Trailblazer 325 Diesel





Industrial Applications Fabrication Maintenance Repair Structural steel work Sheet metal Pipe **Processes (X-Ray Quality)**

Stick (SMAW) MIG (GMAW) Flux-cored (FCAW) RMD®* Pulsed MIG (GMAW-P)* 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 Rated: 5/8-inch mild steel Output Range DC stick 30–325 A MIG/flux-cored 10–35 V DC TIG 10–325 A

Generator Power Output Rated at 104°F (40°C) 12,000 watts peak, 10,500 watts continuous

Excel[™] Power (Recommended option)

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

*Available only on ArcReach models.

Trailblazer welder/generators deliver unbeatable arc performance providing the smoothest, most stable arc in the industry.

The Trailblazer exclusive

Quick

Specs

technologies — Auto-Speed[™] and optional Excel[™] power deliver superior runtimes, increased fuel efficiency, and improved welder/generator 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.



Remote control of the power source without a cord. See page 2.



Trailblazer 325 Diesel with optional ArcReach and Excel power shown.



Welder/generator is warranted for three years, parts and labor. Engine is warranted separately by the engine manufacturer.



Miller Electric Mfg. Co. An ITW Welding Company 1635 West Spencer Street P.O. Box 1079 Appleton, WI 54912-1079 USA **Equipment Sales US and Canada** Phone: 866-931-9730 FAX: 800-637-2315 International Phone: 920-735-4554 International FAX: 920-735-4125





Trailblazer® Technologies

Unbeatable arc performance

Wide amperage output with better welding deposition rates means you can get jobs done faster, saving time and money. The Trailblazer also has precise arc control, which allows you to fine-tune the arc to match your

personal preferences and quickly dial in the perfect parameters to optimize weld quality and maximize productivity across a variety of applications and welding processes.

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, safer jobsite.

Unlike competitive machines that operate at 3,600 rpm (max) under any load, Miller-exclusive Auto-Speed technology responds to weld requirements by automatically adjusting engine speed to one of four rpm levels so the engine never works harder than necessary.

Refueling time and operating costs are reduced, 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 (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 all speeds, including 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.

ArcReach[®] remote control technology (option)

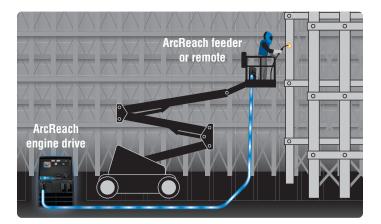


Remote control of the power source without a control cord. An ArcReach system allows you to change weld

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









Trailblazer® Benefits

Fewer refueling trips

No other diesel welder/generator in the 300-amp class lets your crews spend more time working and less time refueling — because only Trailblazer welder/generators provide Auto-Speed[™] technology, plus the Excel[™] power option, to deliver maximum runtime.

Safer, more productive jobsites

Quieter jobsites are safer and more productive because work crews can communicate easier, and work can start earlier and end later — even in noise-sensitive areas. If your jobsite needs a welder/generator, it needs a Trailblazer welder/generator — because no other diesel-fueled choice is as quiet.

Optional ArcReach[®] remote control technology eliminates the need to trace or move heavy secondary weld leads bundled with control cords on the jobsite. Complete remote control of welding processes and parameters improves safety by limiting jobsite movement and reducing slip, trip and fall hazards.

More portable, uses less truck and jobsite space

Trailblazer welder/generators are up to 24 percent smaller and 10 percent lighter then competitive machines — which means moving them is faster and easier, for maximum productivity. And because they take up less space, Trailblazer welder/generators let work trucks carry more equipment and gear — so your work crews can be ready for anything.

Cleaner and stronger generator power

Combined with a 25-horsepower engine, Trailblazer welder/generators offer 12,000 watts of clean, truly usable generator power that is Accu-Rated[™], not inflated: tested to deliver uninterrupted peak output for a minimum of 30 seconds for big loads, so you can get more jobs done.

An independent welder and generator power system ensures no interaction between jobsite tools and the welding arc, while advanced generator technology virtually eliminates power spikes and other electrical imperfections — so welds are cleaner and jobsite tools can run without interruption, maximizing quality, productivity and profit.



