

EnPak[®]



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Turn Off Your Truck ... Turn On Your EnPak

A revolutionary, fully integrated power system for work trucks

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The engine in a work truck is designed to move that truck and everything in it, hauling thousands of pounds over thousands of miles with the best balance of power and efficiency. Today's emissions-compliant truck engines are not designed to power welders, jobsite tools, pumps and accessories as efficiently as the EnPak.

EnPak is a productivity-boosting combination of an air compressor, hydraulic pump and generator that's powered by a fuel-efficient diesel engine integrated with the truck's fuel supply and battery. EnPak gives users full jobsite functionality – with the work truck's engine turned off. The result is significant savings on fuel costs and truck maintenance while improving jobsite conditions and extending work truck life.

EnPak® is a powerhouse combination of:

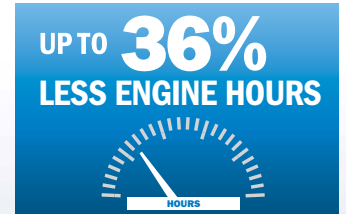
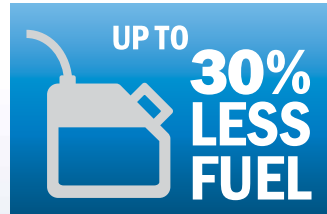
- Air compressor
- EnVerter™ technology
- Hydraulics
- Tier 4 Final compliance
- Generator
- Miller® welding options



Using EnPak instead of a diesel work truck can greatly reduce the expense of servicing that truck's emissions-control equipment. EnPak's 24.8 hp diesel engine meets all applicable Tier 4 Final (T4F) regulations mandated by the EPA, producing fewer exhaust emissions and improved output for a wide variety of job requirements.

Performance and Efficiency

EnPak's 24.8 hp diesel engine uses up to 30 percent less fuel than a work truck's engine and costs much less to maintain. EnPak includes exclusive systems that monitor user load requirements and adjust the engine speed to match, plus auto start/stop technology and the EnVerter power system — all of which can cut fuel consumption and operating costs.



The results are intended to illustrate the possible fuel savings, maintenance savings, and asset life extension savings using EnPak and are based on user input. They do not constitute a proposal or a guarantee.



Exclusive Fuel-Saving Technology

Exclusive EnPak® design reduces fuel use for significant cost savings – while delivering the performance that users demand – resulting in maximum productivity.



- Load-management system monitors accessory requirements and precisely adjusts the engine's speed to match demand, delivering only the amount of power required. This maximizes fuel savings while allowing for simultaneous operation of the generator, compressor and hydraulics – and provides the additional benefit of jobsite noise reduction for a safer work environment.
- Auto start/stop technology shuts off the engine when no accessory loads are detected, increasing fuel savings as well as reducing jobsite noise and exhaust emissions. When a load is applied, the engine starts quickly, supplying the power necessary to perform the job.
- EnVerter™ technology delivers up to 2,400 watts of continuous 120 V, 60 Hz, pure sine wave power at low engine speeds, providing power for many tools and lights while reducing fuel consumption and helping decrease jobsite noise.

60 cfm air compressor

EnPak's rotary-screw air compressor can drive a wide variety of tools; its high airflow capacity can easily power 1-inch impact wrenches and pneumatic pumps – all while minimizing fuel use.

- Supports multiple field applications ranging from processes like tire service to demanding jobs like carbon arc gouging.
- Air-on-demand delivery system eliminates the lag time common with reservoir systems, instantly engaging the compressor in response to loads and quickly delivering the required air pressure.



20 gpm hydraulic pump

The Eaton variable-displacement piston hydraulic pump seamlessly integrates fuel-saving strategies with precise, high-performance operation. The result is lower fuel costs and well-regulated hydraulic fluid flow for smooth, reliable and precise crane operation. A low-speed lock function further enhances control, minimizing hydraulic flow for maximum precision in crane operation.

