

# SP Inovative Manufacturing Company Analysis

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## INTRODUCTION:

This project showcases my proficiency in data analysis and visualization using Microsoft Excel . The primary objective is to analyze and visualize data from a manufacturing company to gain actionable insights into its operations . This analysis encompasses key areas such as inventory management , production efficiency , sales performance , and financial performance and financial health .

## OBJECTIVE

The aim is to demonstrate the ability to handle real- world data , clean and format it , create meaningful summaries through PivotTables and design an interactive dashboard . This project not only highlights technical skills in Excel but also provides a comprehensive understanding of the company's operational dynamics .

## DATA SOURCES

1. **Inventory Data** : Tracks the daily stock levels , production , and sales quantities of two products.
2. **Production Data** : Records daily raw material usage , production hours , and units produced.
3. **Sales Data** : Details daily sales transactions including quantities sold , sale price per unit , and total revenue .
4. **Financial Data** : Summarizes monthly expenses across various categories .

### INVENTORY DATA

Date	Product ID	Product Name	Opening Stock	Produced Quantity	Sold Quantity	Closing Stock
1/1/2024	P001	SteelTech Pro	1000	500	400	1100
1/1/2024	P002	AutoTech Nexus	800	400	300	900
1/2/2024	P001	SteelTech Pro	1100	600	500	1200
1/2/2024	P002	AutoTech Nexus	900	300	400	800
1/3/2024	P001	SteelTech Pro	1200	700	600	1300
1/3/2024	P002	AutoTech Nexus	800	500	300	1000

## PRODUCTION DATA

Date	Product ID	Product Name	Raw Material Used (kg)	Production Hours	Units Produced
1/1/2024	P001	SteelTech Pro	100	8	500
1/1/2024	P002	AutoTech Nexus	80	6	400
1/2/2024	P001	SteelTech Pro	120	9	600
1/2/2024	P002	AutoTech Nexus	70	5	300
1/3/2024	P001	SteelTech Pro	140	10	700
1/3/2024	P002	AutoTech Nexus	90	7	500

## SALES DATA

Date	Invoice ID	Product ID	Product Name	Sold Quantity	Sale Price per Unit	Total Revenue
1/1/2024	INV001	P001	SteelTech Pro	400	10	4000
1/1/2024	INV002	P002	AutoTech Nexus	300	15	4500
1/2/2024	INV003	P001	SteelTech Pro	500	10	5000
1/2/2024	INV004	P002	AutoTech Nexus	400	15	6000
1/3/2024	INV005	P001	SteelTech Pro	600	10	6000
1/3/2024	INV006	P002	AutoTech Nexus	300	15	4500

FINANCIAL DATA

Month	Expense Category	Amount
2024-01	Raw Materials	5000
2024-01	Labor	3000
2024-01	Utilities	1000
2024-01	Maintainance	800
2024-01	Other	500

# ANALYSIS

Date	Sum of Closing Stock
1/1/2024	2000
1/2/2024	2000
1/3/2024	2300

Product Name	Values	Date		Sum of Total Revenue		
	Sum of Sold Quantity					
	1/1/2024	1/3/2024		1/1/2024	1/3/2024	
AutoTech Nexus	300	400	300	4500	6000	4500
SteelTech Pro	400	500	600	4000	5000	6000

Month	(All)
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Expense Category	Sum of Amount
Labor	3000
Maintainance	800
Other	500
Raw Materials	5000
Utilities	1000

	Date		
	1/1/2024	1/2/2024	1/3/2024
Sum of Units Produced	900	900	1200

Date	Sum of Opening Stock	Sum of Closing Stock
1/1/2024	1800	2000
1/2/2024	2000	2000
1/3/2024	2000	2300

Production Hours	Sum of Units Produced
5	300
6	400
7	500
8	500
9	600
10	700

Product Name
AutoTech Nexus
SteelTech Pro

Date
1/1/2024
1/3/2024

Date	Sum of Total Revenue
1/1/2024	8500
1/2/2024	11000
1/3/2024	10500

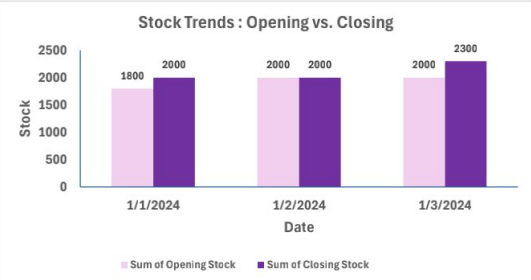
Product Name	Sum of Total Revenue
AutoTech Nexus	15000
SteelTech Pro	15000

Expense Category	Sum of Amount
Labor	3000
Maintainance	800
Other	500
Raw Materials	5000
Utilities	1000
<b>Grand Total</b>	<b>10300</b>

