



DP400R

Digital Pulse GMAW
Machine for Automation



Ultimate GMAW Quality

Revolutionary Digital Welding Power Source



59 Pre-Set Optimized Welding Modes

Decades of advanced research in arc phenomena combined with ultra-high speed digital inverter technology have yielded built-in optimized welding modes to simplify operation.

New Ferrite Stainless mode

In addition to the conventional welding mode for Austenitic Stainless Steel wires, the new DP400R incorporates a Ferrite Stainless Steel mode.

The distinctive parameters created for this welding mode reduce weld spatter more than 30% compared to our previous models.



2mm Cr-Fe alloy welded at 40 ipm

Detachable Digital Control Panel (optional)

Prevents unnecessary changes to the welding conditions. A single digital panel can be used to set up multiple power sources, and stores 100 programs.

DP400R seamlessly integrates to all OTC - DAIHEN AII robots and easily retrofits to most existing robots.

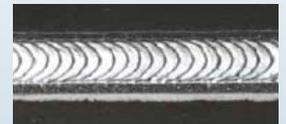


Enhanced Wave Pulse II

Wave Pulse II modes have been expanded to include not only aluminum, but carbon steels, galvanized steels, stainless steels, and Cr-Fe alloys.

TIG-Like Welds

By intermittently controlling the wire feed speed and Wave Pulse conditions a TIG like bead appearance can be achieved with Wave Pulse II.



Wave Pulse II Aluminum

Gap Filling and Thin Material Capabilities

Burn-through occurs easily in automated welding on thin gauge materials with gaps. Wave Pulse II provides better heat input control improving tolerance to gaps and welding of thin gauge materials.

Welding Process	Bead Appearance	Cross Section
Conventional Pulse GMAW		
Wave Pulse II		

Ultra Stable Mild Steel Performance

The DP400R maintains stable, high quality Pulse GMAW welds even when the gas mixture ratio fluctuates.



Ideal Welding Conditions Selected automatically

When combining the DP400R with the OTC AII Series Robots, Ideal Welding Conditions can be selected automatically.



It's as easy as 1 - 2 - 3

Step 1 - Select the Welding Data Base from the robot teach pendant.

Step 2 - Input...

- Plate Thickness
- Joint Type
- Welding Speed
- Weld Length

Step 3 - Confirm Automatic Setting

Power Sources Specifications

Model	DP-400R
Rated input voltage	AC 460V 3Phase
Rated input power (*)	20.7 (*17.7) kVA 18.5 (*15.6) kW
Rated input current	26A
Rated duty cycle	80%
Rated output current	400A
Rated load voltage	34V
Output current range	30 – 400A
Output voltage range	12 – 38V
Max. no-load voltage	99V
Weight	142 lbs (64kg)
Dimensions (in)	W : 13.8 X D: 28.7 X H: 24.8

(*) Non-Pulse Modes

Wire Feeders Specifications

Model	CMRE-741
Wire Size (*)	(* .030"), .035", .040", .045"
Wire Type	Solid, Flux Cored
Wire Feed Speed	865 in./min. (22m/min.)
Weight	15.4 lbs. (7 kg)
Dimensions	W: 7.7 x D: 10.8 x H: 9.8 inches

(*) drive roll available as an option

Supplied Accessories

Dust Filter *	1
M10-30 Square Neck Bolt	2
M10 Washer	2
M10 Spring Washer	2
M10 Nut	2

*When using the dust filter, perform 70% or less duty cycle operation.

Optional Accessories

• Operation Panel

Digital Operation Panel	E-2521
Control Cable Length	3.3 Ft.



• Remote Controls

Digital Remote Control	E-2454
CAN Communication Control	BKCAN-0410 (33 ft.)
	BKCAN-0420 (66 ft.)
Analog Remote Control	K5416Z00

For more information on  brand products from DAIHEN Inc. please visit our web site at www.daihen-usa.com.



OTC - DAIHEN Inc.
(Headquarters)
1400 Blausler Drive
Tipp City, OH 45371
Ph: 937-667-0800
Fax: 937-667-0885

OTC - DAIHEN Inc.
5311 W.T. Harris Blvd., West
Charlotte, NC 28269

OTC - DAIHEN Inc.
(Atlanta Branch)
2964 Northeast Parkway NW
Atlanta, GA 30360

OTC - DAIHEN Inc.
(Detroit Branch)
22241 Roethel Drive
Suite A
Novi, MI 48375