



Ams

**BULK QUANTITY SURVEY SOLUTION**

***RONIN SOLUTIONS***

## WHAT IS

## Aims?



The **Aims system** is the revolutionary new system available for bulk quantity surveying of bunkers, grain and commodity silos as well as open to air stockpiles. The system consists of a levelling tripod, the **Aims laser rig** and the **Aims recorder software package**.

## SURVEYS DONE WITH THE AIMS

## WHAT DOES Aims DO?

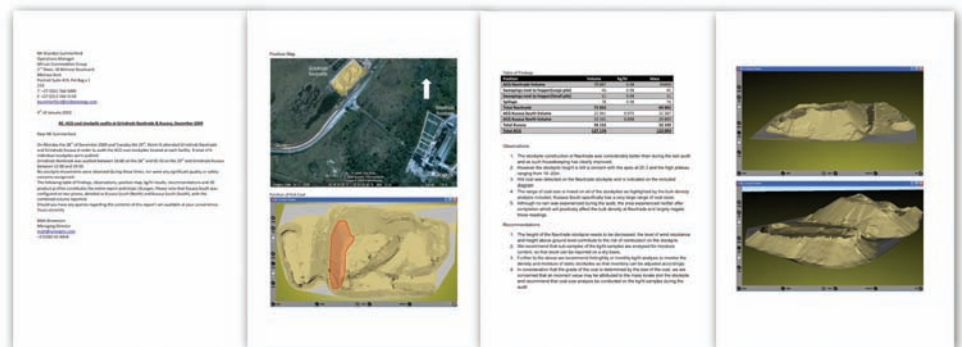
By utilising the Aims system a Ronin surveyor can conduct moments in time audits, displacement audits as well as supply verification audits. These audits are of huge value to all bulk commodity handlers since ships, railway and road transport can be planned with greater ease.

Collateral managers and financial institutions can now know the exact position and quantity of their collateral bulk in storage and or the location within the supply chain.

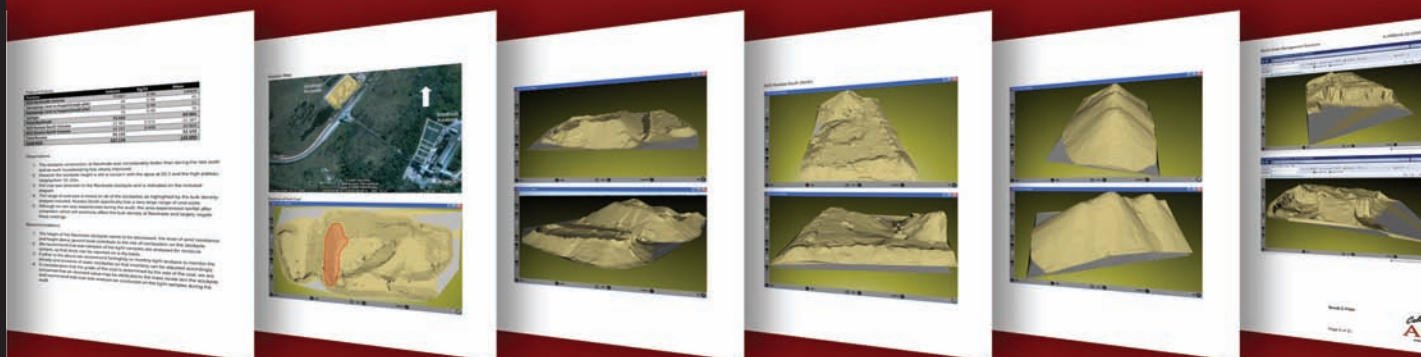
## THE Aims REPORT

Once an Survey has been completed an AIMS Report will be supplied to the client.

Typically an AIMS report will contain an informative 3D product profile and height graphs along with bulk density reports obtained by the Ronin developed Bulk Density Analyser (BDA).



