



colossys

We Make Technology Easy!

Disrupting the spinning automations

A new way to engage
with your production
teams

We bring your spinning mill to your cell phone and computers, anywhere in the world

We enable textile machinery to communicate with users, managers and owners with the aim to switch from manual to live and uninterrupted reporting.



About Us

A Pakistani startup bringing disruptive technologies to textile sector at fraction of the cost charged internationally

The Problem



Productivity

Dependency on manual
and time-consuming
reporting loop



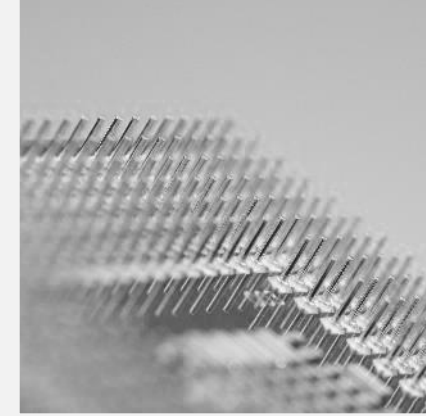
User Frustration

Inability to pin-point
actual problem area



Live Updates

Not able to monitor the
current production
environment



Extreme Costs

Extreme costs of
monitoring software and
systems



Scarce Analytics

No historic reports to
forecast trends and
performance evaluation



ELEC-SYS

Solution: Elec-Sys

A low cost, indigenously developed, completely matured Electricity and Power monitoring system.



Live

Live reporting of all HT, LT, DB & Machine power consumption



Analysis

Power analysis of whole machine section on different variables



Monetize

Negligible implementation and support cost



Easy Monitoring

Monitor your Power consumption in live environment on your desktop or cell phone and stay abreast of your fault lines and leakages.



