

# HOBART®

MADE IN THE  
USA

**5/3/1**  
INDUSTRIAL  
WARRANTY

# Handler® 210MVP

## 115/230V Wire Feed Welder



250822  
March 2011



### Includes:

- Comfortable 10-ft. (3 m) H100S4-10 gun
- 10-ft. (3 m) work cable with clamp
- Built-in gas solenoid valve and dual-gauge regulator with gas hose
- Spool hub assembly accommodates 4 or 8 in. spools
- Sample spool of .030 in. (0.8 mm) self-shielding flux-cored wire
- .030 in. (0.8 mm) contact tips
- 10-ft. (3 m) power cord with 5-15P (115 V, 15 A) and 6-50P (230 V, 50 A) MVP plugs
- Weld set-up chart
- Owner's manual with parts lists, installation, operation and maintenance guidelines

The Handler 210MVP is the one portable MIG welder that has 210 amps of welding power packed into a portable case! Powerful output to handle 3/8 in. thick mild steel and enough control for 24 gauge material.

The Handler 210MVP is recommended for running the following wires: .023–.035 in. (0.6–0.9 mm) mild steel or stainless steel, .030–.045 in. (0.8–1.2 mm) flux-cored, and .030–.035 in. (0.8–0.9 mm) aluminum. Seven output voltage settings and infinite wire feed speed control make the unit easy to set and adjust for different materials, thicknesses and wires.



Optional  
SpoolRunner™  
100 Spool Gun

An integrated spool gun control circuit allows direct plug-in for the optional SpoolRunner™ 100 spool gun. The spool gun eliminates wire

feeding problems associated with soft aluminum wire and also runs mild or stainless steel wire. A selector switch for MIG gun or spool gun operation makes switching guns quick and easy.

### Features

### Benefits

|  |  |
|--|--|
| Max 210 amps in small portable case  | Sized for transport of the unit to the job site and the power to weld 3/8 in. mild steel.  |
| 7 (230 V) and 4 (115 V) voltage settings, with infinite wire feed speed control    | Offers easier fine control of the output parameters for improved arc performance with less spatter for a better bead appearance and less clean up.           |
| Accepts uncomplicated, simple-to-install direct plug-in SpoolRunner™ 100 Spool Gun | Spool guns enhance feedability and reduce “bird-nesting” associated with soft aluminum wires.  |
| Integrated spool gun control circuitry is standard                                 | No additional control box or adapter is required to connect the SpoolRunner 100 spool gun.   |
| Dual-voltage capability with MVP™ (Multi-Voltage Plug)                             | Allows you to connect to common 115 or 230 V power receptacles without the use of any tools—simply choose the plug that fits the receptacle.                 |
| Door chart with initial settings   | Quickly reference initial settings for different wires, gases, materials and thicknesses. Provides quick starting point for novices and professionals alike. |
| Built-in contactor   | Eases use and excellent safety feature which makes wire electrically “cold” until trigger is pulled.   |
| Durable feed head with quick-release drive roll tension lever                      | Positive feed with adjustable tension plus easy accessibility to thread new wire.  |
| Convenient polarity changeover with tip holder                                     | Access makes it quick and easy to change polarity for solid or tubular wire. Includes convenient storage holes for spare tips.                               |
| Dual-groove quick-change drive roll  | Makes it easy to change from one wire size to another. One knurled groove and one smooth groove for .030–.035 in. (0.8–0.9 mm) wire.                         |
| Short circuit protection   | Protects unit against current overload.  |
| Self-resetting thermal overload  | Protects power transformer to ensure reliability.  |
| Current-limited motor protection   | Protects wire feed system from overload, no fuses to change or circuit breaker buttons to reset.   |
| Hobart's 5/3/1 Industrial Warranty   | Five-year warranty on transformers, three years on electronics (drive motors, rectifiers) and one year on guns.  |

