



Enterprise Manufacturers Ltd

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# Supplier Quality & Performance Dashboard

*This dashboard provides a comprehensive overview of supplier performance, highlighting key metrics such as defect quantity, downtime, and their impact on overall operations.*



## THE BRIEF

You are working with a manufacturer who **receives and orders** a number of raw materials which are then **used in production or for general maintenance**.

Currently there is no procurement system in place and no way for the companies to validate **which suppliers are providing us with quality goods** and which are not.

There is also **no consistency between different plants and the vendors** we are purchasing from.

**The programme management team** has identified the need to **centralize and understand supplier quality as a priority**.

There has been a major effort in recent weeks to consolidate the data.

The team have now managed to gather **data from across the plants with information around the material, defect and vendor**.

They have also managed to get the **number of defective materials** and also provided a value for the **minutes of downtime** caused by the defective material.

The management team are now looking for some help to visualize and extrapolate the findings from this data.

Enterprise Manufacturers Ltd are slowly adopting Power Bi within their organization as such one of the analysts has made an effort at starting to model the data.

Given the importance of the project and urgency management have decided to enlist the experts to get this over the line.

Some key questions the business want answering are;

- **Which vendors/plants are causing the greatest defect quantity?**
- **Which vendors/plants are causing the greatest downtime?**
- **Is there a particular combination of material and vendor that perform poorly?**
- **Is there a particular combination of Vendor and plant that performs poorly?**
- **How does the same vendor and material perform across different plants?**

# Overview

Downtime cost/Hour (\$):

