

## How Do I Choose a Welding Process?

Unfortunately, there is no single welding or cutting process for all applications. For this reason, it is necessary to consider the advantages of one process over another.

### MIG (GMAW)

- Easy process to learn
- Better control on thinner metals
- Cleaner welds possible with no slag to remove

### FLUX-CORED (FCAW)

- Easy process to learn
- Great for outdoor use in windy conditions
- Deep weld penetration

### STICK (SMAW)

- Better suited for windy, outdoor conditions
- More forgiving when welding on dirty or rusty metal
- Affordable

### TIG (GTAW)

- Provides highest quality and most precise welds
- Highly aesthetic weld beads
- Allows adjustment of heat input while welding by use of a remote control

### PLASMA ARC CUTTING

- Easy to learn and perform
- Cuts any electrically conductive metal
- Small and precise cut
- Small heat-affected zone which helps prevent warping or paint damage

### AUTO-DARKENING WELDING HELMETS



#### Discovery™ Series GOOD

##### A Great Value for the Occasional Welder

- Lens viewing area – 6.9 square inches
- Variable shade #9–13, light state #4
- 1/12,000 switching speed
- 2 independent arc sensors



#### Impact™ Series BETTER

- Lens viewing area – 7.05 square inches
- Variable shade #8–13, light state #3
- 1/25,000 switching speed
- 3 independent arc sensors



#### PRO Series BEST

##### Professional Performance when You Demand the Best

- Lens viewing area – 9.02 square inches
- Variable shade #8–13, light state #3
- 1/30,000 switching speed
- 4 independent arc sensors



## What Types of Metal Can I Weld?

Metal Type	Welding			Cutting		
	MIG	FCAW	Stick	AC-TIG	DC-TIG	Plasma
Steel	✓	✓	✓	✓	✓	✓
Stainless Steel	✓	✓	✓	✓	✓	✓
Aluminum	✓			✓		✓
Cast Iron			✓			✓
Copper, Brass				✓	✓	✓
Titanium				✓	✓	✓
Magnesium Alloys				✓	✓	✓
All Electrically Conductive						✓
Skill Level	Low	Low	Moderate	High	High	Low

### MIG vs. Flux-Cored

Hobart's line of wire feed welders are designed for easy operation with professional results. Our Handler® series comes ready-to-weld with flux-cored wire, out of the box.

#### MIG (GMAW)

- Use solid wire and shielding gas (required)
- Better control with thin metals
- Cleaner welds
- Welds steel, stainless and aluminum



#### FLUX-CORED (FCAW)

- Use flux-cored wire (no gas required)
- Great for outdoor use
- Deep weld penetration
- Welds steel including dirty, rusted or painted



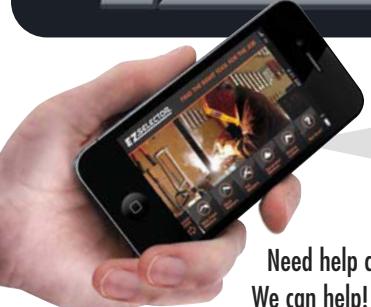
### What Should I Know About Duty Cycle?

Duty cycle is the amount of time during a 10-minute period that the welder can continuously operate at its rated output without causing heat damage to the system. For example, an IronMan 230 has 60% duty cycle at 175 amps of DC output. It can weld for 6 minutes out of 10 and then needs to cool for the remaining 4 minutes.

For applications requiring extensive arc-on time and/or welding at high amperages, choose a welder with a higher duty cycle. If a welder is operated below its rated output, the duty cycle typically increases.

Visit [hobartwelders.com](http://hobartwelders.com) for all your welding needs!

**EZSELECTOR**



Need help choosing the right Hobart?  
We can help! Scan the code above, or visit [hobartwelders.com/products/selector](http://hobartwelders.com/products/selector) to access our interactive step-by-step guide, and find the product that fits your needs.

#### CAN'T FIND IT?

**HOBART**  
WELD SHOP

Visit the Hobart Weld Shop for hard-to-find replacement parts and accessories you need at [hobartweldshop.com](http://hobartweldshop.com)