Maximum cost savings

Less money spent on fuel means more profit for you. Every Trailblazer welder/generator has fuel-saving Auto-Speed technology; add optional Excel power to save even more on fuel costs and enjoy a combination of advanced, profit-enhancing features that are only available on a Trailblazer welder/generator.





Specifications (Subject to change without notice.)



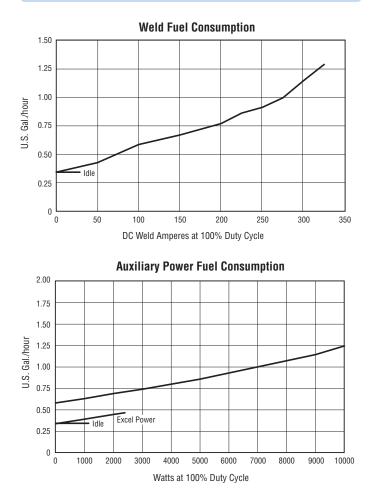
Welding Mode	Process	Amp/Volt Ranges	Rated Weld Output at 104°F (40°C)*	Single-Phase Generator Power	Sound Levels at 7 m (23 ft.)	Dimensions	Net Weight**
CC/DC CV/DC	Stick/TIG MIG/FCAW	10-325 A 10-35 V	325 A at 33 V, 100% duty cycle 325 A at 33 V, 100% duty cycle	Peak 12,000 watts Continuous 10,500 watts Excel [™] power (optional) 2,400 watts, 20 A at 120 V, 60 Hz pure generator power at idle speed and while welding	Weld 150 A Load: 75 dB (100 Lwa), 325 A Load: 81.5 dB (106.5 Lwa) Generator power 12 kW standard power: 81.5 dB (106.5 Lwa), Excel power (optional): 75 dB (100 Lwa)	H: 28 in. (711 mm) H: 34.375 in. (873 mm) (to top of exhaust) W: 20 in. (508 mm) D: 45.375 in. (1153 mm)	620 lb. (281 kg)

*Rated at sea level. **Net weight without fuel. 🔬 Certified by Canadian Standards Association to both the Canadian and U.S. Standards.

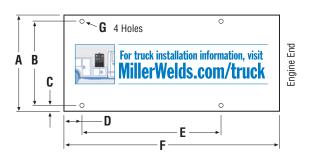
Engine Specifications (Engines warranted separately by the engine manufacturer.)

Engine Brand and Warranty	Horsepower (HP)	Туре	Weld Speed	ldle Speed	Fuel Capacity	Oil Capacity	Standard Shutdowns
Kubota D902, 2-year limited North American warranty	24.8 hp at 3,600 rpm	Three-cylinder, industrial liquid-cooled diesel	Auto-Speed™ 2,400, 2,800, 3,200 or 3,600 rpm	2,400 rpm	12 gal. (45 L)	3.9 qt. (3.7 L)	High coolant temperature/ Low oil pressure/low fuel

Performance Data



Mounting Specifications



- A. 20 in. (508 mm) B. 16.5 in. (419 mm) C. 1.75 in. (44 mm) D. 6.062 in. (154 mm) E. 32.75 in. (832 mm) F. 45.375 in. (1153 mm)
- G. .406 in. (10.3 mm) diameter

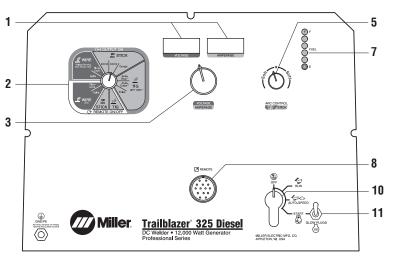


Function and Benefit Guide

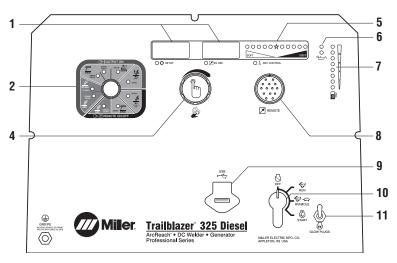
- 1. Self-calibrating digital meters with SunVision™
 - Preset and actual amperage/voltage
 - Process settings
 - · Maintenance functions: hour meter, oil change interval, rpms

