

Standard Composition

General Name	Welbee Inverter T500P	
Welding power supply	WB-T500P	
Welding torch	Water-cooled	
	AW-12	
Welding torch an adapter	BBAWD-1201	
Power cable for base metal side(3m)	BKPDT-6003	
Gas hose	BKGFF-0603	

*When using Automatic machines or with the current near the rated output current, use a cable with 1 size higher thickness

Standard Specification

General Name		Welbee Inve	erter T500P
Welding Power Supply	Unit form	WB-T500P	
Rated output current A		DC TIG	DC Stick Welding
Rated output current	A	500	400
Rated input voltage	V	Specify Primary Vo	Itage when ordering
Phase		3 pł	nase
Rated frequency	Hz	50/	
Rated input	kVA	20.0(18.7kW)	18.4(17.2kW)
Rated usage rate	%	6	0
Max. no-load current	V	70/	
Rated load voltage	V	30	36
Output current range	Α	2 to 500	10 to 400
Pre Flow time	S	0 to	20
Post flow time	S	0 to	
Up slope time	S	0 to	
Down slope time	S	0 to 10	
Crater Filler Control		[ON][OFF][Repeat]change type	
Arc spot time	S	0.1 t	
Pulse frequency	Hz	0.1 to	
Pulse Width	%	50 (Possible to change	e function key 5 ~ 95)
MAX. Program Storage			00
Start Type			start/ Touch start
Outside dimension (WxDxH)	mm	395×71	10×640
Mass	kg	51	
Welding torch	Unit form	AW-12*1	AW-33*1
Rated current	A	500	
Cooling Method		Water colling	
Rated usage rate	%	100	
Applicable Electrode	mm	(1.0), (1.6), (2.4), 3.2 4.0, (4.8), (6.4)	(1.0), (1.6), (2.4), 3.2 (4.0), (4.8), (6.4)
Diameter ^{**2}			
Cable length	m	4,8	

Input power capacity and Cable Specifications			
Model name		type	WB-T500P
Phase			3 phase
Input Power Capacity		kVA	more than 31
	220V		125
Fuse/Breaker	380V		75
Capacity	400V A	<u></u>	
	460V	60V	60
	220V		more than 22
Input Side Cable	380V	mm ²	more than 14
Grouding Cable	400V	000	more than 8
-	460V		more than o
Power cable for base metal side		mm ²	60

Accessory (supplied

General Name	Welbee Inverter T500P	
Welding torch	AW-12	AW-33
Torch switch	1 (4m or 8m)	_
Cable Ties	2	-

Optional parts

Product name	Model
Analog remote control	K5023L00(ENG)/K5023M00(CHN)

	Product name	Model
	Digital remote control	E-2440
CAN Cable	BKCAN-0405(5m)	
	BKCAN-0410(10m)	
	BKCAN conversion connector	K5810B00

Torch an adapter

Product name	Model
AW-17	BBAWD-1701
AW-26	BBAWD-2601
AW-18	BBAWD-1801
AW-12	BBAWD-1201

orch cable length

Model	4m	11m	16m
AW(D)-17	BAWE-1504	BAWE-1511	BAWE-1516
AW(D)-26	BAWE-2004	BAWE-2011	BAWE-2016
AW(D)-18	BAWE-3004	BAWE-3011	BAWE-3016
AW-12	BAWE-5004	BAWE-5011	BAWE-5016
AW-33	BAWE-5004	BAWE-5011	BAWE-5016

mote control cable lengt

4m	11m	16m
BKCPJ-0404	BKCPJ-0411	BKCPJ-0416

*1 to connect the AW-12 and AW-33 is necessary adapter BBAWD-1201 *2 For use electrodes size inside the () are sold separately

In accorddance with DAIHEN's policy to make continuing improvements, design and/or specifications are subject to change without notice and without any obligation on the part of manufacturer.

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Large-capacity 500A current output achieves high-efficiency welding.

Increased low-current stability allows just one welding machine to support a wide current range for welding of thin to thick plates.

The "Welding Condition Setting Guide" function makes automatic setting of welding conditions.

The "Welding Control" function early detects welding errors.

Extensively applicable to welding of ultrathin plates to thick plates. This DC pulsed TIG welding machine achieves high-efficiency and -quality welding.

