



Ronin

Ronin

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ART ART+ Artemis
Laser Scanning System

YOUR INVENTORY MANAGEMENT SOLUTION

The world has never before seen commodity handling, trading and logistics being so important to develop countries, trading blocks and nations as it is today. Cereal grains, oilseeds, minerals and derivatives are traded in real-time and are managed and financed by small to big trading houses and banks around the globe. Commodities are costly to produce, transport and store and difficult to account for on a daily basis. ART is the only Inventory Management system that balances your physical stock on site to your transaction records delivering risk mitigation unlike any solution before.



SILOS & BINS

ART & ART+

ART has been developed over the past 10 years to originally be installed in grain silo bins and deliver a real-time knowledge of quantity and quality inside grain bins. Further developments saw the ART system being integrated over wide area networks and collating remote facilities data to a real-time head office element.

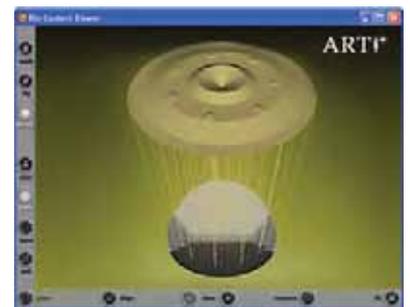
Today we offer this solutions throughout southern Africa as well as internationally to the milling, mining and industrial sectors. One of the largest grain handling & storage companies in South Africa had ART systems installed in 65 grain silo facilities and now has the ability to source complete stock positions at the click of a button. Alternatively ART+ scans along a single axis and delivers a accurate profile on oversized bins where even small profile deviations translate into thousands of tons.



Above: ART Site Overview Screen



Above: ART Single Bin History Page

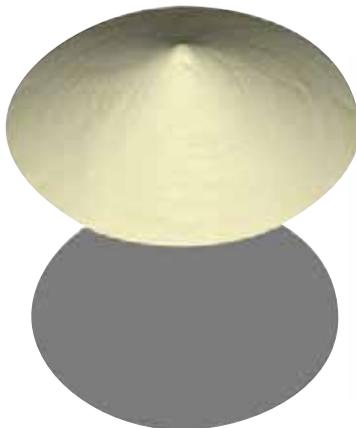


Above: ART+ 3D Profile Screen

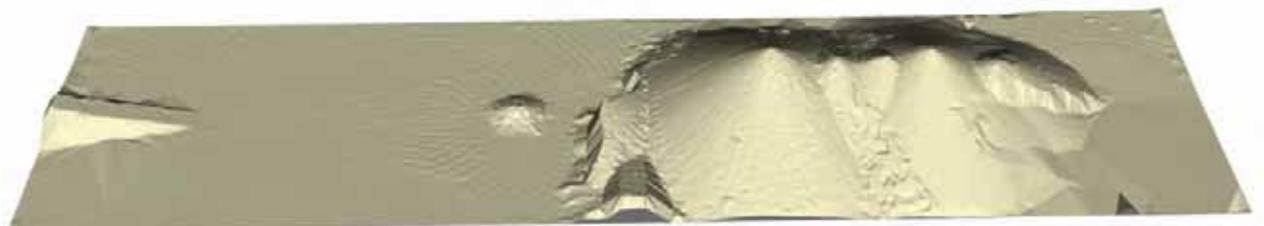


BINS, BUNKERS, WAREHOUSES & STOCKPILES

Since not all commodities are stored in silos we introduced our ARTEMIS scanning laser systems to commodity handlers using flat warehouses. ARTEMIS offers great flexibility in design to accommodate a huge variety of layouts and warehouse designs including open to air stock piles. Various ARTEMIS scanning lasers can be used in conjunction or individually to cover profiles with great accuracy in oversized bins and generate accurate 3D profile in flat warehouses.



Above: Profile scan of a 30m diameter bin at various stages during storage.



Above: Profile scan of a 150m long x 45m diameter flat warehouse containing soya meal.



BINS



WAREHOUSES



STOCKPILES

Control at ART your fingertips

HEAD OFFICE AWARENESS FOR INTEGRATION AND STOCK MANAGEMENT

The Ronin ART Head Office Server (H.O.S) augments the ART system by enabling the user to manage silos and flat warehouses, stockpiles and relating information under management from a single work station.

