

# Trailblazer® 330 Diesel

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Diesel Engine-Driven  
Welder



## Quick Specs

### Industrial Applications

Fabrication  
Maintenance  
Repair  
Structural steel work  
Sheet metal  
Pipe

### Processes

Stick (SMAW)  
MIG (GMAW)\*  
Flux-cored (FCAW)\*  
DC TIG (GTAW)  
Air carbon arc (CAC-A) cutting and gouging  
Rated: 3/16-inch carbons  
Capable: 1/4-inch carbons  
Air plasma cutting and gouging  
with optional Spectrum® models

\*With wire feeder.

**Output Range** DC stick 20–330 A  
MIG/flux-cored 15–40 V  
DC TIG 20–330 A

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

12,000 watts peak, 10,500 watts continuous

### Excel™ Power (option)

2,400 watts (120 V, 20 A) 60 Hz pure sine power at all speeds

### Battery Charge/Crank Assist (option)

Battery charge 12/24 V, 150 A Crank assist 12/24 V, 300 A

**Reliable engine-driven welders with unbeatable arc performance,  
providing the smoothest, most stable arc in the industry.**

The Trailblazer exclusive technologies — advanced Auto-Speed™ and optional Excel™ power — deliver superior runtimes, increase fuel efficiency, and improve engine-driven welder performance.

No other compact machine in the 300-amp class delivers more welding power or more auxiliary power with better fuel efficiency and less noise — for productive, profitable, quieter jobsites.

### WIRELESS INTERFACE CONTROL



Full control of  
your machine in  
the palm of your  
hand. See page 3.

### DYNAMIC DIG™

Optimized arc control  
for stick welding  
applications.  
See page 2.

### ArcReach®

Parameter control at the wire  
feeder or pendant without  
needing a control cord. See page 2.



Trailblazer 330 Diesel with ArcReach and optional  
Excel power and battery charge/crank assist shown.



**Easy to use**  
Digital interface  
speeds machine  
setup and makes it  
less complicated.



**Exceptional arc  
performance**  
Easy arc starts and  
less spatter.



**Easy maintenance**  
With its intuitive  
design, the daily  
maintenance of our  
Trailblazer engine-  
driven welder is fast  
and easy.



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



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[MillerWelds.com](http://MillerWelds.com)



# The Trailblazer® Advantage

## Dynamic DIG™ technology



**Ultra-adaptive arc control.** Unlike conventional DIG that provides a preset amount of short-clearing current, Miller-exclusive Dynamic DIG technology works on a time-based algorithm that automatically adjusts the amount of current required to clear a short. Delivers a smoother more consistent arc that can be tailored to match application, material, fit-up and welder technique.

## ArcReach® technology



**Parameter control at the wire feeder or pendant without needing a control cord.**

An ArcReach system allows you to change weld settings from your ArcReach feeder or stick/TIG remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information between the feeder or stick/TIG remote and the power source. This technology eliminates the need for control cords, and their associated problems and costs.

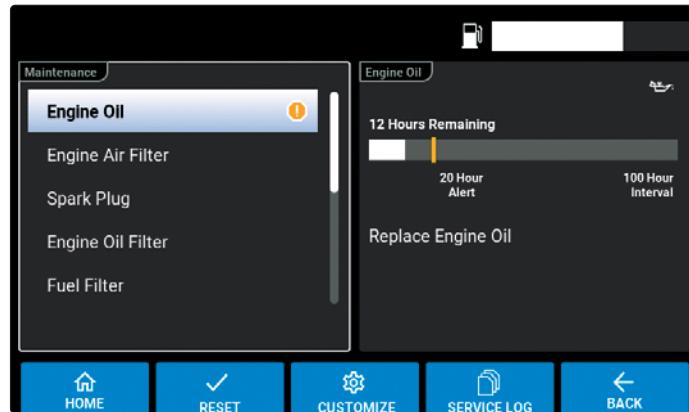
## Auto-Set™ technology

Auto-Set offers predefined weld settings to increase ease of use and ensure that the job is done right for operators of all skill levels.



