



TAKE CONTROL OF YOUR SORTING PROCESS
with real-time RFID tracing technology and
sensor-based ore sorting.



Sorter Auditing System

AUTOMATED AND DIGITISED SOLUTIONS

ENABLING REAL-TIME PROCESS OPTIMISATION

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TRACER SELECTION

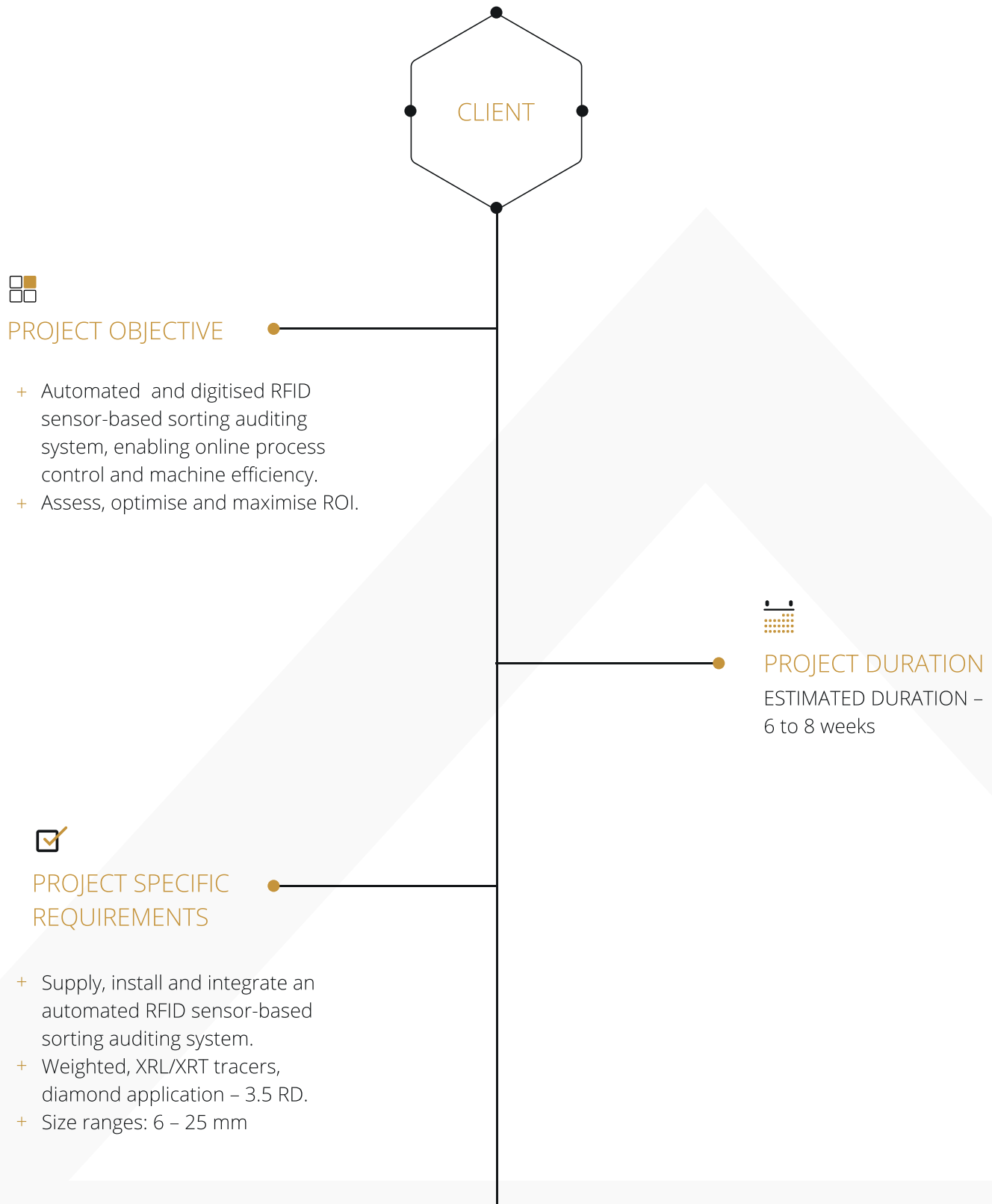
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AUTOMATED AND DIGITISED SOLUTIONS



