

experts in productivity™

Panasonic Factory Solutions Company of America



HM3-350

Full Digital Dip-Pulse Arc Welding Power Supply

Superior Technology

Third generation, industry-proven HM Dip-Pulse™ technology delivers superior welding performance across a variety of materials and metal thicknesses — a welding platform to build your shop around.

The HM3-350 offers wider process windows, virtually instantaneous, repeatable arc starting and more precise arc control via 32bit processing.

A 4-wheel 2-drive feeder with encoder feedback allows consistent and stable wire feeding with fast ramp up and down capabilities; thereby, enabling fast arc starts/ends & maximum welding performance.

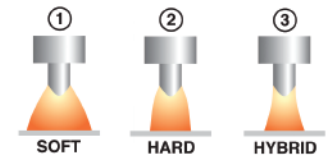
The new operator interface supports both manual or dedicated automation applications with an easy-to-use interface.

Direct digital connection to Panasonic's G2 series arc welding robots provides plug and play capability and unlimited wave form control directly from the robot teach pendant.

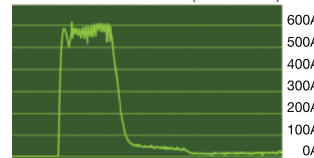
Regardless of manual, dedicated automation or robotic applications, the HM3-350 exceeds expectations with superior technology for welding productivity, quality and flexibility.

Features and Benefits

Flexibility — 3 interactive adaptive pulse control methods to accommodate various applications, operator preferences and changes in stick-out.

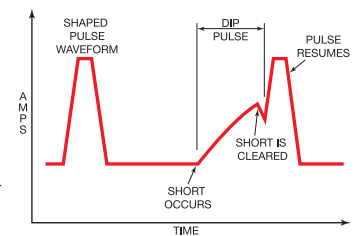


ARC START WAVEFORM (ex. mild steel)



Productivity — A 2 step high current arc start routine utilizing patented impulse starting technology <capacitor discharge at wire touch> ensures a positive arc initiation. Two arc start modes, CV or Pulse, provide consistent arc starting while minimizing spatter generation.

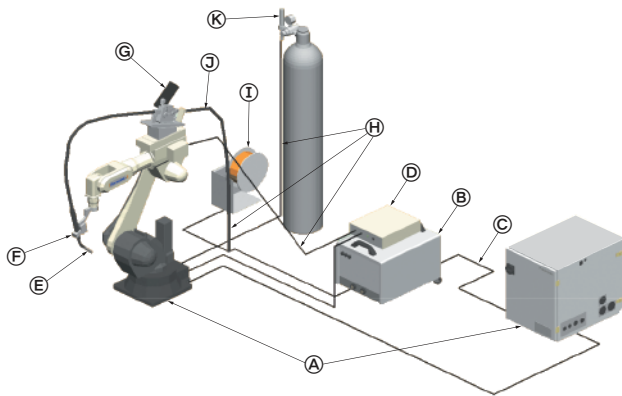
Quality — Automatic waveform correction, wire feed speed and other pertinent adjustments are standard. In the event of welding over a tack or changes in operator's stick-out, the unit automatically clears the short without spatter. That means cleaner welds with higher travel speeds, higher deposition rates, reduced smoke and less heat input.



Simplicity — Easy-to-use manual welding control pendant features include: real-time graphical controller, convenient multi-schedule function, fast installation/set-up time and alarm indication of feed load fluctuation.

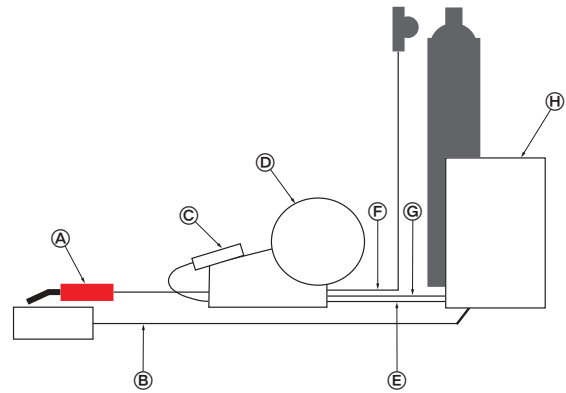
Panasonic HM3 Robotic Welding System

Digitally coupled to a Panasonic Arc Welding Robot eliminates the interface box typical on conventional systems. The welder is automatically recognized by the robot. Fine waveform adjustment can be performed through the robot teach pendant — allowing fine adjustment for exotic or difficult welding applications.



A Robot/Controller	G Wire Feeder
B Welding Power Source	H Cable Units
C Communication Cable	I Wire Reel Stand
D Encoder Conversion Unit	J Torch Cable Fixing Unit and Power Cable
E Torch	K Gas Regulator
F Safety Holder	

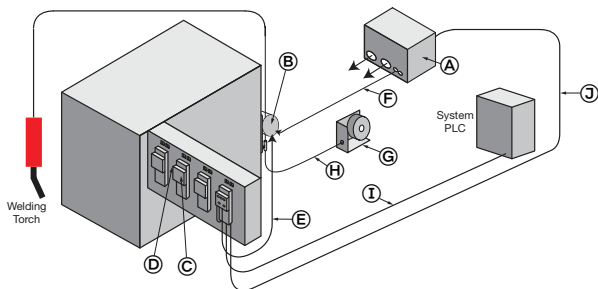
Manual Welding



A Torch	E Power Cable
B Work Ground Cable	F Gas Line
C Control Pendant	G Feeder Control Cable
D Wire Feeder	H Welding Power Source

Power Source	YD-350HM3YLD
Control Pendant	YD-00DFS1
Wire Feeder	YW-35DF1
Wire Drive Roll Size (Std)	.035"/.045"
Wire Feeder Drive Type	2 Driven-2 Idle

Dedicated Automation



A Welding Power Source	YD-350HM3YLD
B Wire Feeder	YW-35DF1
C Control Pendant	YD-00DFS1
D Automation I/F Box (0.8m to Control Pendant)	YX-CB011YAA
E Control Pendant Extension Cable (3m)	YV-003DE1A
F Feeder Control Cable Extension (5m) (20m maximum)	See optional cables
G Wire Reel Stand (Optional when YW-35DF1 is used)	YW-CGF031
H Flexible Conduit (3m for .045")	TDF50109
I Connection Harness (10 wires: 8 channel, 2 torch)	User prepared
J Jig Harness (4 wires) (Main Controller<->Power Source)	User prepared

Machine Specifications

Input Voltage	230/460V AC ± 10%, Three-phase, 60Hz
Rated Input	20kVA (18kW)
Output Current	30-350A
Output Voltage	12-36V
Rated Duty Cycle	60%
Applicable Wire Diameter	.030", .035", .040", .045"
Dimensions	15.0" x 20.9" x 27.2"
Weight	169 lbs (77kg)

Optional Cables

Control Pendant Extension Cable 3 meter (118.10")	YV-003DE1A
Feeder Control Cable Extension 5 meter (196.850")	YV-605GB2A
Feeder Control Cable Extension 15 meter (590.551")	YV-615GB2A
Feeder Control Cable Extension 20 meter (787.402")	YV-620GB2A

Safety Precaution: Before attempting to use any welding product, always read the manual to ensure correct use.

Panasonic Factory Solutions Company of America
 1-888-PANWELD
 PFSMarketing@us.panasonic.com
 www.panasonicfa.com

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