



# colossys

We Make Technology Easy!

## **Disrupting the Textile automations**

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A new way to engage  
with your production  
teams

We bring your textile 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**

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

# The Problem



## Productivity

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Dependency on manual and time-consuming reporting loop



## User Frustration

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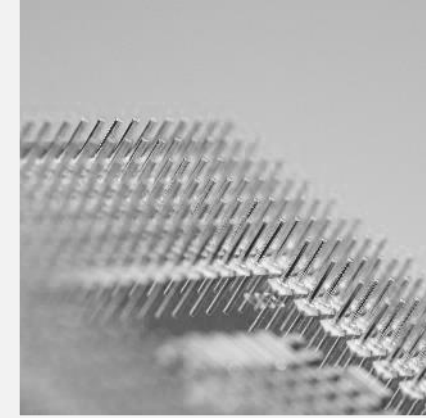
Inability to pin-point actual problem area



## Live Updates

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Not able to monitor the current production environment



## Extreme Costs

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Extreme costs of monitoring software and systems



## Scarce Analytics

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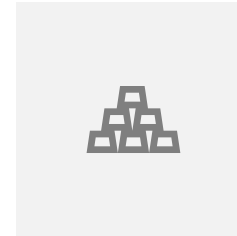
No historic reports to forecast trends and performance evaluation



LOOM-SYS

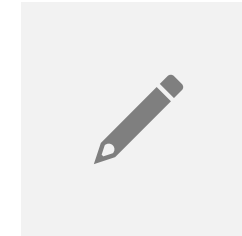
## Solution: Loom-Sys

A low cost, indigenously developed, completely matured Loom monitoring system.



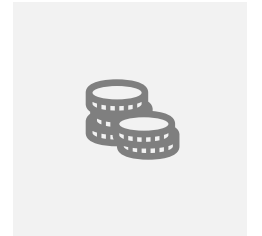
Live

Live reporting of all loom variables and KPIs



Analysis

Power analysis of loom and shed efficiencies



Monetize

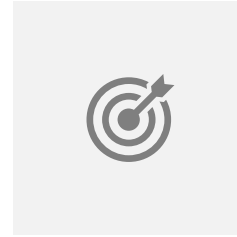
Negligible implementation and support cost



# Easy Monitoring

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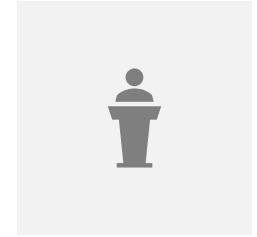
Monitor your looms in live environment on your desktop or cell phone and stay abreast of your shed & unit performance.



## Monitor

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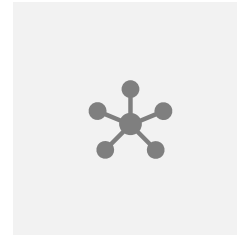
Monitor stoppages, speeds, efficiencies, RPMS etc.



## Customize

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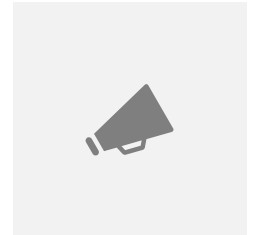
Make your own reports and charts



## Tested

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Loom-Sys is live in weaving mills in Pakistan



## Authentic

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Home grown product, no third part dependency





# How it Works

Weave your way to success!

# Monitor Live Summary Dash Boards

Take a summary look at sheds and Units with different variables –

- Actual and Working efficiency percentages
- Running and stopped looms
- Average RMPS
- Meters produced