SORTER AUDITING AND OPTIMISATION

INTRODUCTION

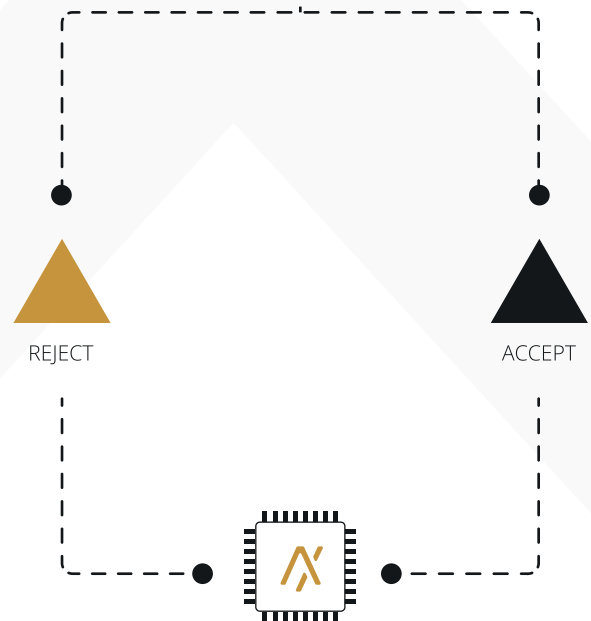
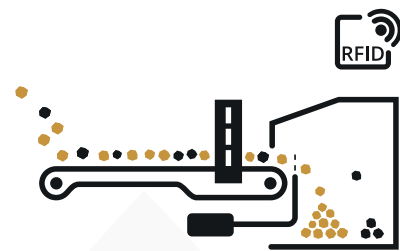
- Incorporating STARK **real-time process** monitoring applications to enable process control and optimisation.

- The STARK sensor-based sorting **auditing system** evaluates functionality of hardware with RFID tracers to provide real-time results.

