

# Blue Star® 185

Gas Engine-Driven  
Welder



## QUICK SPECS

### Industrial Applications

Maintenance and repair  
Farm/ranch applications  
Construction  
Service trucks

### Processes

Stick (SMAW)  
DC TIG (GTAW)  
Air plasma cutting and gouging  
with optional Spectrum® models

**Output Range** 60–195 A

**Auxiliary Power Output Rated at 104°F (40°C)**

6,500 watts peak, 6,200 watts continuous

**Net Weight** 296 lb. (134 kg)

Reliable outdoor portable power —  
great for farm, ranch, maintenance and construction.

**Large 6.25-gallon fuel capacity** leads its class. Longer run time for welder or auxiliary power usage. See page 2 for fuel consumption data.

**Electric start** for easy engine start-up.

**Auto idle** idles engine while not in use. Reduces fuel consumption and noise.

**Engine controls on front panel** for engine switch, idle control and choke cable.

**Hour meter** provides easy tracking of run hours for maintenance intervals.

**Compact and mobile.** With a small footprint, the Blue Star uses little truck space. Optional running gear is designed for easy on-site mobility.



**Class-leading 6,500-watt peak power** of regulated power to extend power tool life.

**Accu-Rated™ peak auxiliary power** is usable for maximum auxiliary power loads such as plasma cutting, Millermatic® MIG welders and motor starting.

**Single-range amperage control** makes setting amperage levels easy.

**Quick-reference parameter chart** provides convenient amperage setting guidance.

**120-volt GFCI and 240-volt receptacles** provide power for jobsite tools. Receptacles are circuit-breaker protected.

**Receptacle covers** improve reliability by protecting receptacles from debris.

**Reliable air-cooled OHV engine** ensures consistent engine performance.

**TRUEBLUE®**  
3YR. WARRANTY

Engine-driven welder is warranted for three years, parts and labor.  
Engine is warranted separately by the engine manufacturer.



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An ITW Welding Company  
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**MillerWelds.com**



# Specifications (Subject to change without notice.)



| WELDING MODE | WELDING PROCESS | AMPERAGE RANGE | RATED WELD OUTPUT AT 104°F (40°C)*                              | SINGLE-PHASE AUXILIARY POWER   | DIMENSIONS   | NET WEIGHT WITHOUT FUEL |
|--------------|-----------------|----------------|---|--|--|-------------------------|
| CC/DC        | DC stick/TIG    | 60–195 A       | 185 A at 25 V, 20% duty cycle<br>150 A at 25 V, 100% duty cycle | Peak: 6,500 watts<br>Continuous: 6,200 watts<br>120/240 VAC, 40/26 A | H: 24.75 in. (629 mm)<br>W: 20.625 in. (524 mm)<br>D: 31.25 in. (794 mm) | 296 lb. (134 kg)        |

\*Rated at sea level.

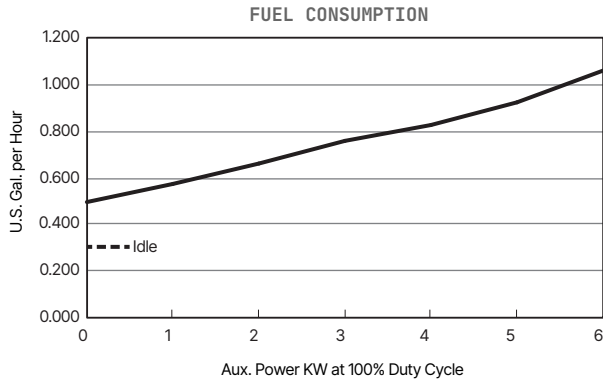


Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

## Engine Specifications (Engines warranted separately by the engine manufacturer.)

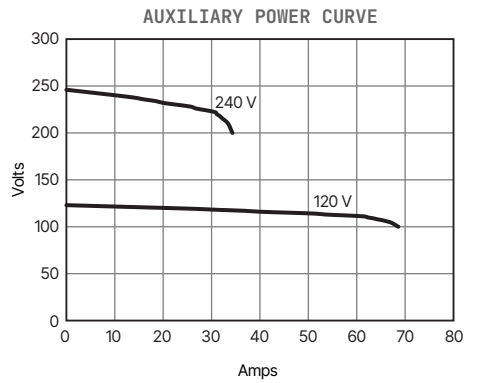
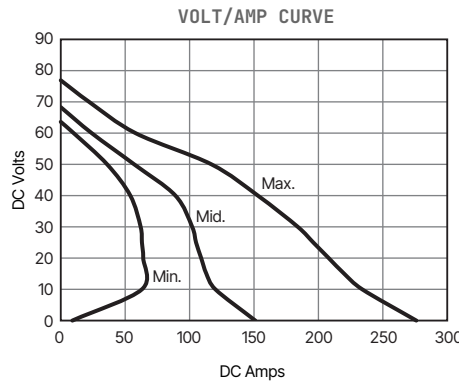
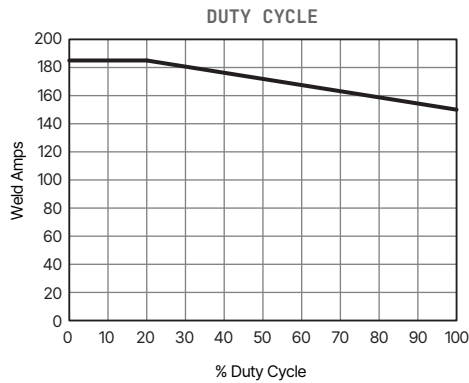
| ENGINE BRAND AND WARRANTY        | HORSEPOWER (HP)      | TYPE   | ENGINE SPEEDS                    | FUEL CAPACITY         | OIL CAPACITY       | STANDARD SHUTDOWNS |
|----------------------------------|----------------------|--|----------------------------------|-----------------------|--------------------|--------------------|
| Rehiko CH440,<br>3-year warranty | 13.4 hp at 3,600 rpm | One-cylinder, four-cycle overhead valve, industrial air-cooled, gasoline | 3,750 rpm<br>(2,500 rpm at idle) | 6.25 gal.<br>(23.7 L) | 1.4 qt.<br>(1.3 L) | Low oil level      |

