### Standard Composition and Specifications

### ■Welding Power Source

•Welding Power Source		DM-350 (Standard)	DM-350 (CE-Marking)	# DM-500 (Standard)	
Rated Input Voltage	٧	$400\pm15\%$ (Inform input voltage when ordering)			
Phase			3 phase		
Rated Input	kVA	18(1	5kW)	29 (25kW)	
Rated Duty Cycle	%	6	100		
Rated Output Current	Α	35	500		
Rated Load Voltage	V	31	39		
Range of Output Current	Α	30~350		30~500	
Range of Output Voltage	V	12~	12~36		
Max. no-load Voltage	V	58		80	
Dimensions (W×D×H)	mm	250×640×370 (except handle)		300×655×595 (except handle, eyebolt)	
Weight	kg	3	51		

#Available on request.

### Wire Feeder

Wire Feeder	type	CM-7401 (Standard)	CM-7401 (CE-Marking)	
Applicable Wire Size	mm	(0.8), (0.9), 1.0, 1.2, (1.4), (1.6)		
Wire type		Solid Wire, Flux-cored Wire		
Wire Feeding Speed	m/min	Max 22		
Weight	kg	13	16	
Dimensions (W×D×H) mm		215×543×350	243×732×402	

■CO₂/MAG Welding Torch

CO2/MAG Welding Torch		WT3500-SD	WT3510-SD	WT5000-SD	
Rated Current	Α	35	500		
Applicable Wire Size	mm	(0.9),(1.0),1.2	0.9),(1.0),1.2 (0.9),(1.0),1.2, (1.4),(1.6)		
Duty Cycle	%	30	0		
Cooling Method		Air-Cooled			
Cable Length	m	3, (4.5), (6)			

### ■Wire Feeder Control Cable (10 pins)

Wire Feeder     Control Cable	DM350·500 Standard Spec.	DM350 CE-Marking Spec.		
Standard Cable	1.5m Cable is attached to Wire Feeder.	Choose cable from the following BKCPP-1002 (2m) BKCPP-1007 (5m) BKCPP-1012 (10m)		
Extention Cable	BKCPJ-1005(5m), BKCPJ-1010(10m) BKCPJ-1015(15m), BKCPJ-1020(20m)			

### ■Gas Hose

•Gas Hose	DM350·500 Standard Spec.	DM350 CE-Marking Spec.		
Standard	3m Gas Hose is attached to Wire Feeder.			
Extention		BKGG-0610(10m) , BKGG-0620(20m)		

### Wire Feeder Power Cable

Wire Feeder     Power Cable	DM350	DM350	DM500
	Standard Spec.	CE-Marking Spec.	Standard Spec.
Standard Cable	Choose cable from the following. BKPDT-3802 (2m) BKPDT-3807 (5m) BKPDT-3812 (10m) BKPDT-3817 (15m) BKPDT-3822 (20m)	Choose cable from the following. BKPDJ-3802 (2m) BKPDJ-3807 (5m) BKPDJ-3812 (10m) BKPDJ-3817 (15m) BKPDJ-3822 (20m)	Choose cable from the following. BKPT-6002 (2m) BKPT-6007 (5m) BKPT-6012 (10m) BKPT-6017 (15m) BKPT-6022 (20m)

### ■Base Metal Power Cable

Base Metal     Power Cable	DM350	DM350	DM500
	Standard Spec.	CE-Marking Spec.	Standard Spec.
Standard Cable	BKPDT-38	302(2m)	Choose cable from the following.  BKPT-6002 (2m)  BKPT-6007 (5m)  BKPT-6012 (10m)  BKPT-6017 (15m)  BKPT-6022 (20m)

Digital Remote

Control Cable

**CAN Communication** 

Controller

Digital Remote Controller

### Optional

### ■Remote Control Box



**Exention Cable** 



Analog Remote Controller

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

BKCPJ-0615(15m)

### ■Wheel Kit (DM-350)

Part numbers: K5416B

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

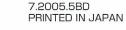
Digital Remote

In accordance with DAIHEN's policy to make continuing improvements, design and/or specifications are subject to change without notice and without any obilgation on the part of manufacturer.

### **DAIHEN** Corporation

5-1, Minamisenrioka, Settsu, Osaka 566-0021, Japan Phone:(Country Code 81)6-6317-2506 (Country Code 81)6-6317-2583

Distributed by:



E-2454

BKCAN-0410 (10m)

BKCAN-0420 (20m)

K5422B00





CO<sub>2</sub>/MAG Automatic Welding Machine





CAT. NO. B220401A

# CO2/MAG Welding Machine, pursuing Higher Quality and Efficiency

- High Quality Welding in low current range
- Spatter Free with Digital Electronic Reactor
- Stable Welding Quality by Penetration Adjustment Function
- Perfect Arc Starts for reliable welding operations
- Standard 4 Roll Feeder type with Encoder



**DAIHEN** Corporation



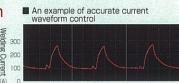
# Digital Control creates new CO2/MAG Welding World!!!