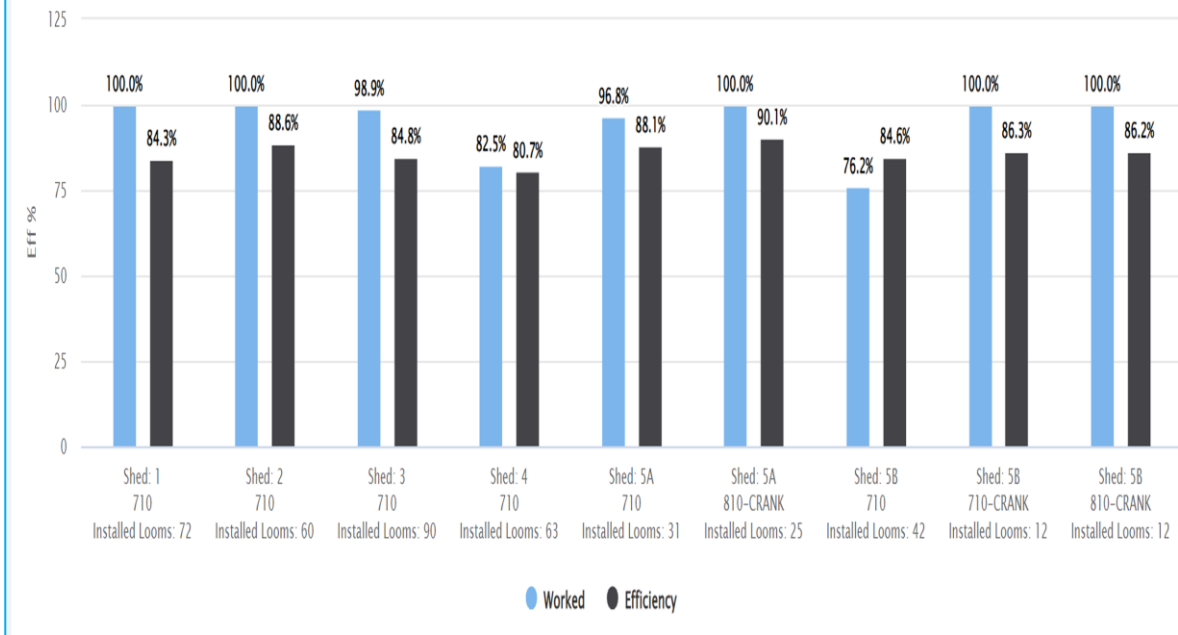
Unit Wise Summary

5/16/2024 3:11:00 PM

Unit	Total Meters	Total Looms	Running Looms	Stopped Looms	Disconnect	Avg Eff%	Avg RPM	Target RPM	Working %
Unit 1	8,327.30	132	132	0	0	85.94	665	686	100.00
Unit 2	1,548.00	153	142	11	0	83.24	493	509	92.81
Unit 3	1,555.40	122	111	11	0	87.16	879	858	90.98
All Units	11,430.70	407	385	22	0	85.74	679	684	97.80

Shed Wise Summary Graph

5/16/2024 2:53:00 PM





# Monitor Each Loom Live in Detail

Take a detail look at each loom with different variables –

- Color code each loom status
- Get RPMS, total running, idle and stop time for a loom in a shift
- Analyze actual and working efficiency of each loom
- Find meter produced by each loom at the given time in each shift



# Loom Stoppage Analyses

Perform loom stoppage and idle time analysis in detail to take corrective actions –

- Warp and weft breakage analysis
- Loom stoppage analysis in a shift/day/month with reasons
- Loom number of times stoppage analysis with reasons
- Loom idle time analysis with reasons.

