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**Unlocking Maintenance Efficiency and Supply Chain Resilience
in Mining through Digital Integration and Spare Parts
Optimisation**



The Problem

Fragmented integration between supply chain and maintenance functions has caused severe inefficiencies, including chronic spare part shortages, paper-based goods receipt processes, missed production targets, extended equipment downtime, and reactive procurement.



How Staging and Consolidation Streamline Supply Chains

Staging and consolidation are transformative strategies for mining supply chains:



**Reduced
Logistics
Costs**



**Improved
Inventory
Management**



**Increased
Efficiency**



**Enhanced
Visibility and
Data
Integration**



**Better
Decision-
Making**



**Proactive
Maintenance**





1. Streamlined Material Flow

Reduced spare part movement chaos through a fit-for-purpose network design.

2. Resolved Planning Bottlenecks

Eliminated delays from siloed systems and poor staging, improving mine planning and vendor coordination.

3. Enhanced Part Traceability

Reclassified SAP data and launched a mobile app to track thousands of spare part SKUs.

4. Digitized Goods Receipt

Mobile app boosted process capability by 1500% and achieved 96% same-day receipts.

5. Integrated Kitting with SAP

Aligned kitting and staging with Work Orders to unify supply chain and maintenance teams.

6. Centralized Planning Hub

Enabled proactive maintenance via a kitting hub and real-time dashboards for spares visibility.

Key Implementation Steps in Mining

1. Data Integration

Connect work order systems with ERP and supply chain data sources.

2. Automated Processes

Use ERP/SCM tools to identify parts needed and suggest consolidation opportunities.

3. Staging Areas

Establish physical locations for gathering and preparing parts.

4. Systematic Data Management

Maintain accessible data infrastructure for reporting and planning.

5. Workflow Integration

Train staff to adopt new workflows leveraging integrated systems.

Key focus areas for this specific client



1. Align with Work Orders

Establish physical and transactional capabilities for staging based on Work Order needs.



2. Optimize Storage Capacity

Implement Vertical Storage Units (VSUs) integrated with SAP to enhance small bin areas.



3. Upgrade SAP EWM

Enable standardized integration with Plant Maintenance for better staging and consolidation.



4. Automate Consolidation

Deploy system-driven processes to consolidate materials from onsite warehouses.

The Results

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\$8.3m

Reduction In Sales Expenditure



90%

Increase in spares velocity and availability for low-value, high-volume items



40%

Improvement in material flow visibility



30%

Reduction in vendor vehicle congestion on-site



Automated

Introduction of automated goods returns processes



60%

Reduction in manual expediting efforts



80%

Reduction in process variability

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