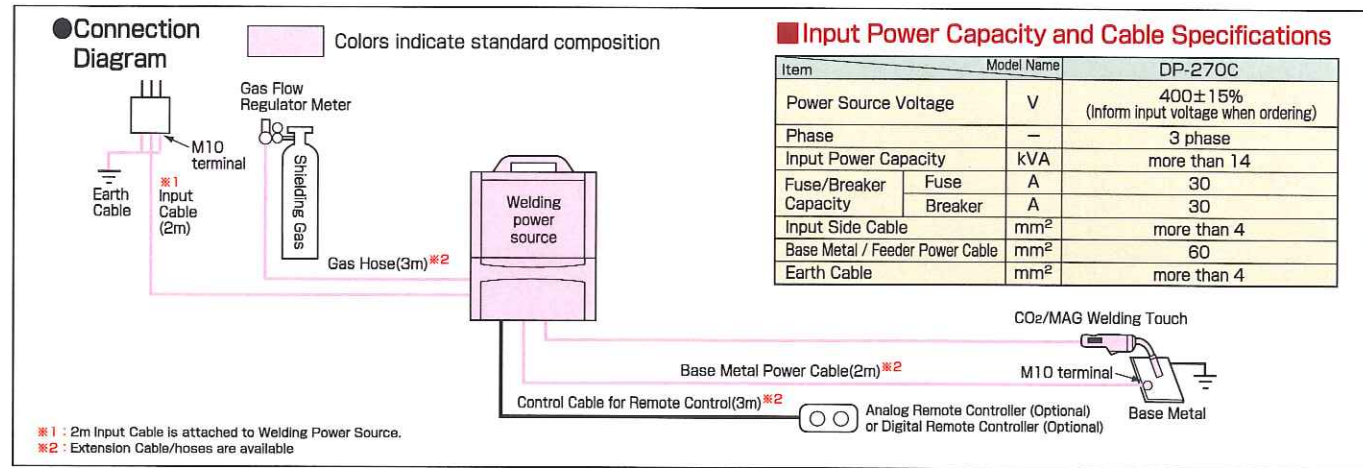


ISO 9001 Registered



DP270C

Pulsed MAG/MIG CO₂/MAG Automatic G.M.A.W. Welding Machine



Input Power Capacity and Cable Specifications

Item	Model Name	DP-270C
Power Source Voltage	V	400 ± 15% (Inform input voltage when ordering)
Phase	-	3 phase
Input Power Capacity	kVA	more than 14
Fuse/Breaker Capacity	Fuse Breaker	A A
		30 30
Input Side Cable	mm ²	more than 4
Base Metal / Feeder Power Cable	mm ²	60
Earth Cable	mm ²	more than 4

Standard Composition and Specifications

Welding Power Source

Specifications	Model	type	Digital Pulse DP270C
Number of phase			3 phase
Rated frequency	Hz		50 / 60
Rated input voltage	V		400
Input voltage range	V		400 ± 15%
Rated input power	kVA		13.6 (12.1kW)
Rated input current	A		20
Rated output current	A		270
Rated load voltage	V		27.5
Rated output current range	A		30~300
Rated output voltage range	V		12~30
Maximum no-load voltage	V		81
Rated duty cycle	%		40
Number of welding condition			100
Temperature rise	°C		+160 (+320°F)
Usable temperature range	°C		-10 ~ +40 (+14 ~ +104°F)
Usable moisture range	%		20~80 (without dew condensation)
Storage temperature range	°C		-10 ~ +60 (+14 ~ +140°F)
Storage moisture range	%		20~80 (without dew condensation)
External dimensions(W x D x H)	mm		300 x 653 x 664
Mass	kg		51

The welding power source complies with the requirements of IEC60974-1

Accessory

Description	Specification	Q'ty	Remarks
Dust filter	109-1000M3	1	For the fan on the rear side of welding power source

CO₂/MAG Welding Torch

CO ₂ /MAG Welding Torch	type	WT3510-SD
Rated Current	A	350
Applicable Wire Size	mm	(0.9, 1.0), 1.2, (1.4)
Duty Cycle	%	60
Cooling Method		Air-Cooled
Cable Length	m	3, (4.5), (6)

