

Turn Off Your Truck...
Turn on your EnPak™



EnPak™ Mechanic Series

Designed for mechanic's trucks, EnPak is a powerhouse combination of a diesel engine, air compressor, hydraulic pump and generator that is integrated into the truck's fuel and electrical supply allowing full functionality with the truck engine turned off.

Through its industry-exclusive design, EnPak provides...

- **Efficiency:** Lowers fuel use up to 30%
- **Economy:** Up to 60% truck engine-hour reduction extends life of drive train
- **Quiet:** Up to 10 dB less noise than a typical PTO system
- **Comfort:** Directs exhaust up and away from the work area
- **Capacity:** Provides more room in the truck and extra payload
- **Reliability:** Engineered and designed by Miller, with components from Miller, Kubota and Eaton



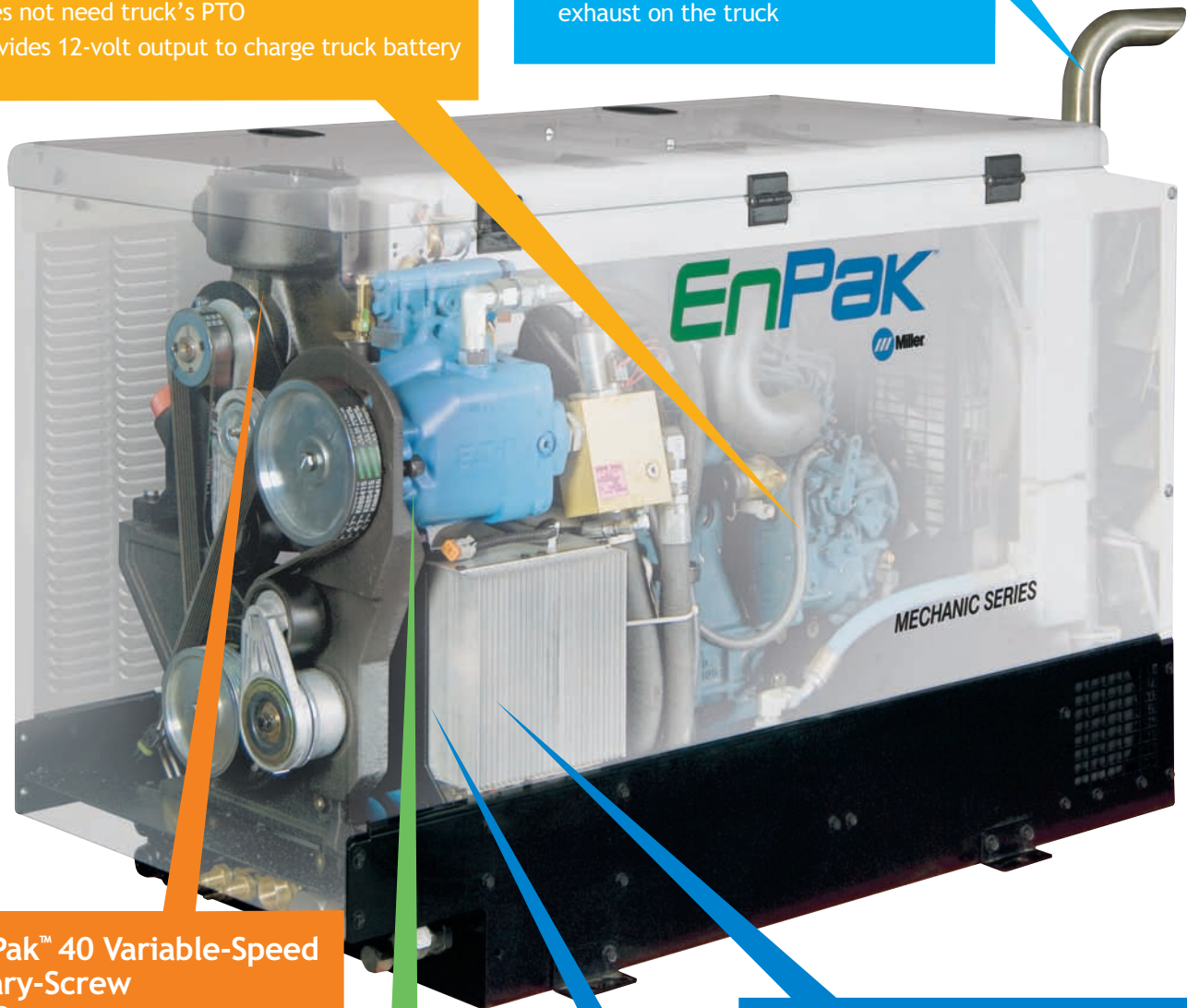
Key Features/Benefits

Kubota Diesel Engine

- EnPak's 27-HP Kubota diesel engine shares the truck's fuel supply – only one tank to fill
- Legendary quality and reliability
- Does not need truck's PTO
- Provides 12-volt output to charge truck battery

Vertical Exhaust

- Eliminates exposure to exhaust fumes while working behind the truck
- Eliminates cost of putting vertical exhaust on the truck



Air Pak™ 40 Variable-Speed Rotary-Screw Air Compressor

- Rated at 40 CFM at 100 PSI
- Rated at maximum PSI = 175
- 100% duty cycle
- Compact, high output

EnVerter™ Power

