

Mini -VecLoader® Vacuum Series
1,340 – 1,970 CFM/ 16 -28” Hg/50 - 100 Horsepower
Versatile Industrial Vacuums with Exceptional Power

HIGH-POWERED INDUSTRIAL VACUUMS AND VACUUM LOADERS

The Mini-VecLoader is completely self-contained so it vacuum and directly discharge wet or dry product into a truck, dumpster or other collection device, without complicated setup and with only minimal maintenance. VecLoader's remain on the job full time without the dumping, shoveling, hoisting, and other multiple handling generally required with vac trucks or other vacuum systems.



Mini VecLoader in Stowed Position



Mini VecLoader with Hopper Raised

Mini
VecLoader

Length
16' 1"
Width
7' 2"
Stowed
Height
10' 0"
Weight
8,100#



Standard
VecLoader

Length
17' 5"
Width
8' 1/2"
Stowed
Height
11' 2 1/2"
Weight
10,200#

Size Comparison, Mini-VecLoader versus Standard VecLoader



Mini-VecLoader Loading into a Dump Truck

Toll Free 1(800) 832 4010

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Vector Technologies Ltd./ Vacuum Engineering Division/ 6820 N. 43rd Street/ Milwaukee WI USA 53209

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performance proven VACUUM SOLUTIONS™

Vac Attack!

MINI VECLOADER VACUUMS® Standard Diesel Specifications

Model:	Mini VecLoader 32	Mini VecLoader 50	Mini VecLoader 80	Mini VecLoader 100
Maximum CFM/Hg:	650/15"	1,340/16"	1,970/16"	1,340/28"
Standard Engine:	32 Hp Kubota Diesel	55 Hp Deere Diesel	80 Hp Deere Turbo Diesel	100 Hp Deere Turbo Diesel
Primary Filtration:	Coated bags pulse air cleaned	Coated bags pulse air cleaned	Coated bags pulse air cleaned	Coated bags pulse air cleaned
Secondary filter for blower protection:	Pleated cartridge	Pleated cartridge	Pleated cartridge	Pleated cartridge
Maximum Hose Diameter:	3" inlet	4" inlet	4" or 5" inlet	4" inlet
Dimensions (L, W, H):	16' 1", 7' 2", 10' 0"	16' 1", 7' 2", 10' 0"	16' 1", 7' 2", 10' 0"	16' 1", 7' 2", 10' 0"
Weight:	7,100#	7,400#	7,100#	8,100#
Maximum Conveying Distance:	600'	600'	600'	1,200'
Maximum Performance/Bulk*:	2-3 tons/hr.	4-6 tons/hr.	7-8 tons/hr.	5-6 tons/hr.
Maximum Performance/Liquid*:	50 gallons/min.	100 gallons/min.	150 gallons/min.	120 gallons/min.

* Performance figures are averages based on easily conveyed products at shorter distances. Many factors will affect vacuum productivity.

Options and alternative packages:

Power: Diesel, electric, L.P., explosion resistant. **Mounting:** Road legal trailer, all terrain, skid, truck, crane.

Unloader valves: Double dump, gravity, rotary airlock, and cutter valve.

Filtration: HEPA, nuclear, carbon, product specific. **Options and Accessories:** Sound Enclosures, Cyclone drum fillers, intermediate hoppers and separators, bagging stations, vacuum hose, specialty nozzles, early warning shut downs, and engineered solutions.

The Mini-VecLoader is a versatile trailer-mounted industrial vacuum loader that never needs to be removed from the vacuuming site for dumping. Minis can be used for vacuuming coal, ash, dirt, dust, sand, stone, water and slurry utilizing a four-inch diameter hose or multiple smaller diameter hoses. Minis offer rugged construction and powerful performance at a cost that allows a quick return on investment. The trailer, along with vacuuming hose and accessories, can be moved by a 3/4-ton truck. Stationary and skid mounted systems are also available.

Specifications subject to change without notice so that improvements can be made as quickly as possible.