# Specifications (SUBJECT TO CHANGE WITHOUT NOTICE.)

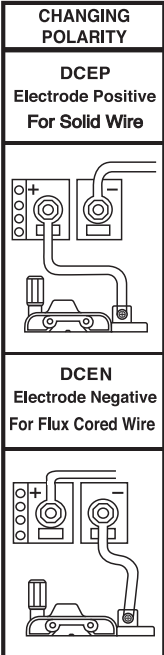


| Input Power | Rated Output                             | Current Range | Max. Open-Circuit Voltage | Wire Feed Speed Range               | Amps Input at Rated Output, 60 Hz |       |     |     | Dimensions   | Net Weight       |
|-------------|--|---------------|---------------------------|-------------------------------------|-----------------------------------|-------|-----|-----|--|------------------|
|             |  |               |                           |                                     | 115 V                             | 230 V | KVA | KW  |  |                  |
| 115 V       | 90 A, 19 VDC at 20% Duty Cycle on 60 Hz  | 25–140 A      | 28 V                      | 40–680 IPM<br>60–770 IPM at no load | 20                                | —     | 2.9 | 2.5 | H: 12-3/8 in. (315 mm)<br>W: 10-5/8 in. (270 mm)<br>D: 19-1/2 in. (495 mm) | 79 lb. (35.8 kg) |
| 230 V       | 150 A, 23 VDC at 30% Duty Cycle on 60 Hz | 25–210 A      | 34 V                      |                                     | —                                 | 24    | 5.4 | 4.6 |  |                  |

Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

## Handler 210MVP Welding Guide (115/230 Volt)

| Settings are approximate. Adjust as required. Thicker materials can be welded using proper technique, joint preparation and multiple passes. |   |  |               | Recommended Voltage and Wire Speed Settings for thickness of metal being welded.<br>Number on left of slash is Voltage Setting / Number on right of slash is Wire Feed Setting. |                              |                              |                              |                              |                    |                     |                    | CHANGING POLARITY |                    |
|--|---|--|---------------|---|------------------------------|------------------------------|------------------------------|------------------------------|--------------------|---------------------|--------------------|-------------------|--------------------|
| Material Being Welded  | Wire Type and Polarity Setting                  | Suggested Shielding Gas 20-30 cfh Flow Rate  | Input Voltage | Diameter of Wire Being Used   | 24 ga<br>.024 in.<br>(0.6mm) | 22 ga<br>.030 in.<br>(0.8mm) | 18 ga<br>.048 in.<br>(1.2mm) | 16 ga<br>.063 in.<br>(1.6mm) | 1/8 in.<br>(3.2mm) | 3/16 in.<br>(4.8mm) | 1/4 in.<br>(6.3mm) |                   | 3/8 in.<br>(9.5mm) |
| Steel  | Solid Wire ER70S-6<br>"Set Polarity for (DCEP)" | C <sub>25</sub> Gas Mixture<br>75% Argon / 25% CO <sub>2</sub><br>Produces less spatter.<br>Better appearance. | 230 V         | .024" (0.6mm)   | 1 / 20                       | 2 / 25                       | 3 / 40                       | 3 / 50                       | 5 / 70             | 6 / 80              | ~                  | ~                 |                    |
|  |   |  |               | .030" (0.8mm)   | 2 / 20                       | 2 / 25                       | 3 / 25                       | 3 / 30                       | 4 / 40             | 5 / 50              | 6 / 60             | 6 / 70 *          |                    |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | 2 / 20                       | 3 / 20                       | 5 / 40             | 6 / 40              | 6 / 45             | 7 / 50 *          |                    |
|  |   |  | 115 V         | .024" (0.6mm)   | 4 / 25                       | 5 / 30                       | 6 / 40                       | 6 / 45                       | 7 / 65             | ~                   | ~                  | ~                 | ~                  |
|  |   |  |               | .030" (0.8mm)   | 5 / 15                       | 5 / 20                       | 6 / 25                       | 6 / 30                       | 7 / 50             | ~                   | ~                  | ~                 | ~                  |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | 6 / 20                       | 6 / 25                       | 7 / 30             | ~                   | ~                  | ~                 | ~                  |
| Steel  | Solid Wire ER70S-6<br>"Set Polarity for (DCEP)" | 100% CO <sub>2</sub>   | 230 V         | .024" (0.6mm)   | ~                            | ~                            | 3 / 65                       | 4 / 40                       | 5 / 65             | 5 / 70              | ~                  | ~                 |                    |
|  |   |  |               | .030" (0.8mm)   | ~                            | ~                            | 3 / 30                       | 4 / 30                       | 5 / 40             | 6 / 40              | 6 / 50             | ~                 |                    |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | 3 / 20                       | 3 / 25                       | 5 / 35             | 6 / 35              | 7 / 40             | 7 / 45 *          |                    |
|  |   |  | 115 V         | .024" (0.6mm)   | ~                            | ~                            | 5 / 25                       | 6 / 35                       | 7 / 50             | ~                   | ~                  | ~                 | ~                  |
|  |   |  |               | .030" (0.8mm)   | ~                            | ~                            | ~                            | 6 / 25                       | 7 / 35             | ~                   | ~                  | ~                 | ~                  |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | ~                            | 6 / 20                       | 7 / 25             | ~                   | ~                  | ~                 | ~                  |
| Stainless Steel  | Stainless Steel<br>"Set Polarity for (DCEP)"    | Tri-Mix<br>90% He / 7.5% Ar /<br>2.5% CO <sub>2</sub>  | 230 V         | .024" (0.6mm)   | ~                            | ~                            | 3 / 35                       | 4 / 40                       | 6 / 70             | ~                   | ~                  | ~                 |                    |
|  |   |  |               | .030" (0.8mm)   | ~                            | ~                            | 3 / 25                       | 4 / 30                       | 6 / 50             | 7 / 70              | ~                  | ~                 |                    |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | 3 / 20                       | 4 / 25                       | 6 / 50             | 7 / 50              | 7 / 55             | ~                 |                    |
|  |   |  | 115 V         | .024" (0.6mm)   | ~                            | ~                            | 5 / 30                       | 6 / 30                       | 7 / 40             | ~                   | ~                  | ~                 | ~                  |
|  |   |  |               | .030" (0.8mm)   | ~                            | ~                            | 5 / 20                       | 6 / 25                       | 7 / 35             | ~                   | ~                  | ~                 | ~                  |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | ~                            | ~                            | ~                  | ~                   | ~                  | ~                 | ~                  |
| Steel  | Flux Core E71T-11<br>"Set Polarity for (DCEN)"  | No Shielding Gas Required<br>Good for Windy or Outdoor Applications  | 230 V         | .030" (0.8mm)   | ~                            | ~                            | 1 / 20                       | 2 / 25                       | 4 / 45             | 5 / 45              | 5 / 50             | ~                 |                    |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | 1 / 15                       | 2 / 20                       | 4 / 35             | 5 / 35              | 6 / 45             | 7 / 50 *          |                    |
|  |   |  |               | .045" (1.2mm)   | ~                            | ~                            | ~                            | 1 / 10                       | 4 / 15             | 4 / 20              | 5 / 25             | 6 / 30 *          |                    |
|  |   |  | 115 V         | .030" (0.8mm)   | ~                            | ~                            | 4 / 20                       | 5 / 25                       | 7 / 40             | 7 / 45              | ~                  | ~                 | ~                  |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | 4 / 10                       | 4 / 15                       | 6 / 20             | 7 / 30              | 7 / 35             | ~                 | ~                  |
|  |   |  |               | .045" (1.2mm)   | ~                            | ~                            | ~                            | ~                            | ~                  | ~                   | ~                  | ~                 | ~                  |
| Aluminum with Optional Spool Gun   | Aluminum**<br>4043 AL (DCEP)                    | 100% Argon**   | 230 V         | .030" (0.8mm)   | ~                            | ~                            | 2 / 60                       | 3 / 65                       | 5 / 70             | 6 / 85              | 7 / 100            | ~                 |                    |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | ~                            | ~                            | 5 / 60             | 6 / 75              | 7 / 90             | ~                 |                    |
|  |   |  | 115 V         | .030" (0.8mm)   | ~                            | ~                            | 4 / 60                       | 5 / 70                       | 7 / 80             | ~                   | ~                  | ~                 |                    |
|  | Aluminum**<br>5056 AL (DCEP)                    | 100% Argon**   | 230 V         | .030" (0.8mm)   | ~                            | ~                            | 2 / 70                       | 3 / 75                       | 5 / 90             | 6 / 100             | 6 / 100            | ~                 |                    |
|  |   |  |               | .035" (0.9mm)   | ~                            | ~                            | ~                            | ~                            | 5 / 80             | 6 / 90              | 7 / 100            | ~                 |                    |
|  |   |  | 115 V         | .030" (0.8mm)   | ~                            | ~                            | 4 / 70                       | 5 / 75                       | 7 / 90             | ~                   | ~                  | ~                 |                    |