5

## Defects

2.60bn

▲ 4.25% vs last month | ▲ 123.32% vs last year

## Downtime Hours

215.81K

▲ 4.39% vs last month | ▲ 123.45% vs last year

## Downtime Cost

\$1.08M

▲ 4.39% vs last month | ▲ 123.45% vs last year

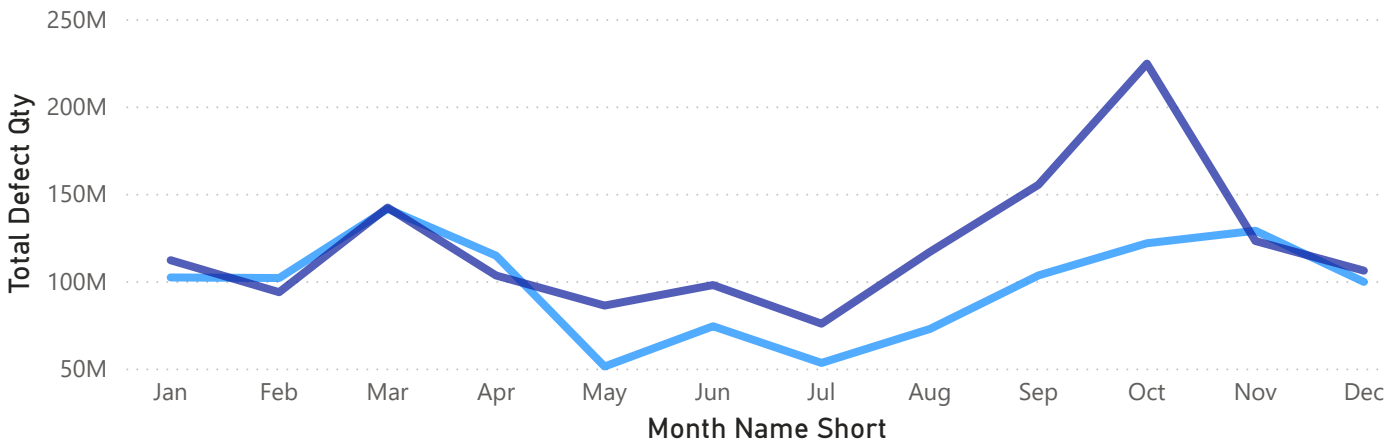
### Overview

Total Defect Qty

Total Downtime HRS

## Monthly Trend

Year ● 2018 ● 2019



## Top 5 Losses

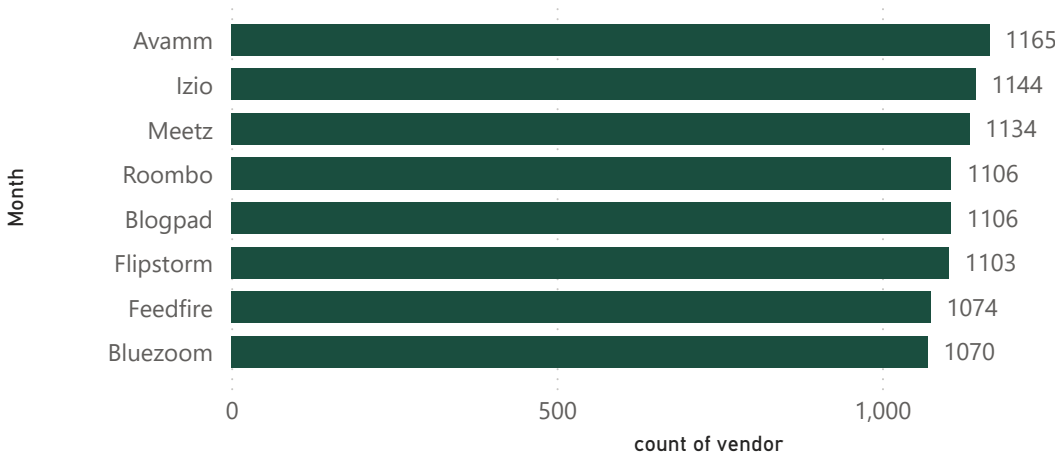
346,062,418	29,203.43
Total Defect Qty	Total Downtime HRS
702	10
Total Defect Report	Month
283,354,436	23,525.33
Total Defect Qty	Total Downtime HRS
563	3
Total Defect Report	Month
258,304,507	21,723.47
Total Defect Qty	Total Downtime HRS
515	9
Total Defect Report	Month

# Vendor Performance

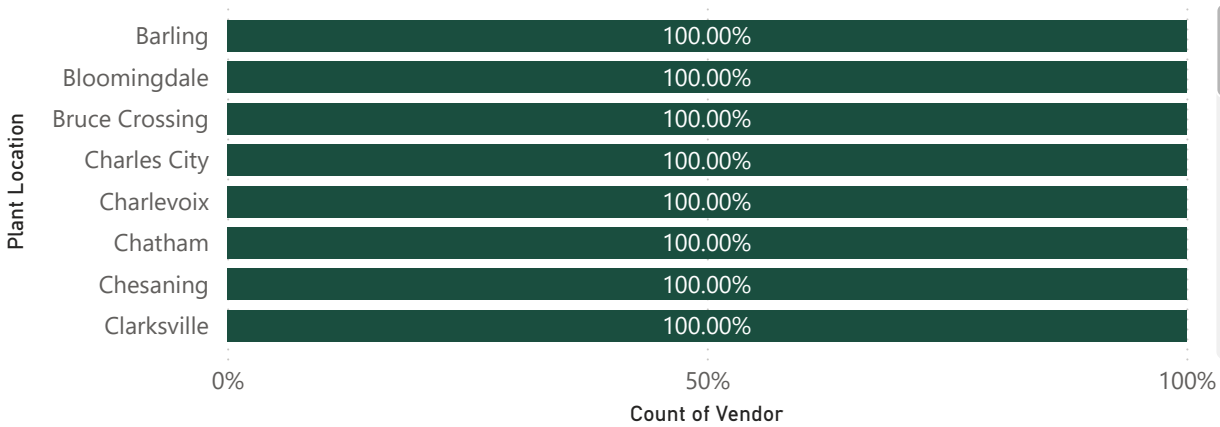
Total Defect Qty

Total Downtime HRS

## Vendor Trend



## Vendor by Plant Location



## By Vendor

<a href="#">Zoomlounge</a>	8,348,204	658.65	8,348,204
	Total Defect...	Total Downt...	Total Defect Qty
<a href="#">Zoomzone</a>	7,918,959	414.23	7,918,959
	Total Defect...	Total Downt...	Total Defect Qty
<a href="#">Zooveo</a>	10,889,087	718.45	10,889,087

## By Defect

2,476,168	105.28	No Impact
	Total Defect...	Total Downt...
		Defect Type
Buzzshare		
2,323,825	143.35	Rejected
	Total Defect...	Total Downt...
		Defect Type
Topicshots		
Vendor		
2,204,249	129.80	Impact