Monitor

Monitor Amps, Volts, consumption and forecast



Customize

Make your own reports and charts



Tested

Elec-Sys is live in largest spinning mill in Pakistan



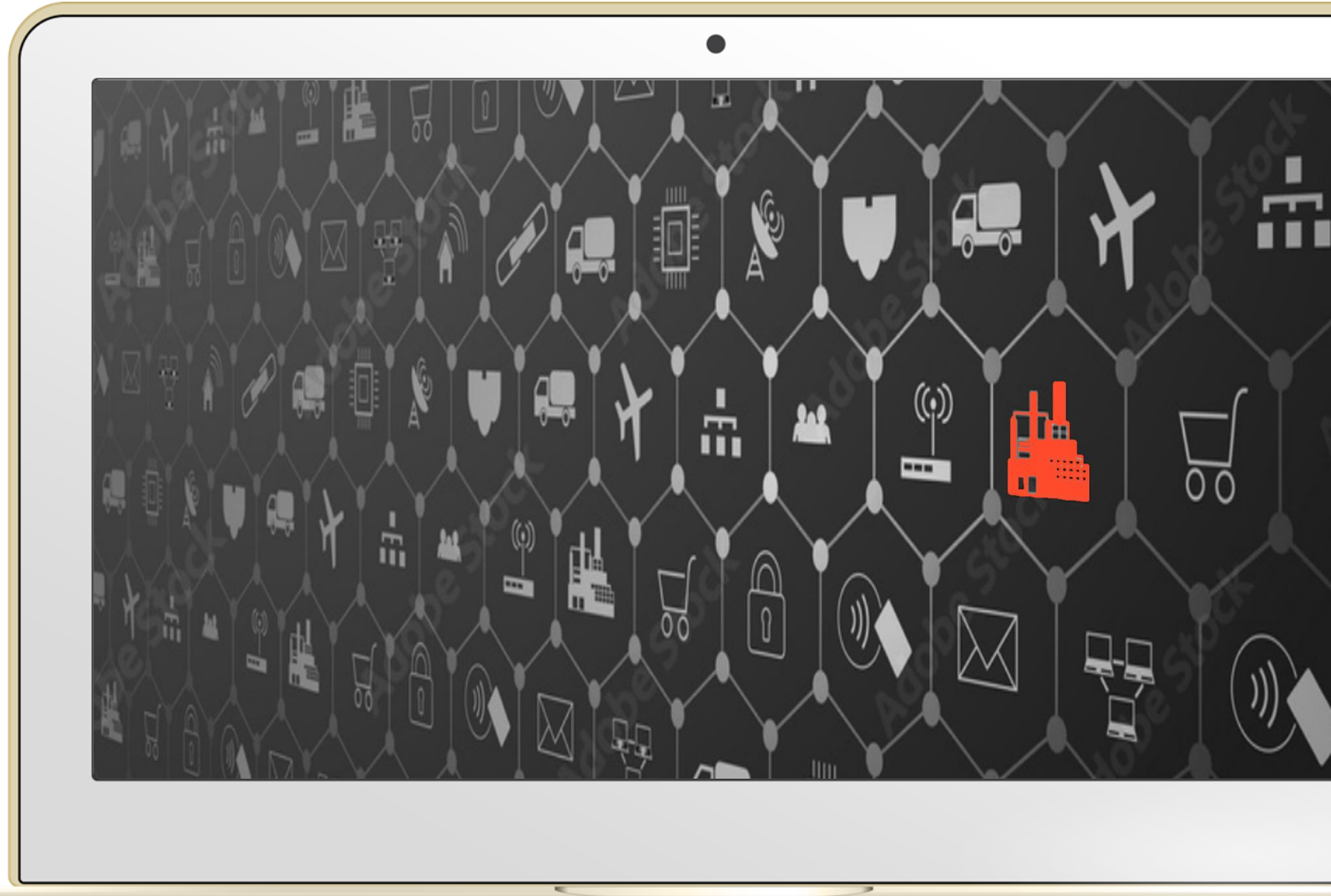
Authentic

Home grown product, no third part dependency

Digital Product

Bring your power grid to your screens

- Wireless or ethernet based communication
- No extra networking equipment is required
- All reports, charts and live monitoring can be made available on web through a live IP
- Data can be accessed from any where in the world
- Fully Windows, Mac, Android and iPhone compatible