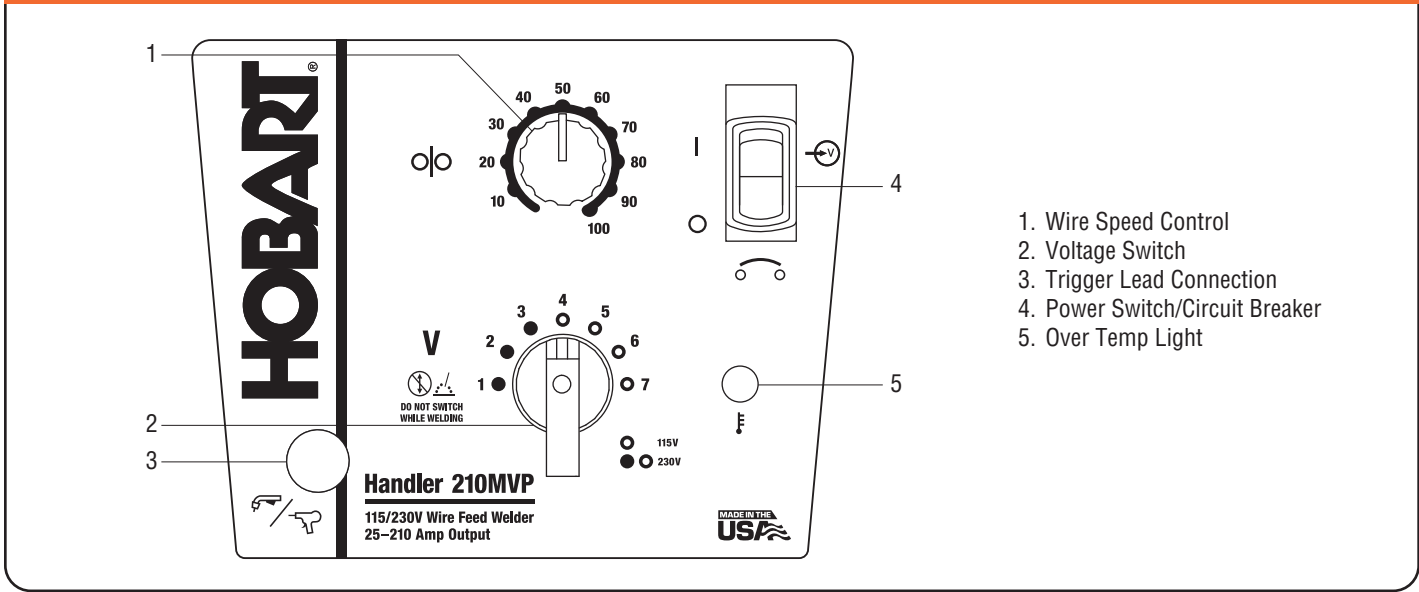
Match feedroll groove to diameter of wire being used. Set Tension Knob Setting to 3 at start. Adjust tension per instructions in the manual.