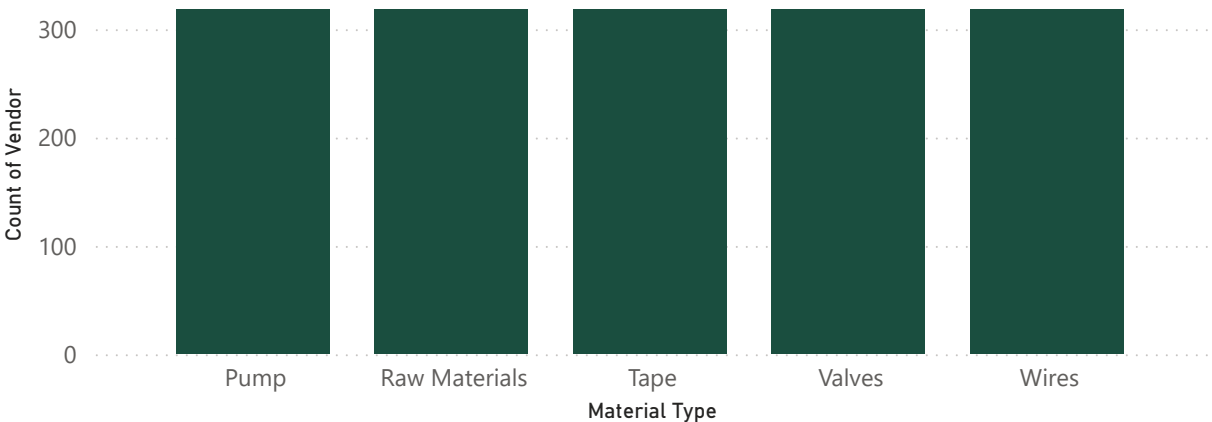
# Material Performance

Overview

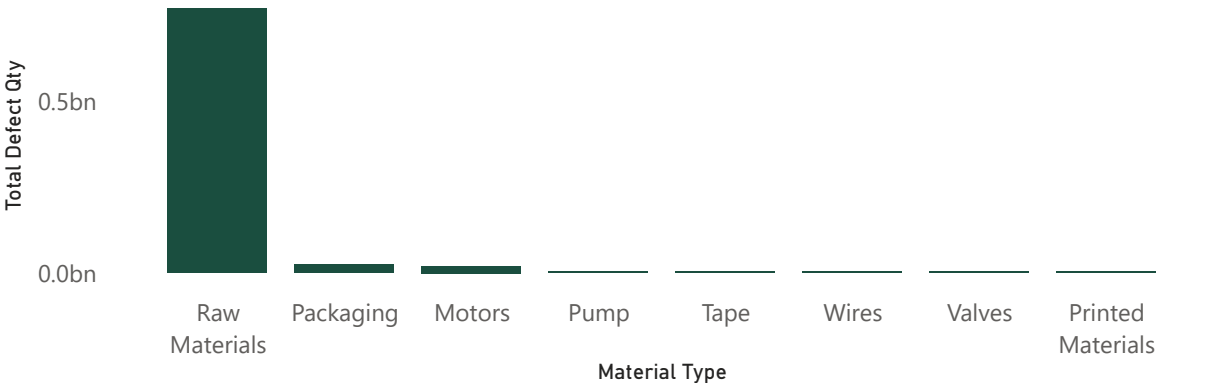
Total Defect Qty

Total Downtime HRS

## Vendor by Material Type



## Defect by Material Type



## By Material Type

Raw Materials		
770,580,317	65,918.17	
Total Defect Qty	Total Downtime HRS	
Corrugate		
624,441,951	51,303.85	
Total Defect Qty	Total Downtime HRS	
Film		
200,395,634	16,580.43	
Total Defect Qty	Total Downtime HRS	

## Defect by material type and vendor

2,219,360	68.35	Brainsphere
Total Defect ...	Total Downti...	Vendor
Corrugate		
Material Type		
1,886,983	77.23	Gabvine
Total Defect ...	Total Downti...	Vendor
Labels		
Material Type		
1,874,751	28.58	Linklinks
Total Defect	Total Downti	Vendor

# Plant Performance

Total Defect Qty

Total Downtime HRS

## By Plant Location

<a href="#">Hingham</a>	
100,174,656	7,317.08
Total Defect Qty	Total Downtime HRS
<a href="#">Charles City</a>	
99,390,908	8,283.10
Total Defect Qty	Total Downtime HRS
<a href="#">Twin Rocks</a>	
96,903,184	8,000.70

## Material Type location

## By Defect

<a href="#">Not Certified</a>	
17,190,701	1,085.42
Total Defect Qty	Total Downtime HRS
<a href="#">Misc</a>	
15,500,214	1,562.20
Total Defect Qty	Total Downtime HRS
<a href="#">Warped</a>	
12,902,951	827.90
Total Defect Qty	Total Downtime HRS