ART H.O.S allows the incorporation of all transactional data, including grading, such as bulk densities and moisture, to be acknowledged from each batch received and then apply the respective weighted average data to each relative silo, warehouse or stockpile.

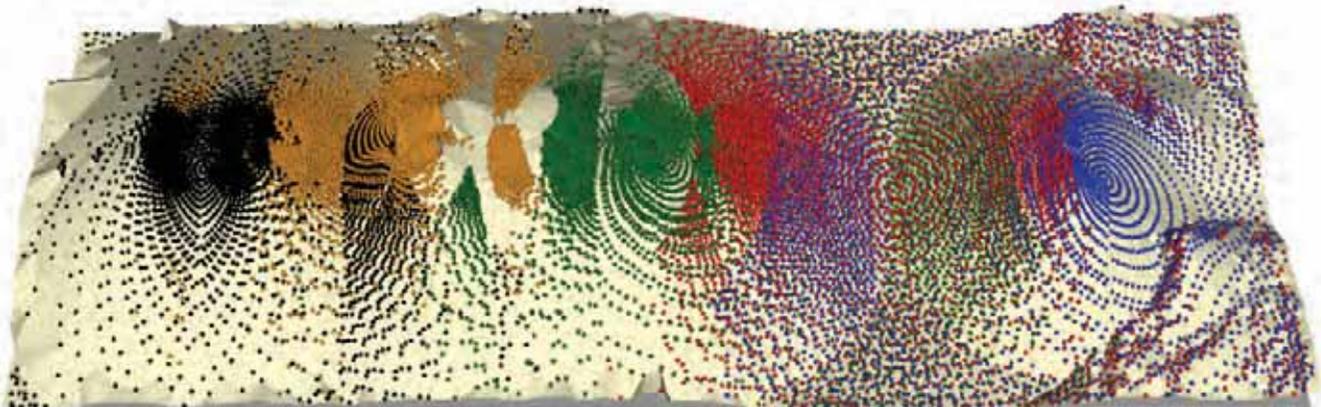
ART H.O.S makes head office awareness a reality and enables the monitoring of all actions taking place on multiple sites.

ART ART TRANSCAT BIN INFORMATION CHART

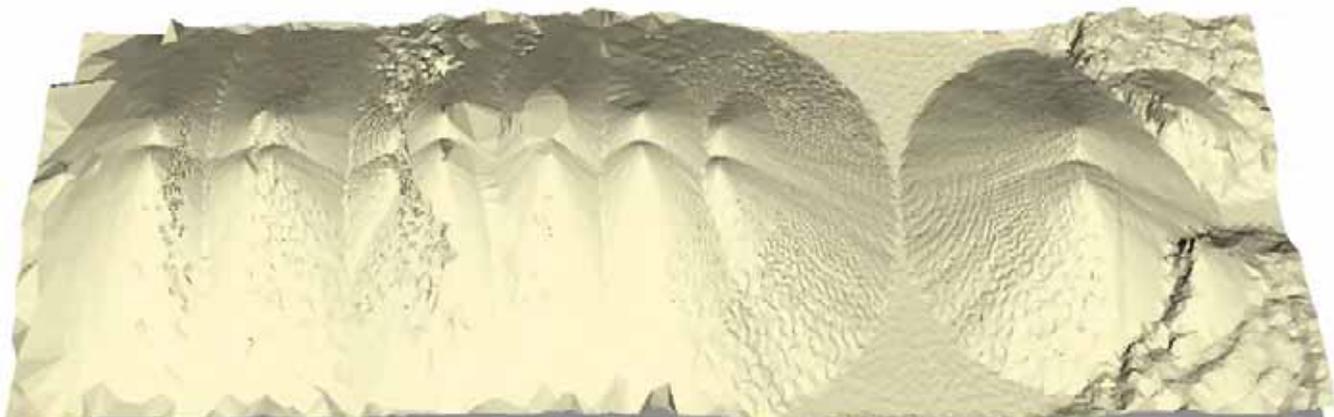
Site Code: 453 Bin Information Chart Last Update: 2/19/2009 07:00
 Today: 8/25/2009 7:00 Site Name: Art West Valley 2/19/2009 23:59