The Newest Advanced Welding Machine with new user-friendly functions, changing conventional welding machines.



## New Functions with High Quality and High Efficiency Welding

 Less Spatter Generation High accurate control of current waveform in the short circuit period granulates and generates



Stable arc control within full range of current

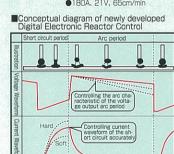
Stable Welding Control from 30A to 350A. Excellent for complicated joint welding and out of position welding

■ Bead Appearance



 Digital Electronic Reactor Control which supports high quality welding

OTC s original Digital Electronic Reactor controls output voltage accurately not only in the short circuit period, but also in the arc period.



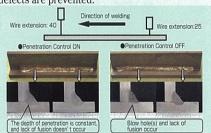
 Substantially improved the instantaneous arc starts by digital turbo start function and digital antistick

By standardizing the diameter of the wire point, stable arc starts are achieved for Spatter Free Welding. With automatic welding the number of start errors and down time are drastically reduced.



Standard Feature: Penetration Adjustment Function, contributes to the stabilization of the welding quality

Even when the wire extension is changed while welding, penetration is maintained and welding defects are prevented



 Adjustment of arc characteristic provides various selection of arc control

TRUE DIELTAL

SOFT

Reduce spatte

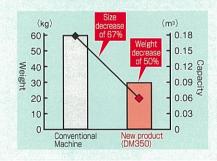
generation Secure the flat be

■ Arc characteristic adjustment

HARD	
Improvement of stability for high speed welding	1200
· Improvement of efficiency	
of out of position welding	1
· Arc stability control when	
the extension cable is	1
lengthened	
. Hard are feeling is required	

 Substantially small size and light weight

A combination of 80kHz (Output Frequency) high speed inverter circuit by OTC's original Soft Switching Control and digital control provides substantially small size and light weight



Touch panel control type for user friendly operation and layout

New touch panel control based with One Key One Operations and LED indications

7

### Digital Meter easily read in dark places

Digital Display of current and voltage while welding, along with the average current or voltage when welding is complete. Digital Diagnostic Display of error codes for troubleshooting

### Welding condition memory function

Welding memory play back tions by one touch control. conditions and for welding efficiency.

### **Function Key**

Front Panel control func-tions instead of setting switches inside welding power source, so operators can easily set the special functions through the user friendly Touch Control

# olo

A choice of the welding modes Easy set up of the welding wire and wire diameter by touch panel with LED indica-

# Easy to set the conditions by Dial

Setting of the Amps and Volts conditions accurately such as 1A and 0.1V.

### characteristics

Arc type choices selectable via front touch variety of applications

### A variety of functions

Touch Panel control for user friendly operation for various func-tions to achieve high quality welding

### High Performance NEW Wire Feeder best matched for D Series

### 4 Roll Feeder Standard

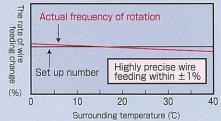
Wire feeding power of this type is 1.5 times greater than that of a 2 roll feeding type! The powerful 4-roll wire feeding allows for greater welding torch flexibility.





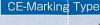
Encoder Feedback Type with newly developed adjustable Inertia Control Highly precise wire feeding, not influenced by

surrounding temperature or extension cable, contributes to the stabilization of the welding quality.



CE-Marking Wire Feeder CE-Marking specification

wire feeder is available.



Wire Case Euro torch connection



### User Friendly Design and Operation

- 5 welding types can correspond with 16 type's wire diameter. With option soft, also Aluminum can be weld.
- Double Operation Type for the first time in the CO<sub>2</sub>/MAG Welding world. Two types of Optional Remote Controllers are available for setting welding conditions Analog Remote Pendant or a Digital Remote Pendant for a more accurate control of welding conditions.

	Wire type	Gas	DM3E0	DM500	Wire type	Gas	DM350	DM500		
	Patrick 1		0.8		PERSONAL PROPERTY.	to the same of the	1.2	1.2	3	
		teel	0.9	-	Mild Steel	COs	1.4	1.4	ě.	
1			1.0	· —	Cored		-	1.6	1	
			1.2	1.2	Stainless Steal Solid	eal 98%Ar	0.8	_	ST PROPERTY.	
			1-3	1.4			0.9	-	2	
	Mild		-	1.6			98%Ar	1.0	-	
			0.8	-			1.2	1.2		
			0.9	-			-	1.6	3	
		8096Ar	1.0	-	Stainless Steal Cored	tainlace	0.9	-		
			1.2	1.2		COs	1.2	1.2	1	
			-	14				1.6	1	

- 1.6

■DM350·500 Welding Modes

 Easy to control the welding condition of the welding power source intensively or connect with Automatic Machine and Robots.

Possible to equip communications board (CAN) of high expandability as an option. Easy to join with personal computers, automatic machines and robots.

Soft Arc Mode Standard

For soft arc, select Soft Arc Mode by Function Key. (Soft arc applicable mode:CO2 mild steel solid 0.9,1.0,1.2)