2. Weld process selection switch

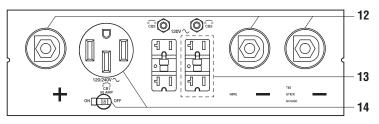
- 3. Voltage/amperage adjust control
- Pushbutton main control knob used for adjusting amperage/ voltage, adjusting arc control, and accessing the service menu.
- **5. Adjustable arc control** adjusts DIG when process control is in stick modes and adjusts inductance when process control is in FCAW or MIG modes. The amount of DIG determines how much amperage (heat) varies with stick arc length. Inductance determines the "wetness" of the weld puddle.
- 6. Maintenance interval reminder. Yellow and red indicator lights let an operator know when the machine is approaching, and finally in need of routine maintenance.
- Front panel fuel gauge LEDs indicate fuel level. Low fuel shutdown automatically detects and shuts engine off prior to running out of fuel.
- 8. 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.
- **9. USB port** allows software updates from a USB drive. A summary file of recoded data from the unit will be saved to a USB drive that is inserted.
- Engine control: Run/idle position adjusts engine to run at lower speeds depending on total power needed for welding.
- 11. Glow plugs assist in cold weather starting.
- 12. Weld output terminals
- 13. Optional Excel[™] power (factory option, see page 8) provides pure generator power at idle speed and while welding. Note: If Trailblazer is ordered without Excel power option, unit is shipped with two 20 A, 120 V duplex receptacles with circuit breakers and ground fault.
- 14. 50 A, 120/240 V receptacle with circuit breaker (For matching plug, order 119172.)



Trailblazer 325 Diesel model



Trailblazer 325 Diesel with ArcReach model



Weld terminal/auxiliary power panel - all models



Genuine Miller[®] **Options** *Available as factory option. See ordering information on back page.

GFCI Receptacles* 300975 Field Kit contains two GFCI 120 V duplex receptacles. (240 V GFCI receptacle not required.)

Cold Weather Kit 301115 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 grasslands, 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 Kit 119172 Field 120/240 V, 50 A plug (NEMA 14-50P) to fit full KVA receptacle.

Order the following from Miller Service Parts. **Diesel Engine Filter Kit 259935** Field Includes air filter, oil filter, fuel pre-filter and primary fuel filter.

Genuine Miller® Accessories



All-Purpose Running Gear 300477 Includes two heavy-duty 15-inch Never Flat[™] 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 195331 Rugged cage with cable holders protects your investment. Can be used with running gear, gas cylinder mounting assembly, or with trailer.

Note: Not for use with protective cover.

Protective Cover



Protective Cover 301099 Heavy-duty, water-resistant and mildewresistant cover protects and maintains the finish of the welder.

MIG/Flux-cored Welding



SuitCase $^{\odot}$ X-TREME ** 8VS Wire Feeder 951582

SuitCase® X-TREME $^{\rm \tiny M}$ 12VS Wire Feeder 951543

Lightweight, voltage-sensing wire feeders include secondary contactor, gas valve, drive roll kit and Bernard[™] BTB Gun 300 A. See literature M/6.42.



SuitCase® 12RC Wire Feeder 951580

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.



Feeder 951733 For use with ArcReach models only (see page 2 for more information). Includes drive rolls and Bernard[™] PipeWorx 300-15 MIG gun. For MIG, FCAW, and advanced RMD[®] and pulse processes.

ArcReach[®] Smart



ArcReach[®] SuitCase[®] 8 951726 With Bernard[™] BTB Gun 300 A 951727 With Bernard[™] S-Gun[™] 951728 With Bernard[™] Dura-Flux[™] gun

ArcReach® SuitCase® 12

951729 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. When paired with an ArcReach power source, provides remote control of the power source without a control cord — saving time and money.



Spoolmatic® 30A Spool Gun 130831 Air-cooled, 200-amp, one-pound spool gun for aluminum MIG. See literature M/1.73. Requires WC-24 Control (137549).

