



XD600G

CO₂/MAG Automatic Welding Machine



PRODUCT FEATURES

- **MICRO PROCESSOR CONTROL**
One knob adjustment function available
- **SAVE ENERGY**
Features saving gas, fan shut down function for energy saving
- **FOUR TYPE WELDING MODES**



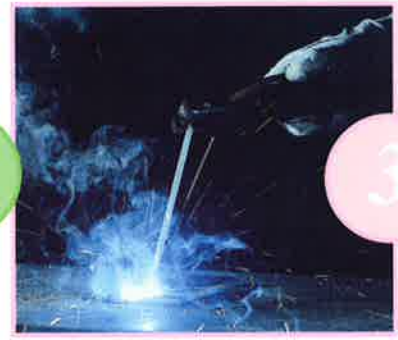
Ideal welding machine for thick plate work such as steel structure, bridge, and shipbuilding 3 in 1 Micro-processor digital controlled multi-function welding machine, make welding more easy.



◆ CO₂ / MAG



◆ DC GOUGING



◆ DC STICK

CO₂/
MAG

One knob synergic control of welding condition



One-Knob synergic control provides appropriate arc voltage for the welding current selected

■ Micro-processor controlled one knob control

The machine features a built-in preset appropriate voltage program to accommodate the welding amperage, Helping Un-experienced Operators to achieve proper welding conditions without creating rework.

■ Easy to read and precise Current/Voltage scales

Automatic adjustment function of current deviation according to difference by wire and gas type, moreover the current can be adjusted very easily as the scale is equally graduated.

■ Thyristor control with micro-processor integrated offers superior arc stability

Thank to micro-processor control, arc stability is increased even wire extension dramatically change due to causes such as hand shaking during welding.

■ High success rate of instantaneous arc start that guarantee accurate and reliable arc start even during tack welding.

It features Hot Start and Wire Slow Down Start control, this combination delivers secured arc start for different type of welding process. Even during tack welding that require frequent arc start, the welding quality is assured by stable arc start.

Micro-Processor

CO₂/MAG

GOUGING

DC Stick

DC
Gouging

Built-in Electric shock preventing device

Very suitable for work like back side gouging, or welding defect removing

- Micro-processor control offers optimal current waveform at arc start, enables gouging arc start stable and low noise.
- Micro-processor control offers optimal gouging current, enables high quality and high efficiency gouging,

◆ Gouging arc start no concave shape.



DC 300A φ5mm

DC
Stick

Built-in Electric shock preventing device

Mild steel, Stainless Steel, low-alloy steel and many other materials.

- Use electrode size from 2.6 to 8mm welding at low spatter, and high quality welding.

◆ Gouging Torch



Type : GT-11

◆ Specification

Model	Current	Carbon Rod	Compress Air
GT-11	700A	φ4-11mm	0.49-0.68MPa

User-friendly Design



◆ Control Panel

User-friendly Design

- Modes available CO₂/MAG Welding, Gouging, and Stick Welding from Remote Box
- Crater fill and Crater fill repeat function prevents crater cracking at the end of weld.
- Initial current control
- 50/60Hz machine
 - OTC unique simulate controlled software type, even if the voltage and frequency changes occurs
- 100V (8A) power outlet equipped for shielding gas regulator heater.
- Mice proof case.
- Terminals for automatic machine.

◆ Welding Mode

XD600G		
CO ₂	Solid Wire	φ 1.2
MAG	Flux-Cored	
CO ₂	Solid Wire	φ 1.4
MAG	Flux-Cored	
CO ₂	Solid Wire	φ 1.6
MAG	Flux-Cored	
CO ₂	Solid Wire	φ 2.0
MAG	Flux-Cored	
CO ₂	Flux-Cored	

Power Saving Design

- Shielding gas saving function
 - Cooling fan automatic stop function
 - Power saving sequence
- (Not applicable if preheating function is used)

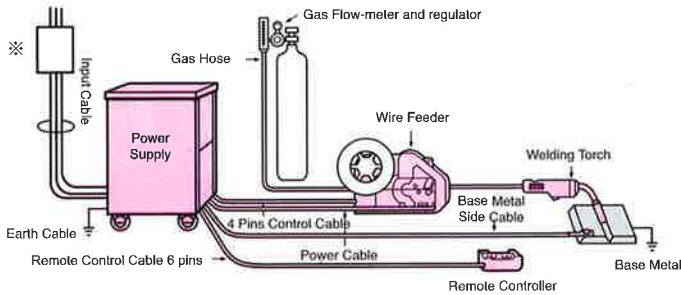
Safety Design

- Covers on input and output terminals
- Thermostat for preventing overheating
- Lack phase operation prevention function

