



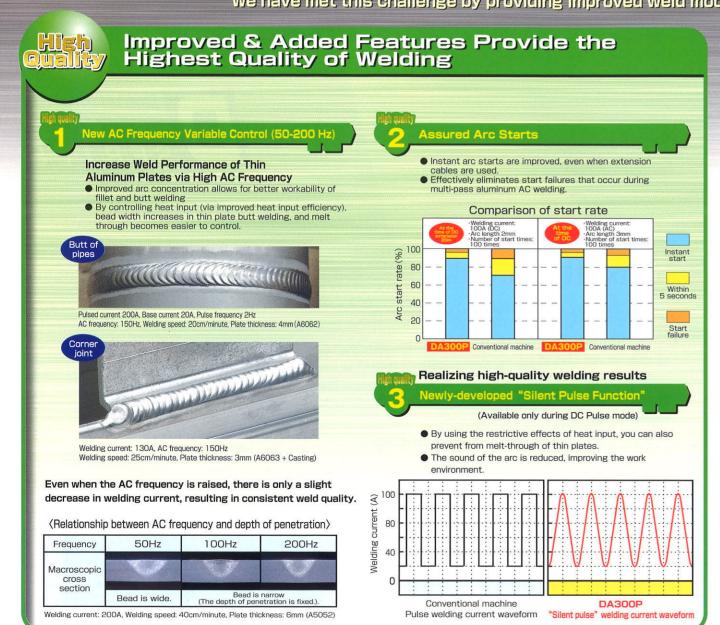
AC+DC Hybrid Pulse TIG Welding Machine Redefining the meanings of "High Quality" and "Ease of Use"

- Easily regulate current via hand torch switch
- Improve quality at every welding place through a wide variety of welding modes
- Improve welding performance of thin plates with silent pulse function
- Improved arc concentration allows for better workability of fillet and butt welding



Redefining the meanings of "High Quality" and "Ease of Use" DA 300P

The DA300P was designed to meet our users requests for high quality results and ease of use. We have met this challenge by providing improved weld modes, weldtime current control, and crater-time oxidation prevention.



User-friendly Touch Panel Provides Improved Operability & Feedback

One Key - One Operation Touch Panels and Lage LED Panels Provide Improved Operability & Visibility

Recordable Welding Conditions for Optimal Reproduction (Stores up to 100 Conditions)

The DA300P is capable of storing up to 100 different welding conditions.

Optimized AC Waveform Modes for High-Quality Aluminum

AC Waveform Modes and Feature Examples

Basic welding waveform AC-DC hybrid TIG		Appearance of bead	Welding speed	Arc sound	Thin plate butt joint corner	Thin plate fillet welding	Thick plate	Use of filler rod	Penetration	Electrode consumption
		0	0	0	Δ	0	0	Δ	0	0
AC rectangular wave	Standard	0	0	0	0	0	0	0	0	0
	Hard	0	0	Δ	0	0	Δ	0	0	0
AC sine wave	Soft	0	0	0	0	Δ	Δ	0	Δ	0
AC frequency	High	0	0	Δ	0	0	Δ	0	0	0
	Low	0	0	0	0	0	0	0	0	0



Large LED Display

Monitors current during weld and displays average oupu current after welding ends. Also displays program number and error codes

Plentiful Welding Functions

Start Method Selection

In addtion to high frequency starts, touch start is also included as a standard

Four Types of Welding Processes (Standard) Corresponds to various kinds

Analog remote control Part number : K5048800

Digital remote control Type: E-2452

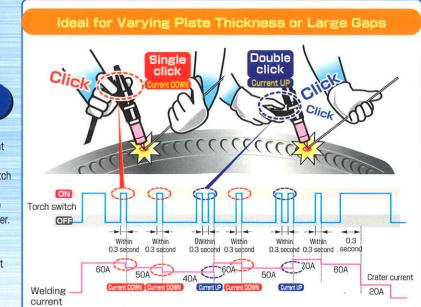
I Want to Regulate the Current During Welding!



Weld Current Regulating **Function via Torch Switch**

The DA300P comes with a newly-developed weld current regulating function that allows the user to change the ouput weld current during mid-weld. By clicking on a switch on the torch, the user can increase or decrease weld output, allowing for optimal welding conditions. The step amount of current change is arbitrarily defined by the user.

This feature provides optimal control for more delicate metals, such as Aluminum, which typically requires slight current regulation.

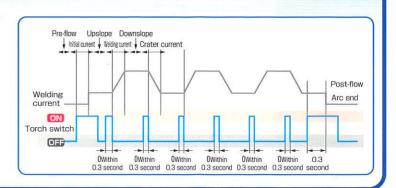


I Want to Prevent the Oxidation of Craters!



