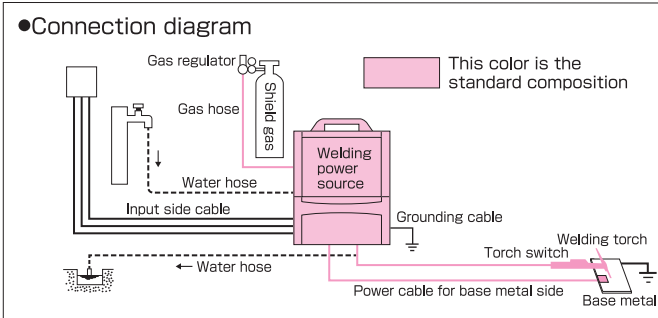




●Standard composition

General name		DIGITAL ARGO DT300PⅢ		
Welding power source		DT-303P		
Welding torch	Air-cooled	Air-cooled	Water-cooled	
	AWD-17	AWD-26	AWD-18	
Gas hose		BKPDТ-3803		
Power cable for base metal side		BKGFF-0603		
Water hose	City water	—	—	BBDW-3001
	Water cooler	—	—	BBPU-3002

●Standard Specifications

General name		DIGITAL ARGO DT300PⅢ		
●Welding power source	Model	DT-303P		
Rated input voltage	V	200/220V (50/60Hz common)		
Phase		Three-phase	Single-phase	
Rated input	kVA	TIG:11.0 (7.9kW) STICK:11.8 (8.6kW)	TIG:9.1 (5.7kW) STICK:9.1 (5.7kW)	
Rated duty cycle	%	40		
Rated output current range	A	TIG:4~300, STICK:10~250	TIG:4~250, STICK:10~180	
Rated load voltage	V	TIG:22, STICK:30	TIG:20, STICK:27.2	
Maximum no-load voltage	V	63/69		
Initial and crater filler current	A	4~300	4~250	
Pulse Current	A	4~300	4~250	
Base current	A	4~300	4~250	
Pre-flow time	sec	0~99		
Post-flow time	sec	0~99		
Up-slope time	sec	0~10		
Down-slope time	sec	0~10		
Pulse frequency	Hz	0.1~1000		
Pulse width	%	50 (Changeable with function keys 5~95)		
Crater-fill control		OFF/ON/ON (repeat)		
Arc spot	sec	0.1~10		
Number of welding condition memory		100		
External dimensions(WXD×H)	mm	250×560×384 (w/o handle)		
Mass	kg	23		
Start Method		High frequency start/Touch start		
●Welding torch	Model	AWD-17	AWD-26	AWD-18
Rated current	A	150 (DC)	200 (DC)	350 (DC)
Rated duty cycle	%	50		100
Cooling method		Air-cooled		Water-cooled
※ Electrode Diameter	mm	(0.5), (1.0), 1.6 (2.0), (2.4)	(0.5), (1.0), (1.6), (2.0) 2.4, (3.2), (4.0)	(0.5), (1.0), (1.6), (2.0) (2.4), 3.2, (4.0)
Cable length	m	4 or 8		

※ When using the tungsten electrode of the size in parentheses (), an optional product is required.

●Welding torch



※ For other torch combinations, please contact your local distributor or our company.

■Power supply equipment capacity and connecting cables

Items		Model	DT-303P	
Supply voltage		V	200/220±10%	
Phase		—	Three-phase	Single-phase
Installed capacity		kVA	11.8 or more	9.1 or more
Protective device	Switch with fuse	A	50	50
	leakage breaker No-fuse breaker	A	50	50
※ 1 Input side cable	mm ²	8 or more (M6)		
Power cable for base metal side	mm ²	38 or more		
※ 1 Grounding cable	—	Equivalent to or better than input side cable (M6)		

※ 1 Figures in parentheses () are the crimp terminal size on the welding machine side.

●Standard Accessories

General name		DIGITAL ARGO DT300PⅢ		
●Welding power source		DT-303P		
Cable plug		1		
●Welding torch		AWD-17	AWD-26	AWD-18
Torch switch		1 (4/8m)	1 (4/8m)	1 (4/8m)
Bundling bands		2	2	2

(Sold separately) Please use with the set.

■Cooling water circulation device

		Model	PU-701
		Rated input voltage	Single-phase 200V±10% (50/60Hz common)
		Rated input	0.25kVA(50Hz), 0.33kVA(60Hz)
※ No mounting bracket with power supply		Discharge rate	11ℓ/min(50Hz), 13ℓ/min(60Hz)
		Discharge pressure	0.43MPa(50Hz), 0.53MPa(60Hz)
		Cooling capability	1.20kW(50/60Hz)
		lifting height	20m
		Rated duty cycle	Continuous(100%)
		Tank capacity	6ℓ
		External dimensions(W×D×H)	352×530×350mm
		Mass	18kg(w/o cooling water)

■Remote control

Convenient for work at a distance from the welding power source.