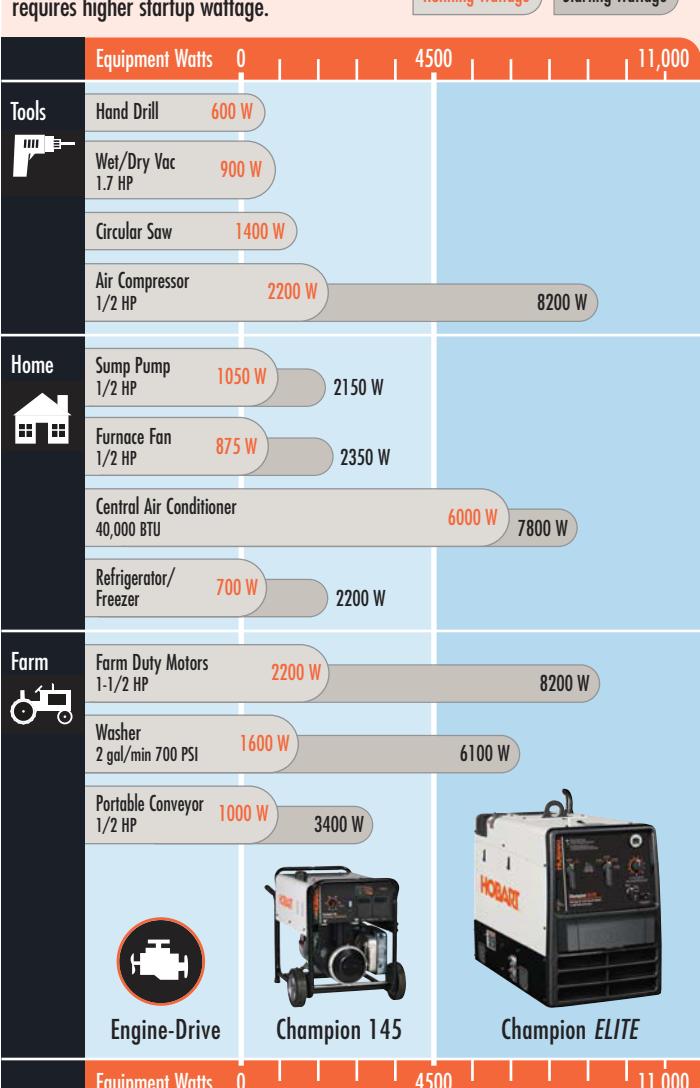
**MORE INFO on the WEB**



- Owner's Manuals
- News/New Products
- Sales and Service Locator
- Download Product Spec Sheets
- Product Registration
- WeldTalk
- Welding 101 (E-Learning)

## How Many Generator Watts Do I Need?

Be aware that some electrical equipment requires higher startup wattage.



### Welding Like a Champ!



Stick weld with either the Champion 145 or Champion ELITE.



Power your wirefeed welder with either the Champion 145 or Champion ELITE generators.

**HOBART**  
2013



### WELDING & CUTTING EQUIPMENT



### FILLER METALS



### TOOLS & HARDWARE



### HELMETS & SAFETY GEAR

#### Professional Performance when You Demand the Best

- Lens viewing area – 9.02 square inches
- Variable shade #8–13, light state #3
- 1/30,000 switching speed
- 4 independent arc sensors

#770753 Black    #770765 Decomposition™

Technical Help: 1-800-332-3281  
Customer Support: 1-800-626-9420



## PLASMA CUTTERS

### AIRFORCE® 250ci



Plasma cutters use an electrical arc and compressed air to cut steel, aluminum and other conductive metals. Hobart's AirForce® models deliver amazing results at an affordable price.

#### PLASMA Accessories



**5/3/1  
INDUSTRIAL  
WARRANTY**

HOBART BROTHERS CO.  
TROY, OHIO USA

**Built-in  
Air Compressor**

#### INCLUDES:

- 16.5-ft. (5 m) hand-held torch and work cable with clamp
- 7-ft. (2.1 m) power cord with 115 VAC, 20 A plug
- Built-in air compressor with filter
- 2 extra electrodes and 2 extra tips

Mild Steel Thickness Range  
Rated Cut 1/8 in.  
Max. Cut 1/4 in.

#500534

#### INCLUDES:

- 16.5-ft. (5 m) hand-held torch and work cable with clamp
- 10-ft. (3 m) power cord with 115 VAC, 15 A and 230 VAC, 50 A plug adaptors
- Built-in gas/air filter and regulator
- 2 extra electrodes, 2 extra tips and 1 air fitting

Mild Steel Thickness Range  
Rated Cut 3/8 in.  
Max. Cut 5/8 in.

#500548

#### INCLUDES:

- 16.5-ft. (5 m) hand-held torch and work cable with clamp
- 10-ft. (3 m) power cord with 230 VAC plug
- Built-in gas/air filter and regulator
- 2 extra electrodes, 2 extra tips and 1 air fitting

Mild Steel Thickness Range  
Rated Cut 5/8 in.  
Max. Cut 7/8 in.

#500546

## WELDER/GENERATORS

### CHAMPION® 145



Our Champion® line of welder/generators provides you with the power you need wherever and whenever you need it. With up to 11,000 watts of generator power (Champion ELITE) you will never be in the dark again.

Features standard 6.25-gal. fuel tank. Cables not included.

145 Amp DC Welder/  
4500 Watt AC Generator

#### RECEPTACLES:

50 A, 240 V  
20 A, 120 V GFCI

Weld Output 40–145 A

Duty Cycle 30% @ 130 A

PROCESS DC STICK: steel, stainless steel, cast iron

#500555

10 HP Briggs & Stratton Intek™

230 V, 20-ft. Extension Cord #770644

No. 2 Stick Cable Set 50 ft. #195195

No. 4 Stick Cable Set 20/15 ft. #193067

Protective Weatherproof Cover #770714 For Champion 145

Running Gear #300997 For current Champion ELITE model #500557

Weld Output (AC) 50–260 A, (DC) 40–225 A

Duty Cycle (AC) 100% @ 225 A, (DC) 100% @ 225 A

### CHAMPION® ELITE



All-in-One 260 Amp AC/  
225 Amp DC Welder/  
11,000 Watt AC Generator

#### RECEPTACLES:

50 A, 120/240 V  
20 A, 120 V GFCI  
50 A, 240 V

Features standard 12-gal. fuel tank. Cables not included.