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Specifications: Mini-VecLoader® 50 Industrial Vacuum Loader (Diesel)

The **Mini-VecLoader® 50** is a versatile trailer-mounted industrial vacuum, which never needs to be removed from the work site for dumping. Minis come in several power ranges and can be utilized for vacuuming activated carbon, coal, ash, dirt, dust, sand, stone, water and slurry using a four-inch diameter hose or multiple smaller diameter hoses. Having the same design features as larger VecLoaders, Minis offer rugged construction and powerful performance at an affordable price. Minis, with vacuuming hose and accessories, can be moved by a ½ ton truck. Stationary and skid mounted systems; as well as electric models are available.

- VACUUM PUMP:** Roots/Dresser Model 412 RCSJ Whispair, rotary lobe positive displacement blower.
- PUMP RATINGS:** Maximum ratings of 1,340 CFM and 16" Hg.
- PERFORMANCE:** Using a four-inch hose, bulk dry materials will load up to 6-7 tons per hour/or at distances up to 600'. Water will load up to 80 gallons per minute.
- ENGINE:** John Deere Diesel with locking engine enclosure. (L.P. and electric models are available).
- RATING:** 4-cylinder; liquid cooled; turbo charged; 49 HP standard @ 2,400 RPM.
- SPECIFICATIONS:** Belt drive through Rockford PTO; variable operating speeds between 1,000 to 2,400 RPM; mechanically governed; 12 volt starter, and 40 AMP alternator with internal regulator; 15"/5 blade pusher fan, mounted on water pump; dry type air cleaner.
- CONTROL PANEL:** Water temperature warning, oil pressure warning, oil temperature warning, charge system warning; hour meter/tachometer; air pressure gauge, Murphy shut down system, key switch.
- FUEL/OIL:** Fuel- #2 Diesel, 60 Gallon capacity, approximate running time 8 hours, oil - 16 quart capacity with filter.
- COMPRESSOR:** 11 ACFM with air reservoir.
- VACUUM GAUGE:** 0 - 30" Hg, glycerin filled
- COLLECTOR UNLOAD:** Collector raises to a maximum height of 8'-8", centerline 6'-0" from the rear edge of the trailer. Controls are included for automatic, cyclical discharge of collected materials. When the cyclone collector is in raised position, it is upheld by rigid support arms. Discharge is flanged to accept standard flanged gravity spout and other optional discharge valves.
- CYCLONE/BAGHOUSE:** Cyclone collector with 1/2 cubic yards (175 gallons) capacity in the conical storage section flanged. Baghouse contains 90 square feet of felted polypropylene cloth, continuously cleaned by reverse air pulses during the pulse cycle using customer-supplied air. Bag pulsing is controlled by a pressure switch and solenoid valves.
- ADDED FILTRATION:** A 185 square feet of pleated cellulose microfiltration is on the blower providing final filtration and blower protection. H.E.P.A. filtration is optionally available.
- TRAILER:** Fully road-ready with tandem 5,200 pound axles, electric brakes, hand-operated parking brake, jack for raising and lowering the trailer tongue, all lights for legal night highway operation, ball or eye-type hitch, radial tires mounted on six lug spoke rims. Length: 16'-1", Width: 7'-2", Height: 10'-0", Weight: 8,200 Lbs.

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WARRANTIES, SERVICE AND RELIABILITY:

Manufactured, warranted and serviced by Vector Technologies Ltd., Milwaukee, Wisconsin. For over 30 years, Vector has been a leading innovator of hazardous and non-hazardous material handling equipment. The Mini-VecLoader line offers the same level of quality, innovation, reliability and field tested features that have made Vector vacuums the standard for reliability and performance in the a wide assortment of industrial markets. The Mini-VecLoader carries a six-month warranty backed by Vector Technologies and its elite roster of suppliers. Assistance is available via our Toll free hot line at 1 (800) 832-4010. Vector is fully dedicated to providing the finest "after-the-sale" service and support obtainable.