Sr #	Loom	Warp Miss	Count										Time(Minutes)										Total Wrls	Hours			
			Selvg	Leno R	Leno L	Warp Top	Weft	Manul	Warp Out	Doft	Power OFF	Other Stops	Total	Crtd Hr	Warp Wls	Selvg	Leno R	Leno L	Warp Top	Warp Out	Weft	Manul			Doft	Power Off	Other Stop
Over																											
13-May-18																											
Unit 1 S 1																											
1	007	18	3	-	2	-	228	9	-	-	-	2	262	10.92	94.32	6.81	-	11.02	-	-	307.37	6.00	-	-	46.43	473.95	7:54
2	008	17	-	-	4	-	35	21	-	-	-	4	81	3.38	68.14	1.23	-	5.72	-	-	47.27	78.00	-	-	869.51	1099.87	17:50
3	010	13	1	-	-	-	77	18	-	-	-	3	112	4.67	34.20	1.53	-	-	-	343.13	94.00	-	-	317.67	780.53	13:11	
4	011	41	-	-	-	-	63	2	-	-	-	-	106	4.42	152.32	-	-	-	-	134.28	28.00	-	-	31.25	345.81	5:44	
5	013	8	-	3	1	-	198	6	-	-	-	1	217	9.04	43.04	-	19.25	7.37	-	276.89	13.00	-	-	27.02	391.37	6:31	
6	014	14	-	2	-	-	8	-	-	-	-	-	24	1.00	46.73	-	6.68	-	-	7.22	-	-	-	994.91	1055.54	17:36	
7	016	00	-	-	2	-	76	4	-	-	-	-	144	6.00	175.55	0.77	-	6.82	-	163.72	4.00	-	-	-	350.98	5:51	
8	020	22	-	1	4	-	65	-	-	-	-	-	112	4.67	51.10	-	4.05	2.28	-	140.80	-	-	-	-	196.23	3:18	
9	028	45	-	-	-	-	128	7	-	-	-	-	180	7.50	141.38	-	-	-	-	166.52	19.00	-	-	44.20	371.10	6:11	
10	034	21	4	2	-	-	146	2	-	-	-	-	175	7.29	55.24	9.88	5.59	-	-	159.78	-	-	-	6.00	236.49	3:56	
11	035	11	-	-	-	-	147	5	-	-	-	1	164	6.83	48.65	-	-	-	-	168.06	6.00	-	-	0.08	222.79	3:43	
12	036	27	-	-	-	-	51	1	-	-	-	-	109	4.54	84.34	-	-	-	-	108.78	1.00	-	-	-	194.12	3:14	
13	037	40	3	-	-	-	55	12	-	-	-	-	110	4.56	165.11	7.05	-	-	-	94.66	186.00	-	-	209.93	662.75	11:23	
14	038	59	-	-	1	-	29	8	-	-	-	1	96	4.08	216.48	-	-	2.18	-	67.90	20.00	-	-	7.50	314.04	5:14	
15	041	22	-	3	1	-	123	6	-	-	-	-	155	6.46	75.52	-	13.12	1.03	-	139.80	13.00	-	-	3.37	245.84	4:8	
16	044	112	6	-	-	-	79	9	-	-	-	2	208	8.67	314.58	22.82	-	-	-	117.43	61.00	-	-	40.85	555.39	9:16	
17	046	23	3	-	-	-	63	16	-	-	-	-	127	5.29	135.63	6.27	-	-	-	150.44	201.00	-	-	308.17	601.51	13:22	
18	047	11	-	-	-	-	221	7	-	-	-	-	239	9.96	29.02	-	-	-	-	367.42	6.00	-	-	6.15	410.59	6:51	
19	057	20	6	-	-	-	80	9	-	-	-	1	126	5.25	52.85	11.38	-	-	-	149.86	21.00	-	-	267.20	502.29	8:22	
20	068	30	3	-	1	-	29	4	-	-	-	-	67	2.79	38.10	3.38	-	1.60	-	56.60	3.00	-	-	14.70	117.38	1:57	
21	069	3	-	-	-	-	50	4	-	-	-	-	57	2.38	7.53	-	-	-	-	62.70	920.00	-	-	154.09	1144.72	19:5	
22	070	34	-	-	-	-	6	1	3	-	-	-	34	1.42	49.32	-	-	-	-	9.05	10.48	6.00	-	-	1101.05	1175.90	19:36
Unit 1 S 1		29	1	1	1	-	53	7	-	-	-	1	132	5.51	95.66	3.20	2.21	1.73	-	0.41	147.30	76.75	-	-	202.28	529.52	

