

SIU – Smart Inspection Unit

The all new Roteck smart inspection unit is built on an only 120 mm high elevating access platform in operation position (depending on tire size) and covered by a rigid steel structure whilst cladding is made from light weight steel sheeting. The unit has 4 lockable doors for multiple and convenient entry and exit and can be employed for random checks or event screening. Weight is depending on equipment but does not exceed 750 Kg for easy towing.

Two 120 W solar panels on the roof and one 12 V / 100 A battery inside the unit ensures power independent operation of all fitted detection equipment as two single panel “pass by” metal detectors RTS-5 and two non radiation BagScan 4 for fast, easy and secure personal screening (alternatively one x-ray scanner for detection of drugs and explosives). Once arrived at destination and unhooked from the towing vehicle, the entire unit can easily be lowered by a winch to its final position and is fully operational in less than 5 minutes.

Some equipment can be chosen or added to requirements. The trailer base is also suitable for other mobile applications where easy and convenient access is required.



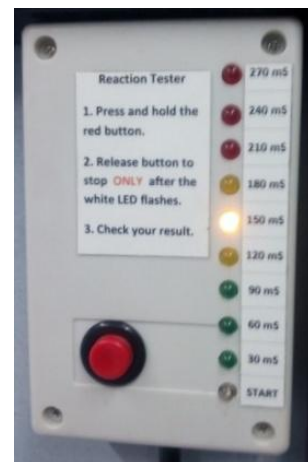
Unit in operation position



Ready for towing



Unit exit side view



Front view, two screening lines, on board reaction tester to pre check for alcohol or drug consumption

Introducing S I U one, the all new Smart Inspection Unit from Roteck South Africa

What is mobile inspection?

A flexible arrangement of detection and inspection equipment fitted into an elevating platform trailer unit for immediate deployment, ideal for random, event or crowd screening. The onboard solar panels generate sufficient power including backup battery capacity to operate the unit for up to 12 hours without recharge.

Why S I U one?

The Smart Inspection Unit from Roteck is worldwide the first of its kind, 100% locally developed and proudly manufactured in South Africa.

How does it work?

Similar to airport security the unit has two walk through metal detectors and two bag scanners on board in order to detect threats like guns and knives before entering a premises. The two detection lines allow up to 35 screenings per minute which equals 2.100 screenings per hour with the aim of enhanced safety and security.

What is a metal detector?

Metal detectors are proven electronic equipment to detect any metal passing through the unit, giving a sound alarm and optical area indication with any detection of metal parts above threshold. For clearing search there are hand held detectors and other equipment on request on board.

What is a bag scanner?

Before passing through a metal detector, all metal parts have to be removed and screened separately. The Roteck BagScan 4 is a light weight and power efficient none radiation unit (no x-ray) and was developed for the purpose of mobility, keeping privacy and discretion whilst giving screeners a clear and real picture of any concealed content. Difference to common X-ray scanners is, bags and boxes have to be opened or smaller items to be dropped on a tray, allowing the internal HR cameras a clear view during screening. All footage and voice close to the unit will be internally recorded and transmitted via internal Wi-Fi to authorized assistant screeners.

How to setup the unit?

At the unit's arrival the trailer can be unhooked from the towing car and the platform lowered by a winch, which enables for one step entry/exit for both screening lanes. The unit is fully operational in less than 5 minutes.

What are the advantages?

The unit's compact design and mobility has the advantage of carrying a lockable shelter on wheels which can be moved and redeployed elsewhere within minutes after operation. The balanced weight allows towing even with smaller towing vehicles and batteries getting charged if necessary after connecting to the towing vehicle. Mobility lowers the risk of any weather condition, theft and vandalism. The advantage of random screening at schools is the surprise effect as learners cannot prepare or try to bypass.

What does it cost?

Nothing - as we at Roteck have not only developed this unique unit but also viable financial options, starting with nothing. How? Especially to assist schools with the aim of lowering violent crimes we are looking to finance this project with sponsors and advertisers who care for future generations which are also potential future customers. The school project requires the recruitment of voluntary screeners, e.g. learners from higher grades. We also hire the unit out for private and commercial events, inclusive full service.

The Roteck Way



We also offer similar financial options for fixed installations in all public accessible places. Please visit our website "theroteckway.co.za" for details or simply contact us (details below) for more information.



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