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February 22, 2010

Specifications: Mini-VecLoader® 80 Industrial Vacuum Loader (Diesel)

The **Mini-VecLoader® 80** is a versatile trailer-mounted industrial vacuum, which never needs to be removed from the work site for dumping. Minis come in several power ranges and can be utilized for vacuuming activated carbon, coal, ash, dirt, dust, sand, stone, water and slurry using a four or five inch diameter hose or multiple smaller diameter hoses. Having the same design features as larger VecLoaders, Minis offer rugged construction and powerful performance at an affordable price. Minis, with vacuuming hose and accessories, can be moved by a ½ ton truck. Stationary and skid mounted systems; as well as electric models are available.

- VACUUM PUMP:** Roots/Dresser Model 418 RCSJ, rotary lobe positive displacement blower.
- PUMP RATINGS:** Maximum ratings of 1,940 CFM and 16" Hg.
- PERFORMANCE:** Using a four or five inch diameter hose, bulk dry materials will load up to 8-10 tons per hour/or at distances up to 600'. Water will load up to 100 gallons per minute.
- ENGINE:** John Deere Turbo Diesel with locking engine enclosure. (L.P. and electric models are available).
- RATING:** 4-cylinder; liquid cooled; turbo charged; 80 HP standard @ 2,400 RPM.
- SPECIFICATIONS:** Belt drive through Rockford PTO; variable operating speeds between 1,000 to 2,400 RPM; mechanically governed; 12 volt starter, and 40 AMP alternator with internal regulator; 15"/5 blade pusher fan, mounted on water pump; dry type air cleaner.
- CONTROL PANEL:** Water temperature warning, oil pressure warning, oil temperature warning, charge system warning; hour meter/tachometer; air pressure gauge, Murphy shut down system, key switch.
- FUEL/OIL:** Fuel- #2 Diesel, 100 Gallon capacity, approximates running time 8 hours, oil - 16 quart capacity with filter.
- COMPRESSOR:** 11 ACFM with air reservoir.
- VACUUM GAUGE:** 0 - 30" Hg, glycerin filled
- COLLECTOR UNLOAD:** Collector raises to a maximum height of 8'-8", centerline 6'-0" from the rear edge of the trailer. Controls are included for automatic, cyclical discharge of collected materials. When the cyclone collector is in raised position, it is upheld by rigid support arms. Discharge is flanged to accept standard flanged gravity spout and other optional discharge valves.
- CYCLONE/BAGHOUSE:** Cyclone collector with 1/2 cubic yards (175 gallons) capacity in the conical storage section flanged. Baghouse contains 90 square feet of felted polypropylene cloth, continuously cleaned by reverse air pulses during the pulse cycle using customer-supplied air. Bag pulsing is controlled by a pressure switch and solenoid valves.
- ADDED FILTRATION:** A 185 square feet of pleated cellulose microfiltration is on the blower providing final filtration and blower protection. H.E.P.A. filtration is optionally available.
- TRAILER:** Fully road-ready with tandem 5,200 pound axles, electric brakes, hand-operated parking brake, jack for raising and lowering the trailer tongue, all lights for legal night highway operation, ball or eye-type hitch, radial tires mounted on six lug spoke rims. Length: 16'-1", Width: 7'-2", Height: 10'-0", Weight: 8,200 Lbs.

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Specifications: Mini-VecLoader® 100 Industrial Vacuum Loader (Diesel)

The **Mini-VecLoader® 100** is a versatile trailer-mounted industrial vacuum, which never needs to be removed from the work site for dumping. Minis come in several power ranges and can be utilized for vacuuming activated carbon, coal, ash, dirt, dust, sand, stone, water and slurry using a four-inch diameter hose or multiple smaller diameter hoses. Having the same design features as larger VecLoaders, Minis offer rugged construction and powerful performance at an affordable price. Minis, with vacuuming hose and accessories, can be moved by a ½ ton truck. Stationary and skid mounted systems; as well as electric models are available.