Aluminum MIG Welding Torch

Aluminum MIG Welding Torch	type	WTA300-SD
Rated Current	A	300
Applicable Wire Size	mm	(1.0), 1.2
Duty Cycle	%	DC:50 Pulse:30
Cooling Method		Air-Cooled
Cable Length	m	3

Gas Hose

Gas Hose	DP270C
Standard	BKGGFF-0603 (3m)
Extention	BKGG-0605 (5m), BKGG-0610 (10m) BKGG-0615 (15m), BKGG-0620 (20m)

Base Metal Power Cable

Base Metal Power Cable	DP270C
Standard Cable	Choose cable from the following. BKPDT-6002 (2m) BKPDT-6007 (5m) BKPDT-6012 (10m)

D-series Welding Mode Table

Model	Status	Article#	Status						
			0.8	0.9	1.0	1.2	1.6		
DP270C	Standard		CO ₂ Steel Solid	○	○	○	○		
			CO ₂ Steel Cored			○	○		
			CO ₂ SUS Cored			○	○		
			DC 80/20 CO ₂ Steel Solid	○	○	○	○		
			DC 80/20 CO ₂ Steel Cored				○		
			DC 80/20 CO ₂ SUS Cored				○		
			DC 90/10 CO ₂ Steel Solid	○					
			DC 97.5/2.5 CO ₂ SUS	○					
			DC 98/2 O ₂ SUS Solid	○	○	○	○		
			DC Brazing CuSi	○	○	○	○		
			DC Brazing CuAl	○		○	○		
			DC AL/Soft					○	
			DC AL/Hard					○	
			DC Stick Welding					○	
			DC TIG Welding					○	
			DC Pulse 80/20 CO ₂ Steel Solid			○	○	○	
			DC Pulse 80/20 CO ₂ Steel Cored					○	
			DC Pulse 80/20 CO ₂ SUS Cored					○	
			DC Pulse 90/10 CO ₂ Steel Solid	○				○	
			DC Pulse 97.5/2.5 CO ₂ SUS Solid	○				○	
DC Pulse 98/2 O ₂ SUS Solid	○	○	○	○	○				
DC Pulse 100 Ar SUS Solid Normal	○	○	○	○	○				
DC Pulse 100 Ar SUS Solid Soft	○	○	○	○	○				
DC Pulse Br CuSi	○	○	○	○					
DC Pulse Br CuAl	○		○	○					
DC Pulse AL/Soft					○				
DC Pulse AL/Hard					○				
DC Wave Pulse AL/Soft					○				
DC Wave Pulse AL/Hard					○				
DC Pulse Inconel			○	○	○				
DC Pulse Titanium			○	○	○				

Optional

Remote Control Box



Analog Remote Controller

Analog Remote Controller

Name	Part numbers
Analog Remote Controller (3m Cable is attached)	K5416H00
Exention Cable	BKCPJ-0605 (5m)
	BKCPJ-0610 (10m)

Digital Remote Controller



Digital Remote Controller

Digital Remote Controller

Name	Part numbers
Digital Remote Controller	E-2454
Control Cable	BKCAN-0410 (10m)
	BKCAN-0420 (20m)
CAN Communication Board	K5422C00

Wheel Kit

Part numbers : K5416L00
This is convenient for the works, in which the power source is moved frequently. The rubber feet are attached originally.

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.

DAIHEN Corporation

4-1, Koyochonishi, Higashinada-ku, Kobe, Hyogo 658-0033, Japan
Phone: (Country Code 81) 78-275-2006
Fax: (Country Code 81) 78-845-8159

Distributed by :



Number One In OTC's Line Up Of "D" Series Welding Machines, Offering Both High Quality DC Pulsed MAG/MIG and CO₂/MAG/MIG Welding

- Incredible Arc Stability at Very Low Current Ranges
- Incredible Arc Stability at Very High Welding Speeds
- Incredible Quality Welding Achievable on Galvanized Steel
- Optional Software Modes Available to Achieve High Quality Welding on Materials Such as Magnesium and Titanium
- Instantaneous Arc Start By Capacitor Discharge Method
- Four-Roll Encoder Wire Feeder As Standard Equipment



DAIHEN Corporation



The First-class Machine of D series, Pursuing High-quality Welding ··· DP270C

Single welding power source provides optimum arc performance in both Pulse and Non-Pulse on all materials, such as steel, stainless steel, and aluminum.