PROCESS AC/DC STICK: steel, stainless steel, cast iron

#500557

23 HP Kohler Command

230 V, 20-ft. Extension Cord #770644

No. 2 Stick Cable Set 50 ft. #195195

No. 4 Stick Cable Set 20/15 ft. #193067

Protective Weatherproof Cover #770748 For current Champion ELITE model #500557

Running Gear #300997 For current Champion ELITE model #500557

Protective Weatherproof Cover #770748 For current Champion ELITE model #500557

## WIRE FEED WELDERS

### HANDLER® 125

**115 Volt**  
**Single Knob Control**

#### INCLUDES:

- 8-ft. (2.4 m) gun assembly
- 10-ft. (3 m) work cable with clamp
- Sample spool of .030-in. flux-cored wire
- Extra .030-in. contact tips
- Weld set-up chart

Note: Optional regulator #770717 required for MIG welding.

#500521

Mild Steel Thickness Range 18 ga. 3/16 in.

Weld Output 30–125 A

Duty Cycle 20% @ 85 A

**115 Volt**  
**MIG Ready With Built-in Gas Valve**

#### INCLUDES:

- 8-ft. (2.4 m) gun assembly
- 10-ft. (3 m) work cable with clamp
- Sample spool of .030-in. flux-cored wire
- Extra .030-in. contact tips
- Weld set-up chart

Note: Optional regulator #770717 required for MIG welding.

#500495

Mild Steel Thickness Range 24 ga. 3/16 in.

Weld Output 30–125 A

Duty Cycle 20% @ 85 A

### HANDLER® 140

**115 Volt**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500559

Mild Steel Thickness Range 24 ga. 1/4 in.

Weld Output 25–140 A

Duty Cycle 20% @ 90 A

**115 Volt**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500559

Mild Steel Thickness Range 24 ga. 1/4 in.

Weld Output 25–140 A

Duty Cycle 20% @ 90 A

### HANDLER® 190

**230 Volt**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500554

Mild Steel Thickness Range 24 ga. 5/16 in.

Weld Output 25–190 A

Duty Cycle 30% @ 130 A

**230 Volt**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500554

Mild Steel Thickness Range 24 ga. 5/16 in.

Weld Output 25–190 A

Duty Cycle 30% @ 130 A

### HANDLER® 210 MVP

**115 or 230 Volt**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500553

Mild Steel Thickness Range 24 ga. 3/8 in.

Weld Output 25–210 A (230 V), 25–140 A (115 V)

Duty Cycle 30% @ 150 A (230 V), 20% @ 90 A (115 V)

**115 or 230 Volt**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500553

Mild Steel Thickness Range 24 ga. 3/8 in.

Weld Output 25–210 A (230 V), 20% @ 90 A (115 V)

Duty Cycle 30% @ 150 A (230 V), 20% @ 90 A (115 V)

### IRONMAN™ 230

**230 Volt**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500536

Mild Steel Thickness Range 24 ga. 1/2 in.

Weld Output 30–250 A

Duty Cycle 60% @ 175 A

## MIG Accessories

Protective Cover #195186 For Handler models

Protective Cover #770589 For IronMan models

Small Running Gear w/Cylinder Rack #194776 For Handler models

SpoolRunner™ 100 Spool Gun #300796 10-ft. (3 m) cable. Includes rugged plastic carrying case. For Handler 190 and 210 MVP (direct connection)

DP 3545-20 Spool Gun 20-ft. (6 m) cable. For IronMan 230 only (direct connection)

## TREK® 180

**Battery-Powered MIG Welding Package**

**Solid wire, shielding gas OR Flux-cored wire, no gas required**

#500539

Mild Steel Thickness Range 18 ga. 5/16 in.

Weld Output 25–180 A

Duty Cycle 20% @ 120 A

## STICK WELDERS

### STICKMATE® 205 AC

The Stickmate® is the top performer in its class, with a model to fit your budget and welding application.

STICK Accessories

Running Gear #043927 Mounts easily to unit and provides portability. Includes two wheels, two feet and a handle.

Mild Steel Thickness Range 18 ga. 5/16 in.

Weld Output 30–205 A

Duty Cycle 20% @ 165 A

### STICKMATE® 235 AC

### STICKMATE® 235 AC/DC

AC Stick (SMAW) Arc Welding Power Source

STICK Accessories

Running Gear #043927 Mounts easily to unit and provides portability. Includes two wheels, two feet and a handle.

Mild Steel Thickness Range 18 ga. 3/8 in.

Weld Output 30–235 A

Duty Cycle 20% @ 225 A

### STICKMATE® 235 AC/DC

### STICKMATE® 300 AC/DC

AC Stick (SMAW)