ProCon®

Real-time Production Monitoring System

Digital Intelligence.
Manufacturing Excellence

INDUSTRY 4.0 FOR APPAREL & TEXTILE MANUFACTURING



Empowering Smart Manufacturing Through Real-Time Intelligence

01

Shop-floor hardware

Readers, i-Tags, displays and status indicators that capture production as it happens.

ProCon Reader: how production is captured



ProCon Reader

1 One reader per workstation

Every workstation in the sewing line has its own ProCon Reader.

2 Networked data capture

All readers are networked to a Data Capturing PC that collects every punch.

3 Bundles tagged at cutting

An i-Tag is programmed and tied to each bundle, then travels with it from the first operation to the last.

4 Punch in to start

Before starting a bundle, the operator punches its i-Tag to record the operation start time.

5 Punch out to finish

When every piece is done, the same i-Tag is punched again to record the end time, and the bundle moves on.

6 Repeated at every operation

Each subsequent operator tags in and tags out for their own operation to record production.

ProCon Readers in the sewing line





Readers capture every operator punch (Log-In, Log-Out, Bundle Start and Bundle End) and update the central database server instantly.

SHOWN ON THE READER DISPLAY

- Operator name
- Target
- Actual production
- Efficiency
- Idle time
- Excess time

TWENTY FUNCTION KEYS

0 – 9	Numeric input
I/P	Info Button
RW	Enter rework ID
B/R	Breakdown Alert
Entr	Accept the input
S/E	Single Piece End
Alert	Send an alert to the supervisor concerned
NW	No Work Reason Login
CB	Cancel or Close Bundle
L/Q	Log Out

Identification technologies supported

1. i-Tag
2. RFID – Low Frequency
3. RFID – High Frequency
4. Input via Reader Keypad



i-Tags in colour-coded holders



RFID tags

i-Tags: one identity for every person and bundle

An i-Tag is a computer chip sealed in a stainless-steel can, identified by a globally unique serial number. Colour-coded holders distinguish operators, supervisors, mechanics, QA staff and bundles. Each i-Tag carries a polythene pouch holding a printed card with the bundle or employee details.





COLOUR CODE

- **Red tag** — Operators
- **Black tag** — Bundles
- **Yellow tag** — Supervisors
- **Blue tag** — Maintenance personnel



ProCon Reader for quality checking (QC)



ProCon Reader (QC)

Where it sits

On every checker table in the sewing line, configured for Loading, In-line checking or End-line checking.

What it displays

The operator's name with checked, passed, rework and rejected pieces.

What the checker records

Each bundle's Passed / Rework / Rejection pieces, entered with the appropriate defect codes.

TWENTY FUNCTION KEYS

0 – 9	Numeric input
I/P	Enter passed pieces
RW	Enter rework pieces
B/R	Enter rejection pieces
Entr	Accept the input
S/E	Clear the current state
Alert	Send an alert to the supervisor concerned
NW	No Work Reason Login
CB	Cancel or Close Bundle
L/Q	Query input

ProCon Line Display on LED TV



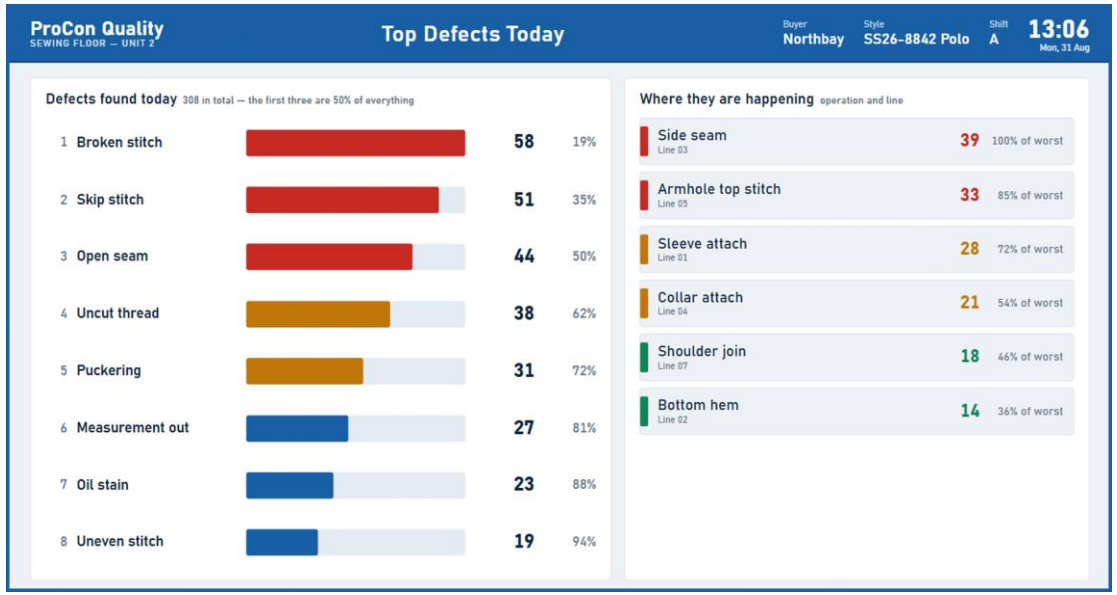
WHAT IT SHOWS

A live scoreboard for each line on a shop-floor LED TV.