- **CONTROL PRODUCT AND REJECT SEPARATION CALIBRATION**

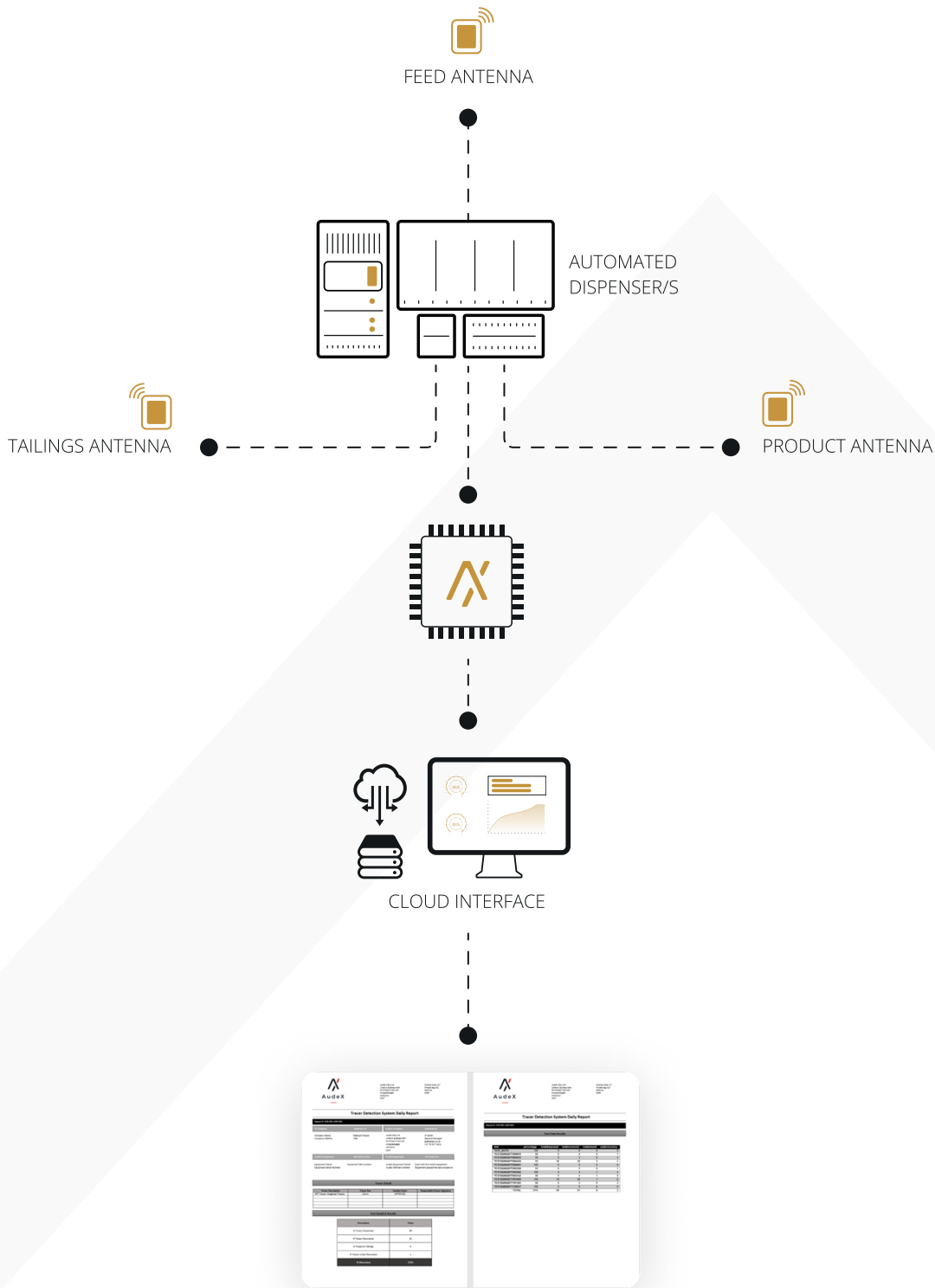
Immediate response on recognised anomalies.

- Online access to system's remote maintenance and updates, real-time data accrual, anomaly detection.



SORTER AUDITING AND OPTIMISATION

SYSTEM OVERVIEW



TRACERS SELECTION

RFID DIAMOND VERIFICATION TRACERS

The RFID diamond verification tracers provide online and accurate results for your XRT or XRL machines. This enables real-time process control with STARK's proprietary auditing system.

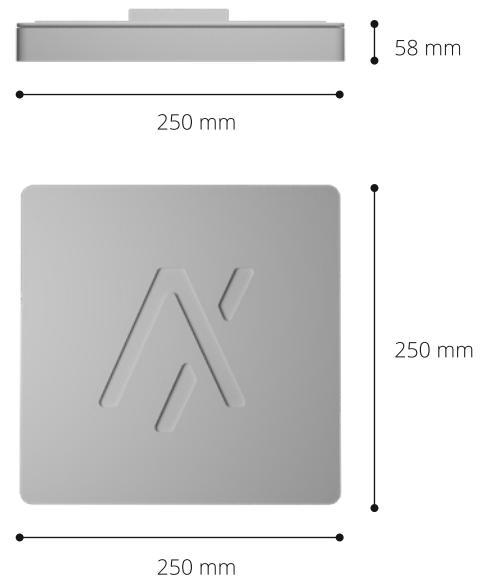
- + Embedded with unique RFID tags
- + Sizes range from 6 – 50 mm
- + Diamond density simulant fixed at a relative density of 3.5 [g/cc]
- + Lead free
- + Each tracer undergoes a verified QC/QA process