**Caution!** Do not change Voltage switch position while welding. See owners manual for more information.

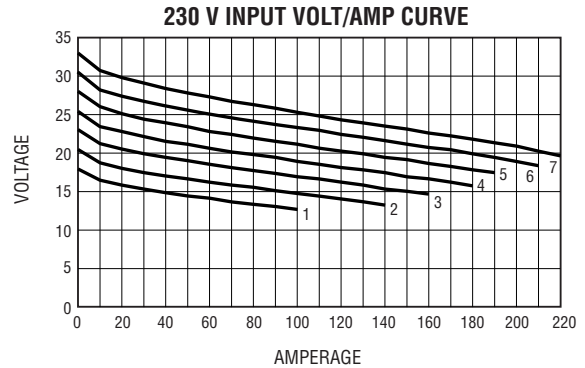
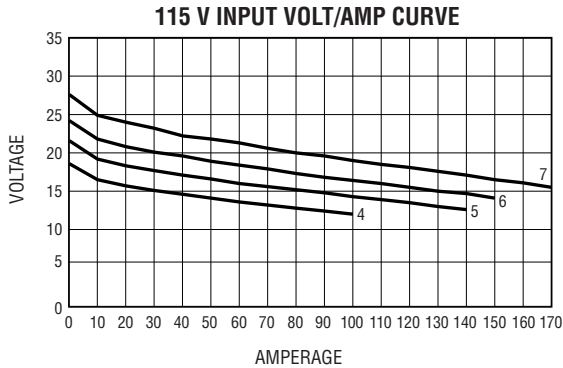
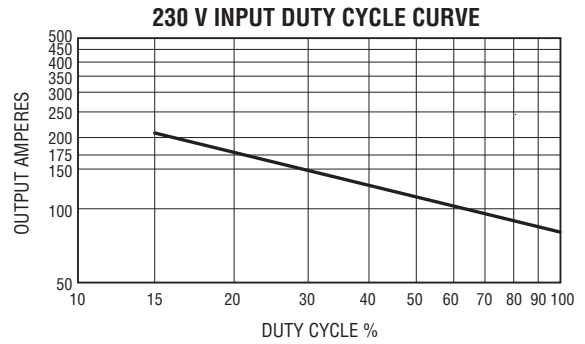
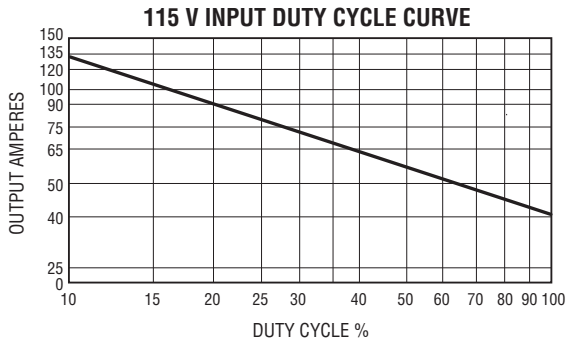
**Wire Speed listed is a starting value only.** Wire Speed setting can be fine-tuned while welding. Wire Speed also depends on other variables such as stick out, travel speed, weld angle, cleanliness or metal, etc.

\* Multiple passes may be required depending on the application and joint design.  
 \*\* Aluminum wire settings are with the Spool Gun attached. A spool gun eliminates many feedability issues associated with the soft Aluminum Wire. A "push angle" for the torch is normally recommended for aluminum.

## Control Panel



## Performance Data



## Accessories



**SpoolRunner™ 100  
Spool Gun  
#300796**

- 10-ft. (3 m) cable
- Weld 18 gauge – 1/4 in. (1.2–6.3 mm) aluminum with the Handler 210MVP
- Rated 150 amps, 60% duty cycle
- For .023–.035 in. (0.6–0.9 mm) aluminum, steel and stainless steel wire on 4 in. (102 mm) diameter spools
- Includes rugged plastic carrying case
- Shipped with three .030 in. (0.8 mm) and three .035 in. (0.9 mm) contact tips

**H100S4-10 Replacement MIG Torch  
#245926**

Comes in 10-ft. (3 m) length with liner for .030–.035 in. (0.8–0.9 mm) diameter wire.



**Portable CO<sub>2</sub> Cylinder Kit  
#770626**

Includes one 20-oz. CO<sub>2</sub> cylinder (paintball style), pre-set regulator and gas hose, spare “O” rings, and mounting hardware.



**Small Cart/Cylinder Rack #194776**

Designed for portable MIG welders. Accommodates large and small gas cylinders.



**Running Gear/Cylinder Rack #770187**

Heavy-duty construction. Accommodates large and small gas cylinders.



**Protective Cover #195186**

Weather-resistant nylon resists stains and mildew while protecting the finish of your welder.