Bin #	Grain Type	Grain Grade	Quoted Volume Today	Average Bulk Density	Moist Today	Available Capacity at 80%	Percentage Full	Average Moisture	Average Broomings	Average Protein	Average Ft. Seconds	Area of Bin (Sq)
01	Soybean	SR	1,150	0.719	2.513	1,018	71.1%	11.1%	1.2%	30.2%		22,427
02	Soybean	SR	1,142	0.721	2.516	2,865	250%	12.0%	4.1%	30.0%		33,054
010	Soybean	SR	1,154	0.716	2.517	840	44.3%	9.8%	2.1%	0.0%		21,101
012	Yellow Maize	W42	79	0.768	81	3,241	24%	12.2%	1.1%	0.0%		48,300
012	Wheat	SR	105	0.768	104	2,271	5.5%	12.8%	1.1%	10.0%	275	47,001
013	Yellow Maize	W42	711	0.781	108	1,787	11.3%	11.0%	2.2%	0.0%		34,878
014	Wheat	SR	1,182	0.771	1,075	1,008	51.1%	11.4%	1.8%	8.9%	143	24,547
05	Soybean	SR	197	0.747	303	918	15.6%	9.9%	0.9%	0.0%		47,034
04	Soybean	SR	208	0.738	311	1,027	4.9%	11.0%	2.1%	34.0%		48,117
05	Yellow Maize	W42	1,135	0.765	1,008	1,137	47.8%	12.9%	1.1%	0.0%		27,400
06	Yellow Maize	W42	37	0.771	29	2,284	1.2%	13.5%	2.8%	0.0%		65,510
07	Yellow Maize	W42	1,400	0.776	1,080	1,343	16.7%	11.8%	2.6%	0.0%		24,189
08	Empty Bin		0	0	0	0	0%	0%	0%	0%		54,000
09	Soybean	SR	183	0.742	317	1,309	11.7%	11.5%	2.1%	0.0%		47,000
23	Soybean	SR	140	0.736	108	109	20.8%	8.9%	1.8%	0.0%		61,300
234	Wheat	SR	144	0.715	303	387	19.6%	11.7%	4.3%	4.9%	148	48,164
225	Soybean	Screenings	52	0.740	11	108	7.8%	13.1%	100.0%	16.0%		48,000
027	Soybean	SR	873	0.750	399	920	74.7%	12.1%	0.9%	0.0%		48,873
015	Wheat	SR	88	0.746	73	8,868	1.3%	13.0%	3.7%	11.0%	348	48,774
016	Soybean	SR	6,853	0.754	2,813	400	85.3%	9.6%	1.1%	0.0%		10,744
117	Wheat	SR	115	0.745	86	3,323	5.5%	12.7%	1.9%	10.0%	308	48,103
018	Wheat	SR	1,440	0.784	1,099	1,417	44.1%	12.6%	1.1%	17.0%	307	24,418
019	Wheat	SR	546	0.728	482	5,365	8.5%	12.8%	1.3%	10.0%	374	44,582
020	Wheat	SR	1,712	0.749	4,313	1,149	24.0%	12.8%	1.3%	11.0%	208	15,190
021	Wheat	SR	1,107	0.737	2,877	1,240	39.8%	12.9%	0.7%	10.0%	206	34,001
022	Soybean	SR	1,917	0.734	4,100	1,173	24.0%	11.4%	0.7%	14.0%		73,440

Above: One of various Reports available is the " Bin Information Chart" .