Up to 2,400 watts of pure sine wave 120 VAC power available at all engine speeds (optional).

Eaton Variable-Displacement Piston Pump

- 8.5 gpm at 3000 PSI, maximum gpm = 20
- Smooth operation and control for precise movement and seamless operation

Brushless Generator

- 6,000 watts of auxiliary power for tools like Maxstar® welders, drills, and grinders
- Brushless – extends life of the generator because there is no brush maintenance

EnPak™ Mechanic Series Benefits Include:

- Fuel efficiency
- Increased truck engine life
- Reduced noise
- Improved operator comfort
- Increased truck capacity
- Reliability

EnPower™ Technology

Real time load monitoring. EnPower technology automatically matches the engine speed to the load requirement.

Weld Capability

- Powerful enough to run Miller's most popular inverter welding machines – Maxstar® 150, Maxstar® 200, and Millermatic® Passport® Plus
- Miller reliability



EnPak Remote Panel

Monitors and displays engine and air compressor status.

Engine Controls

- Hour meter
- Maintenance hour meter
- Coolant temperature
- Engine RPM
- Engine start/stop

Air Compressor Controls

- Hour meter
- Maintenance hour meter
- Minimum pressure set
- Air compressor start/stop
- Shutdown indication



Crane Remote

- Full pendant control – same operation platform as today
- Crane manufacturer's wireless or tethered remotes work with EnPak – no need to retrain the operator