## Data visibility

Predictive maintenance information helps you plan necessary service time. Productivity screens make it easier for you to monitor machine use.



## Direct spool gun connection

Make it easy to weld aluminum. Expand the types of jobs you can take on. Adapters are no longer required with the integrated 10-pin connection. Optimized for Spoolmate™ and Spoolmatic® spool guns.



# The Trailblazer® Advantage

## Advanced Auto-Speed™ technology

**Matches engine speed to load — a Miller exclusive.** Get the welding power you need — plus reduced fuel consumption and lower noise levels for a more profitable jobsite.

Advanced Auto-Speed technology automatically varies engine speed from 2,400 – 3,600 rpm to match battery charge and weld demands — reducing fuel consumption, maintenance costs and noise for a safer, more efficient jobsite.

## Long runtimes

Large 11-gallon fuel capacity means many hours of run time before refueling. Improved fuel system design reduces a no-start condition if overfilled.

## Auxiliary power quality

Trailblazer 330 engine-driven welders produce auxiliary power with four percent total harmonic distortion.

## Typical equipment power usage

Trailblazer engine-driven welders will easily start and run the following:

Equipment	Starting Watts	Running Watts
<b>Barn Cleaner (5 hp)</b>	11,600	3,000
<b>Silo Unloader (5 hp)</b>	12,200	4,300
<b>Portable Conveyor (1/2 hp)</b>	3,400	1,000
<b>Milker (5 hp)</b>	10,500	2,800
<b>Hand Drill (1/2 inch)</b>	600	600
<b>Circular Saw (8-1/4 inch)</b>	1,400	1,400
<b>Air Compressor (1-1/2 hp)</b>	8,200	2,200
<b>Flood Lights (Vapor)</b>	1,250	1,000
<b>Spectrum® 625 X-TREME™</b> (30 A, 230 V, 1/2-inch cut)	6,900	6,900

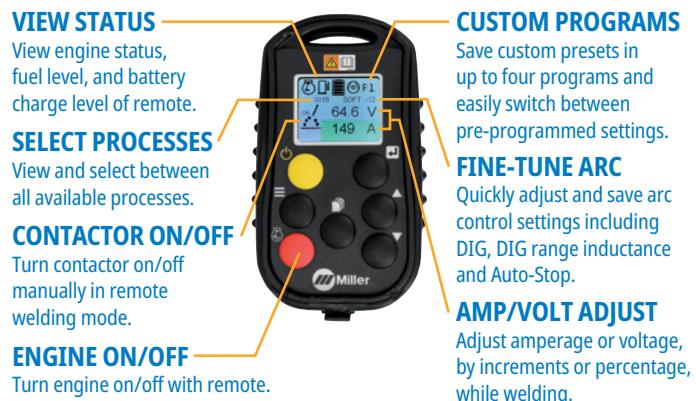
*To size a unit that has enough power output in watts, add the watts for the items you want to simultaneously run. Tools with induction motors may require three to seven times the listed wattage when starting. All data listed is approximate — check your tool for specific wattage requirements.*

## Wireless interface control (option)

**WIRELESS INTERFACE CONTROL**  Get full control of your machine in the palm of your hand so you can work hassle free.

With wireless interface control, you can change welding processes, adjust parameters, select and save preset programs, turn the machine on/off, get service reminders and more from wherever you are on the jobsite. Extend time between fill ups and maintenance intervals while eliminating the need to go back to your machine to make adjustments.

Wireless interface control is a factory-installed option available on select models.



## Excel™ power (option)

**Power at idle — a Miller exclusive.** Unlike competitive machines that provide auxiliary power only at 3,600 rpm (max), Excel power delivers a full 2,400 watts (20 A) of 120-volt inverter-based, pure sine-wave power at idle. With Excel power you can operate jobsite tools like grinders at quiet, fuel-saving speeds.

Refueling time and operating costs are reduced with Excel power, which means more productivity and profitability. Plus everyone on the jobsite gets a better working environment because noise levels and exhaust emissions are lowered. Excel power — available only from Miller.