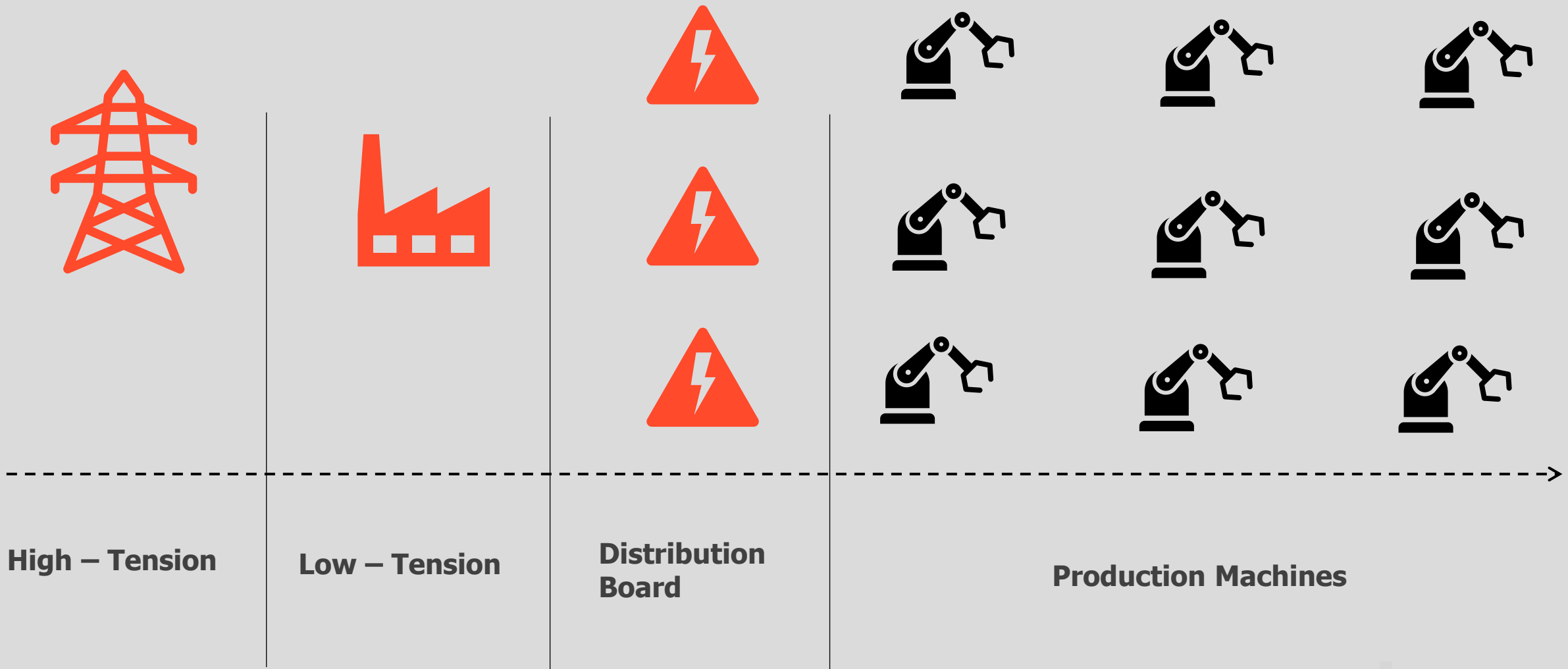




How it Works

Power your way into your manufacturing.

Installation Map



Reporting KPIs

Across all Nodes

A

Amperes

U

Units

L

Line Loss

V

Volts

Rs.