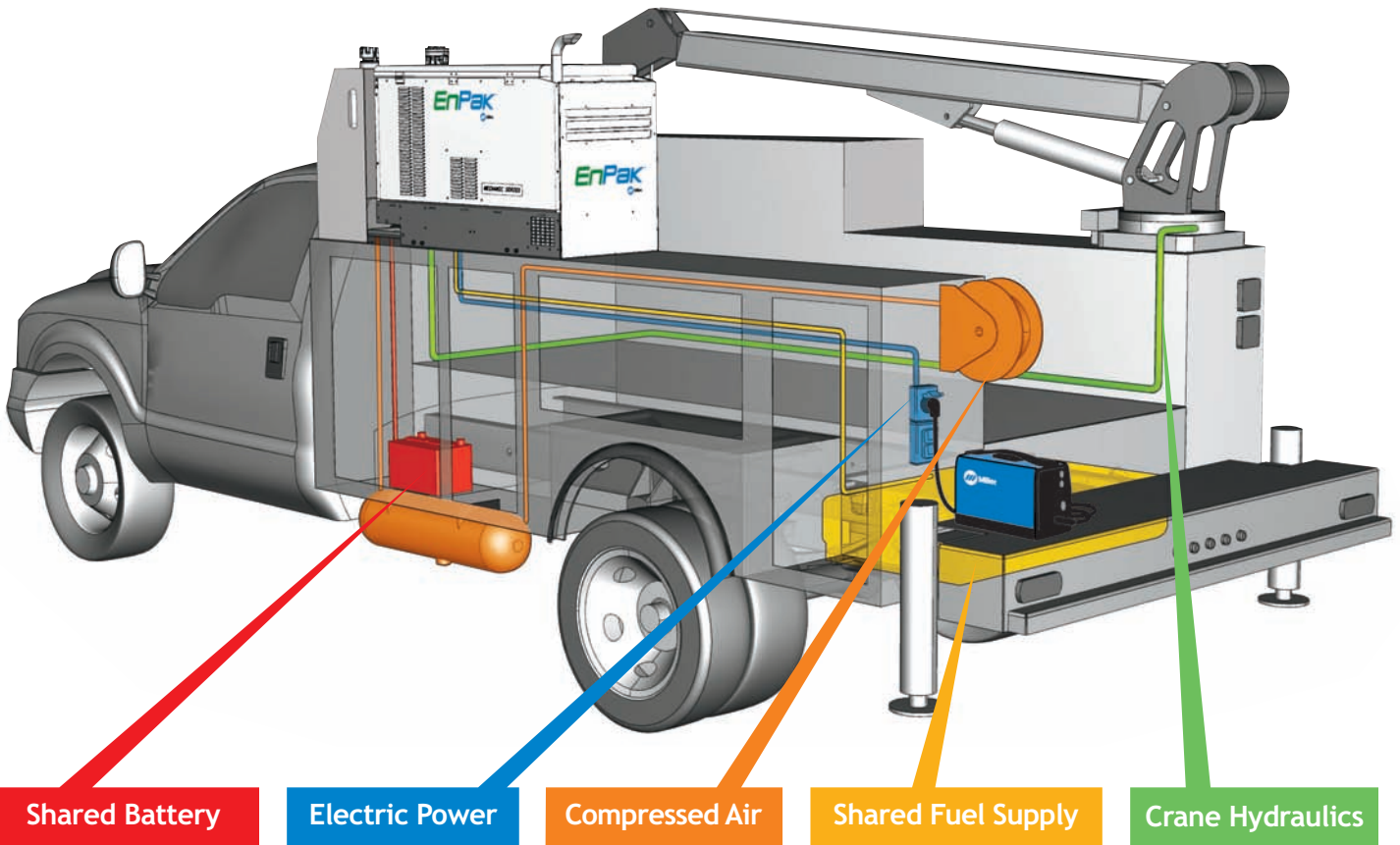


Truck Space

- Replaces individual air compressor and welding generator
- Maximizes truck bed space (30 in high x 21 in wide x 47 in deep, 762 x 533 x 1194 mm) – only 1 inch wider and 1 inch taller than a Miller Bobcat™
- Provides two mounting options – load-space mount or side-pack mount
- No loss of cabinet space when load-space mounted because the operator can operate EnPak remotely – no cut out needed



Truck Integration



Mounting Options

EnPak™ has two convenient mounting options that will allow you to maximize your truck bed space—load-space mount or side-pack mount.

Weight: 955 lb (433 kg)
Dimensions: 30 in high x 21 in wide x 47 in deep
 (762 x 533 x 1194 mm)



Load-Space Mount

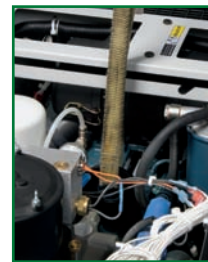


Side-Pack Mount



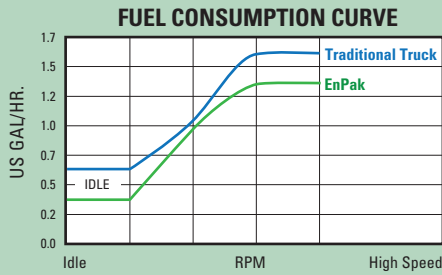
(Shown with optional hydraulic reservoir)
 Side-pack mounted EnPak frees up almost 3 ft of truck bed space providing the option to choose an 11 ft truck body instead of a 14 ft.

Lifting Eye



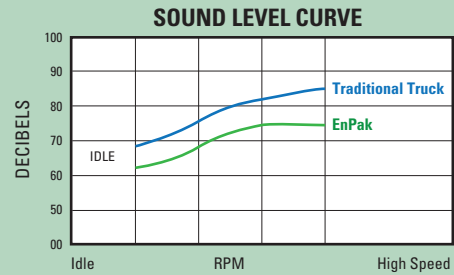
Integrated lifting eye simplifies installation.

