



Frequently Asked Questions

■ How many Miniveyor™ units do I need?

Miniveyor is installed by overlapping one conveyor unit (the discharging conveyor) over the next (the receiving conveyor); using a recommended 300mm overlap. This gives a nominal length for the 3m Miniveyor unit of 2.7m. As an example, to survey a project using the 3m Miniveyor unit, you would measure the distance from the required discharge position back to the loading point and divide by 2.7m. This would give you the number of Miniveyor units required.

■ How many Miniveyor™ units can I connect?

You can connect as many as you wish as long as you have the required electrical power supply. The number of units you can run from a single Miniveyor Control Box is dependent on voltage and Miniveyor model. Please refer to the Miniveyor Operating Manual or Installation Guide or contact Miniveyor Sales.

We have been asked to supply applications that have been several hundreds of metres long. This is achieved using a combination of Miniveyor Control Boxes and Miniveyor Slave Boxes. If the project requires 40m plus of Miniveyor then we would recommend the use of 3-Phase power supply where possible.

■ 220V Single Phase Verses 3-Phase Power.

There is an advantage of using 3-Phase if possible. The motors are far more efficient when powered by a 3-Phase power supply and provide a lot more torque. It is also possible to run more motors (up to 11) if 3-Phase power is used. The same level of safety protection is achieved.

■ I want to rent Miniveyor™ for a project in my home, are they safe?

Miniveyor™ is often used in rental applications where operators are not familiar with conveyors, so every part of the system has been designed with safety in mind. The control box circuit is 24V AC and has a monitored loop safety system to prevent electrical problems. The drive units and tail roller are contained within the frame offering NO pinch or nip points and the belt edges are protected under guard. If you are choosing a portable conveyor system make sure it matches the Miniveyor™ standard. Please contact us for a User Guide.

■ How does the Miniveyor Control Box protect the Miniveyor system?

The Miniveyor Control Box is probably the most important component of a Miniveyor system as it provides the high level of safety that is built into Miniveyor. The main function of the Control Box is to provide the 24V monitored loop safety system.

The explanation of the monitored loop safety system is quite simple. The Miniveyor Control Box generates a 24V signal that 'piggy backs' the mains power (either single or 3 phase) along the entire length of the electrical system. When the Terminator Plug is installed into the last Miniveyor unit it completes the electrical circuit and sends a return signal back to the Control Box which in turn, activates the electrical relays in the Control Box and powers the system up. The 24V Safety System constantly monitors the Miniveyor electrical system and if it senses a problem will shut down the electrical system in milliseconds. The Miniveyor system will not work without the Terminator Plug, without exceptions.

■ Why does Miniveyor not use standard electrical connectors?

We have a duty of care to provide what we believe to be the safest conveyor system in the world. The use of standard connectors would override the electrical safety system so we only use custom made connectors on our system.

■ Can I change the speed on the Miniveyor?

This is a sales gimmick that some of our competitors offer. The Miniveyor is built to run at the optimum speed for loading and torque. Normally the customer cannot load the Miniveyor fast enough to keep up with its capacity so why would you need them faster. If a project requires a faster speed (up to 1.5m/second) then this can be accommodated during factory build. Increased speed sacrifices motor torque.

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**WE ARE YOUR ONE-STOP SHOP.
WHEN YOU NEED MATERIAL SHIFTED
YOU NEED MINIVEYOR.**

■ Can I load the Miniveyor™ with a Mini-Excavator?

You can load the Miniveyor™ either by hand or by machine such as a mini-excavator or skid steer loader. For larger excavators you can run the units in tandem with a double wide hopper. If it's large volume you're looking for why not consider hydraulic power and move up to 60 tonnes per hour. We can provide a number of different standard hoppers as well as custom made to suit most application. Ask for an accessory brochure to see our full range of accessories.

■ How portable is Miniveyor?

Manufactured in 1.5, 3, 4.5 and 6 metre lengths and weighing only 73 Kg for the 3m unit, they can be carried into position and set up in minutes. A composite core sandwiched between stainless steel plates means they are structurally strong while light and durable. The units stack and lock for easy mobility and no special transport is required.

As a rule we would always recommend the use of 3m units as this provide the greatest flexibility and portability. The 3m unit can easily be carried by two workers, while the 4.5 & 6m units require four workers to lift in place.

■ Why don't they come with a Hopper included?

Miniveyor™ is a flexible and versatile portable conveyor system and a wide choice of different accessories are available depending on the type of work you are doing. We prefer to give you the correct solution. Unlike other conveyors, there are no danger points so we do not need to cover up 'finger traps' with so called integral hoppers. Also Miniveyor™ is designed to be run along the ground and have no external under rollers to contend with or replace so we do not need to bolt on wheels to overcome these problem points.

■ Do I need to use side extensions?

This is very dependent on the amount and type of material that is being moved. In the conveyor industry they are known as 'greedy boards' and the common perception is that you can load much more material (overload) on the conveyors. This is not the case, and the side extension should only be employed to guide the material and keep it evenly spread on the belt. If Miniveyor is being used in straight run then normally the side extensions are only needed on the first few conveyors. After that the loaded material evens itself out on the belt.

If the Miniveyor units are being set up with a transition angle of less than 90 degrees then a side extension can be used on the far edge of the receiving conveyor to stop spillage. If the angle is close to 90 degrees then we recommend that a hand loading hopper is used to guide material onto the receiving conveyor.

■ How much space do I need to store Miniveyor?

Miniveyor™ has a small footprint and does not take up valuable storage space unlike other bulky conveyor systems. 30 metres of conveyor can be stored in an area only 300 cm long by 80 cm wide and 120 cm high.

■ I want to use conveyors on my construction site, are they strong enough?

Miniveyor™ has proven itself in thousands of applications worldwide on build, refurbishment and maintenance projects. Miniveyor™ is built for a tough and demanding environment and is corrosion free with a stainless steel and aluminium construction. The drive motors are sealed to IP67 as standard. The impact resistant control box is waterproof and the motor is protected by a thermal overload circuit to guard against damage. They couldn't be built any tougher! We have been building Miniveyor™ since the early 90's so make sure you are using the original go anywhere conveyor. If you choose Miniveyor™ you can be confident of a proven track record.

■ I only need to use them for a short project.

Can I rent the Miniveyor?

YES, we have a team of six specially trained operators available to help you with your conveying requirements, we are sure to put your mind at ease. Miniveyor has a purpose built pricing app that will enable us to price your job, within one hour of a site visit.

■ Are they difficult to maintain?

Miniveyor is designed so that the end user can do the maintenance. Everything is replaceable and can be kept in service very simply.

■ Who uses Miniveyor?

Miniveyor is used by the world's leading construction and mining companies for confined space working.

■ Miniveyor History

Miniveyor was designed and brought to market in 1991 by RAKO Products Ltd. The product was sold globally to the world's construction and construction equipment rental companies through a network of distributors.

In the early days the units were installed with two motors. In 2002 a new motor was introduced for the US market and is now installed in the current single motor High Power Miniveyor model, 3M40 & 3M52. This provides a 25% increase in both speed and power over the older twin motor models and has decreased the weight of the 3M40 unit to 73 kg.

In February 2009 the company was bought by the current owner and the name was changed to Miniveyor Products Ltd.

miniveyor.co.nz

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