## Battery charge/crank assist (option)

**Reduce downtime with battery charge/crank assist capability.** Designed and recommended for mechanics or anyone else responsible for a fleet of trucks or equipment. By using your Trailblazer to charge dead batteries or jump a stubborn engine, you'll keep your crew working and the fleet up and running.

*Note: Battery charge/jump cables (300422) must be ordered separately.*

Welding Mode	Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C)*	Single-Phase Auxiliary Power	Sound Levels at 7 m (23 ft.)	Dimensions	Net Weight**
CC/DC	Stick/TIG	20–330 A	330 A at 31 V, 100% duty cycle	<b>Peak</b> 12,000 watts <b>Continuous</b> 10,500 watts <b>Excel™ power (optional)</b> 2,400 watts, 20 A at 120 V, 60 Hz pure auxiliary power at idle speed and while welding	<b>Weld</b> Idle: 74.7 dB (99.9 Lwa) 330 A load: 80.2 dB (105.4 Lwa) <b>Auxiliary power</b> Excel power: 74.3 dB (99.5 Lwa) 12 kW standard power: 80.2 dB (105.4 Lwa)	H: 27.02 in. (686 mm) H: 32.41 in. (823 mm) (to top of exhaust) W: 20.6 in. (523 mm) D: 45.72 in. (1,161 mm)	611 lb. (277 kg)
CV/DC	MIG/FCAW	15–40 V	330 A at 30.5 V, 100% duty cycle				
Battery charge/ crank assist (optional)	12/24 V	Charge: 150 A Crank assist: 300 A					

\*Rated at sea level. \*\*Net weight without fuel.

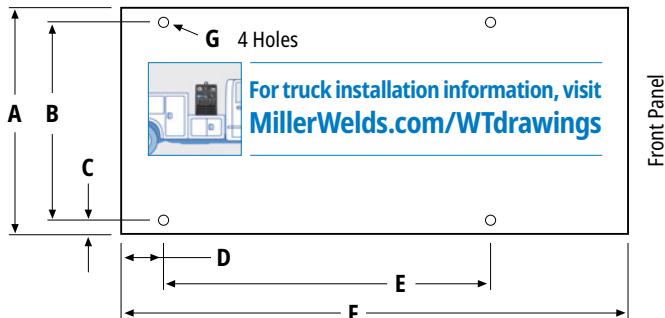


Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

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

Engine Brand and Warranty	Horsepower (HP)	Type	Weld Speed	Idle Speed	Fuel Capacity	Oil Capacity	Standard Shutdowns
Kubota D902, 2-year limited North American warranty	24.8 hp at 3,600 rpm	Three-cylinder, liquid-cooled industrial engine	Advanced Auto-Speed™ varies between 2,400–3,600 rpm	2,400 rpm	11 gal. (41.6 L)	3.8–4.0 qt. (3.6–3.8 L)	High coolant temperature/ low oil pressure/low fuel

