

ART+® BULK INVENTORY MANAGEMENT

Silo storage management solution for single and multiple facilities



Effective inventory management
for bulk commodities stored in silo bins
with *multiple draw points*

ART+ 



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YOUR INVENTORY MANAGEMENT SOLUTION FOR SILO BINS

The ART+® solution offers a convenient and cost effective laser scanning system for silo bins. Silo plants providing long term storage vary in construction and demand from processing plants generate high volume inventory movement. Art+ was designed to accommodate constant filling and discharging as well as compensate for irregular silo design. Art+ laser scanners function exceptionally well in silo bins with single discharge, conical floors and are also effective in bigger silo bins with multiple, self-emptying discharge points. Our AIMS® software is responsible for processing each 180 degree scan into a full 3D presentation of the profile. Confidence factor and validated scans are published into ART® software from where the operator can manage and report accordingly.



ART+® SILO BIN APPLICATION

ART+ IS USED INSIDE SELF EMPTYING BINS WITH SINGLE OR MULTIPLE DRAW POINTS

ART+ IS IDEAL FOR BINS ABOVE 10M IN DIAMETER

LARGER BINS MUST HAVE SELF EMPTYING FLOORS

0-10 Metres
Self Emptying Floors

10-20 Metres
Semi-self Emptying Floors

ART+ SCANNER

The ART+ inventory management solution incorporates a **rugged industrial laser scanner** that is **mounted inside the bin**. This scanner is capable of sourcing highly accurate profile trace scans.

SITE LAYOUT

KEY

- CENTRAL CABINET
- ETHERNET
- 24V DC POWER
- ART+ SCANNER
- PROFILE TRACE

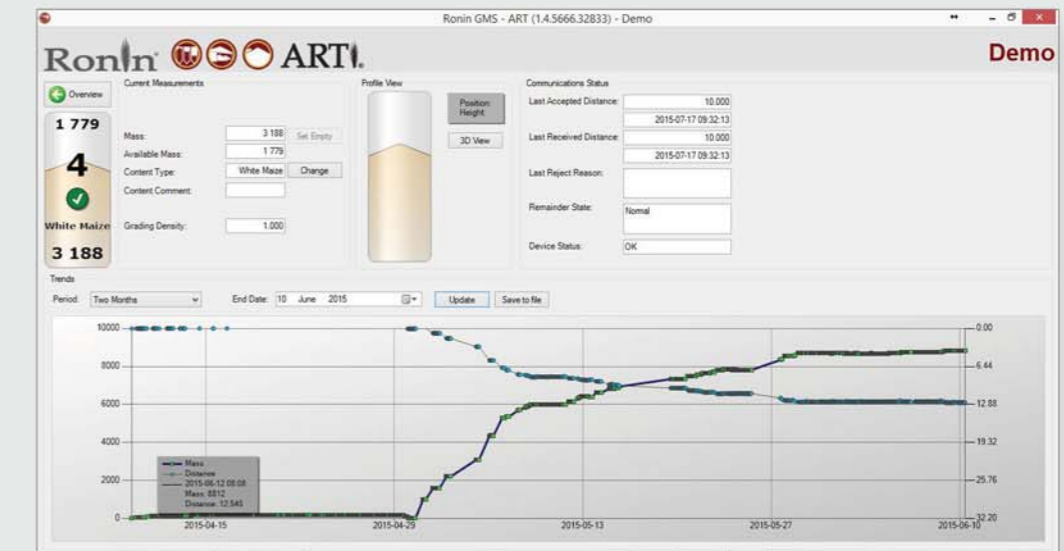
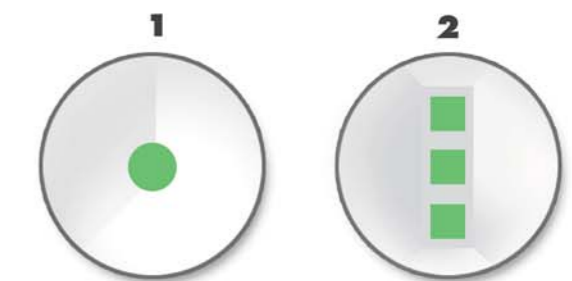
COMMUNICATIONS



The ART+ system uses an ethernet communication platform between devices and the silo operators office. The connection can be wireless or hard wired.

TYPICAL INSTALLATIONS

ART+ is recommended for **1)** smaller bins that have a single drawing point **2)** larger bins that are self emptying with multiple draw points.



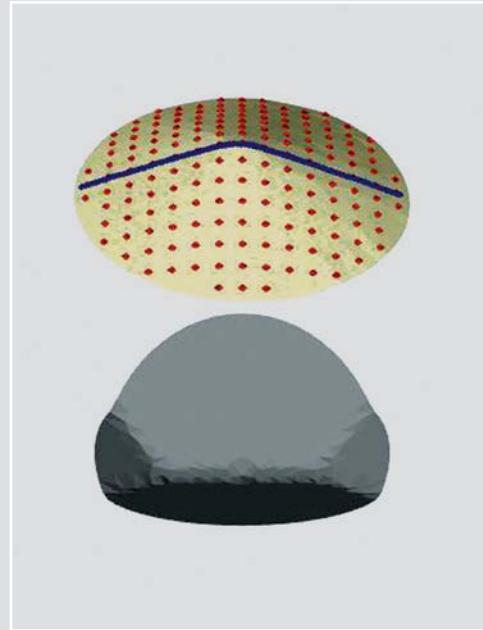
THE ART+ SOLUTION ALLOWS YOU TO BALANCE YOUR STOCK ON A DAILY BASIS. MANAGE ON SITE OR MULTIPLE SITES FROM THE HEAD OFFICE. PUBLISH REPORTS & MONITOR TRENDS.

ART+[®] 2D to 3D SURFACE MAPPING

1: SINGLE AXIS BIN SCAN



2: PROCESSED BIN SCAN



PROCESSING 2D TO 3D FOR GREATER ACCURACY

The ART+ scanner performs a single axis profile scan of the bin content. AIMS software rotates the profile 180 degrees to create a 3D surface map. In order to ensure accurate volume reporting AIMS further processes the scan data to incorporate flow dynamics and historical movements. The resulting 3D surface map reflects the actual bin state to ensure that accurate volumes are reported by ART.

ART[®] COMPONENTS



ART+[®] SCANNER



MOUNTING
BAR



ART[®] APPLICATION



ART[®] MANUALS



ART[®] CONTROL BOX

OTHER RONIN[®] BULK COMMODITY INVENTORY MANAGEMENT SOLUTIONS



Silo Bins/Single Fill & Draw
ART[®] Single Point Level Measurement



Warehouses, Bunkers & Bins
Artemis[®] 40 3D Surface Mapping



Open Air Stock Piles
Artemis[®] 300 3D Surface Mapping