# AUDITS



# BULK QUANTITY SURVEY SOLUTION IN SOLUTIONS

**RIG ARE FAST, ACCURATE AND COST EFFECTIVE.**

## THE BULK DENSITY ANALYSER

Ronin GMS is constantly refining its systems and developing new ones for other applications. The latest augmentation to the AIMS system is the BDA (Bulk Density Analyser).



The BDA

It is a mobile automated hectolitre device that accurately and easily measures the bulk density of stock piles. This device has been designed and engineered by Ronin GMS at its Johannesburg premises. The device has a 100l bucket that is filled in 3 stages to ensure proper compaction of the sample. A 100l container mounted into a wheelbarrow configuration, is manually filled and docked with the BDA. The unit is then winched up along rails and deposits its load in a second 100l bucket. Once it is filled the bottom of this bucket is opened. The final 100l container, a cylindrical steel drum, is filled and moved onto the scale. When it is moved onto a scale the levelling blades ensure that the drum is filled to the level. The drum is then weighed. The cycle is repeated to obtain reliable data applied by the AIMS software to generate the overall mass of a stock pile by combining mass and density data with occupied volume.

RONIN IS USES Aims

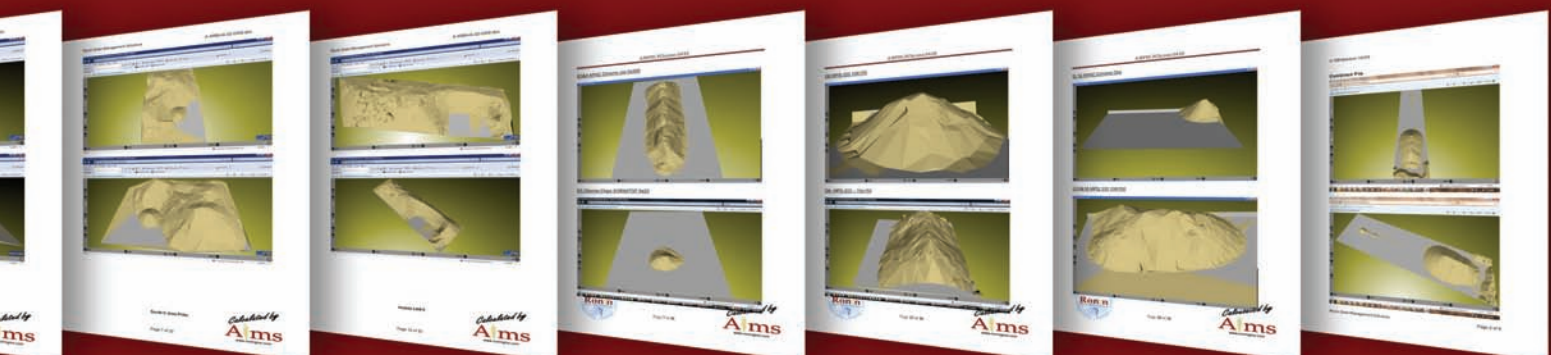


Ronin Independent Surveyors Pty. (Ltd.) carries out all types of Marine and Cargo related survey work as an Independent representing a number of clients including: Ship Owners, Charterers, Shippers, Receivers, Stevedores, Flag States as well as other International Inspection Companies, both at Port and Inland locations.

Ronin IS head Office is in Richards Bay, with branches in Johannesburg and Durban as well as associate representation in Maputo for all Mozambique Ports. Due to our proximity to Maputo much of this work is conducted directly by Ronin Independent Surveyors.

The AIMS rig.

AIMS was developed to audit open air stock piles and bunkers. It is a free standing unit comprised of a laser, tripod and a computer running proprietary software. This system can be used by a single operator or a team to accurately determine the occupied volume and mass of a stock pile or bunker in three dimensional space. Bulk density samples are taken and then applied to compute total mass.



# RONIN SOLUTIONS



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