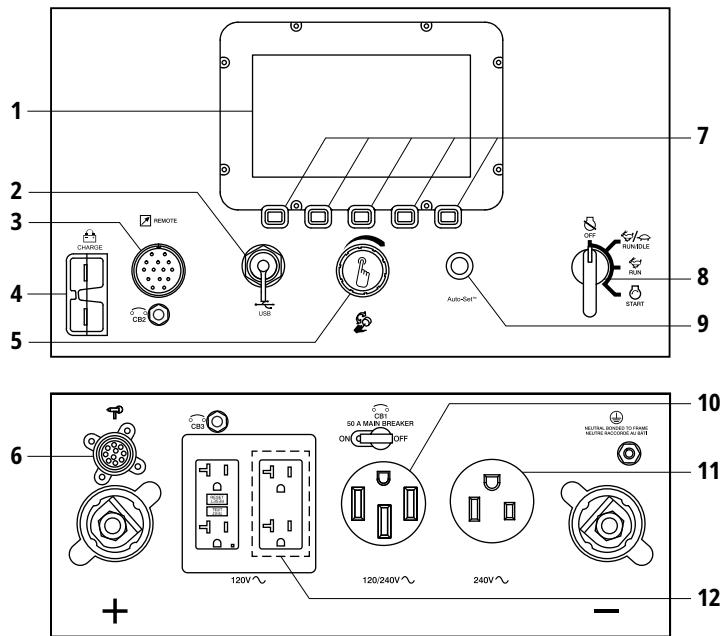
## Mounting Specifications



Front Panel

- A. 20.6 in. (523 mm)
- B. 16.5 in. (419 mm)
- C. 1.67 in. (42.4 mm)
- D. 6.56 in. (167 mm)
- E. 30.5 in. (775 mm)
- F. 45.72 in. (1,161 mm)
- G. .406 in. (10.3 mm) diameter

# Function and Benefit Guide



1. **Digital display** provides weld process and parameters, fuel level, maintenance and machine use information.
2. **USB port** allows software updates from a USB drive. A summary file of recorded data from the unit will be saved to a USB drive that is inserted.
3. **Standard 14-pin receptacle** for simple connection of remote controls and wire feeders. Includes **Auto Remote Sense™** which automatically switches from panel to remote amperage/voltage (A/V) control with remote connected. Eliminates confusion of a panel/remote switch.
4. **Optional battery charge/crank assist receptacle.**
5. **Pushbutton main control knob** used for adjusting amperage/voltage and accessing the service menu.
6. **Standard 10-pin receptacle** for simple connection of spool guns. See page 7.
7. **Pushbuttons** used for selection of weld process, menu and other machine features.
8. **Engine control switch** is used to start the engine and then select between auto idle and high speed lock positions.
9. **Auto-Set™ button** provides process-specific pre-defined parameters.
10. **120/240 V receptacle with circuit breaker.**  
(For matching plug, order 119172.)
11. **240 V receptacle with circuit breaker.**
12. **Optional Excel™ power (factory option, see page 8)**  
provides pure auxiliary power at idle speed and while welding.

*Note: If Trailblazer is ordered without Excel power option, unit is shipped with two 20A, 120V duplex receptacles with circuit breakers and ground fault.*

## Genuine Miller® Options

### Cold Weather Kit 301736 Field

Includes block heater for improved starting, and a fuel heater for optimal filtration in cold temperatures.

### Spark Arrestor 043579 Field

Mandatory when operating on California grass-lands, brush or forest-covered land, and all national forests. For other areas, check your state and local laws.



Female Receptacle

### Full KVA Adapter Cord 300517 Field

NEMA 14-50P to NEMA 6-50R. Adapts engine drive 120/240 V plug to common Millermatic® and Spectrum® 240 V plug.



Full KVA Plug 119172 Field  
120/240 V, 50 A plug (NEMA 14-50P)  
to fit full KVA receptacle.

### Diesel Engine Filter Kit 259935 Field

Includes air filter, oil filter, fuel pre-filter and primary fuel filter.

## Genuine Miller® Accessories



### Never Flat™ Tires

Available on Bobcat and Trailblazer running gear.

- Reduce costly jobsite downtime
- Maintain constant tire pressure and will not develop flats
- Protect against punctures
- Preserve maneuverability, even when weighed down with heavy welding cable



### Multi-Terrain Running Gear with Never Flat Tires 301717

Includes two heavy-duty 15-inch tires, two 8-inch

rubber swivel casters and a heavy-duty handle. Recommended for all surfaces and applications, and is easy to move around the jobsite.



### Protective Cage with Cable Holders 301718

Rugged cage with cable holders protects your investment. Can be

used with running gear, gas cylinder mounting assembly, or trailer.



### 25-foot Battery Charge/Jump Cables with Plug 300422



### Protective Covers

#### 301731

For use **without** protective cage or running gear (shown)

#### 301729

For use **with** protective cage and/or running gear

Heavy-duty, water- and mildew-resistant covers protect and maintain the finish of the welder.



### Sun Shade 301714

Compatible with all Bobcat™ 265 and Trailblazer® 330 engine-driven welders.