Performance Comparisons



Fuel Consumption

- EnPak is 21–32% more fuel efficient than a traditional truck with a hydraulic driven air compressor (.14–.54 gal/hr)



Sound Levels

- EnPak is 3–7 dB quieter than a traditional truck with a reciprocating compressor
- EnPak is 4–9 dB quieter than a traditional truck with a screw compressor

To calculate your fuel savings, visit EnPak.com/calculator

EnPak Fuel Savings Calculator

Select Truck Engine Model: Ford 6.0L ICR

Fuel Cost (per gallon): \$4.00

Working Days (per year): 250

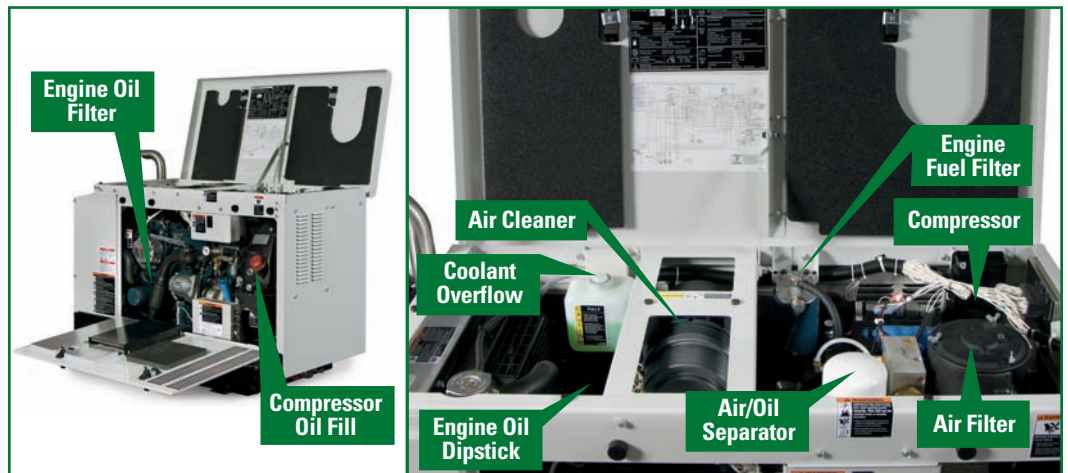
Annual EnPak Savings: \$2410.00 PER YEAR, PER TRUCK

Operating Condition	Fuel Consumption Rate (gallons/hour)	Duration (hours/day)	Savings (per truck)
Truck idling, PTO engaged	0.57	2	
EnPak idling (1800rpm), hydraulic pump engaged, compressor off, no load	0.32	2	\$900.00
Truck High Speed, PTO engaged, no load	1.1	1	
EnPak idling (2000rpm), hydraulic pump engaged, compressor stand-by, no load	0.49	1	\$910.00
Truck High Speed, PTO engaged, full compressor output	1.14	2	
EnPak idling (2000rpm), hydraulic pump engaged, compressor 2000 @ 100psi	0.59	2	\$1390.00

Serviceability

Easy access to: engine oil filter, engine oil dipstick, engine fuel filter, coolant overflow, air cleaner, compressor oil fill, compressor, air filter, air/oil separator.

All filters and fluids are easily accessible, regardless of mounting placement.



Component Specifications

Air Compressor

Type	Features	Ratings	Duty Cycle	Automatic Compressor Shutdowns
Air Pak™ 40 variable-speed rotary-screw	Oil cooled Built-in check valve Air compressor hour meter Clutch controlled automatic shutdowns	90–175 PSI pressure range 40 SCFM at 100 PSI at 3600 RPM 35 SCFM at 100 PSI at 3200 RPM 28 SCFM at 100 PSI at 2600 RPM 18 SCFM at 100 PSI at 1800 RPM	100%	Oil temperature Air pressure (over pressure)