EQUIPMENT SELECTION

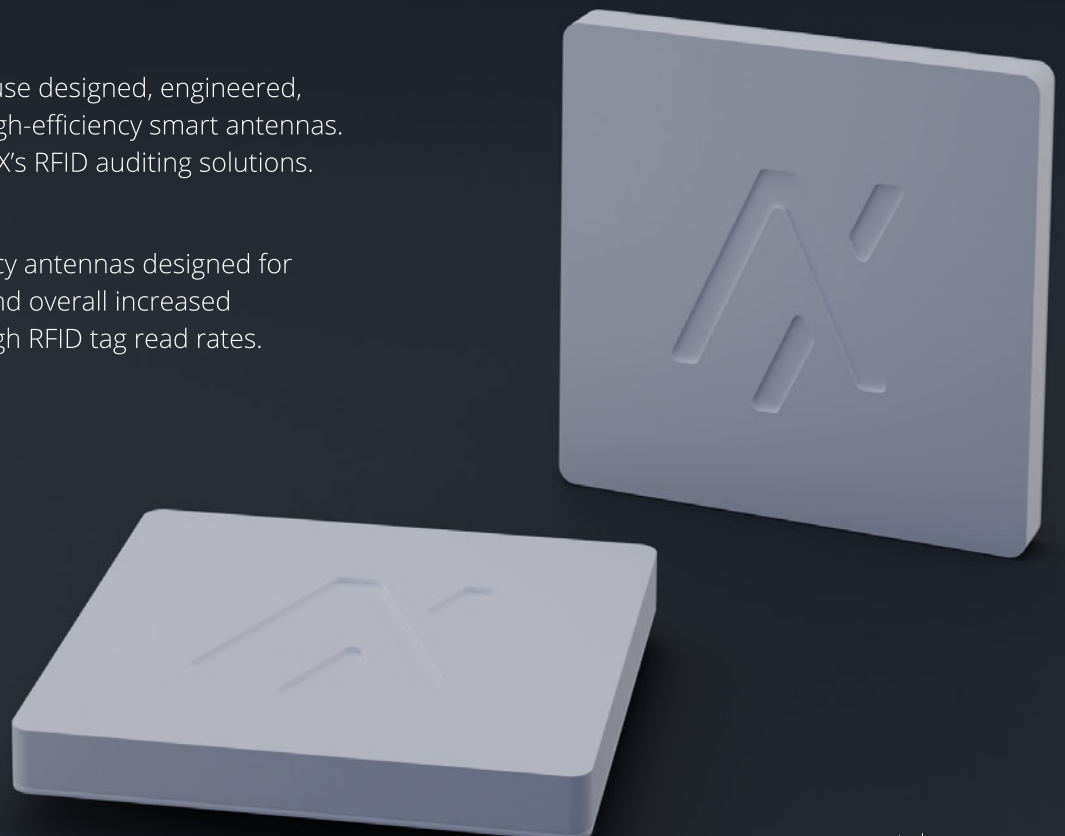
DETECTION EQUIPMENT | ANT2501

| | |
|--------------------------|-------------------------------------|
| POLARISATION TYPE: | CIRCULAR |
| FORM FACTOR: | STATIONARY FIXED |
| CONNECTOR TYPE: | TNC FEMALE |
| CONNECTION LOCATION: | BACK PANEL MOUNTED |
| PRIMARY FREQUENCY RANGE: | 915 MHZ – 919 MHZ |
| VSWR \leq 1.8:1: | 1.3 – 1.5 |
| INPUT IMPEDANCE: | 50 OHM |
| DIMENSIONS: | 250 MM X 250 MM X 58 MM / L X B X H |



Market leading, in-house designed, engineered, and manufactured, high-efficiency smart antennas. compatible with AudeX's RFID auditing solutions.

Robust radio frequency antennas designed for superior readability and overall increased durability, enabling high RFID tag read rates.