### Screen Protector Kit 301742

Compatible with all Bobcat™ 265 and Trailblazer® 330 engine-driven welders.



### Wireless Interface Control Replacement Kit 288137 Field

Replacement kit for wireless interface control machines. NOT compatible with machines

that are not equipped with wireless interface control. Includes replacement remote, magnetic lanyard, USB charger, 110-volt adapter, and two screen protectors.

### Wireless Interface Control Protective Covers 287594

Five-pack of screen protectors for wireless interface control remote.

## MIG/Flux-cored Welding



### Millermatic® 142 907838

See literature DC/12.41

### Millermatic® 211 907614

See literature DC/12.58

The Millermatic line of MIG welders are complete arc welding power source, wire feeder and gun packages designed for portability and ease of use.

*Note: The Millermatic machines can be operated utilizing auxiliary power.*



### ArcReach® SuitCase® 8

951726001 With Bernard® BTB Gun 300 A

951727 With Bernard® S-Gun™

951728 With Bernard® Dura-Flux™ gun

### ArcReach® SuitCase® 12

951729001 With Bernard® BTB Gun 300 A

951730 With Bernard® S-Gun™

951731 With Bernard® Dura-Flux™ gun

Portable feeder designed to run off of arc voltage. See literature M/6.55.

## Genuine Miller® Accessories (Continued)

### MIG/Flux-cored Welding (cont.)



**SuitCase® 12RC  
Wire Feeder 951580001**  
Lightweight and flexible enough to run wires up to .062-inch diameter. Includes remote voltage control, drive roll kit and Bernard® BTB Gun 300 A. See literature M/6.5.



**Spoolmatic® 30A  
Spool Gun 130831**  
Rated at 200 amps, 100 percent duty cycle with 30-foot (9 m) cable. See literature M/1.73.



**Spoolmate™ 200  
Spool Gun 300497**  
Rated at 160 amps, 60 percent duty cycle with 20-foot (6 m) cable. See literature M/1.47.

#### XR™ Wire Feeder and Guns

Push-pull system designed to handle difficult-to-feed soft alloy wires such as aluminum. See literature DC/34.0 and M/1.71 through M/1.74.

### Stick (SMAW) Welding

#### Weld Leads

##### 2/0 Stick Cable Set, 50 ft. (15 m) 173851

Consists of 50-foot (15 m) 2/0 electrode cable with holder, and 50-foot (15 m) work cable with clamp. 350 A, 100% duty cycle.

##### 2/0 Stick Cable Set, 100/50 ft. (30.5/15 m) 043952

Consists of 100-foot (30.5 m) 2/0 electrode cable with holder, and 50-foot (15 m) work cable with clamp. 300 A, 100% duty cycle.

### TIG (GTAW) Welding



**Dynasty® 210 Series**  
For portable AC/DC TIG. See literature AD/4.81.

### Multiprocess Welding



**Multimatic® 215  
907693**  
Portable, all-in-one multiprocess package weighs only 38 pounds (17.2 kg), and features excellent

arc characteristics. Exclusive multi-voltage plug (MVP™) provides flexibility to plug into 120- or 240-volt power. Take it anywhere you need to MIG, TIG or stick weld. See literature DC/12.59.

### Remote Solutions



#### ArcReach® Stick/TIG Remote 301325

When paired with an ArcReach power source, provides remote control of the power source without a control cord — saving time and money. See literature AY/14.5.



#### Wireless Remote Hand Control 301582

For remote current, voltage and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller machine. Up to 300-foot (91.4 m) operating range.



#### RHC-14 Hand Control

**242211020**

Miniature hand control for remote current and contactor control. Dimensions: 4 x 4 x 3.25 inches (102 x 102 x 82 mm). Includes 20-foot (6 m) cord and 14-pin plug.



#### PRHC-14 Hand Control

**195511**

Complete current or voltage control brings 120 volts GFCI power to work area in a single cord. Housed in a durable, light aluminum case and includes 125-foot (38 m) cord with plugs.