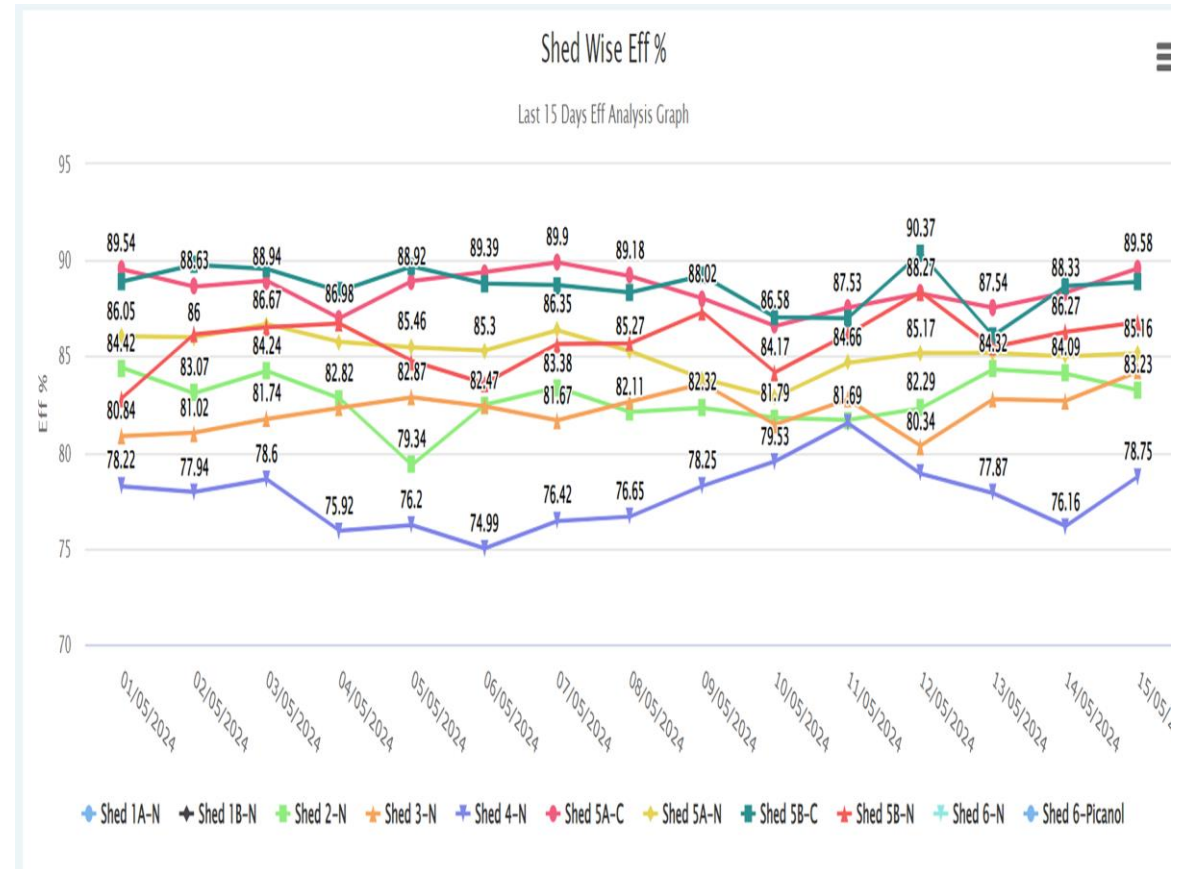
# Forecasting

Get estimated beam change timing on each loom and save time.