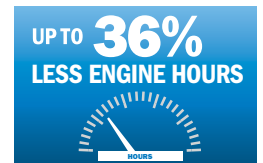
6,000-watt generator

EnPak's generator helps save fuel and reduce operating costs with EnVerter technology. The low-maintenance generator minimizes downtime with a direct-drive, brushless design, which eliminates the need to replace belts and brushes, while producing up to 6,000 watts of continuous 120/240 V, 60 Hz power for high demand applications, including welders.



Extend Work Truck Life

Turning off a work truck and turning on EnPak can help a work truck last longer. Using EnPak for jobsite functions instead of a work truck's PTO can reduce the truck's engine idle time by up to 50 percent, extending the life of its drivetrain.



Spend Less On Maintenance

Work truck maintenance can't be ignored — but its frequency can be reduced. Turning off a work truck and turning on EnPak can save owners money in several ways. EnPak:

- Has lower preventive maintenance costs
- Does not require diesel exhaust fluid
- Has no diesel particulate filter to clean or replace



More Capabilities, Less Noise

On a busy jobsite, noise reduction can help improve the overall working environment and even make the jobsite a safer place to be. EnPak's specially designed enclosure reduces sound output by up to 10 dB compared to a PTO system that's running all the time, regardless of the tools in use. With auto start/stop technology, EnPak only produces sound when it's in operation.

Powerful, Portable Welder Solutions

As the world's leading manufacturer of arc welding and cutting equipment, Miller produces a full line of high-quality, multiprocess welders capable of MIG, TIG and Stick operations as well as arc gouging. EnPak® can power several of these superior-performing welders with its 6,000-watt generator.

The Miller® Maxstar® 200 STR and Miller Multimatic™ 200 welders provide EnPak users with superior arc characteristics for strong, quality welds. These powerful, portable welding solutions come in packages that weigh less than 50 pounds – so operators can benefit from a work truck that can carry more, weighs less and is equipped with easier-to-handle, easier-to-move equipment.

See page 7 for versatile Miller welder options that are EnPak-compatible.



Productivity-Maximizing Features and Benefits

Truck integration

One EnPak replaces both an air compressor and an engine-driven welder/generator, saving space on trucks and maximizing payloads.



- Load-space mount
Compact exterior dimensions minimize EnPak's footprint and its impact on available payload.



- Side-pack mount
Frees up almost 3 feet of truck bed space, providing the option to choose an 11-foot truck body instead of a 14-foot model.

Crane remote

EnPak's crane remote gives full pendant control, improving operator mobility. Its platform is fully compatible with other manufacturers' wireless and tethered remotes, making it easy for operators to use.

EnPak remote panel

EnPak's remote panel monitors and displays engine and air compressor status, offering full functionality. Operator-friendly design saves time and maximizes efficient operation.

Service panel

EnPak's service panel overrides the remote panel and crane remotes, allowing unit operation even if remotes are disabled.

Specifications

EnPak®	Weight	Dimensions		
	832 lb. (373 kg)	30 in. high x 21 in. wide x 47 in. deep (762 mm x 533 mm x 1,194 mm)		
Air Compressor Variable-speed rotary-screw	Features	Ratings	Duty Cycle	Automatic Compressor Shutdowns
	<ul style="list-style-type: none"> Oil cooled Built-in check valve Air compressor hour meter Clutch-controlled automatic shutdowns 	<ul style="list-style-type: none"> 120 – 175 psi pressure range 58 scfm at 100 psi at 3,600 rpm 60 cfm max flow 	100%	<ul style="list-style-type: none"> Oil temperature Air pressure (over pressure)
Hydraulic Pump	Maximum Pressure	Maximum Flow Rate	Rated Output	Control
<ul style="list-style-type: none"> Eaton variable-displacement piston Pressure and flow compensated High-load tapered roller bearings 	3,500 psi	<ul style="list-style-type: none"> 20 gpm closed center 15 gpm open center 	<ul style="list-style-type: none"> Up to 8.0 gpm at 3,000 psi at 3,200 rpm 50% duty cycle 	Power-managed load control using variable flow rate
Engine	Horsepower	Type	Engine Speeds	Automatic Engine Shutdowns
<ul style="list-style-type: none"> Kubota electronic governor Multi-speed 60 A, 12 V alternator Electric hour meter Electric fuel pump Automatic shutdowns 	24.8 at 3,600 rpm	<ul style="list-style-type: none"> Diesel EPA Tier 4 Final compliant 	<ul style="list-style-type: none"> 1,800 rpm (idle) 2,600 rpm 3,200 rpm 3,600 rpm 	<ul style="list-style-type: none"> Coolant temperature Oil pressure Over speed
Generator/EnVerter™	Benefits	EnVerter (Synthetic Power)		
6,000 watts at 3,600 rpm, continuous	<ul style="list-style-type: none"> 120/240 V, single phase, brushless generator Breaker protected 	<ul style="list-style-type: none"> 2,400 watts at 2,600 – 3,600 rpm, continuous 300 watts at 1,800 rpm (idle), continuous 120 V, single phase, pure sine wave Overload and breaker protected 		