- Line efficiency and production against target
- Bottleneck workstations
- Operator-wise performance
- Hourly trend, lost time and quality

ProCon Line Display on LED TV





Style-wise screens show the day's target, current output and rework for the line, with order quantity, input and output pieces, WIP by operation and breakdown minutes.

ProCon Tag Assigning Reader



ProCon Tag Assigning Reader

This reader assigns i-Tags to operators and to bundles before they reach the production floor.

CUTTING DEPARTMENT

Tags for bundles

1. The reader is connected to the PC in the cutting department.
2. Bundles are generated in the application software and bundle cards are printed.
3. Each card goes into an i-Tag pouch, and the tag is assigned on this reader before the bundle is issued to the production floor.

HR DEPARTMENT

Tags for operators and supervisors

1. The reader is connected to the PC in the HR department.
2. Operator cards are printed with the operator name and token number.
3. Each card goes into an i-Tag pouch, and the tag is assigned on this reader for every operator or supervisor.

02

Software and workflow

The applications behind the readers, the flow of work through the factory, and what ProCon accounts for.

ProCon Software: three applications, one database

01

Data Capturing Software

INSTALLED ON

Data Capturing PC on the production floor

Captures the punches from all readers and updates the central database instantly.

02

Production Management System

INSTALLED ON

All client machines

Holds all masters and transactions: style order details, laying, cutting, bundle generation, tag assigning to bundles, operation bulletin, line layout and more.

03

Dashboard

INSTALLED ON

All client machines

Displays the real-time status of every sewing line graphically, refreshing the data automatically at set intervals.

ProCon system flow

1. Fabric Laying
2. Cutting
3. Bundling & Sorting
4. Assign & Attach Tags to Bundles
5. Issue Bundles to Sewing Line

SET UP IN PROCON

- Style Order Details
- Operation Bulletin
- Line Layout Setting



Database Server

Central, updated instantly

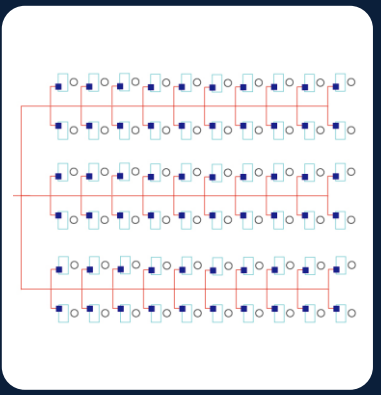


Data Capturing PC

Collects punches from all readers

6. **Sewing line**

Readers at every workstation record each bundle's start and end.



7. End Table QC
8. Finishing
9. Remove Tag from Garment
10. Packing

Real-time line balancing

Line balancing is the process of distributing work evenly across all operators and machines in a production line. It ensures that no station is overloaded while others remain idle, reducing bottlenecks and waiting time. By balancing operations and skills, the line achieves smoother workflow, higher efficiency, and maximum output with the available resources. In short, it is the key to turning a group of operations into a synchronized, productive system.

ProCon transforms the Operation Bulletin into a smart, optimized production line layout.

Skill-Operation Matching: ProCon maps operator skill levels against the operations, ensuring the right person is placed at the right station.

Capacity Simulation: The system calculates expected output per hour/day, adjusting layout until maximum efficiency is achieved.

Dynamic Adjustment: If an operator is absent or a machine goes down, ProCon can re-suggest an alternate layout to maintain throughput.

Production methods: bundle and piece movement

METHOD 1

Progressive Bundle Movement

Cut parts move through the line as bundles. A bundle can hold any number of pieces.

1. The operator starts the bundle by logging its tag in on the reader.
2. After sewing all the pieces, the operator closes the bundle by logging the tag out.
3. Every bundle is logged in and logged out, and that is how production is accounted.

METHOD 2

Piece Movement

Cut parts are still issued to the line as bundles, but pieces move on one at a time.

1. The operator starts the bundle by logging its tag in on the reader.
2. After the first piece, the operator presses the push button and sends that piece, with the tag, to the next operator.
3. The button is pressed again for each remaining piece as it is completed.
4. On the last piece the bundle closes automatically, and the operator can start another bundle.

Production methods: hanger movement and bundle sharing

METHOD 3

Hanger Movement

Cut parts are loaded on hanger chains. Each chain carries all the parts of one garment and has an i-Tag physically attached. At the loading reader, the operator loads the pieces and assigns the chain's tag.