XR[™] Wire Feeders and Guns

Push-pull system designed to handle difficultto-feed soft alloy wires such as aluminum. See literature M/1.7 through M/1.74.



Genuine Miller[®] Accessories (Continued)

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.

AC TIG (GTAW) Welding



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

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).

Remote Controls



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 300430

For remote current. voltage and contactor control. Receiver plugs directly into the 14-pin receptacle of Miller

machine. 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.

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)

Trailers and Hitches (Note: Trailers are shipped unassembled.)



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.



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 5-pound fire extinguisher.

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

Trailer Specifications (Subject to change without notice.)

Model	Gross Axle Weight Rating	Gross Vehicle Weight Rating	Net Payload	Height of Bed	Road Clearance	Track (Center to center of tires)	Standard Tires (Standard rating or P-size rating)	Dimensions	Net Weight
HWY-Mid	1,605 lb.	1,424 lb.	1,424 lb.	19.5 in.	8 in.	46 in.	ST175/80D-13	Length: 101 in. (2,565 mm)	181 lb.
Frame	(728 kg)	(646 kg)	(646 kg)	(495 mm)	(203 mm)	(1,168 mm)	Load Range C	Width: 55 in. (1,397 mm)*	(82 kg)

*Width at outside of fenders.



Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Trailblazer® 325 Diesel	907566001 907566 907566002 907755003	Kubota engine, base model Kubota engine with GFCI receptacles Kubota engine with Excel [™] power Kubota engine with Excel [™] power, GFCI receptacles and ArcReach [®] remote control technology		
Field Options Options listed below can be	added to the above	e packages. Installation is required.		
GFCI Receptacles	300975			
Cold Weather Kit	301115			
Spark Arrestor	043579			
Full KVA Adapter Cord	300517			
Full KVA Plug	119172			
Diesel Engine Filter Kit	259935	Order from Miller Service Parts		
Accessories				
All-Purpose Running Gear	300477	With Never Flat [™] tires		
Protective Cage with Cable Holders	195331	Not for use with protective cover		
Protective Cover	301099			
MIG/Flux-cored Welding				
SuitCase [®] X-TREME [™] 8VS	951582	With Bernard [™] BTB Gun 300 A. See literature M/6.42		
SuitCase [®] X-TREME [™] 12VS	951543	With Bernard [™] BTB Gun 300 A. See literature M/6.42		
SuitCase® 12RC	951580	With Bernard [™] BTB Gun 300 A. See literature M/6.5		
ArcReach [®] Smart Feeder	951733	For use with ArcReach models only. MIG/FCAW/RMD [®] /pulse feeder with Bernard [™] PipeWorx 300-15 MIG gun. Tweco [®] -style connectors		
ArcReach [®] SuitCase [®] 8	951726 951727 951728	With Bernard [™] BTB Gun 300 A With Bernard [™] S-Gun [™] With Bernard [™] Dura-Flux [™] gun		
ArcReach [®] SuitCase [®] 12	951729 951730 951731	With Bernard [™] BTB Gun 300 A With Bernard [™] S-Gun [™] With Bernard [™] Dura-Flux [™] gun		
Spoolmatic [®] 30A Spool Gun	130831	Requires WC-24 control. See literature M/1.73		
WC-24 Control	137549	See literature M/1.73		
XR™ Wire Feeder Control and Guns		See literature M/1.7 through M/1.74		
Stick Welding		See page 7		
TIG Welding		See page 7		
Plasma Cutting		See page 7		
Remote Controls and Extension Cables				
ArcReach [®] Stick/TIG Remote	301325	For use with ArcReach models only		
Wireless Remote Hand Control	300430			
RHC-14 Hand Control	242211020			
Extension Cables		See page 7		1
Trailers and Hitches				
HWY-Mid Frame Trailer	301438	Trailer with lights, fenders and dual hitch. For highway use		
Cable Tree	043826	Trailer-mounted cable holder		
2-In-1 Document/Fire Extinguisher Holder	301236	Stores documents and holds a 5-pound fire extinguisher		1

Date:

Total Quoted Price:

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