## Performance Data

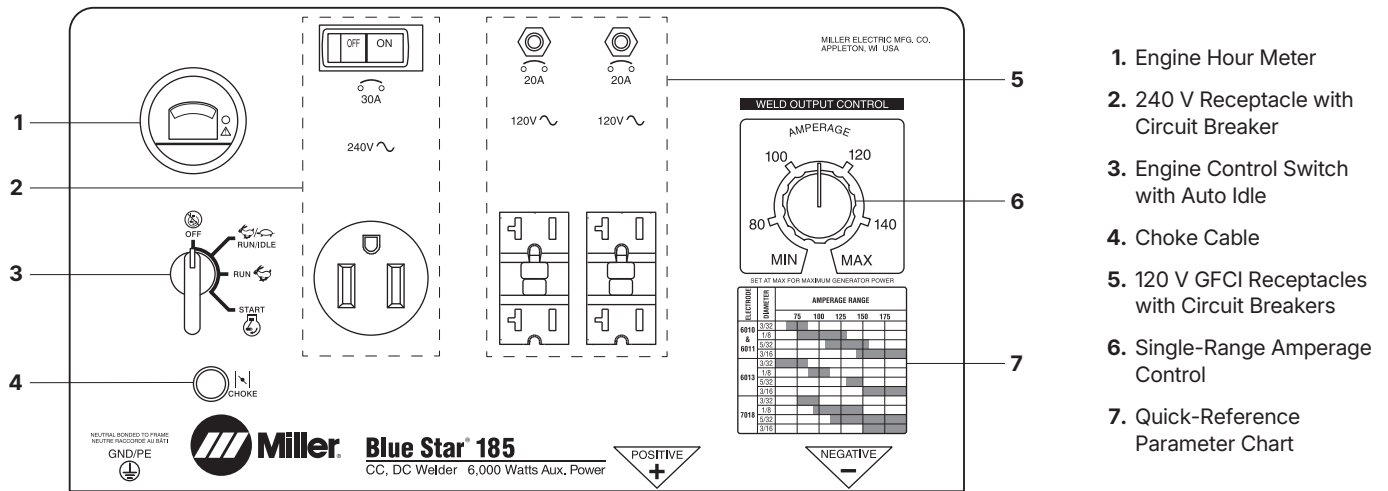


### Fuel Consumption Data

- 6.25-gallon fuel capacity.
- Under a continuous load of 3,000 watts of auxiliary power, the Blue Star 185 will run for about 7.5 hours.
- Welding at 130 amps (at 30 percent duty cycle), the Blue Star 185 will run for about 12.8 hours of operation.



# Control Panel



1. Engine Hour Meter
2. 240 V Receptacle with Circuit Breaker
3. Engine Control Switch with Auto Idle
4. Choke Cable
5. 120 V GFCI Receptacles with Circuit Breakers
6. Single-Range Amperage Control
7. Quick-Reference Parameter Chart

# Power Usage Guide

The auxiliary power is designed to provide **strong power** while keeping the voltage within 10 percent of 120/240 V. 120/240 V  $\pm$ 10 percent is the range where tools and motors are designed to operate. **This increases tool/motor performance and tool/motor life.**