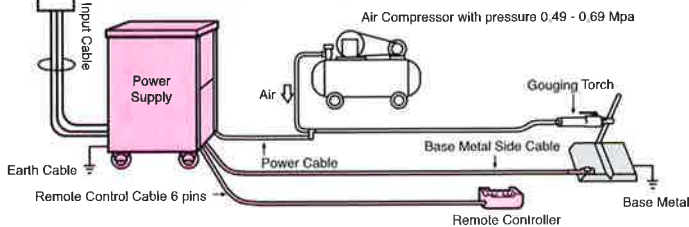
◆ Connection Diagram

 This color reflects standard composition

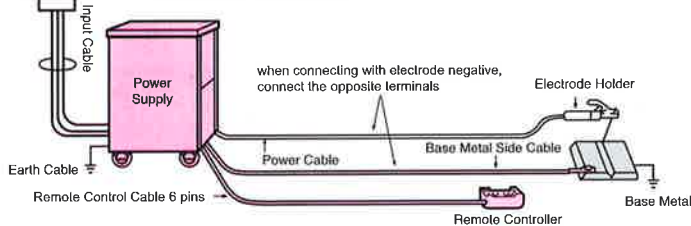
◆ CO₂/MAG Welding Process (Standard Configuration) Power Supply + Wire Feeder + Welding Torch



◆ DC Gouging (optional accessories is required) Power Supply + (Gouging Torch + Air Compressor) (not standard accessories)



◆ DC Stick (optional accessories is required) Power Supply + (Electrode Holder) (not standard accessories)



◆ Standard Composition and Specifications

Welding Power Source	CPXDG-600			
Rated Input Voltage	220 V ±10%	380 V ±10%	415 V ±10%	440 V ±10%
Rated Output Current	600 A			
Rated Load Voltage	50 V			
Output Current Range	60 A - 600 A			
Output Voltage Range	15 V - 55 V			
Max. no-load voltage	84 V			
Phase	3 Phase			
Frequency	50/60 Hz			
Rated Input	47.7 KVA (36.6KW)			
Rated Duty Cycle	100%			
Temperature Range	-10 °C ~ +40 °C			
Dimension (WxDxH)	508 mm X 724 mm X 894 mm			
Weight	242 kg	252 kg	252 kg	256 kg
Wire Feeder	CMXL-2301	CMLW-231		
Wire Size	1.2, 1.4, (1.6)	(1.2), (1.4), 1.6, 2.0		
Wire Type	Solid, Flux			
Wire Feeder	Max. 18 m / min			
Wire Reel	Shaft Dia.	50 mm		
	Outside Dia.	Max. 300 mm		
	Width	103 mm		
Wire Mass	Max. 25 kg			
Mass	10kg	11kg		
Welding Cable	BKPT-7002 (2m)			
Cable Diameter	70 mm ²			
Welding Torch	WT5000-SD	WTGW-6001		
Max Current	500 A	600 A		
Duty Cycle	60 %	100 %		
Wire Type	Solid, Flux			
Wire Size (mmΦ)	(1.2), 1.4, (1.6)	1.6, 2.0		
Mass (including cable)	3.4 kg	5.0 kg		

◆ Standard Accessories (Welding Power Source)

For Welding Power Source	CPXDG-600	Quantity
Remote Control Box	C0047K00	1
Cartridge Fuse	Refer Manual	1
Glass Enclosed Fuse	Refer Manual	1
Cup Square Neck Bolt	M10 - 30	2
Nut	M10	2
Spring Washer	M10	2
Washer	M10	2

◆ Input Power Capacity and Cable Specifications

Welding Power Source	CPXDG-600			
Rated Input Voltage	220 V ±10%	380 V ±10%	415 V ±10%	440 V ±10%
Phase	3 Ph			
Rated Input	47.7 KVA			
Circuit Breaker Capacity	150 A	100 A	80 A	75 A
Feeder Side Power Cable	60 mm ² or more			
Base Metal Side Power Cable	60 mm ² or more			
Input Cable and Grounding Cable	38 mm ²	14 mm ²	14 mm ²	14 mm ²

◆ Optional Parts / Extension Cable and Gas Hose

Cable Length	7m	12m	17m	22m
Welding Cable (70mm ²)	BKPT-7007	BKPT-7012	BKPT-7017	BKPT-7022
Cable Length	5m	10m	15m	20m
Gas Hose	BKGG-0605	BKGG-0610	BKGG-0615	BKGG-0620
Control Cable 4 Pins	BKCPJ-0405	BKCPJ-0410	BKCPJ-0415	BKCPJ-0420
Control Cable 6 Pins	BKCPJ-0605	BKCPJ-0610	BKCPJ-0615	BKCPJ-0620



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