*The following accessories are available through Miller/Hobart Service Distributors.*

**MVP™ Adapter Plugs**



**#219 261**  
For Power Cable 5-15P (115 V/15 A).  
Included with machine.



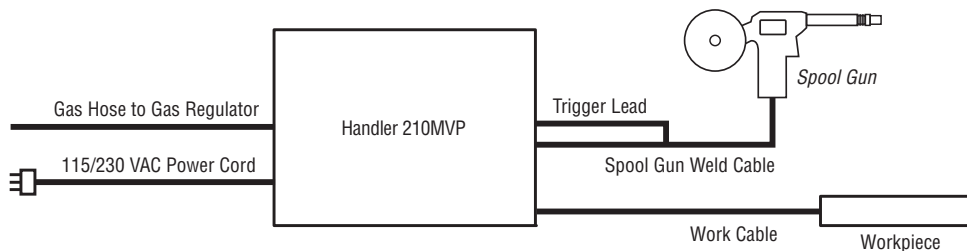
**#219 258**  
For Power Cable 6-50P (230 V/50 A).  
Included with machine.

## Consumables

| Item   | For H100S4-10 Gun/Power Source — Hobart Package Part # | For H100S4-10 Gun — Miller Package Part # | For SpoolRunner 100 — Hobart Package Part # |
|--|--|---|---|
| <b>Contact Tips</b>  |  |   |   |
| .023/.025 in. (0.6 mm)   | #770174 (5 per package)                                | #087 299 (10 per package)                 | #199730 (5 per package)                     |
| .030 in. (0.8 mm)  | #770177 (5 per package)                                | #000 067 (10 per package)                 | #186419 (5 per package)                     |
| .035 in. (0.9 mm)  | #770180 (5 per package)                                | #000 068 (10 per package)                 | #186406 (5 per package)                     |
| .045 in. (1.2 mm)  | #770183 (5 per package)                                | #000 069 (10 per package)                 | —   |
| <b>MIG Nozzle</b>  |  |   |   |
|  | #770404  | #169 715                                  | #186405                                     |
| <b>Gasless Flux-cored Nozzle</b>   |  |   |   |
|  | #770487  | #226 190                                  | —   |
| <b>Tip Adapter</b>   |  |   |   |
|  | #770402  | #169 716                                  | —   |
| <b>Liners</b>  |  |   |   |
| .023/.025 in. (0.6 mm)   | #196139  | #194 010                                  | —   |
| .030/.035 in. (0.8/0.9 mm)   | #196139  | #194 011                                  | —   |
| .035/.045 in. (0.9/1.2 mm)   | #196140  | #194 012                                  | —   |
| <b>Power Source Drive Rolls</b>  |  |   |   |
| Dual-groove, V-smooth —<br>For .023/.025 in. (0.6 mm) and<br>.030–.035 in. (0.8–0.9 mm) wire         | #237338  | —   | —   |
| Dual-groove, V-knurled —<br>For .030–.035 in. (0.8–0.9 mm)<br>and .045 (1.2 mm) flux-cored wire      | #202926  | —   | —   |
| Dual-groove, V-knurled and V-smooth —<br>For .030–.035 in. (0.8–0.9 mm)<br>flux-cored and solid wire | #246565  | —   | —   |
| <b>SpoolRunner 100 Drive Roll</b>  |  |   |   |
| For .023 in. (0.6 mm) wire   | —  | —   | #199731                                     |
| For .030/.035 in. (0.8/0.9 mm) wire  | —  | —   | #186413                                     |
| <b>SpoolRunner 100 Push Roll</b>   |  |   |   |
| For .023 in. (0.6 mm) wire   | —  | —   | #199732                                     |
| For .030/.035 in. (0.8/0.9 mm) wire  | —  | —   | #186414                                     |

## Typical Installation for Optional SpoolRunner™ 100 Spool Gun to Handler® 210MVP

It's quick and easy to install the SpoolRunner 100 Spool Gun on the Handler 210MVP. Just plug the power pin of the spool gun into the feedhead, attach the trigger lead, and flip the switch on the inside panel for spool gun operation. Install the correct wire and gas for the job and its ready to go.



**Hobart Welders** An Illinois Tool Works Company

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