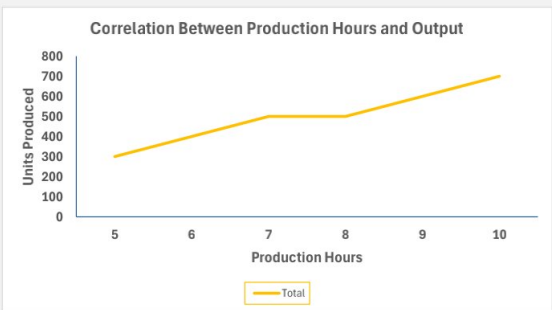
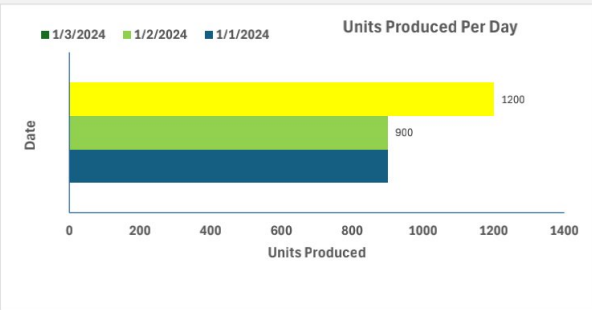
Sum of Amount	Expense Category				
Month	Labor	Maintainance	Other	Raw Materials	Utilities
2024-01	3000	800	500	5000	1000

SP Manufacturing Company Report

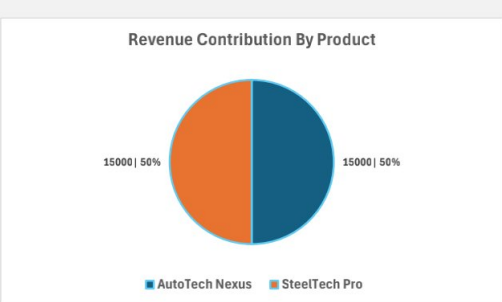
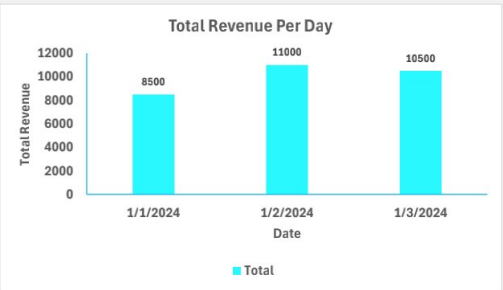
INVENTORY OVERVIEW



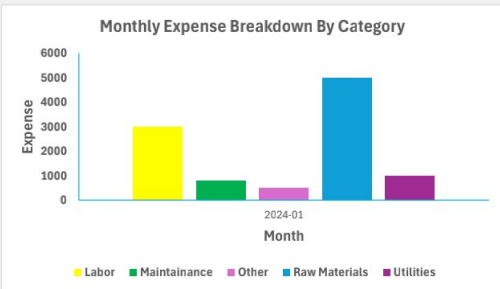
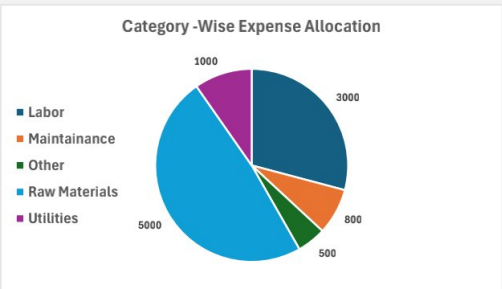
PRODUCTION EFFICIENCY



SALES PERFORMANCE



FINANCIAL SUMMARY



## CONCLUSION

### INVENTORY ANALYSIS

- 1) Both SteelTech Pro and AutoTech Nexus show steady increases in closing stock ,indicating effective inventory management.
- 2) Production quantities align closely with sales , reflecting balanced stock levels.

### PRODUCTION EFFICIENCY

- 1) Overall , there's an upward trend in the number of units produced per day.
- 2) Positive correlation between production hours and units produced indicates efficient resource utilization.

### SALES PERFORMANCE

- 1) SteelTech Pro consistently generates higher revenue compared to AutoTech Nexus.
- 2) Daily revenue fluctuates ,but overall sales performance remains satisfactory.

### FINANCIAL SUMMARY

- 1) Expenses are well distributed , with raw materials accounting for the largest proportion .
- 2) Monthly expense variations reflect dynamic operational needs or seasonal fluctuations.

## CONCLUSION

In conclusion , our analysis underscores the manufacturing company's effective operational practices and strategic management .By maintaining optimal inventory levels ,maximizing production efficiency