



Spark Your IMAGINATION

Stop thinking about the project - and start working on it.

HOW DO I CHOOSE A WELDING OR CUTTING PROCESS?

MIG (GMAW) FLUX-CORED (FCAW) STICK (SMAW)

- MIG (GMAW)**
 - Easy process to learn
 - Better control on thinner metals
 - Cleaner welds possible with less spatter and 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) PLASMA ARC CUTTING OXY-FUEL

- 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 foot control
- PLASMA ARC CUTTING**
 - Easy to learn and perform
 - Cuts any electrically conductive metal
 - Narrow and precise cut
 - Small heat-affected zone, which helps prevent warping or paint damage
- OXY-FUEL**
 - All-in-one tool for cutting, heating and welding
 - Cuts 1/2" or thicker steel efficiently
 - Economical and more portable

WHAT TYPE OF METAL CAN I WELD OR CUT?

METAL TYPE	WELDING						CUTTING
	MIG	FLUX-CORED	STICK (DC)	AC-TIG	DC-TIG	PLASMA	OXY-FUEL
STEEL	✓	✓	✓		✓	✓	✓
STAINLESS STEEL	✓		✓		✓	✓	
ALUMINUM	✓		✓	✓		✓	
CAST IRON			✓			✓	✓
COPPER, BRASS					✓	✓	
TITANIUM					✓	✓	
MAGNESIUM ALLOYS				✓		✓	
ALL ELECTRICALLY CONDUCTIVE						✓	
SKILL LEVEL	LOW	LOW	MODERATE	HIGH	HIGH	LOW	MODERATE

HOW MUCH AUXILIARY POWER DO I NEED?

Be aware that some electrical equipment requires higher startup wattage.

EQUIPMENT WATTS	Running Wattage		Starting Wattage	
	0	5000	0	10000
TOOLS				
Electric Hand Drill (1/2 in.)	600W	900W		
Wet/Dry Vacuum (1.7 hp)	900W	2,300W		
Circular Saw (7-1/4 in.)	1,400W	2,300W		
Air Compressor (1 hp)	1,600W	4,500W		
FARM				
Farm-Duty Motors (1-1/2 hp)	2,200W	8,200W		
Washer 2 gal/min (700 PSI)	1,600W	6,100W		
Portable Conveyor (1/2 hp)	1,000W	3,400W		



Engine-Driven Welder



Champion® 145
4,500W starting / 4,000W running



Champion® Elite 225
10,000W starting / 9,500W running

COMMON STICK ELECTRODES

AWS Class	Position	Polarity	Usage
6011	ALL	AC, DCEN, DCEP	All-purpose stick electrode; used for carbon and galvanized steel; 60,000 PSI tensile strength; deep penetrating and ideal for welding light to medium amounts of dirty, rusty, painted metals
6013	ALL	AC, DCEN, DCEP	Light to medium penetrating all-purpose stick electrode; for use on carbon steel; 60,000 PSI tensile strength; good for general, all-purpose applications and joints with poor fit-up
7018	ALL	AC, DCEP	Low-hydrogen electrode; for low-, medium- and high-carbon steels; 70,000 PSI tensile strength; ideal for out-of-position welding and tacking; not recommended for low-voltage AC welders
7018 AC	ALL	AC, DCEN, DCEP	Low-hydrogen electrode; for low-, medium- and high-carbon steels; 70,000 PSI tensile strength; ideal for out-of-position welding and tacking; not recommended for low-voltage AC welders; specially formulated to operate with small 208/230 volt AC welders

Stick Welding Tips

1. Take precautions with flying materials when chipping slag. Always wear proper personal protective equipment including safety glasses.
2. Keep electrodes clean and dry - follow manufacturer's recommendations.
3. Penetration: DCEN - Least penetration, AC - medium (can be more spatter also), DCEP - most penetration.

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™ 240 has 60% duty cycle at 200 amps of DC output. At rated output, it can weld for approximately 6 continuous 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.

Ambient temperature and ventilation can increase or decrease duty cycle. Refer to owners manual or spec sheets for duty cycle charts and more information.



