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Trailblazer® 330 Diesel

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)*
RMD®**
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.
***With ArcReach Smart Feeder.*

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

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 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.

TRUE BLUE® 3YR. WARRANTY

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

Miller®

Miller Electric Mfg. LLC
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
International Phone: 920-735-4554

MillerWelds.com

Certified System ISO 9001 Quality

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

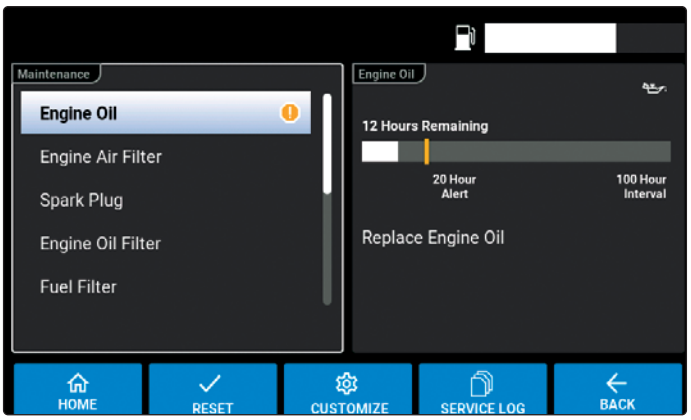
Parameter control at the wire feeder or pendant without needing a control cord. An ArcReach system allows you to change weld settings from your ArcReach feeder or stick/TIG remote, saving a trip to the power supply. ArcReach technology uses the existing weld cable to communicate welding control information 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 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
Barn Cleaner (5 hp)	11,600	3,000
Silo Unloader (5 hp)	12,200	4,300
Portable Conveyor (1/2 hp)	3,400	1,000
Milker (5 hp)	10,500	2,800
Hand Drill (1/2 inch)	600	600
Circular Saw (8-1/4 inch)	1,400	1,400
Air Compressor (1-1/2 hp)	8,200	2,200
Flood Lights (Vapor)	1,250	1,000
Spectrum® 625 X-TREME™ (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.

View status
View engine status, fuel level, and battery charge level of remote.

Select processes
View and select between all available processes.

Contractor on/off
Turn contactor on/off manually in remote welding mode.

Engine on/off
Turn engine on/off with remote.

Custom programs
Save custom presets in up to four programs and easily switch between pre-programmed settings.

Fine-tune arc
Quickly adjust and save arc control settings including DIG, DIG range inductance and Auto-Stop.

Amp/volt adjust
Adjust amperage or voltage, by increments or percentage, while welding.

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.

Specifications (Subject to change without notice.)

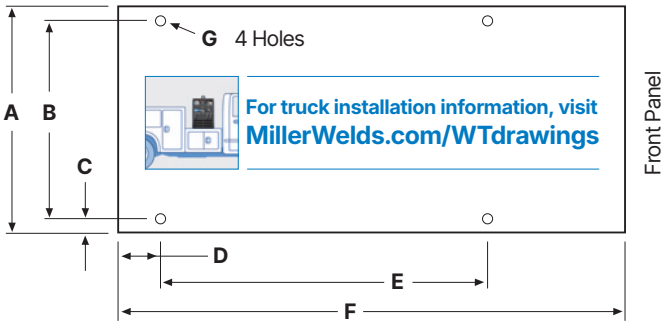
WELDING MODE	PROCESS	AMP/VOLT RANGES	RATED WELD OUTPUT AT 104°F (40°C)*	SINGLE-PHASE AUXILIARY POWER	SOUND LEVELS AT 7 M (23 FT.)	DIMENSIONS	NET WEIGHT**
CC/DC	Stick/TIG	20–330 A	330 A at 31 V, 100% duty cycle	Peak: 12,000 watts Continuous: 10,500 watts **Excel™ power** 2,400 watts, 20 A at 120 V, 60 Hz pure auxiliary power at idle speed and while welding	**Weld** Idle: 74.7 dB (99.9 Lwa) 330 A load: 80.2 dB (105.4 Lwa) **Auxiliary power** 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		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.)

