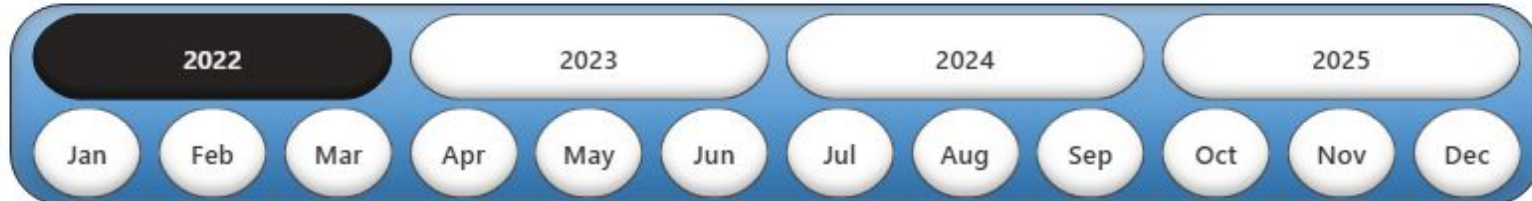




INVENTORY FORECASTING DASHBOARD



INVENTORY FORECASTING DASHBOARD →



Actual vs Predicted Spare Parts Demand



Total Quantity Used
in 2022

2,327

Stock Availability %
in 2022

83.8%

Machine Priority in
2022

Moderate

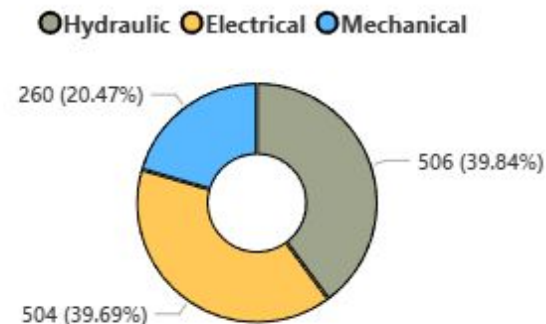
Average Lead (Days)
in 2022

10

Top 3 Spare Parts Used in 2022 →



Spare Parts Consumption by Category in 2022



Dashboard 1: Summary

Dashboard Summary – This dashboard provides a comprehensive view of spare parts usage, availability, and demand forecasting, helping manufacturing and maintenance teams ensure operational efficiency

Key Metrics Displayed:

Total Quantity Used: 2,327 spare parts consumed

Stock Availability: 83.8% – inventory well managed

Machine Priority: Moderate – balanced spare parts requirement

Average Lead Time: 10 days – average waiting period for replenishment

Filters Available:

- Interactive slicers for Machine ID, Spare Part ID and Supplier ID to allow tailored analysis.

Drill-Through Analysis

- A detailed drill-through table has been added to this dashboard to provide insights, supporting deeper analysis.

Dashboard 1: Core Visual Insights

Top 3 Spare Parts: SparePart_1 (269), SparePart_8 (264), SparePart_6 (260)

Bottom 3 Spare Parts: SparePart_5 (223), SparePart_2 (198), SparePart_3 (181)

Category Consumption:

Mechanical: 39.8%

Electrical: 39.7%

Hydraulic: 20.5%

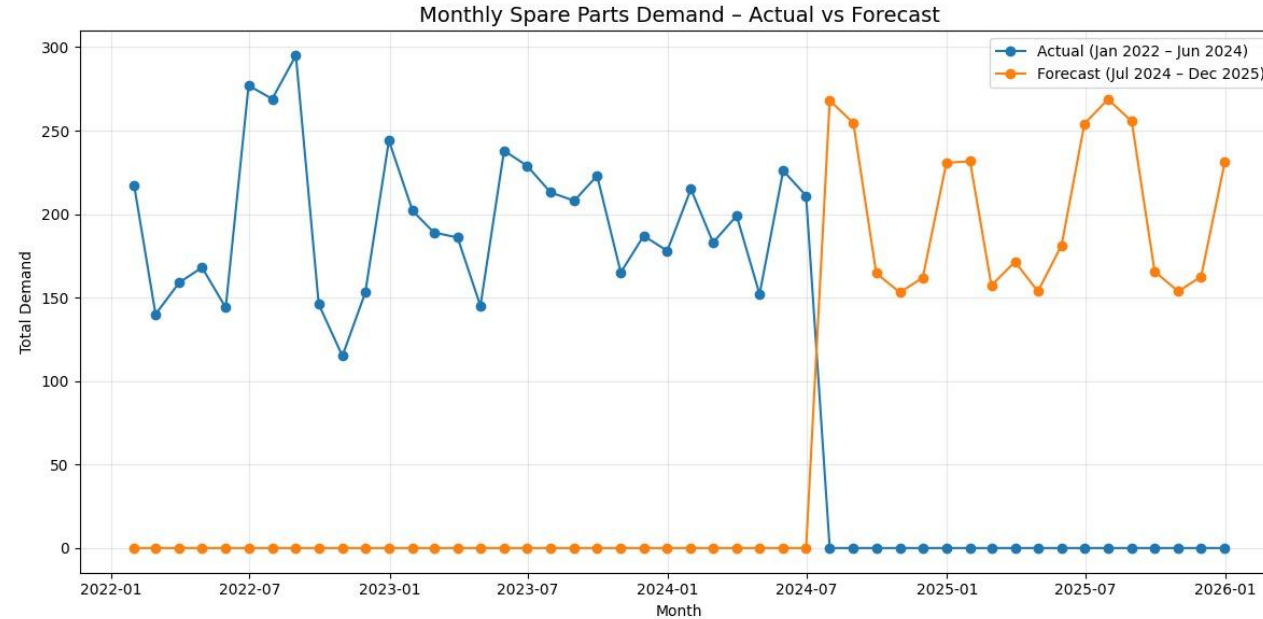
Forecast Trends (2022–2025):

Demand remains stable in 2022–2023 (–2,300 units)

Sharp dip in 2024 (1,186 units)

Strong rebound in 2025 (2,391 units forecasted)

Model Implementation



Stable past demand: From 2022–mid 2024, demand is steady with seasonal ups and downs.

Clear forecast trend: From Jul 2024–Dec 2025, demand continues with similar seasonal peaks and dips.

Inventory planning: Saudi Engineer must stock more during forecasted peak months (summer & winter) to avoid shortages.

Thank
you!!!
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