Welders

Stick/TIG welding Miller® Maxstar® 200 STR



- 1 to 200 amps
- Stick electrode sizes 1/16 in. – 3/16 in. diameter
- Carbon arc size 5/32 in. max.

Weight: 32 lb. (14.5 kg)

Dimensions: 13.5 in. high x 7.5 in. wide x 17.5 in. deep (342.9 mm x 190.5 mm x 444.5 mm)

Stock #: 907 036 001

IMPORTANT: Be sure to enter the complete nine-digit stock number when ordering to ensure you receive the correct Maxstar model.

Multiprocess (Stick/TIG/MIG) welding Miller® Multimatic™ 200



- Portable, all-in-one multiprocess package features excellent arc characteristics
- Stick electrode sizes 3/32 in. – 1/8 in. diameter
- MIG welds 24 ga., 3/8 in. mild steel and 18 ga. 1/4 in. aluminum
- TIG welds .020 – 3/16 in. mild steel

Weight: 29 lb. (13.2 kg)

Dimensions: 14.5 in. high x 9.75 in. wide x 17 in. deep (368 mm x 248 mm x 432 mm)

Stock #: 907 518

IMPORTANT: When used with the EnPak®, it's recommended that the Multimatic 200 be powered by the 240 V receptacle.

Accessories

EnPak Hydraulic Tool Control (HTC) with heat exchanger

- Provides significant fuel savings by delivering hydraulic flow at the lowest engine speed
- Powers a crane and one 5- or 8-gpm hydraulic tool – or any two 5-gpm hydraulic tools – simultaneously
- Drives 5, 8, 10 and 5+5 gpm hydraulic tools*
- Reduces noise by idling down when a hydraulic tool isn't being used

Stock #: 300 737

*Meets HTMA Class 1, 2 and RR specifications

Desiccant air dryer system

A regenerating inline air dryer system that virtually eliminates moisture in the airstream to prevent tool freeze-ups in cold climates.

Stock #: 300 690

Hydraulic reservoir

- 20-gallon (75.7 L) capacity
- 30 mesh filler-breather cap with 3 psi relief
- In-tank return-line filter (3 micron) ISO 18/16/13 cleanliness rating, 25 psi bypass setting
- Sight glass

Weight: 82 lb. (37.2 kg) dry, 223 lb. (101.2 kg) with hydraulic fluids

Stock #: 300 550

Any Truck. Any Job. Miller.

Work truck solutions from the industry leader

It's a serious claim, and Miller means serious business. We get work trucks ready to support welding, cutting or gouging jobs of all sizes – and we get those trucks ready to operate a wide range of equipment with electric power, compressed air and hydraulics. Miller will equip multipurpose vehicles, like mobile repair trucks and service trucks. Miller will outfit specialized vehicles too, like lube trucks and crane trucks. For maximum performance and maximum versatility, Miller has the right equipment for your truck to get the job done.



MillerWelds.com/enpak



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