Loom	Artical	Beam No.	Cloth Doff Forecast	Shift	Warp Out Forecast	Shift	Beam Set Length	Remaining Beam
<b>Unit 1</b>								
<u>Unit 1</u>	<u>Shed 1</u>							
013	7038	1235	16-May-2024 1:01 pm	Morning	16-May-2024 1:01 pm	Morning	-	(1,642.30)
026	6513	262	16-May-2024 1:01 pm	Morning	16-May-2024 1:01 pm	Morning	-	(2,547.80)
030	7051	25	16-May-2024 1:02 pm	Morning	16-May-2024 1:02 pm	Morning	2,500.00	(575.20)
059		258	16-May-2024 1:03 pm	Morning	16-May-2024 1:03 pm	Morning	-	(8,758.40)
061		370	16-May-2024 1:03 pm	Morning	16-May-2024 1:03 pm	Morning	-	(38.60)
072		0	16-May-2024 1:04 pm	Morning	16-May-2024 1:04 pm	Morning	-	(41.90)
015	5803	1234	16-May-2024 1:01 pm	Morning	17-May-2024 3:54 am	Night	6,400.00	309.30
054	6513	300	16-May-2024 1:03 pm	Morning	17-May-2024 11:17 am	Morning	1,700.00	265.90
042	6673	356	16-May-2024 1:02 pm	Morning	17-May-2024 3:44 pm	Evening	5,500.00	320.30
028	7038	1228	16-May-2024 1:02 pm	Morning	18-May-2024 5:55 am	Night	2,700.00	984.90
034	6958	277	16-May-2024 1:02 pm	Morning	18-May-2024 11:16 pm	Night	5,300.00	854.60
063	5810	341	16-May-2024 1:03 pm	Morning	19-May-2024 2:06 am	Night	3,200.00	1,355.30
070		391	16-May-2024 1:04 pm	Morning	19-May-2024 3:00 am	Night	1,800.00	1,601.80
024	6355	432	16-May-2024 1:01 pm	Morning	20-May-2024 1:26 pm	Morning	2,350.00	1,354.20
002	5718	1236	16-May-2024 1:00 pm	Morning	20-May-2024 2:02 pm	Morning	3,500.00	1,227.10
021	6987	330	16-May-2024 1:01 pm	Morning	20-May-2024 5:49 pm	Evening	5,300.00	1,716.70
045	6673	392	16-May-2024 1:02 pm	Morning	21-May-2024 12:29 am	Night	5,000.00	1,401.20
048	6343	33	16-May-2024 1:03 pm	Morning	21-May-2024 11:48 am	Morning	6,500.00	1,647.90
006	5118	1233	16-May-2024 1:00 pm	Morning	21-May-2024 3:12 pm	Evening	3,215.00	1,545.40
037	6513	34	16-May-2024 1:02 pm	Morning	21-May-2024 8:50 pm	Evening	3,800.00	1,688.20
017	6513	41	16-May-2024 1:01 pm	Morning	22-May-2024 12:40 am	Night	3,800.00	1,717.20
053		382	16-May-2024 1:03 pm	Morning	22-May-2024 5:47 am	Night	4,000.00	1,771.40