Bill

M

Malfunctions

B

Breaks

F

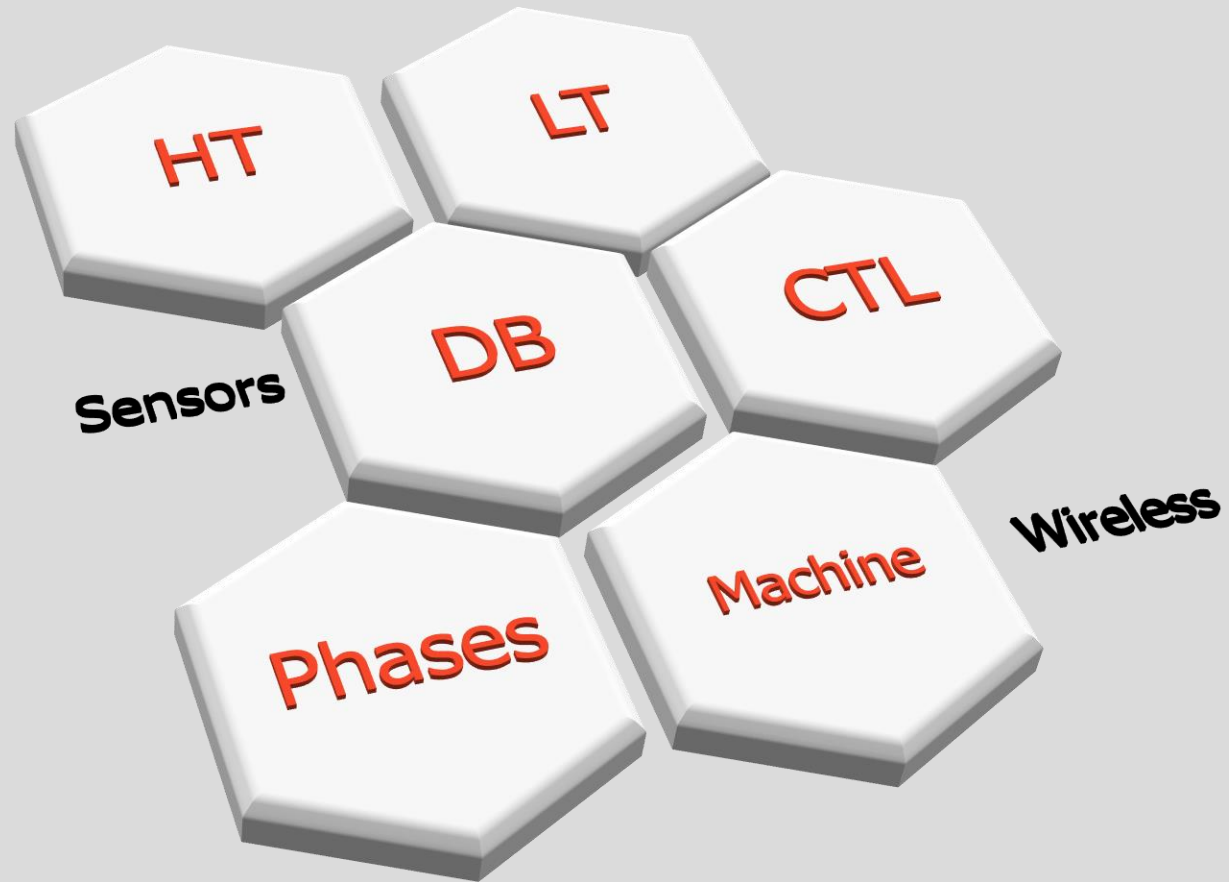
Forecast

S

Status

Nodes

With all KPIs



Optional Features



Monitor Live Machine Consumption

Take a detailed look at machines with different variables –

- Amperes
- Volts
- Running unit consumption

Auto-Cone

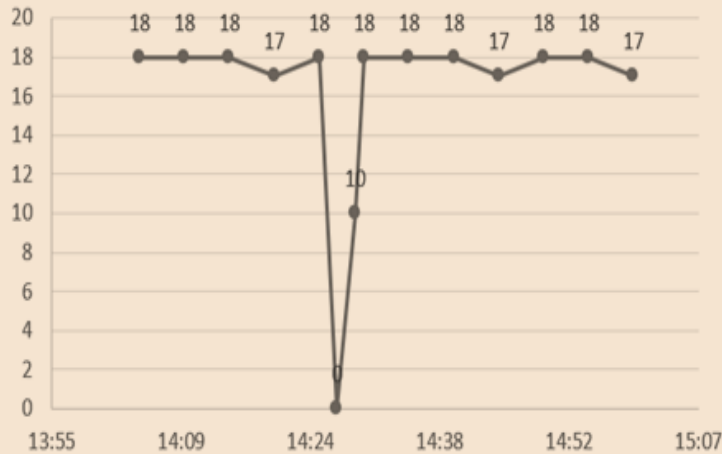
Date	Time	Machine	A	V	PF	KW-3P	Units Consumed	Running Units
24-Jan-25	14:05	MA 01	18	400	0.8	17.2800	1.44	1.44
24-Jan-25	14:10	MA 01	18	400	0.8	17.2800	1.44	2.88
24-Jan-25	14:15	MA 01	18	400	0.8	17.2800	1.44	4.32
24-Jan-25	14:20	MA 01	17	400	0.8	16.3200	1.36	5.68
24-Jan-25	14:25	MA 01	18	400	0.8	17.2800	1.44	7.12
24-Jan-25	14:27	MA 01	0	400	0.8	-	-	7.12
24-Jan-25	14:29	MA 01	10	400	0.8	9.6000	0.32	7.44
24-Jan-25	14:30	MA 01	18	400	0.8	17.2800	1.44	8.88
24-Jan-25	14:35	MA 01	18	400	0.8	17.2800	1.44	10.32
24-Jan-25	14:40	MA 01	18	400	0.8	17.2800	1.44	11.76
24-Jan-25	14:45	MA 01	17	400	0.8	16.3200	1.36	13.12
24-Jan-25	14:50	MA 01	18	400	0.8	17.2800	1.44	14.56
24-Jan-25	14:55	MA 01	18	400	0.8	17.2800	1.44	16.00
24-Jan-25	15:00	MA 01	17	400	0.8	16.3200	1.36	17.36

Get Detailed Machine Historical Analysis

Take a detailed look at machines with different variables –

- Amperes
- Volts
- Running unit consumption

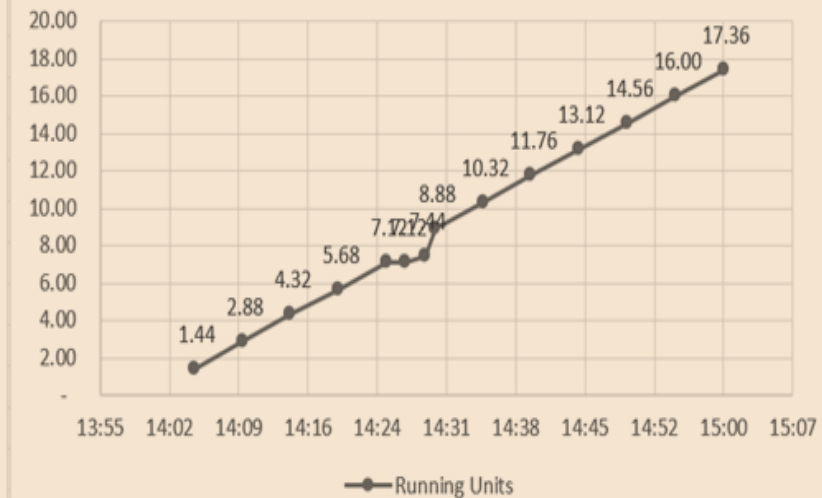
Mach 01 - Ampere Analysis
24-Jan-25



Mach 01 - Units Consumed Trend
24-Jan-25



Mach 01 - Running Units



Extract Summary Consumption for Each Section (Ring, Auto-Cone, Simplex etc.)