- VACUUM PUMP:** Roots/Dresser Model 412 DVJ Whispair, rotary lobe positive displacement blower.
- PUMP RATINGS:** Maximum ratings of 1,340 CFM and 28" Hg.
- PERFORMANCE:** Using a four-inch hose, bulk dry materials will load up to 6-8 tons per hour/or at distances up to 1200'. Water will load up to 100 gallons per minute.
- ENGINE:** John Deere Turbo Diesel with locking engine enclosure. (L.P. and electric models are available).
- RATING:** 4-cylinder; liquid cooled; turbo charged; 99 HP standard @ 2,400 RPM.
- SPECIFICATIONS:** Belt drive through Rockford PTO; variable operating speeds between 1,000 to 2,400 RPM; mechanically governed; 12 volt starter, and 40 AMP alternator with internal regulator; 15"/5 blade pusher fan, mounted on water pump; dry type air cleaner.
- CONTROL PANEL:** Water temperature warning, oil pressure warning, oil temperature warning, charge system warning; hour meter/tachometer; air pressure gauge, Murphy shut down system, key switch.
- FUEL/OIL:** Fuel- #2 Diesel, 60 Gallon capacity, approximate running time 8 hours, oil - 16 quart capacity with filter.
- COMPRESSOR:** 11 ACFM with air reservoir.
- VACUUM GAUGE:** 0 - 30" Hg, glycerin filled
- COLLECTOR UNLOAD:** Collector raises to a maximum height of 8'-8", centerline 6'-0" from the rear edge of the trailer. Controls are included for automatic, cyclical discharge of collected materials. When the cyclone collector is in raised position, it is upheld by rigid support arms. Discharge is flanged to accept standard flanged gravity spout and other optional discharge valves.
- CYCLONE/BAGHOUSE:** Cyclone collector with 1/2 cubic yards (175 gallons) capacity in the conical storage section flanged. Baghouse contains 90 square feet of felted polypropylene cloth, continuously cleaned by reverse air pulses during the pulse cycle using customer-supplied air. Bag pulsing is controlled by a pressure switch and solenoid valves.
- ADDED FILTRATION:** A 185 square feet of pleated cellulose microfiltration is on the blower providing final filtration and blower protection. H.E.P.A. filtration is optionally available.
- TRAILER:** Fully road-ready with tandem 5,200 pound axles, electric brakes, hand-operated parking brake, jack for raising and lowering the trailer tongue, all lights for legal night highway operation, ball or eye-type hitch, radial tires mounted on six lug spoke rims. Length: 16'-1", Width: 7'-2", Height: 10'-0", Weight: 8,200 Lbs.

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Why buy a Mini VecLoader® Vacuum System?

The Mini VecLoader is the younger brother of the full size VecLoader, in a smaller package but with all of the same features and benefits of the full VecLoader. Here is what you get when you buy a Mini VecLoader:

A history of proven vacuum performance

- a) Over 30 years of vacuum experience meeting the needs of varied industries, contractors and governments worldwide.
- b) Over 3,900 VecLoader trailer units sold.
- c) Patented features and standard features not available in other vacuum systems

Features

While competitive vacuum machines may look alike, VecLoader vacuums offer many unique features. VecLoader standard and available features that should be considered when making your vacuum purchase include the following:

Power Pack & Engine Controls

An enhanced control panel on the Tier III or Tier IV diesel engine features digital displays for tachometer, engine temperature, oil pressure, fuel consumption, voltage, and engine run hours. Throttle controls are both automatic and manual. In automatic mode, the vacuum and dump cycle timer manage the engine, enhancing the ability to discharge collected materials efficiently.

The standard engine package features a locking engine enclosure. Optionally available is a fully lockable fiberglass shroud to protect not only the engine but the blower, compressor, and hydraulic components. In addition to enhancing safety, the enclosure protects key components from the elements and vandalism and can be sound attenuated where desirable.

Operating Controls

The VecLoader control panel completely manages vacuum and control functions. On/off selector switches include vacuum, hydraulic lock-out, baghouse pulse system, and vibrator controls. The design allows users to isolate individual machine functions, simplifying problem diagnostics and troubleshooting, and providing flexibility of operation. For example, the baghouse air system can be isolated and shut down without interrupting production. The curbside control location provides easy access to all critical functions, enhancing safety, and increasing operating efficiencies. Separate controls for raising and lowering of the baghouse enhance worker and job safety by avoiding pinch points, and provide for better monitoring of baghouse lifting and stowing procedure.