# History & Trends

Maintain comprehensive database to perform customized trend analysis

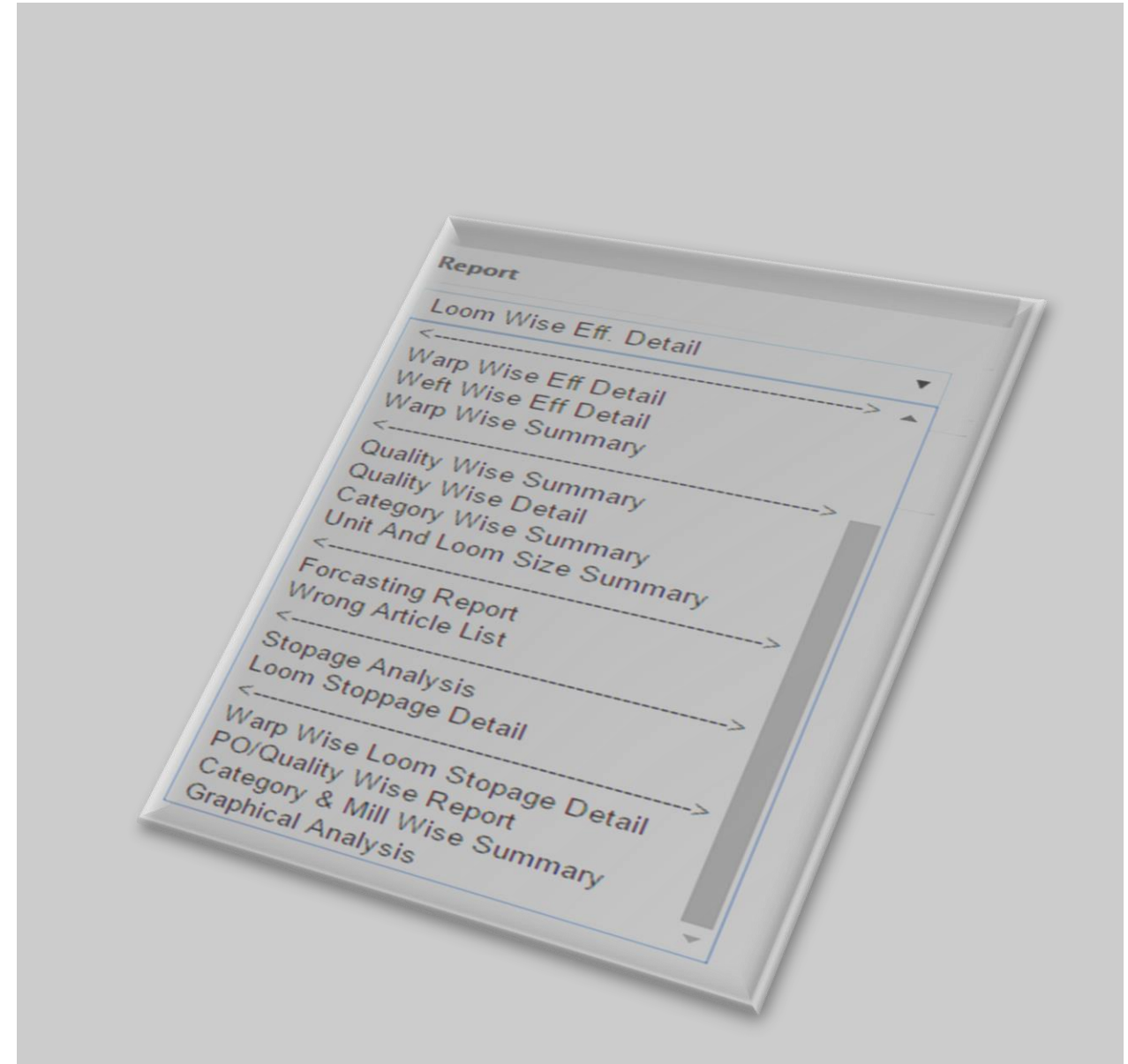


# Pre-Installed Customizable Reporting Pack

Crystal report-based report designs for easy report customizations.

Multitude of pre-installed reports for up and running utilization.

Unlimited historic data is available for reporting and analysis.



# Customizable Display Options

Use on-floor LED panels for real time readings for effective managerial control

Display options includes:

- LED panels
- HD TV
- Mobile
- Looms





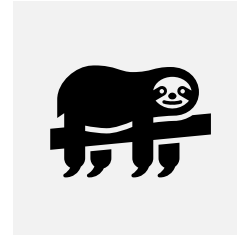
# How it Works for You!

Make the data work for you.



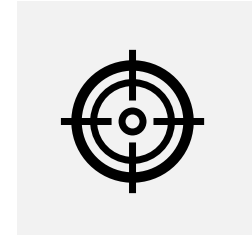
## Identify & Rectify

Increase efficiencies and over all production of your looms, sheds and units by monitoring the key variables.



Idle Time

Reduce idle time by monitoring



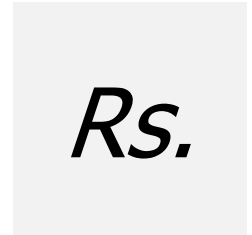
Targets

Monitor target vs Actual performance of sheds and units



Efficiency

Increase efficiencies by taking corrective actions



Production

Increase production by active monitoring of sheds & units.

**1**

Reduce idle and stop times

**2**

Measure actual vs targets in pro-actively instead of reactively

**3**

Save beam preparation and loading time

**4**

Get significant production boost by taking corrective actions each day, month and year.



# 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


A black and white photograph of several spools of thread. One spool in the foreground is in sharp focus, showing its circular shape and the texture of the thread. Other spools are blurred in the background, creating a sense of depth. The lighting is dramatic, highlighting the textures of the thread and the wood of the spools.

# colossys

# Thank You

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