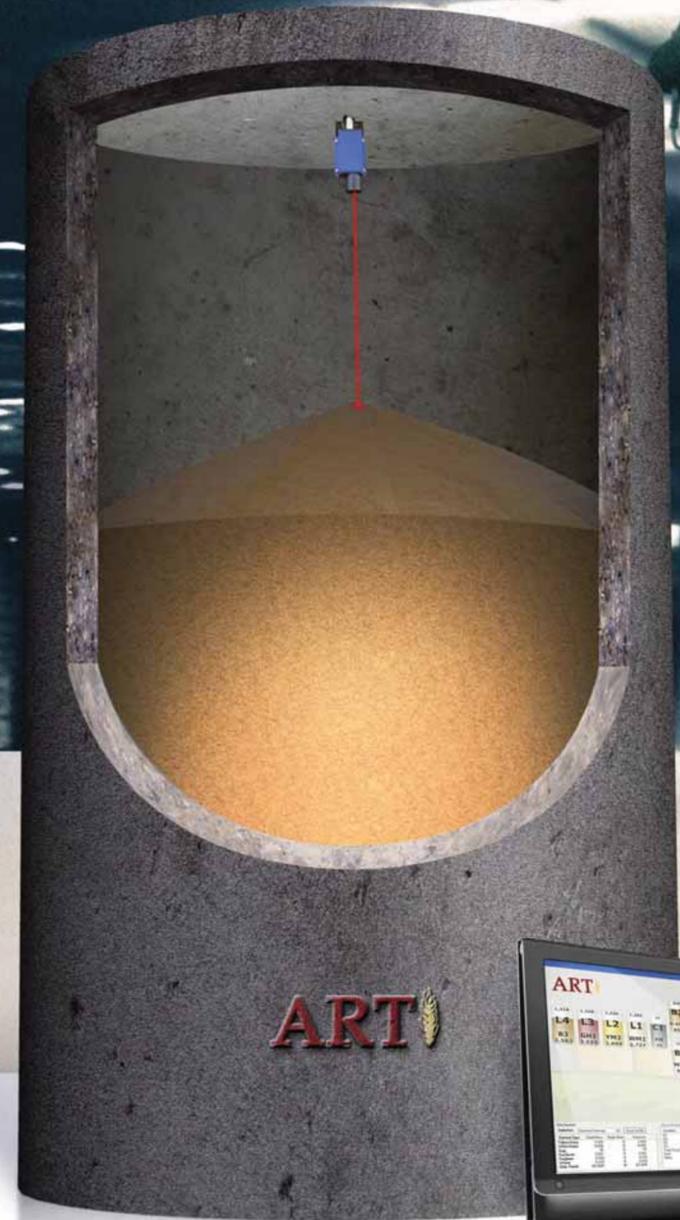
Above: Incorporated ARTEMIS scan showing data plot points of 5 individual ARTEMIS laser scanners.



Above: Processed ARTEMIS scan reflecting accurate volume within flat warehouse.

RonIn

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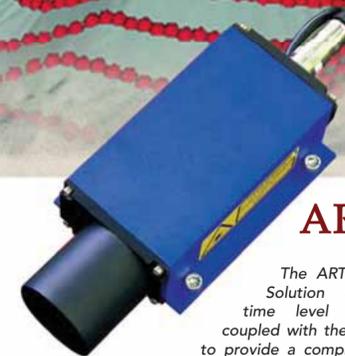
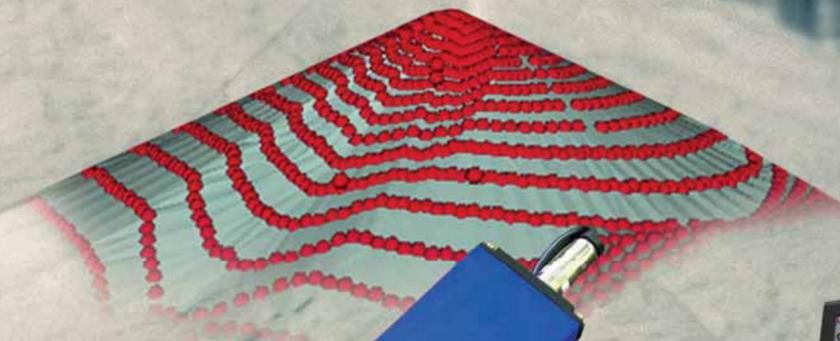
The Artemis Laser Scanning System is ideal for oversized silo bins, Bunkers and warehouses and open to air commodity stock piles. Artemis is a Multi-Axis scanner that produces highly accurate 3D profiles that are ideal for volume and mass calculations.



ART+



The ART+ Solution is best for large silo bins where a more precise profile is required in order to insure greater accuracy. The ART+ Solution is a single axis scanner that scans along a straight vector to record bin profiles with greater accuracy.



ART



The ART Single Point Solution delivers real time level measurement coupled with the ART software to provide a complete inventory management solution.