Baghouse & Filtration

The VecLoader two-stage collection system consists of a cyclone collector/baghouse with tangential inlet and conical storage area. The wear section consists of the replaceable inlet pipe, replaceable external wear plate, internal replaceable wear plates, upper deflectors, and a lower deflector ring. The collector utilizes Kleanprop™ Teflon coated seam sealed felted polypropylene bags continuously cleaned with reverse pulses of air while the vacuum is in operation. Each Kleanprop filter is installed with a positive filter bag clamp seal system allowing for positive sealing. Better sealing enhances environmental and blower protection and is

much more efficient than competitively offered snap-lock bags. A manway is offered for easy access to the baghouse. A magnehelic gauge is mounted on the collector to show the pressure drop across the filter bags. Secondary microfiltration is provided on the clean-air side of the baghouse for added environmental and blower protection. This filter module is also fitted with a magnehelic gauge to show the pressure drop across the filter. Hepa filtration is optionally available. A pneumatic hopper vibrator or dual vibrators can be mounted on the collector to operate during the dump cycle to assist baghouse discharge. Air tanks provide continued availability of air for both the reverse air pulse baghouse and vibrator system.

Where beneficial, the cone or the entire baghouse is coated with a two-part polyurethane or other coating for improved discharge capabilities, or corrosion protection.

Several other unique features are available on the VecLoader baghouse-

Easy access baghouse lid system (“Pop-Top”)

The material being vacuumed will determine the requirement for periodic filter bag change out. The standard magnehelic gauge monitors differential pressure. The easy access baghouse lid system makes filter changeouts far easier and faster. The lid support system allows the lid to be held and slid away from the collector for easy filter access. The need for a crane or forklift to remove and support the baghouse lid is eliminated, simplifying the logistics of both in-field and in-plant filter changeouts. Toggle clamps replace the standard bolt-down system, eliminating the need to special tools. In all, speedy access to the filters is greatly enhanced.

Modular wear sections

Users vacuuming highly abrasive material will find the VecLoader modular wear section to be a great advantage. The modular design allows for ease of replacement of the wear sections, even in the field. Maintenance turnaround and downtime is greatly reduced.

Unload & Discharge

The collector is mounted on articulated lift arms and rises hydraulically above waste containers, dump trucks, or alternative collection systems. The lift/support arms are designed to rigidly position the collector in raised positions. Adjustable safety struts provide for additional safety, support, and height variation.

For dumping of material, the system utilizes either: 1) a standard gravity dump door, 2) an optional electric driven rotary dump valve for continuous discharge during the dumping process, 3) an optional specialty double dump valve, 4) an optional system specific dumping/control device or 5) Vector’s proprietary SGV valve for controlled poly-bag or bulk bag unloading. Solid state controls are provided to automatically control the dump valve.

Other Features and Benefits

- Remote emergency stop with 100' cord.
- Screw adjusted idler for improved belt tensioning. No belt alignment required after belt tensioning. (Versus motor slide system)
- Micro-filter blower protection package.
- Baghouse coating system and stainless cages for corrosion and abrasion control.
- Two year blower warranty.
- Two year structural warranty on trailer.
- Local service center and retail houses in many markets.

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The VecLoader Advantage

Vacuum trucks have limitations since vacuum trucks combine a vacuum pump, baghouse/filtration and storage together on a single truck body. As a vacuum truck is filled, it must be taken off site to be emptied, or its contents dumped into a pile for re-handling prior to disposal. With many collected materials, a fully loaded truck often weighs in excess of its rated capacity.

The VecLoader Vacuum concept represents a unique approach to high performance industrial vacuuming. VecLoaders and Mini-VecLoaders do not have to be removed for emptying. Therefore, they can stay on the job full time without the shoveling, hoisting, dumping, and other multiple handling steps required with a vacuum truck or other vacuum systems. Regardless of configuration, each VecLoader and Mini-VecLoader model is completely self-contained so it can vacuum and directly discharge wet or dry materials into a bulk bag, dump truck, dumpster, hopper or other collection device. The VecLoader design also can also be utilized to return spilled material directly onto conveyers or into varied processing systems. Additionally, several VecLoader models feature power equivalent to Vacuum trucks at a significantly lower cost and in a far smaller footprint.