1. The operator starts the piece by logging the chain's tag in on the reader.
2. On completing the piece, the operator logs the chain's tag out again.

METHOD 4

Bundle Sharing

Used when two or more operators doing the same operation share one bundle.

1. Every operator sharing the bundle logs the same bundle tag in on their own reader.
2. Each operator presses the push button on completing every piece to account for production.
3. Once all the pieces are accounted for across the readers, the bundle closes automatically on all of them.

What ProCon accounts for

On-standard time

- Operator worked minutes
- Produced minutes (Pieces × SAM)
- Cycle time

Off-standard time

- Operator idle time
- Operator NPT
- Machine down time
- Alteration time
- No feeding
- Operator training
- Line setting
- Line NPT

Production

- Operators' production
- Operations' production
- Style / Order production
- Colour / Size-wise production
- Line / Section production
- Work in progress
- Utilisation of minutes
- QC Pass / Rework / Rejection
- AQL
- Finishing
- Packing

Incentive methods

ProCon supports three ways of linking pay to performance.

01

Piece Rate Incentive

Earnings linked to the pieces an operator produces.

02

Individual Performance based Incentive

Rewards each operator on their own performance.

03

Group Performance based Incentive

Rewards the team on the group's combined performance.

03

Dashboard and reports

Real-time views of every line, from the factory overview down to a single operator or operation.

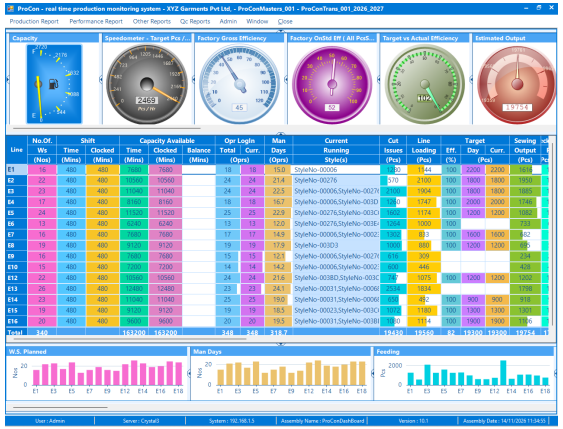
ProCon Dashboard

The Dashboard displays the real-time status of all the sewing lines graphically. It presents macro-level information for every line, and micro-level detail is one drill-down away from any cell.

KEY COLUMNS

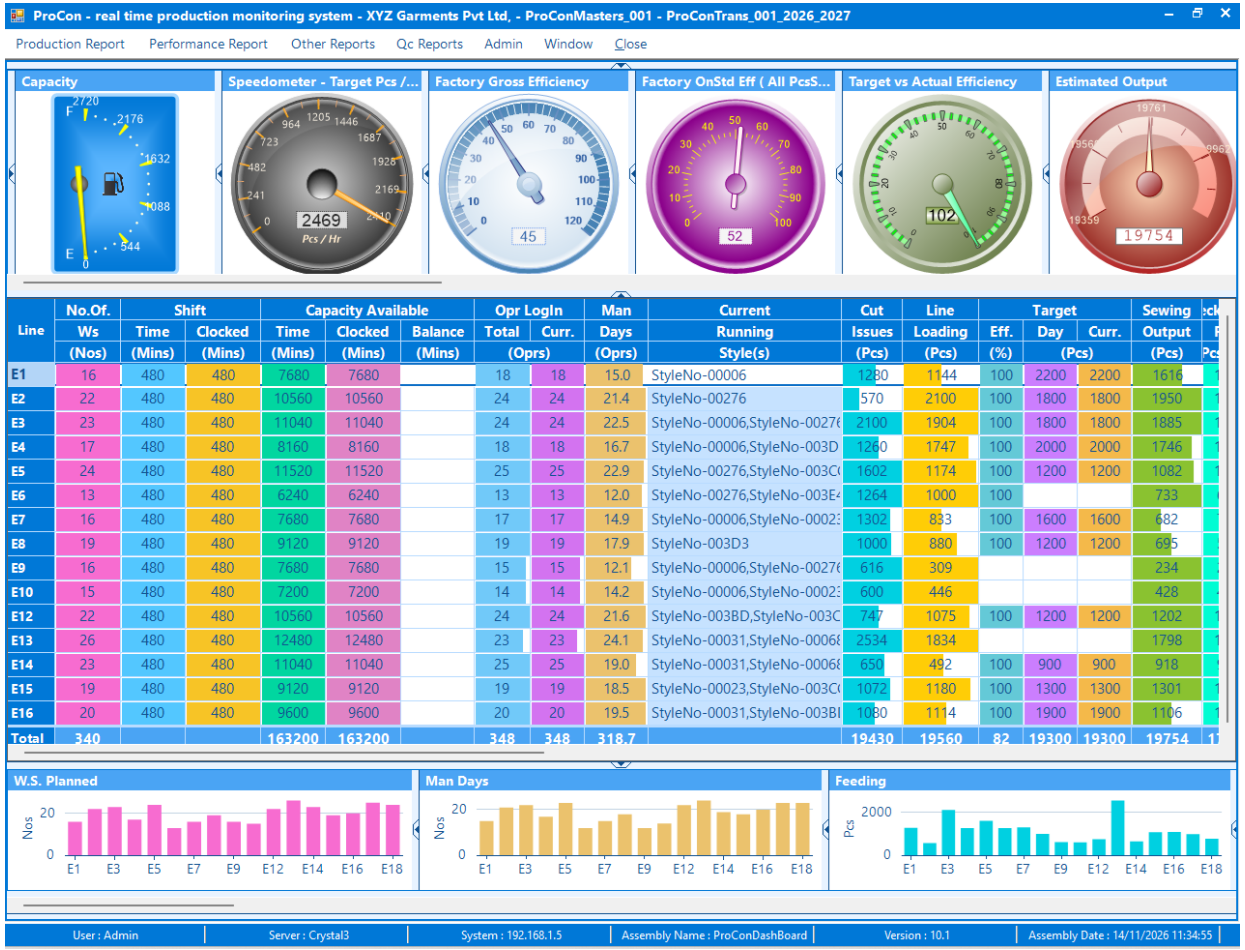
- Man Hours
- No. of Operators
- Available Minutes
- Day's Target
- Feeding
- Sewing Output
- Check Passed
- Rejection
- WIP
- Idle Time
- Rework Time
- Breakdown Time
- Non-Productive Time
- Production Time
- Excess Time
- Line Efficiency
- Estimated Output