Crater (Repeat) Function

It is now possible to send the command for the Crater (Repeat) Function at the end of the weld via the torch switch. This helps prevent from exidation at the crater and on the Tungsten electrode which created problems in conventional methods



Unique, User-Friendly Design

Advanced Double Operation System

OTC's unique control allows for system operation via both the machine panel and remote controls. Both analog and digital remote controls are offered as an option. In addition to the conventional analog remote control, OTC now

offers a fully digital remote control for full weld condition control.



machines life.

Dust-Proof Filters

OTC standard TIG torches now

utilize DINSE connectors, thereby

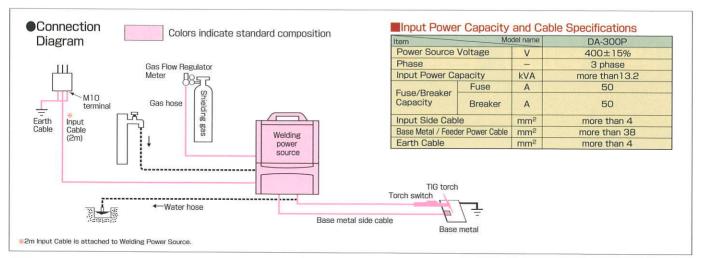
making torch switching a breeze.

Conventional torces may also be

attached with dedicated adapters

Eliminates harmful dust and grime from entering the body of the DA300P, which helps prolong the

Simplified Connections of Dedicated Torch



Standard Specifications

General N			DA300P						
Welding Power Scr	SOCIONA SERVICIO	Type		DA-300P					
Phase		7,60	3 phase						
Rated Input Vol	tage	V	400±15%						
AC TIG			12.5 (9.4kW)						
Rated Input	DC TIG	kVA	11.9 (8.9kW)						
	DC STICK		13.2(10.0kW)						
Rated Duty Cycle		%							
Max. No-load Vo		V		40 58					
	AC TIG		22						
Rated Load	DC TIG	V	22						
Voltage	DC STICK		30						
Range of Output	DC TIG		4~300						
Current (DC)	DC STICK	A	10~250						
Range of Output Current (AC)	Hard		10~300						
	Standard	A	10~300						
	Soft		10~200						
AC+DC Hybrid	Hard		10~300						
Output Current	Standard	A	10~300						
	Soft		10~200						
Initial/Crater Filler Current	Hard		10~300						
	Standard	A	10~300						
	Soft	A	10~200						
	D C		4~300						
Gas Pre-Flow		Sec.	0.1~20						
Gas Post Flow		Sec.	0.1~30						
Up-slope		Sec.	0.1~10						
Down-slope		Sec.	0.1~10						
Pulse Frequenc	У	Hz	0.1~500						
Pulse Width		%	50 (Possible to change functionkey $5\sim95\%$)						
AC Frequency		Hz	50~200						
AC Balance			-20~20 (Percenta	-20~20 (Percentage of positive electrode period, 5~50%)					
AC+DC Switching Fre		Hz	8 <u>1</u> 40 (20) 10 20	0.1~50					
Crater Filler Cor	itrol		[on] [off] [Repeat] change type						
Arc Spot		Sec.		0.1~10					
Max. Program S			100						
External Dimensions (V	VXUXH)	mm	250×640×544 (Except handle)						
Weight		kg	44						
Start Type		-		quency start/Tou					
Welding Torch		Type	AWD-17	AWD-26	AWD-18				
Rated Current Rated Duty Cycle		A	150(DC), 130(AC)		300 (DC),260 (AC)				
Cooling Method	16	%	50	50	100				
Applicable Electrode	Diamotor	mm	Air cooling	Air cooling	Water cooling				
Cable Length	Diameter	mm	(05),(1,0),1,6,(2,0),(2,4)*1 (0,5), (1,0), (1,6), (2,0),2,4, (3,2), (4,0)*2						
Capie religiti		m		4, 8					

*1.Option is necessary to use Tungsten electrode except for 1.6. *2.Option is necessary to use Tungsten electrode except for 2.4.

Option ■ Remote control Convenient for operating away from power source. Analog remote control Part number Analog remote control K5048B00 Analog remote control Digital remote control (Need the following 3-piece set) Part number E-2452 Control cable (10m) BKCAN-0410 (20m) BKCAN-0420 CAN Communication Boad K5422B00 Torch adapter Necessary to connect a conventional torch to the welding power source. Digital remote control Part number For air-cooled AW-17 BBAWD-1701 BBAWD-2601 For air-cooled AW-26 For water-cooled AW-18 BBAWD-1801 Torch extension cable The conventional extension cable can be used for both AW and AWD model torches, however, the AW requires the above mentioned Torch Adapter. For 4m Type For 11m Air-cooled AW(D)-17 Air-cooled AW(D)-26 BAWE-1504 BAWE-2004 BAWE-1511 BAWE-1516 BAWE-2011 BAWE-2016 Water-cooled AW (D)-18 BAWE-3004 BAWE-3011 Extension remote control cable For 11m BKCPJ-0404 BKCPJ-0411

Welding torch



In accordance 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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