## Typical Contractor Tools

| TOOL                              | STARTING WATTS | RUNNING WATTS |
|-----------------------------------|----------------|---------------|
| <b>Hand Drill</b>                 |                |               |
| 1/4 inch                          | 350            | 350           |
| 1/2 inch                          | 600            | 600           |
| <b>Circular Saw</b>               |                |               |
| 6-1/2 inch                        | 500            | 500           |
| 8-1/4 inch                        | 1,400          | 1,400         |
| <b>Table Saw (10 inch)</b>        | 6,300          | 1,800         |
| <b>Band Saw (14 inch)</b>         | 2,500          | 1,100         |
| <b>Air Compressor</b>             |                |               |
| 1/2 hp                            | 3,000          | 1,000         |
| 1-1/2 hp                          | 8,200          | 2,200         |
| <b>Electric Chain Saw</b>         |                |               |
| 1/2 hp, 12 inch                   | 1,100          | 1,100         |
| 2 hp, 14 inch                     | 1,100          | 1,100         |
| <b>Flood Lights</b>               |                |               |
| HID                               | 125            | 100           |
| Metal halide                      | 313            | 250           |
| Mercury                           | 1,000          | —             |
| Vapor                             | 1,250          | 1,000         |
| <b>Submersible Pump (400 gph)</b> | 600            | 200           |
| <b>Centrifugal Pump (900 gph)</b> | 900            | 500           |
| <b>High Pressure Washer</b>       |                |               |
| 1/2 hp                            | 3,150          | 950           |
| 1 hp                              | 6,100          | 1,600         |
| <b>Wet and Dry Vac (1.7 hp)</b>   | 900            | 900           |

## Typical Farm Equipment

| MACHINE   | STARTING WATTS | RUNNING WATTS |
|---|----------------|---------------|
| <b>Portable Conveyor (1/2 hp)</b>   | 3,400          | 1,000         |
| <b>Farm Duty Motors</b><br>(e.g. conveyors, feed augers<br>air compressors) |                |               |
| 1/3 hp  | 1,720          | 720           |
| 1-1/2 hp  | 8,200          | 2,200         |
| <b>Washer (2 gal/min.)</b>  |                |               |
| 550 psi   | 4,500          | 1,400         |
| 700 psi   | 6,100          | 1,600         |

## Typical Industrial Motors

| MOTOR                                      | STARTING WATTS | RUNNING WATTS |
|--|----------------|---------------|
| <b>Split Phase</b>                         |                |               |
| 1/8 hp                                     | 800            | 300           |
| 1/2 hp                                     | 3,175          | 875           |
| <b>Capacitor Start —<br/>Induction Run</b> |                |               |
| 1/3 hp                                     | 2,020          | 720           |
| 1-1/2 hp                                   | 8,200          | 2,200         |
| <b>Capacitor Start —<br/>Capacitor Run</b> |                |               |
| 1-1/2 hp                                   | 8,100          | 2,000         |
| <b>Fan</b>                                 |                |               |
| 1/8 hp                                     | 1,000          | 400           |
| 1/2 hp                                     | 3,500          | 1,100         |

# Genuine Miller® Accessories



**Running Gear 301246**  
Compact, balanced, lightweight, wheelbarrow-style running gear designed for easy on-site mobility.



**Lifting Eye 195353**  
Secure lift point when picking up machine.

**Protective Cover 301245**  
Blue with logo. Attractive, mildew-resistant, odor-free, water-resistant cover protects your machine's finish.

**Spark Arrestor Kit 301244**  
Mandatory when operating on California grasslands, brush, or forest-covered land, and all national forests. For other areas, check your state and local laws.

**Receptacle Kit 088297**  
6-foot cord with NEMA 6-50P plug to adapt to any 240 V application.

**240 V Electrical Plug 213380**  
For use with 240 V receptacle.

**Engine Tune-Up Kit 268469** Field  
For Rehlko CH440. Includes spark plug and engine air filter.

**Weld Cables 300836**  
Consists of 50-foot (15.2 m), No. 2 electrode cable with insulated electrode holder and lug, and 50-foot (15.2 m) No. 2 work cable with clamp and lug.



**Spectrum® 375 X-TREME™ 907529**  
Comes complete with protective X-CASE™ (not shown). See literature PC/9.2.

## Ordering Information

| EQUIPMENT                 | STOCK NO.     | DESCRIPTION   | QTY. | PRICE |
|---------------------------|---------------|---|------|-------|
| <b>Blue Star® 185</b>     | <b>907664</b> | Rehlko engine, with 120 V GFCI receptacles  |      |       |
| <b>Accessories</b>        |               |   |      |       |
| Running Gear              | <b>301246</b> | Balanced running gear for easy transport  |      |       |
| Lifting Eye               | <b>195353</b> | Provides safe and secure lifting of machine   |      |       |
| Protective Cover          | <b>301245</b> | Blue with logo  |      |       |
| Spark Arrestor Kit        | <b>301244</b> |   |      |       |
| Receptacle Kit            | <b>088297</b> | 6 ft. cord with 240 V plug  |      |       |
| 240 V Electrical Plug     | <b>213380</b> | For use with 240 V receptacle   |      |       |
| Engine Tune-Up Kit        | <b>268469</b> | Field. Includes spark plug and engine air filter  |      |       |
| <b>Stick Accessories</b>  |               |   |      |       |
| Weld Cables               | <b>300836</b> | Includes 50 ft. No. 2 electrical cable and holder, 50 ft. work cable with clamp and lug |      |       |
| <b>Plasma Accessories</b> |               |   |      |       |
| Spectrum® 375 X-TREME™    | <b>907529</b> | 120–240 V, 12 ft. torch. See literature PC/9.2  |      |       |

DATE: TOTAL QUOTED PRICE:

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