MIG WIRE FEED WELDERS

Easy to use. Ready to take on all kinds of work. There's a Hobart® MIG or flux-cored wire welder that's a great fit for you — and almost any project you can imagine.

Handler® 140EZ #500559



EZ MODE™

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

120 VOLT
MIG OR Flux-cored
Duty Cycle 30% @ 90A
Weld Output 30 - 140A



SPOOL GUN READY

Mild Steel Thickness Range
115V 1/4 in.
230V 3/8 in.
24 ga. 1/4 in.

115 or 230 VOLT
MIG OR Flux-cored
Duty Cycle 30% @ 150A (230V), 20% @ 90A (115V)
Weld Output 25-210A (230V), 25-140A (115V)

Handler® 190 #500554 WITH SPOOL GUN #500554001



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



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

Handler® 125 #500573



MIG CAPABLE WITH BUILT-IN GAS VALVE

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

120 VOLT
MIG OR Flux-cored
Duty Cycle 25% @ 80A
Weld Output 25-130A

*Gas regulator and hose not included.

Handler® 210MVP™ #500553



SPOOL GUN READY

Mild Steel Thickness Range
115V 1/4 in.
230V 3/8 in.
24 ga. 1/4 in.

115 or 230 VOLT
MIG OR Flux-cored
Duty Cycle 30% @ 150A (230V), 20% @ 90A (115V)
Weld Output 25-210A (230V), 25-140A (115V)

AirForce® 27i #500575



WITH Multi-Voltage Plug™ (120/240V)

Maximum Mild Steel Thickness Range
Rated Cut (Clean/Smooth) Max. Cut (Sever/Rough)
120V 5/16 in.
240V 3/8 in.
120V 3/8 in.
240V 5/8 in.

120 or 240 VOLT
Rated Output 120V (15A): 20A @ 88
120V (20A): 27A @ 92
240V: 30A @ 92



ENGINE DRIVEN WELDERS

Get reliable AC auxiliary power and DC stick welding — anywhere, any time.

Champion® Elite 225 #500580



11-GAL. FUEL TANK

Mild Steel Thickness Range
1/8 in. 1/2 in.

9,500 Continuous/10,000 Peak
Receptacles: 50A, 240V; 50A, 120/240V
Process: DC STICK
Duty Cycle 100% @ 225A
Weld Output 40-225A
Briggs Vanguard Engine, Cables not included.

Handler® 125 #500573



MIG CAPABLE WITH BUILT-IN GAS VALVE

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

120 VOLT
MIG OR Flux-cored
Duty Cycle 25% @ 80A
Weld Output 25-130A

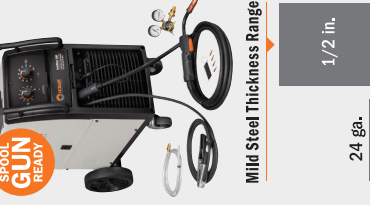
*Gas regulator and hose not included.

Handler® 190 #500554 WITH SPOOL GUN #500554001



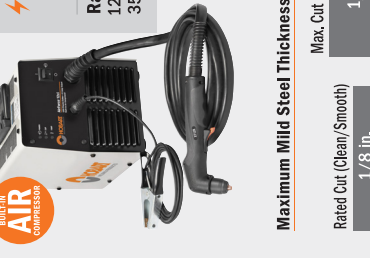
Mild Steel Thickness Range
24 ga. 1/2 in.

IronMan™ 240 #500574 WITH SPOOL GUN #500574001



240 VOLT
MIG OR Flux-cored
Duty Cycle 60% @ 200A
Weld Output 30-280A

AirForce® 12ci #500564



120 VOLT
Rated Output 12A @ 110 VDC, 35% Duty Cycle
Maximum Mild Steel Thickness Range
Rated Cut (Clean/Smooth) Max. Cut (Sever/Rough)
120V 1/8 in.
240V 3/8 in.

AirForce® 40i #500576



120 or 240 VOLT
Rated Output 120V (15A): 20A @ 88
120V (20A): 27A @ 91
240V: 40A @ 140
Maximum Mild Steel Thickness Range
Rated Cut (Clean/Smooth) Max. Cut (Sever/Rough)
120V 5/8 in.
240V 7/8 in.