07.2016 CAT. NO. B421601





DC Pulsed TIG Welding Machine

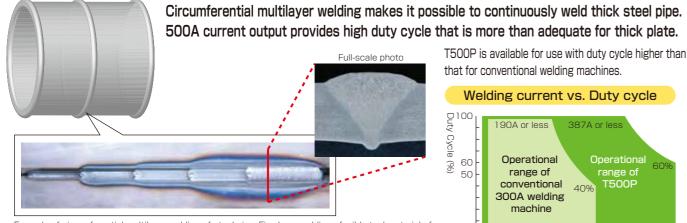


500

Achieves high quality welding under ideal welding conditions, including a variety of different plate thickness, joints, and materials.

Large-capacity 500A current output achieves high-efficiency welding.

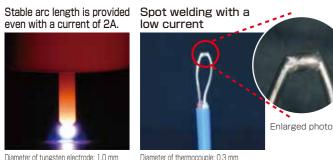
Large-capacity 500A current output achieves continuous thick-plate welding and high-speed thin-plate welding for a wide range of capabilities. This significantly contributes to enhancing the efficiency of the welding process.



Example of circumferential multilayer welding of steel pipe: Five-layer welding of mild steel material of 12 mm in thickness by butt welding (Y-groove welding) Welding current: 1st layer 300A, 2nd 300A 3rd 280A

Increased low-current stability allows just one welding machine to support a wide current region for welding of thin to thick plates.

The T500P allows welding at a minimum of **2A**.



Nelding condition: Welding current set to 2A Welding condition: Welding current set to 2A

The setting range of pulse frequency is extended up to 999 Hz, leading to further improvement of arc stability at a low current.

100

T500P Co

200

entional machine

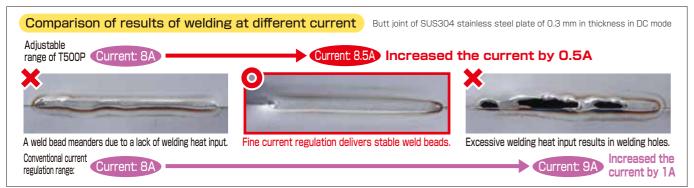
300 400 500

Welding Current (A)



SUS304 stainless steel plate of 0.3 mm in thickness by butt joint, Welding conditions: Base current set to 24 Pulse current set to 10A, and Pulse frequency set to 999 Hz

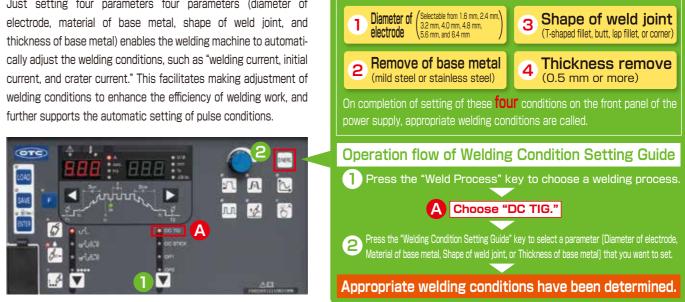
Current setting can be made in increments of 0.1A in the current region of 10A or less, thus making it possible to set ideal welding conditions to ultrathin plates.



The "Welding Condition Setting Guide" function makes automatic setting of welding conditions.

A variety of basic settings can be called by pressing the "Welding Condition Setting Guide" key before welding.

Just setting four parameters four parameters (diameter of



The "Welding Control" function early detects welding errors early.

This function monitors various control items while welding is in progress to transmit an alarm as soon as any welding error occurs, thus contributing to welding quality control.

The function checks 16 control items to reduce the workload of welding workers.



DINSE connector is used for output pin.

- Eliminate this redundancy. Eliminates the need for a tool to be used to connect torch power cable and base metal cable.
- Eliminate this redundancy. Reduces time to replace the torch, thus increasing the work efficiency.
- Eliminate this redundancy. Facilitates mounting a torch for conventiona welding machine by using a conversion adapter

Major Welding Control Items			
wide variety of control data is displayed.			
Intended Use	Control Item	Welding control data	
		Setting of average value monitoring range (current/voltage)	
		Setting of permissible error range of current on the positive side (%)	
Varning of		Setting of permissible error range of current on the positive side (%)	
velding error	Welding quality	Upper limit value of welding voltage (V)	
arly detection of		Lower limit value of welding voltage (V)	
velding fault		Error determining time (s)	
		Setting of operation to be performed when an error	
		in the welding conditions is detected	
lanagement of		Result of control of total welding time (min.)	
lanagement of	Welding	Target value (min.)	
vorking time	quality	Operation to be performed when the target value is attained	
Prevention of	Number of	Result of control of the number of welding points (number of times)	
	welding	Target value (number of times)	
orgetting welding	points	Operation to be performed when the target value is attained	