●Analog Remote Control

Product name	Part No.
Analog Remote Control(4m)	K5023L00

●Digital remote control (The following three items are required as a set)

Product name	Model
Digital remote control	E-2452
CAN communication cable	BKCAN-0405(5m), BKCAN-0410(10m)
CAN communication module	K5422C00

■Torch adapter

When used with one of the torches on the table below, the corresponding adapter is necessary.

Torch type	Model
Air-cooled AW(D)-17	BBAWD-1701
Air-cooled AW(D)-26	BBAWD-2601
Water-cooled AW(D)-18	BBAWD-1801
Air-cooled AW-4, 5, 9	BBAWD-1701+P1600N02

■Extension cables, hoses, etc. (for torch)

Model	4m	11m	16m
Air-cooled AW(D)-17	BAWE-1504	BAWE-1511	BAWE-1516
Air-cooled AW(D)-26	BAWE-2004	BAWE-2011	BAWE-2016
Water-cooled AW(D)-18	BAWE-3004	BAWE-3011	BAWE-3016

■Extension cable (remote control)

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

■Wheel kit Part No.K5416B00

Convenient when the welding power supply is moved frequently. Standard is rubber feet.



DC TIG Welding power source

DIGITAL ARGO DT300PⅢ



Small size, many functions

- New functions to reproduce skilled techniques
- User-friendly design
- Welding conditions can be set automatically with the "Welding Setting Guide" function.

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Environmentally friendly items, such as "Vegetable oil ink" and "FSCTM certification paper" , are used for creation of this catalogue.

New

DIGITAL ARGO DT300P III

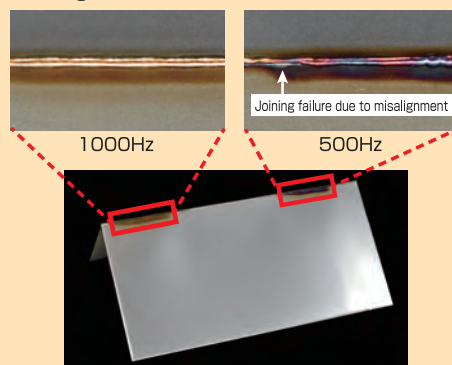
New functions to reproduce skilled techniques

Pulse frequency setting range expanded to 1000Hz!

The maximum pulse frequency has been expanded to 1000Hz (twice as much as before), improving arc concentration! Can be used for a wide range of applications from thin to medium-thick plates.

High-speed pulses (up to 1000Hz)

Arc directivity can be maintained even in the low current range. At 1000 Hz, the arc directivity is even higher, and the weld is more easily aimed, resulting in better bead alignment and less weld scale.

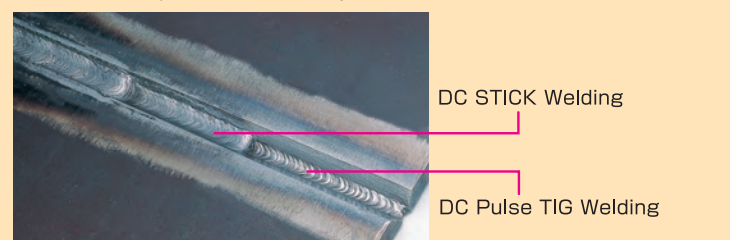


SUS304, Thickness 0.3mm Corner joint welding, Welding current 7A

Low-speed pulse (up to 20Hz)

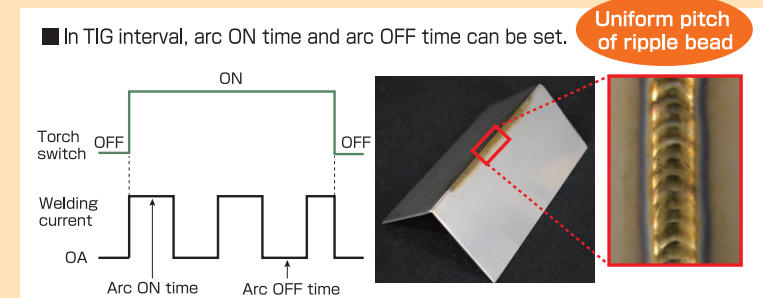
Heat input can be controlled, resulting in uniform back bead and beautiful bead appearance. Furthermore, joints with different plate thicknesses or gaps can be easily welded.

Back bead welding of the first layer, which is prone to weld defects, is performed with low-speed pulse TIG, and from the second layer, switching to DC STICK welding, which is standard equipment, contributes to improved work efficiency.



