current adjustment



5. Argon Gas Regulator

●YX-251A

Provides accurate regulation of shielding gas for quality welding.



4. Extension Cables for Welding Torches (Build-to-Order)

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Torch	Cable Length (m)	Cooling Method	Connector	Power Source
YT-20TS2TAG	4	Air-cooled	Dinse	300BP4/300BZ3
YT-20TS2TAH	8	Air-cooled	Dinse	300BP4/300BZ3
YT-30TS2TAG	4	Air-cooled	Dinse	300BP4/300BZ3
YT-30TS2TAH	8	Air-cooled	Dinse	300BP4/300BZ3
YT-30TS2	4	Air-cooled	Ring	
YT-30TS2C1	8	Air-cooled	Ring	
YT-30TSW2TAG	4	Water-cooled	Dinse	300BP4/300BZ3
YT-30TSW2THA	8	Water-cooled	Dinse	300BP4/300BZ3
YT-30TSW2	4	Water-cooled	Ring	
YT-30TSW2C1	8	Water-cooled	Ring	
YT-50TSW2	4	Water-cooled	Ring	
YT-50TSW2C1	8	Water-cooled	Ring	

Note: A terminal block adapter (CWC00180) and a control cable assembly (TWX00018) are required to connect a extension cable to 300BP4 or 300BZ3.

For Air-Cooled Torches

Model	Section Area(mm²)	Length(m)	
TWU20131		5	
TWU20132	38	10	
TWU20133		15	

For Water-Cooled Torches

TWU30132		5
TWU30133	38	10
TWU30134		15

For 500 A Water-Cooled Torches

1 01 300 A 1	vater-Cooled	10101163
TWU50137		5
TWU50138	60	10
TWU50139		15