## Defect By Vendor And Plant

Vendor	Plant Location	Total Defect Qty	Total Downtime HRS
Abata	Riverside	257,039	29.87
Abatz	Riverside	820,888	71.73
Abatz	Twin Rocks	324,313	48.93
Agimba	Henning	856,495	8.72
Agimba	Hingham	1,122,955	96.67
Total		486,415,187	39,699.47

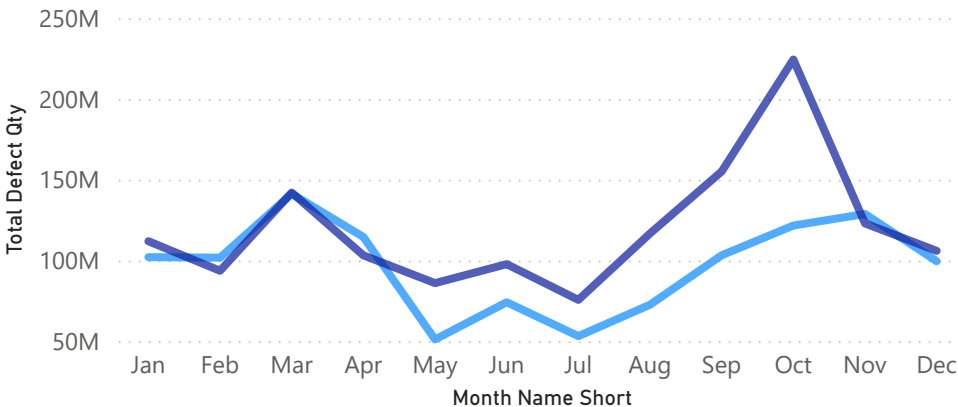
# Downtime Impact

## Downtime Cost Analysis

Month Name	Friday	Monday	Saturday	Sunday	Thursday	Tuesday	Wednesday	Total
January	858.23	3,734.85	108.18	3,222.73	2,702.10	3,490.07	3,462.77	17,678.93
February	2,876.55	1,600.88	1,578.02	1,316.83	4,019.32	934.35	3,491.17	15,736.95
March	3,434.82	3,508.28	2,550.45	4,944.50	3,371.53	3,454.28	2,261.47	27,515.33
April	2,772.03	4,643.15	2,228.28	1,669.25	1,437.48	2,149.28	3,136.42	18,035.89
May	2,768.48	2,107.20	1,063.63	2,282.67	377.97	3,191.37	66.30	11,707.62
June	3,868.97	2,170.65	3,201.42	2,982.43	198.68	2,351.93	158.03	15,833.11
July	1,705.80	1,946.42	1,728.33	1,560.90	166.67	2,519.20	410.53	11,037.85
Total	26,208.22	39,397.17	27,110.07	36,970.70	18,560.92	41,118.53	26,444.32	206,700.33

## Monthly Trend

Year ● 2018 ● 2019



## Vendor Plant Analysis

Vendor	Plant Location	Total Defect Qty	Total Downtime HRS	DownTime Cost/HR
Abata	Charlevoix	103,733	42.75	\$427.50
Abata	Chatham	344,231	67.58	\$675.83
Abata	Chesaning	384,097	2.82	\$28.17
Abata	Clarksville	736,225	43.90	\$439.00
Abata	Clay	811,305	38.10	\$381.00
Abata	Climax	710,549	29.63	\$296.33
Abata	De Ruyter	79,596	61.22	\$612.17
Total		2,598,634,464	215,809.92	\$2,158,099.17

## Vendor Material Analysis

Vendor	Material Type	Total Defect Qty	Total Downtime HRS	DownTime Cost/HR
Edgeblab	Raw Materials	6,350,491	292.85	\$2,928.50
Twitterbeat	Raw Materials	5,975,946	412.32	\$4,123.17
Oyoyo	Raw Materials	5,536,596	412.17	\$4,121.67
Zooveo	Corrugate	5,530,058	292.85	\$2,928.50
Shuffledrive	Raw Materials	5,513,239	369.85	\$3,698.50
Photobean	Raw Materials	5,509,424	365.30	\$3,653.00
Livetube	Corrugate	5,417,936	290.25	\$2,902.50
Total		2,598,634,464	215,809.92	\$2,158,099.17