Compare consumption pattern of each machine in a section for corrective actions.

- Amperes
- Volts
- Running unit consumption

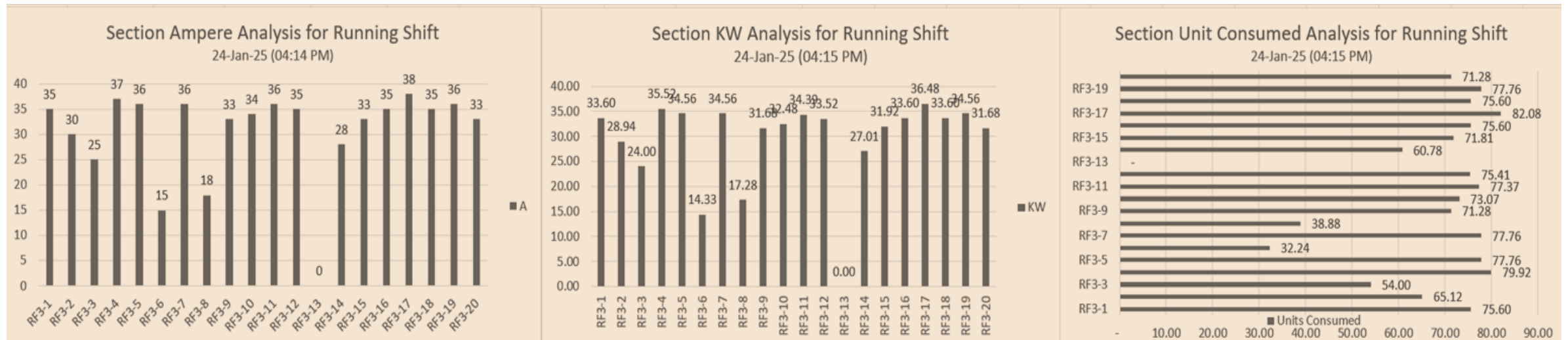
Date	Shift Start	Time	Shift Time	Machine	A	V	PF	KW	Units Consumed
24-Jan-25	14:00	16:15	2:15	RF3-1	35	400	0.8	33.60	75.60
24-Jan-25	14:00	16:15	2:15	RF3-2	30	402	0.8	28.94	65.12
24-Jan-25	14:00	16:15	2:15	RF3-3	25	400	0.8	24.00	54.00
24-Jan-25	14:00	16:15	2:15	RF3-4	37	400	0.8	35.52	79.92
24-Jan-25	14:00	16:15	2:15	RF3-5	36	400	0.8	34.56	77.76
24-Jan-25	14:00	16:15	2:15	RF3-6	15	398	0.8	14.33	32.24
24-Jan-25	14:00	16:15	2:15	RF3-7	36	400	0.8	34.56	77.76
24-Jan-25	14:00	16:15	2:15	RF3-8	18	400	0.8	17.28	38.88
24-Jan-25	14:00	16:15	2:15	RF3-9	33	400	0.8	31.68	71.28
24-Jan-25	14:00	16:15	2:15	RF3-10	34	398	0.8	32.48	73.07
24-Jan-25	14:00	16:15	2:15	RF3-11	36	398	0.8	34.39	77.37
24-Jan-25	14:00	16:15	2:15	RF3-12	35	399	0.8	33.52	75.41
24-Jan-25	14:00	16:15	2:15	RF3-13	0	400	0.8	0.00	-
24-Jan-25	14:00	16:15	2:15	RF3-14	28	402	0.8	27.01	60.78
24-Jan-25	14:00	16:15	2:15	RF3-15	33	403	0.8	31.92	71.81
24-Jan-25	14:00	16:15	2:15	RF3-16	35	400	0.8	33.60	75.60
24-Jan-25	14:00	16:15	2:15	RF3-17	38	400	0.8	36.48	82.08
24-Jan-25	14:00	16:15	2:15	RF3-18	35	400	0.8	33.60	75.60
24-Jan-25	14:00	16:15	2:15	RF3-19	36	400	0.8	34.56	77.76
24-Jan-25	14:00	16:15	2:15	RF3-20	33	400	0.8	31.68	71.28