Hydraulic Pump

Features	Maximum Pressure	Maximum Flow Rate	Rated Output	Control
Eaton variable-displacement piston Pressure and flow compensated High-load tapered-roller bearings	3000 PSI	20 GPM	8.5 GPM at 3000 PSI at 3200 RPM 50% duty cycle (dependent on hydraulic cooling system)	Power managed load control using variable flow rate

Engine

Features	HP	Type	Engine Speeds	Automatic Engine Shutdowns
Kubota electronic governor Multi-speed 60 A, 12 V alternator Engine hour meter Electric fuel pump Automatic shutdowns	27.7 HP/3600 RPM	Diesel EPA Tier 4 compliant	1800 RPM – idle 2600 RPM 3200 RPM 3600 RPM	Oil temperature Oil pressure Over speed

Generator/EnVerter™

Output	Benefits	EnVerter (Synthetic Power, optional)
6000 watts at 3600 RPM, continuous	120/240 V Single-phase, brushless generator Breaker protected	2400 watts at 2600–3600 RPM, continuous 400 watts at 1800 RPM (idle), continuous 120 V, single phase, pure sine wave Overload and breaker protected

Service Panel



Secondary manual controls are accessible through the side service panel. You can still work on the unit if the remotes are disabled, because the service panel overrides the EnPak Remote Panel and crane remotes.

Options & Accessories

Stick (SMAW)/TIG (GTAW) Welding



Miller Maxstar® 150 S
Best-in-class provides maximum portability and performance in the most compact Stick package in the industry. Dependability and performance all in one machine.

Weight: 13.2 lb (6 kg)
Dimensions: 9 in high x 5.5 in wide x 13.25 in deep (228.6 x 139.7 x 336.6 mm)
Ratings: 70 A at 22.8 V, 100% duty cycle

Stock #: 907 134



Miller Maxstar® 200 STR
Unit provides maximum flexibility by automatically connecting to any input power while maintaining the best DC Stick/TIG welding performance in its product class.

Weight: 32 lb (14.5 kg)
Dimensions: 13.5 in high x 7.5 in wide x 17.5 in deep (342.9 x 190.5 x 444.5 mm)
Stick Ratings: 150 A at 26 V, 60% duty cycle
TIG Ratings: 175 A at 17 V, 60% duty cycle

Stock #: 907 036-00-1

MIG/Flux Cored Welding



Miller Millermatic® Passport® Plus
Portable, all-in-one MIG package features ultimate arc performance, self-contained gas bottle, and flexibility to plug into 115 or 230 V power with Miller exclusive Multi-Voltage Plug (MVP™).

Weight: 45 lb (20.4 kg)
Dimensions: 15.5 in high x 12 in wide x 20.5 in deep (393.7 x 304.8 x 520.7 mm)
115 V Ratings: 115 A at 19.5 V, 20% duty cycle
230 V Ratings: 150 A at 21.5 V, 20% duty cycle

Stock #: 907 401

Desiccant Air Dryer System



A regenerating inline air dryer system that eliminates moisture in the air stream to prevent air tool freeze-ups in cold climates. Internal thermostat and heating elements ensure good air quality in all climates. The system can be mounted on the side of the machine or remotely for truck-mount installations.

Stock #: 195 117

Hydraulic Reservoir



20 gallon (75.7 L) capacity.

30 mesh filler-breather cap with 3 PSI relief.

In-tank return-line filter (12 micron) ISO 18/16/13 cleanliness rating, 36 PSI bypass setting.

Sight glass with thermometer and aluminum guard.

SAE-24 (F) orb suction port, SAE-12 (F) orb case drain port, SAE-16 (F) orb return line port. SAE-12 (F) port

for filter/pressure filling. 2.5 in NPT (F) port for optimal immersion heater.

Weight: 140 lb (63.5 kg) dry
206 lb (93.5 kg) with hydraulic fluids

Stock #: 300 550

Hydraulic Reservoir Option
Hydraulic Reservoir Oil Heater

Stock #: 300 546

Cold Weather Option (Required for -20 to -40° C)

Engine Block Heater

Stock #: 300 525

For more information on welding products, please visit MillerWelds.com

To learn more about EnPak™ Mechanic Series,
contact your local Truck Equipment Dealer or visit

EnPak.com