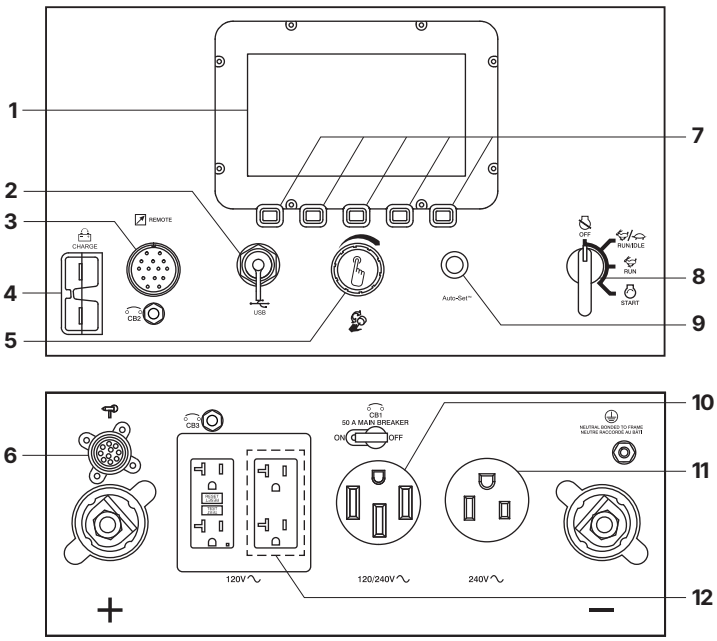
ENGINE BRAND AND WARRANTY	HORSEPOWER (HP)	TYPE	WELD SPEED	IDLE SPEED	FUEL CAPACITY	OIL CAPACITY	STANDARD SHUTDOWNS
Kubota D902, 2-year limited North American warranty	24.8 hp at 3,600 rpm	Three-cylinder, liquid-cooled industrial diesel engine	Advanced Auto-Speed™ varies between 2,400–3,600 rpm	2,400 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



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 20 A, 120 V 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 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 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.

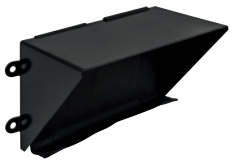
- Reduce costly jobsite downtime
- Maintain constant tire pressure and will not develop flats
- Protect against punctures
- Preserve maneuverability, even when weighed down with heavy welding cable

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 PRO 907839
See literature DC/12.61
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
951727001 With Bernard® S-Gun™
951728001 With Bernard® IronPro™ 350 gun
ArcReach® SuitCase® 12
951729001 With Bernard® BTB Gun 300 A
951730001 With Bernard® S-Gun™
951731001 With Bernard® IronPro™ 350 gun
Portable feeder designed to run off of arc voltage. See literature M/6.55.

Genuine Miller® Accessories

MIG/Flux-cored Welding (cont.)

ArcReach® Smart Feeder 951733
Includes drive rolls and Bernard® PipeWorx 300-15 MIG gun. For MIG, FCAW, and advanced RMD® and pulse processes. See literature M/6.55.

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 PRO 907840
Portable, all-in-one multiprocess package weighs only 35 pounds (15.9 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/13.5.

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)

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.

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.
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.

Ordering Information

EQUIPMENT AND OPTIONS	STOCK NO.	DESCRIPTION	QTY.	PRICE
Trailblazer® 330 Diesel (Kubota engine)	**907849** **907849001** **907849002** **907849003**	Base model With Excel™ power With Excel™ power and wireless interface control With Excel™ power and battery charge/crank assist		
Field Options *Options listed below can be added to the above packages. Installation is required.*				
Cold Weather Kit	**301736**	Includes block heater and a fuel heater		
Spark Arrestor	**043579**			
Full KVA Adapter Cord	**300517**			
Full KVA Plug	**119172**			
Diesel Engine Filter Kit	**259935**	Includes air filter, oil filter, fuel pre-filter and primary fuel filter		
Accessories				
Multi-Terrain Running Gear	**301717**	With Never Flat™ tires		
Protective Cage with Cable Holders	**301718**			
25-foot Battery Charge/Jump Cables w/Plug	**300422**			
Protective Covers	**301731** **301729**	For use **without** protective cage or running gear For use **with** protective cage and/or running gear		
Sun Shade	**301714**			
Screen Protector Kit	**301742**			
Wireless Interface Control Replacement Kit	**288137**	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® 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		
Stick Welding		See page 7		
TIG Welding		See page 7		
Multiprocess Welding		See page 7		
Remote Solutions/Extension Cables		See page 7		
Plasma Cutting		See page 7		
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 five-pound fire extinguisher		

DATE: TOTAL QUOTED PRICE:

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