The VecLoader advantage is that unlike the vacuum truck, VecLoader storage is not integrated into the system. VecLoader and Mini-VecLoader “storage” is the aforementioned dump truck, dumpster, open-top hopper or other collection device.

Vacuumed materials are evacuated from the VecLoader on a variable timed basis, set by the user. The VecLoader’s dump timer creates a vacuum break with collected material automatically discharged from the baghouse on a preselected cycle. Dump times are established at machine set-up and are easily changed based the material being collected. On most flowable products, the dump cycle is very short, often in the 10 second range.

The standard VecLoader features a gravity dump door, which opens at vacuum break as controlled by the aforementioned dump timer. For most applications users determine that continuous vacuuming is not beneficial. Generally, a 10 second break every 10 “or so” minutes is not critical to the process, especially since the worker often cannot keep up with the capability of the vacuum. However, where continuous vacuuming is beneficial to the collection process, double dump valves, rotary valves and intermediate separators are offered. For slurries and other viscous materials, the use of a vacuum box may also be preferable versus bringing sludge into the vacuum unit. This will also allow for a continuous vacuum process.

Since 1975 VecLoaders have safely operated on tens of thousands of jobs in a wide variety of applications. VecLoaders are the premier vacuums for activated carbon recovery, surface preparation, roofing rock removal, asbestos and other environmental clean-up, fly ash recovery, mining activities, waste water treatment, cement cleanup and transport, brick and clay recovery, pulp and paper clean up and for a broad range of activities for other general and specialized industries.

VecLoaders are available in trailer and skid mounted configurations and feature diesel, electric or gas power. VecLoaders are offered to 6,190 CFM and 28” Hg vacuum. Mini VecLoader share the same design advantages but in a downsized configuration and power range.

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The Mini-VecLoader Baghouse and Filter System

The Mini VecLoader features a dual function Cyclonic Baghouse which acts as a material collector while providing primary blower protection. Additionally an inline micro-filter, as described below, is also included for filter protection in case of a primary baghouse failure. To date, Vector has sold approximately 5200 systems in this design.

The Cyclonic Baghouse's two-stage collection system consists of a 112 cm diameter cyclone collector with a 7.62 cm or 10.16 cm diameter tangential inlet and a 382 liters capacity conical storage area. A baghouse for final filtration of particulate is an integral part of the collection system. Explosion venting for the baghouse is optionally available. The wear section consists of the replaceable inlet pipe, replaceable external wear plate, internal replaceable wear plates, upper deflectors, and a lower deflector ring. Removable wear plates are provided on the complete inside circumference of the cylinder for protection against material erosion, with the first 70° replaceable from the outside. A 50° circumferential deflector plate is provided to protect the filter bags from particles entering the cyclone collector. This deflector insures that all material enters below the filter bags. The bag collector has 23 Teflon coated seam sealed felted polypropylene bags (12 m²), rated for 82° C, and is continuously cleaned with reverse pulses of air while unit is in operation. Higher temperature filter systems are also offered. A magnehelic gauge is mounted on the collector to show the pressure drop across the filter bags. A secondary filter pleated microfiltration is provided on the clean-air side of the baghouse for environmental and blower protection. Hepa and Nuclear grade filtration is optionally available. This secondary filter module is also fitted with a magnehelic gauge to show the pressure drop across the filter. A pneumatic hopper vibrator is mounted on the Cyclonic Baghouse and operates during the dump cycle to assist in module evacuation. As discussed above, solid state controls are provided to automatically dump the collected material on a preselected timed cycle with a short cycle for liquids and a long cycle for dry materials.

The Cyclonic Baghouse is mounted on articulated lift arms and raises hydraulically above waste containers, dump trucks or alternative collection systems. The lift/support arms are designed to rigidly position the collector in raised positions. Adjustable safety struts provide for additional safety, support and height variation.

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