Ring Section

Easy to Understand Graphical Summaries

Take a summary look at machines within each section with different variables –

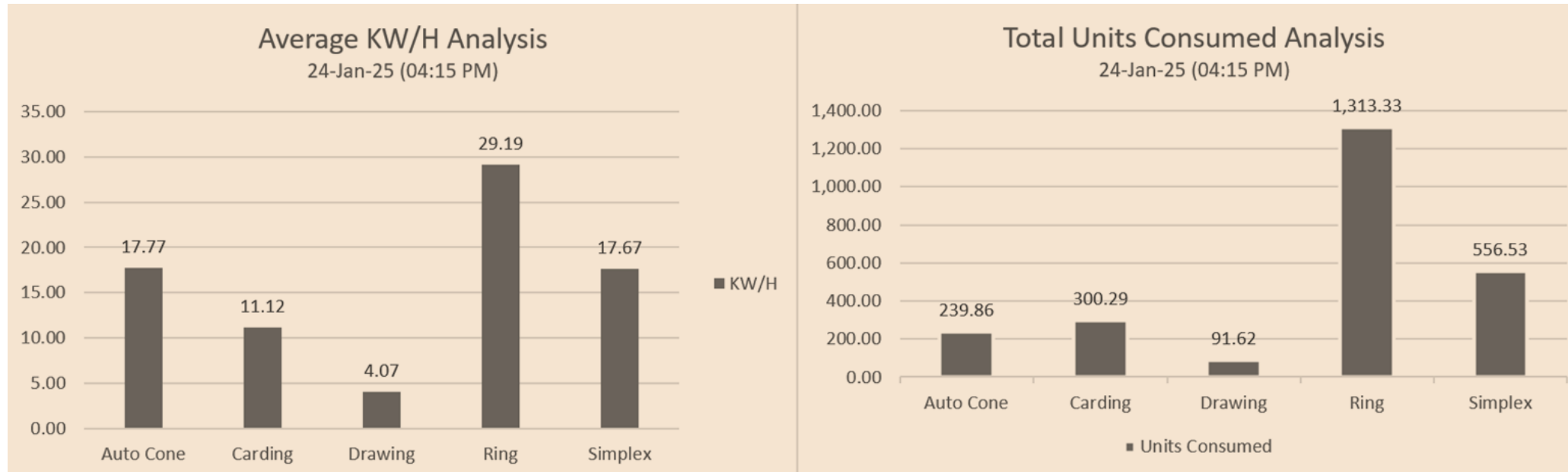
- Amperes
- Volts
- Running unit consumption



Section Wise Summaries on the Dashboard

Get a comprehensive power consumption status of each section –

- Live view
- Historical reports
- Drill down to section and machine summaries





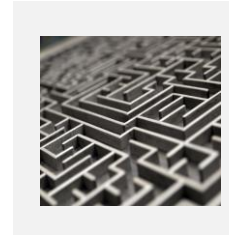
How it Works for You!

Make the data work for you.



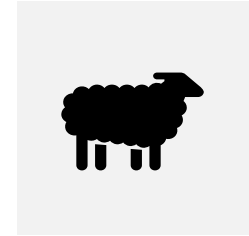
Identify & Rectify

Identify the nodes where the power is wasted in line losses, low voltage. Take preventive measures instead of reactive.



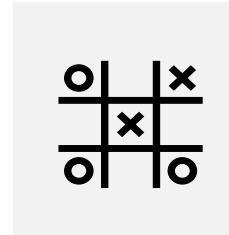
Line Losses

Pinpoint where line losses are occurring



Black Sheep

Find machines which are consuming power more than standard



Plan

Plan & predict power bills



Save

Save money by efficient utilization of power units

1

Save daily units
by identifying
line losses

2

Identify & rectify
machines unusual
power
consumptions

3

Monitor voltage &
amperes to prevent
machine repairs &
maintenance costs

4

Get significant
monthly savings by
taking corrective
actions in power grid.

Textile Portfolio

- **Ring-Sys:** A complete Ring Frame monitoring system
- **Auto-Sys:** State of the Art, Auto Cone monitoring system
- **Loom-Sys:** A complete Loom Monitoring system
- **Elec-Sys:** A smart high- and low-tension electricity monitoring system



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Thank You

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