





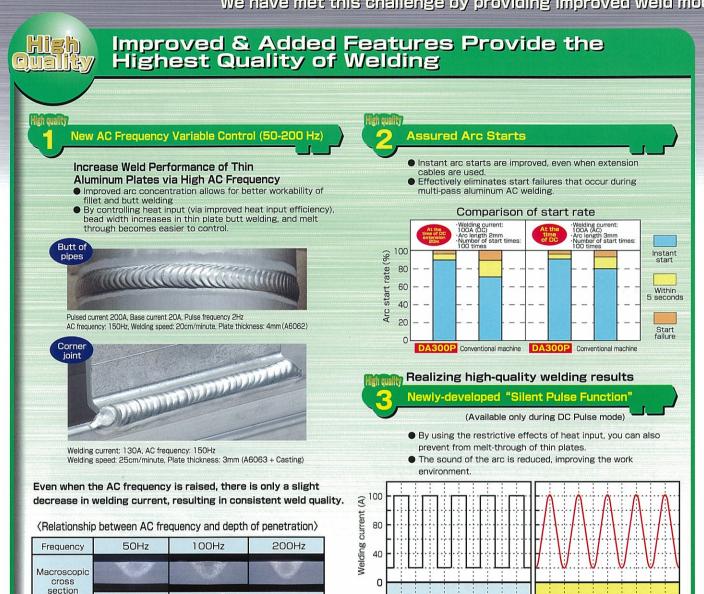
AC+DC Hybrid Pulse TIG Welding Machine Redefining the meanings of "High Quality" and "Ease of Use"

- 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 for optimizing reproduction of welding conditions. Custom tailor your own welding conditions to meet your needs.

Welding current: 200A, Welding speed: 40cm/minute, Plate thickness: 6mm (A5052)

Bead is wide.

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



Conventional machine

Pulse welding current waveform

Large LED Display

DA300P

"Silent pulse" welding current waveform

Monitors current during weld and displays average ouput current after welding ends. Also displays program

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: K5048B00

Digital remote control Type: E-2452

I Want to Regulate the Current During Welding!

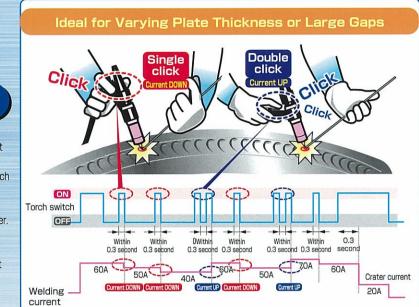
User Request

Weld Current Regulating **Function via Torch Switch**

Ease of use

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.

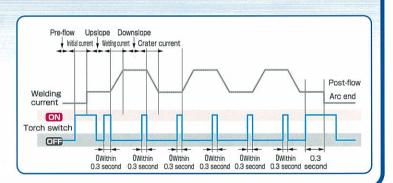


I Want to Prevent the Oxidation of Craters!

User Request

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 oxidation 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.



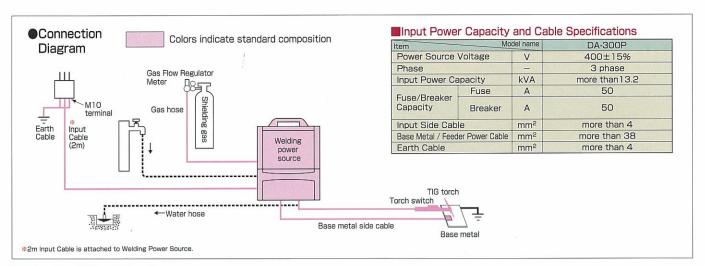
Simplifed Connections of Dedicated Torch

OTC standard TIG torches now utilize DINSE connectors, thereby making torch switching a breeze. Conventional torces may also be attached with dedicated adapters.



Dust-Proof Filters

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



Standard Specifications

General N			DA300P				
Welding Power Sc		Type	DA-300P				
Phase			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 Cyc	le	%	40				
Max. No-load Vo	oltage	V	5	8			
Rated Load Voltage	AC TIG	V	22				
	DC TIG		22				
	DC STICK		30				
Range of Output Current (DC)	DC TIG	1	4~300				
	DC STICK	A	10~250				
Range of Output Current (AC)	Hard	77633	10~300				
	Standard	A	10~300				
	Soft		10~200				
AC+DC Hybrid Output Current	Hard	Mari	10~300				
	Standard	A	10~300				
	Soft		10~200				
	Hard	Colors	10~300				
Initial/Crater	Standard		10~300				
Filler Current	Soft	A	10~200				
	D C		4~300				
Gas Pre-Flow	Park Land	Sec.	0.1~20				
Gas Post Flow	i de la	Sec.	0.1~30				
Up-slope		Sec.	0.1~10				
Down-slope		Sec.	0.1	~10			
Pulse Frequenc	y	Hz	0.1~500				
Pulse Width		%	50 (Possible to change functionkey 5~95%)				
AC Frequency		Hz		-200			
AC Balance		To the	$-20{\sim}20$ (Percentage of positive electrode period, $5{\sim}509$				
AC+DC Switching Fr	equency	Hz	0.1~50				
Crater Filler Cor	ntrol		[on] [off] [Repeat] change type				
Arc Spot		Sec.		~10			
Max. Program 9	Storage			00			
External Dimensions (W x D x H)	mm	250×640×544 (Except handle)				
Weight		kg	44				
Start Type			High frequency s	start/Touch start			
Welding Torch		Type	AWD-26	AWD-18			
Rated Current		Α	200(DC),160(AC)	300 (DC), 260 (AC)			
Rated Duty Cyc		%	50	100			
Cooling Method			Air cooling	Water cooling			
Applicable Electrode	Diameter	mm	(0.5), (1.0), (1.6), (2.0), 2.4, (3.2), (4.0) *				
Cable Length		m	4, 8				

^{*}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 Digital remote control Control cable (10m) BKCAN-0410 (20m) BKCAN-0420 K5422B00 Torch adapter Necessary to connect a conventional torch to the welding power source. Digital remote control Part number BBAWD-2601 BBAWD-1701 For air-cooled AW-26 For air-cooled AW-17 BBAWD-1801 For water-cooled AW-18 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. Type For 4m For 11m BAWH-2004 BAWH-1504 BAWH-2011 BAWH-1511 BAWH-2016 BAWH-1516 Air-cooled AW(D)-26 Air-cooled AW(D)-17 Water-cooed AW (D) -18 BAWS-3004 BAWS-3011 BAWS-3016



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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