



WAREHOUSE DASHBOARD

VERSION – 1.0.0.0

DEVELOPED BY

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INTEGRATED WITH

MICROSOFT DYNAMICS 365 BUSINESS CENTRAL

FEATURE DOCUMENT

Overview

A complete Power BI Analytics solution integrated with Microsoft Dynamics 365 Business Central, designed to provide warehouse managers, inventory controllers, supply chain teams, and business executives with comprehensive visibility into inventory operations, stock movement, warehouse performance, production activities, and supply-demand planning.

The solution transforms warehouse transactional data into meaningful business insights through interactive dashboards, KPI indicators, advanced analytics, drill-through capabilities, and operational reports.

The dashboard enables organizations to monitor warehouse operations in real time, optimize inventory levels, improve fulfillment efficiency, streamline production planning, and support data-driven operational decision-making.

Report Features

Home Page

Displays As on Date, Key KPI Cards Available Quantity, Total Inventory Value, Total Items, Total Locations and Navigate to Report Pages.

Executive Summary

Provides a consolidated overview of warehouse operations through key inventory KPIs like available quantity, total inventory value and, visuals inbound vs outbound inventory trend, top 5 locations-outstanding purchase vs sales qty, inventory value distribution by location, and Inventory stock details. Enables management to quickly assess overall warehouse health and operational performance.

Inventory Stock Levels

Displays key inventory KPIs like Available Quantity, Out of stock Items, Outstanding Purchase Qty, Outstanding Sales Qty and visuals Top 5 Locations by Stock Quantity, Inventory Trend Over Time, Stock by Category, Top 10 items by stock quantity, Inventory Stock Details. Helps inventory managers maintain optimal stock levels and identify inventory imbalances.

Inventory Flow

Displays key inventory KPIs like Total Movement Quantity, Inventory in Transit and visuals like Inventory movement Trend, Transfer Quantity Trend, Category-wise Inventory Movement, Top 10 Moving Items, Transfer Order Details. Supports efficient warehouse movement planning and inventory tracking across locations.

Inbound Performance

Displays key inventory KPIs like Total Purchase Orders, Total Received Qty and visuals Received Quantity Trend, Top 10 Received Items, Location-wise Received and Pending Quantity, Purchase Order Details. Helps improve supplier coordination and warehouse receiving efficiency.

Outbound Performance

Displays key inventory KPIs like Total sales orders, Total Shipped Qty and visuals Shipped Quantity Trend, Top 10 shipped items, Location-wise Shipped and Pending Quantity, Sales Order Details. Enables warehouse teams to monitor order fulfillment and improve dispatch efficiency.

Production & Assembly

Displays key inventory KPIs like Open Production Order , Open Assembly Orders and visuals Production & Assembly Quantity Trend , Production Status Distribution , Production Completion Trend , Remaining Production & Assembly Quantity per Item , Assembly Order status distribution , Top 5 Assembly Items. Supports manufacturing teams in monitoring production progress and assembly operations.

Supply vs Demand

Displays key inventory KPIs like Total Supply , Total Demand and visuals Supply trend over time , Demand Trend over time , Item-wise Supply vs Demand , Inventory vs Projected Available Balance Trend. Provides Drill through to the Item-wise Supply Details , and Item-wise Demand Details from Supply trend over time , Demand Trend over time. Evaluate supply to meet customer demand.

Executive KPI Summary

Consolidated KPI section displaying:

- Available Quantity
 - Total Inventory Value
 - Total Items Sold
 - Total Locations
 - Net Inventory Position
 - Out of Stock Items
 - Outstanding Purchase Qty
 - Outstanding Sales Qty
 - Total Movement Quantity
 - Total Transfer Quantity
 - Inventory In Transit
 - Open Transfer Orders
 - Pending Transfer Qty
 - Total Purchase Orders
 - Total Received Quantity
 - Receipt Completion %
 - Pending Receipts
 - Pending Inbound Quantity
 - Total Sales Orders
 - Total Shipped Quantity
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- Ship Completion %
 - Pending Ship Quantity
 - Pending Deliveries
 - Open Production Orders
 - Open Assembly Orders
 - Overdue Production Orders
 - Production Completion %
 - Overdue Assembly Orders
 - Total Supply
 - Planned Order Receipt
 - Inventory (Quantity)
 - Total Demand
 - Projected Available Balance
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Key Capabilities

- Interactive Executive Summary Dashboard.
 - Dynamic filtering by **Location, Category, and Date Range**.
 - Real-Time Integration with Microsoft Dynamics 365 Business Central.
 - Drill-Through Functionality across Supply vs Demand.
 - Advanced KPI monitoring with operational performance indicators.
 - Inventory trend analysis and warehouse movement tracking.
 - Supply vs Demand planning and inventory availability analysis.
 - Production and Assembly performance monitoring.
 - Automated Data Refresh through Power BI Service.
 - Scalable Architecture supporting Multi-location warehouse reporting.
 - Export Capability for operational reporting and analysis.
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Business Benefits

Improved Warehouse Visibility

Provides complete visibility into inventory, warehouse operations, production, and order fulfillment.

Better Inventory Control

Helps maintain optimal inventory levels while reducing stock shortages and excess inventory.

Enhanced Operational Efficiency

Improves inbound, outbound, transfer, and warehouse movement management.

Faster Decision Making

Supports real-time operational decisions using interactive analytics and KPIs.

Improved Supply Chain Planning

Enables better replenishment planning through supply vs demand analysis.

Reduced Manual Reporting

Automates warehouse reporting and operational performance monitoring.

Improved Production Monitoring

Provides visibility into production and assembly operations for better manufacturing control.

Technical Integration

The Warehouse Insight Dashboard is fully integrated with Microsoft Dynamics 365 Business Central.

Data is sourced from:

- Item Ledger Entries
- Items
- Locations
- Transfer Lines
- Purchase Lines
- Sales Lines
- Manufacturing Production Order Lines
- Assembly Lines
- Assembly Headers
- Requisition Lines
- Order Service Lines
- Item Job Planning Lines
- Manufacturing Production Order Components
- Planning Component Lines
- Zones

Power Query transformations, DAX calculations, and optimized star-schema modelling ensure high performance, scalability, and reporting accuracy.

The solution supports scheduled refreshes through Microsoft Power BI Service, providing stakeholders with the latest operational insights.

Conclusion

The Power BI Warehouse Insight Dashboard provides centralized and intelligent reporting platform for warehouse operations and inventory management. By combining inventory analytics, warehouse movements, inbound and outbound performance, production monitoring, and supply-demand planning into a single interactive solution, the dashboard empowers organizations to optimize warehouse operations, improve inventory accuracy, enhance supply chain efficiency, and make confident data-driven operational decisions.