EQUIPMENT SELECTION

AUTOMATED DISPENSER | ADU1518

APPLICATION:

BENEFIT:

CONTROL:

CONNECTION:

POWER REQUIREMENTS:

OPERATING:

SETUP:

DIMENSIONS:

INTERFACE WITH AUDEX AUDITING SYSTEMS

24-HOUR PROCESS VISIBILITY

SBC, WIRELESS REMOTE ACCESS AND FAULT FINDING

ETHERNET CAT6 CABLE

220 V

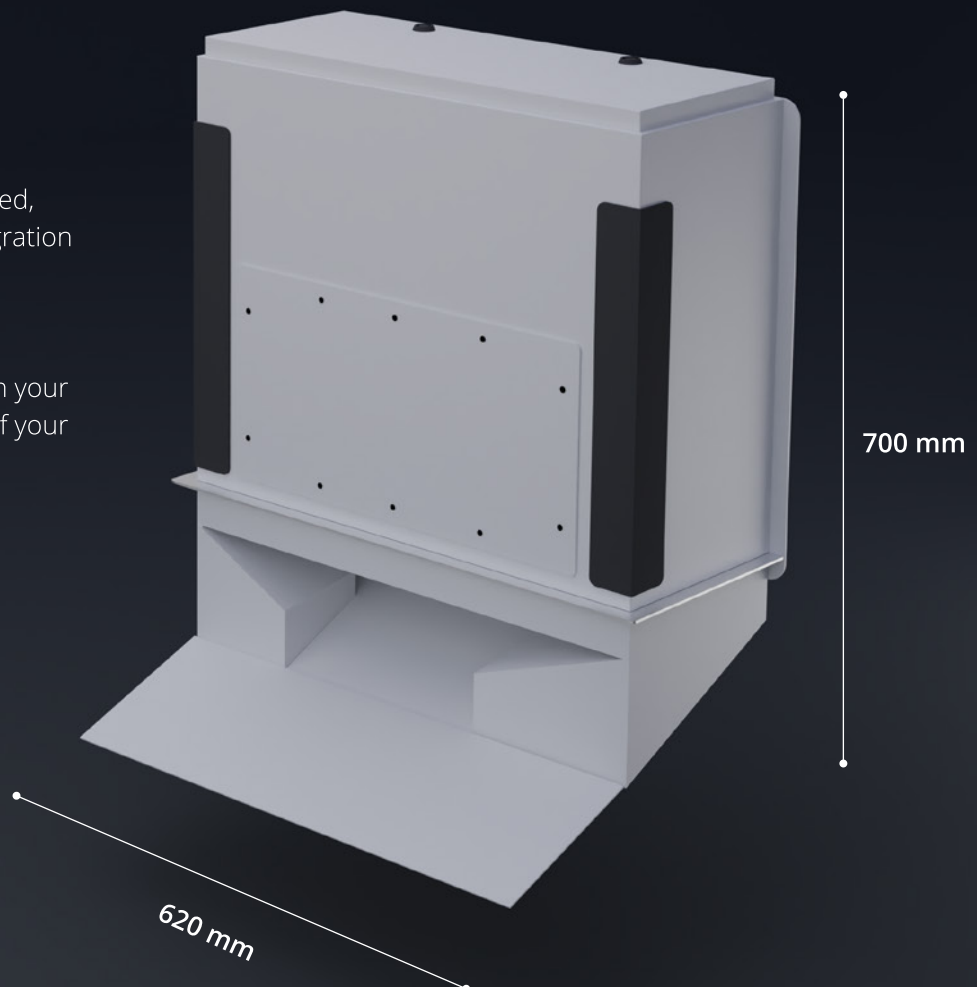
LEVEL INDICATION AND ALERTING

HMI SETUP OF DESIRED TIME INTERVALS

700 MM X 620 MM X 150 MM

Automated tracer dispensing unit, designed, engineered and tested for seamless integration into the RFID auditing system.

Control and manage tracer deployment in your system obtaining 24-hour transparency of your process, eliminating human interaction.



STARK

R E S O U R C E S



James
Derbyshire

SENIOR PROCESS ENGINEER
B.Eng Chem

jamesd@stark-resources.com

GET IN TOUCH!