

BOSCH REXROTH – INDUSTRIAL PRODUCT PERFORMANCE & COST ANALYTICS DASHBOARD



✓ **Tool Used**

Microsoft Power BI

✓ **Domain**

Production Analytics

Presented By

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Introduction

- Bosch Rexroth is an industrial automation and manufacturing solutions company.
- Manufacturing companies need real-time monitoring of production cost & efficiency.
- This dashboard helps analyze product performance and cost trends.

Problem Statement

- Difficult to track production cost manually
- Hard to identify cost variance
- No clear visibility on department-wise efficiency
- Time-consuming monthly report preparation



Project Objective

- Analyze total production cost
- Compare planned vs actual cost
- Measure production efficiency
- Department-wise performance analysis
- Identify cost variance

Tools & Technologies Used

- ✓ Power BI
- ✓ Excel (Data Source)
- ✓ DAX (for calculations)

Technologies

- Calculated **Columns** and **DAX measures** for KPIs
- Visuals like **cards, charts**
- Applied **slicers** for Day, Product



Dashboard Overview

KPI Cards:

- ✓ Total Production Cost – 70M
- ✓ Planned Cost – 354K
- ✓ Actual Cost – 362K
- ✓ Efficiency – 128.75
- ✓ Production Variance – 7K

Key Visualizations:

- ✓ Production Cost by Month (Line Chart)
- ✓ Cost by Department (Column Chart)
- ✓ Cost by Year (Donut Chart)
- ✓ Cost by Shift (Waterfall Chart)
- ✓ Table by YTD & MTD
- ✓ Slicer for (Day, Department)



Business Features

- Real-time production cost and performance monitoring
- Planned vs Actual cost comparison for financial control
- Department-wise and shift-wise efficiency analysis
- Cost variance identification to reduce excess expenses
- Interactive dashboard with filters for better decision-making



Conclusion

- Provides a clear and interactive view of production performance and cost analysis.
- Helps compare planned vs actual costs to improve operational efficiency.
- Supports data-driven decision-making for better cost control and productivity.

Dashboard Overview



INDUSTRIAL PRODUCTION PERFORMANCE & COST ANALYSIS

Total Production Cost



70M

Total Planned Cost



354K

Total Actual Cost



362K

Average Efficiency



128.75

Production Variance



7K

Day

All

Total Production Count



Product Name

Bearing Unit

Compressor Unit

Control Panel

Conveyor Belt

Electric Motor

Gear Assembly

Hydraulic Pump

Total Production cost by Year



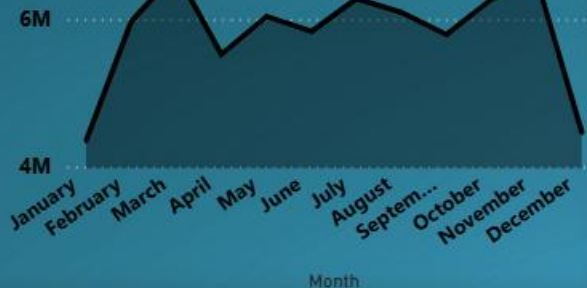
Total Production cost by Shift



Month & Year Wise Production Analysis

Production Date	Total Production cost	MTD	YTD
06 February 2024	89367	335126	1776832
07 February 2024	130280	465406	1907112
09 February 2024	58761	524167	1965873
10 February 2024	147302	671469	2113175
11 February 2024	170150	841619	2283325
13 February 2024	36097	877716	2319422
Total	69776057	1862406	25027215

Total Production cost by Month



Sum of Production Efficiency (%) by Department



Total Production cost by Department