### Extension Cables for 14-Pin Remote Controls

**242208025 25 ft. (7.6 m)**

**242208050 50 ft. (15.2 m)**

**242208080 80 ft. (24.4 m)**

### Plasma Cutting



*Spectrum 375 X-TREME and 625 X-TREME shown.*

**Spectrum® 375 X-TREME™ 907529**

See literature PC/9.2.

**Spectrum® 625 X-TREME™ 907579**

See literature PC/9.6.

**Spectrum® 875 907583**

See literature PC/9.8.

The Spectrum 375 X-TREME and 625 X-TREME come complete with protective X-CASE™ (not shown).

### Trailers and Hitches



**HWY-Mid  
Frame Trailer  
301438**  
1,424-pound  
(646 kg)  
capacity

highway trailer with welded steel tubing frame, heavy-duty axle with roller bearing hubs and leaf-spring suspension. Includes jack stand, fenders, lights, and dual hitch with 2-inch (50 mm) ball hitch and 3-inch (76 mm) lunette eye.

*Note: Trailer is shipped unassembled.*



#### Cable Tree 043826

Provides an area to conveniently wrap weld cables and extension cords.



#### 2-In-1 Document/ Fire Extinguisher Holder 301236

Stores documents and holds a five-pound fire extinguisher.

*Note: Holder shown mounted on trailer. Fire extinguisher not included.*

### Remote Output Panel Kit 951850

If your engine-driven welder is mounted on a truck, easily locate the outputs at the point of use with the auxiliary power and weld output remote panel. See literature AY/20.5.

# Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
<b>Trailblazer® 330 Diesel</b> (Kubota engine)	<b>907849</b>	Base model		
	<b>907849001</b>	With Excel™ power		
	<b>907849002</b>	With Excel™ power and wireless interface control		
	<b>907849003</b>	With Excel™ power and battery charge/crank assist		
	<b>907849004</b>	With Excel™ power, polarity reversing and wireless remote control		
<b>Field Options</b> Options listed below can be added to the above packages. Installation is required.				
Cold Weather Kit	<b>301736</b>	Includes block heater and a fuel heater		
Spark Arrestor	<b>043579</b>			
Full KVA Adapter Cord	<b>300517</b>			
Full KVA Plug	<b>119172</b>			
Diesel Engine Filter Kit	<b>259935</b>	Includes air filter, oil filter, fuel pre-filter and primary fuel filter		
<b>Accessories</b>				
Multi-Terrain Running Gear	<b>301717</b>	With Never Flat™ tires		
Protective Cage with Cable Holders	<b>301718</b>			
25-foot Battery Charge/Jump Cables w/Plug	<b>300422</b>			
Protective Covers	<b>301731</b>	For use <b>without</b> protective cage or running gear		
	<b>301729</b>	For use <b>with</b> protective cage and/or running gear		
Sun Shade	<b>301714</b>			
Screen Protector Kit	<b>301742</b>			
Wireless Interface Control Replacement Kit	<b>288137</b>	Includes replacement remote, magnetic lanyard, USB charger, 110-volt adapter, and two screen protectors		
Wireless Interface Control Protective Covers	<b>287594</b>	Five-pack of screen protectors for wireless interface control remote		
<b>MIG/Flux-cored Welding</b>				
Millermatic® Series MIG Welders		See page 6		
Wire Feeders		See pages 6 and 7		
Spool Guns		See page 7		
XR™ Wire Feeder and Guns		See literature DC/34.0 and M/1.71 through M/1.74		
<b>Stick Welding</b>				
TIG Welding		See page 7		
<b>Multiprocess Welding</b>				
<b>Remote Solutions/Extension Cables</b>				
Plasma Cutting		See page 7		
<b>Trailers and Hitches</b>				
HWY-Mid Frame Trailer	<b>301438</b>	Trailer with lights, fenders and dual hitch. For highway use		
Cable Tree	<b>043826</b>	Trailer-mounted cable holder		
2-In-1 Document/Fire Extinguisher Holder	<b>301236</b>	Stores documents and holds a five-pound fire extinguisher		

Date:

Total Quoted Price:

Distributed by:



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