TIG interval function

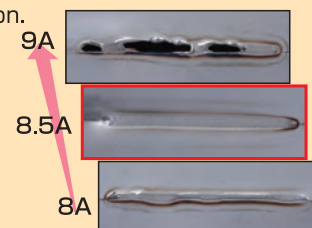
This function repeats ON/OFF of arc to control heat input in DC TIG mode. Simple operation ensures welding without thermal strain or burn through regardless of skill level.



※Since arc turns ON/OFF repeatedly, high-frequency voltage is applied frequently. Lift start cannot be used when this function is enabled.

Adjustable current in 0.1A increments

Precise current setting in 0.1A increments is possible in the current range of 10A or less. The optimum range of welding speed is widened, making it easier to perform the welding operation, thereby contributing to quality improvement of thin plate welding, which is prone to burn thorough and lack of fusion.



Newly designed simple operation panel

A simple design is adopted, with only the most frequently used controls grouped together. Detailed condition settings can be made by opening the panel cover.



Normal use

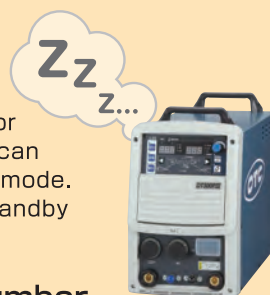
Detailed condition setting

Sleep mode

When the welding power source is not operated for a fixed period of time, it can be turned into the sleep mode. This function reduces standby power consumption.

Increase in the number of welding condition memory

The number of welding condition memory is increased from 30 to 100, contributing to improved work efficiency.

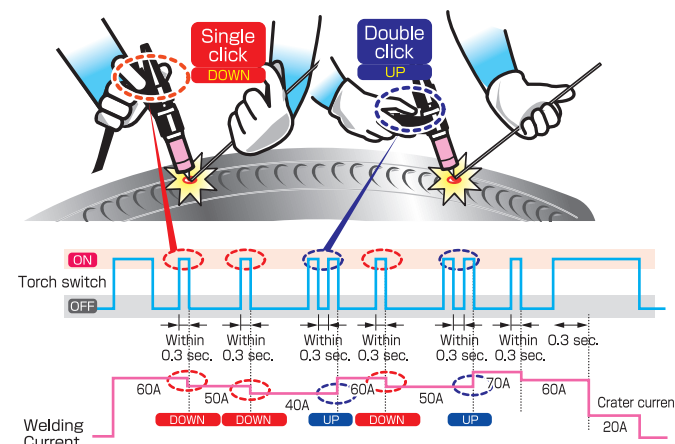


User-friendly design

Welding operations just got easier!

Adjusting current with torch switch

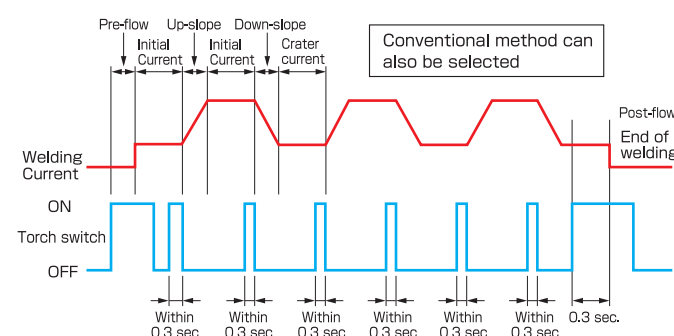
The welding current can be increased or decreased by a preset amount by operating the torch switch. Easy to operate, the current can be adjusted as desired.



Welding quality is further improved!

CRATER-FILL ON (repeat)

During CRATER-FILL ON (repeat), welding can be stopped by pressing and holding the torch switch. This function prevents oxidation of the crater and tungsten electrode, which had been a problem with the method of pulling up the torch to extinguish the arc at the end of welding.



Lightweighting

The new model is approximately half the mass and volume of the conventional inverter models, realizing a significant reduction in size and weight. Reduces the load during transportation.

Significantly smaller and lighter



Space saving

Storage space is reduced to 1/3!

The optional stacking kit (QK0099) makes it possible to stack up to three tiers. The storage space is reduced to 1/3, and the product will not be in the way when not in use.

※When stacking welding power sources, it is necessary to use a stacking unit under the welding source on the bottom tier.



Expandability

Terminal blocks for connecting external devices are provided for easy connection.

Easy connection to automatic machines and robots

Durability

In addition to a dust-proof filter, a tunnel structure is employed to prevent cooling air from hitting precision electronic equipment, achieving both high durability and high maintainability.

Adoption of dustproof and drip-proof structure

"Welding Setting Guide" helps you set welding conditions



By simply setting four conditions, welding conditions such as welding current, initial current, and crater current are automatically adjusted.

Operation Flow of Welding Setup Guide