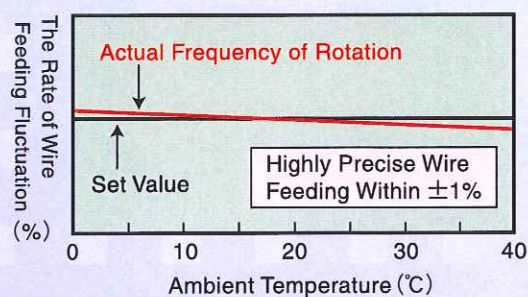


Welding Power Supply Provides Four Welding Processes

Built in 4 roll encoder wire feeder

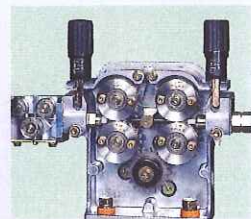
Encoder Feedback Type with Adjustable Inertia Control

Highly precise wire feeding is not influenced by ambient temperature or extension cables, contributes to the stabilization of welding quality.

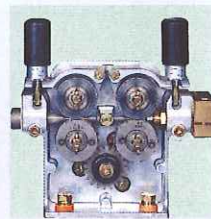


Four-Roll Feeder is Standard. Wire Feeding Ability 1.5 Times Greater than Two-Roll Wire Feeder.

The powerful Four-Roll Wire Feeding allows greater welding torch flexibility.



For Aluminum Four-wheel drive type New wire feeder comes equipped with wire straightener as standard equipment.

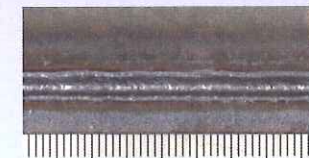


For Iron 2-driving with 2-driven wheel type

Steel · Stainless Steel CO_2 / MAG / MIG Welding

Provides High Quality and High Speed Welding of Sheet Metal.

In thin sheet metal welding with CO_2 /MAG, low heat input is possible resulting in high-quality welding with minimal melt-through.



Current : 125A
Voltage : 18V
Welding speed : 150cm/min
Wire size : 1.2mm
Base metal : 1mmt

Soft Arc Improves the Efficiency of Semi-Automatic Welding!

Soft arc improves arc stability during high speed welding.

Arc characteristic adjustment

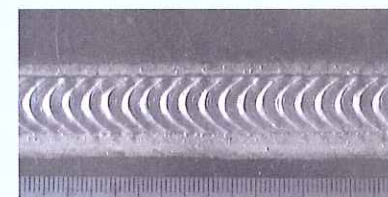
Hard	<ul style="list-style-type: none"> • Help high traveling speed welding • Stable arc with All position welding • Stable arc even when using a long extension cable
Soft	<ul style="list-style-type: none"> • Reduce spatter generation • Flat bead • High amp welding

Aluminum Pulsed MIG Welding

Improved Welding Quality of Aluminum is Made Possible by Wave Pulse Option!

Produces the bead-like appearance of TIG Welding!

A beautiful bead appearance by wave pulsed welding.



Current : 160A
Voltage : 19V
Welding speed : 60cm/min.
Wire : A5183 ϕ 1.2mm
Base metal : 4mmt

High-quality welding possible on heat treatable alloys

By applying the Optional Wave Pulse Method, metallurgical properties are much improved by the reduction of grain-structure size.

Additionally, cracks and blowholes are greatly reduced when compared with conventional methods. The weldability of heat treatable alloys of 6000, 7000, and cast aluminum are substantially improved.

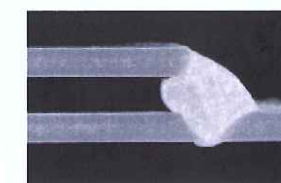
Ideal welding power supply for robots, hard automation, and manual welding.

Provides exceptional low heat input control, which allows the filling of gaps and improves weld quality when automatic welding.

Macro cross section (Upper plate/lower plate 2mm)



Gap 1.5mm



Gap 2.5mm

Weldable area of Wave Pulse Welding and Standard Pulse Welding