Champion® 145 #500563



6.25-GAL. FUEL TANK
Mild Steel Thickness Range
1/8 in. 1/4 in.

STICK WELDER
Portable, reliable performance. Ideal for fast, durable repairs.
Stickmate® 160 #500585
120 or 240 VOLT
Duty Cycle 120V 15% @ 80A
240V 15% @ 160A
Weld Output 120V 10-80A
240V 10-160A
Maximum Mild Steel Thickness (best performance at 100, 100A and 120V)



AUTO-DARKENING WELDING HELMETS

Pillar™ Series

Fundamental helmet with an expanded viewing area and long-lasting battery for all-day performance



2-YEAR WARRANTY
> 2 Arc Sensors
> #10 Shade
> PURECOLOR™ Lens

Creator™ Series

Versatile helmet with sensitivity and delay controls to perform in any welding environment



2-YEAR WARRANTY
> 3 Arc Sensors
> #9-13 Shade
> PURECOLOR™ Lens

Inventor™ Series

High-performance helmet with large viewing area and four arc sensors for improved visibility and weld quality



2-YEAR WARRANTY
> 4 Arc Sensors
> #9-13 Shade
> PURECOLOR™ Lens



MULTIPROCESS WELDER

Get MIG, DC TIG and Stick welding capabilities in one machine

Multi-Handler® 200 #500578



120 or 240 VOLT
WITH Multi-Voltage Plug™ (120/240V)
SPOOL GUN READY
Mild Steel Thickness Range
MIG: 24 ga. 3/8 in.
TIG: 22 ga. 3/16 in.
Stick: 16 ga. 3/8 in.

Duty Cycle (240V)
30% @ 165A MIG/TIG
30% @ 140A STICK
Weld Output 20-140A (120V), 20-200A (240V)



OXY-FUEL EQUIPMENT

Medium-Duty Outfit #770502

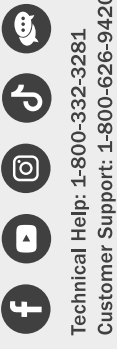
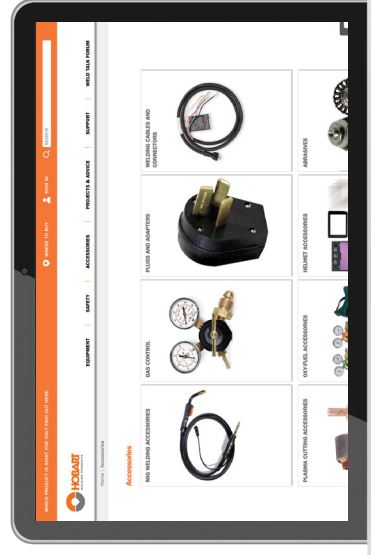


> Designed for cutting and welding use with Acetylene fuel gas
> Cuts up to 1/2 inch (13mm) thick metal
> Welds up to 3/32 inch (2.4 mm) metal

LEARN MORE

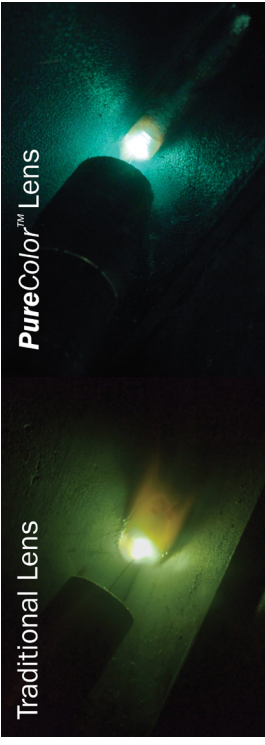
VISIT HOBARTWELDERS.COM

To find more products, accessories, and welding tips/tricks to help with your latest projects.



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

Traditional Lens



PURECOLOR™ LENS TECHNOLOGY

Optimal Visibility. Uninterrupted Performance.

Lack of visibility and inaccurate color can compromise performance. With PureColor™ Lens Technology, you'll experience a brighter view with accurate color and clarity.

PureColor™ Lens