Graphs of various types are available at every level for analysis and comparison.





Dashboard main screen



Line	No.Of. Ws (Nos)	Shift Time (Mins)	Shift Clocked (Mins)	Capacity Available Time (Mins)	Capacity Available Clocked (Mins)	Capacity Available Balance (Mins)	Opr LogIn Total (Oprs)	Opr LogIn Curr. (Oprs)	Man Days (Oprs)	Current Running Style(s)	Cut Issues (Pcs)	Line Loading (Pcs)	Target Eff. (%)	Target Day (Pcs)	Target Curr. (Pcs)	Sewing Output (Pcs)
E1	16	480	480	7680	7680		18	18	15.0	StyleNo-00006	1280	1144	100	2200	2200	1616
E2	22	480	480	10560	10560		24	24	21.4	StyleNo-00276	570	2100	100	1800	1800	1950
E3	23	480	480	11040	11040		24	24	22.5	StyleNo-00006,StyleNo-0027(	2100	1904	100	1800	1800	1885
E4	17	480	480	8160	8160		18	18	16.7	StyleNo-00006,StyleNo-003D	1260	1747	100	2000	2000	1746
E5	24	480	480	11520	11520		25	25	22.9	StyleNo-00276,StyleNo-003C(	1602	1174	100	1200	1200	1082
E6	13	480	480	6240	6240		13	13	12.0	StyleNo-00276,StyleNo-003E4	1264	1000	100			733
E7	16	480	480	7680	7680		17	17	14.9	StyleNo-00006,StyleNo-0002:	1302	833	100	1600	1600	682
E8	19	480	480	9120	9120		19	19	17.9	StyleNo-003D3	1000	880	100	1200	1200	695
E9	16	480	480	7680	7680		15	15	12.1	StyleNo-00006,StyleNo-0027(	616	309				234
E10	15	480	480	7200	7200		14	14	14.2	StyleNo-00006,StyleNo-0002:	600	446				428
E12	22	480	480	10560	10560		24	24	21.6	StyleNo-003BD,StyleNo-003C	747	1075	100	1200	1200	1202
E13	26	480	480	12480	12480		23	23	24.1	StyleNo-00031,StyleNo-0006(	2534	1834				1798
E14	23	480	480	11040	11040		25	25	19.0	StyleNo-00031,StyleNo-0006(	650	492	100	900	900	918
E15	19	480	480	9120	9120		19	19	18.5	StyleNo-00023,StyleNo-003C(	1072	1180	100	1300	1300	1301
E16	20	480	480	9600	9600		20	20	19.5	StyleNo-00031,StyleNo-003B(	1080	1114	100	1900	1900	1106
Total	340			163200	163200		348	348	318.7		19430	19560	82	19300	19300	19754

WHAT IT SHOWS

Every sewing line on one screen, in real time.

- Factory and on-standard efficiency gauges
- Utilisation of the day's minutes
- Line-wise target, output, WIP and lost time
- Drill down from any cell for detail

Line output



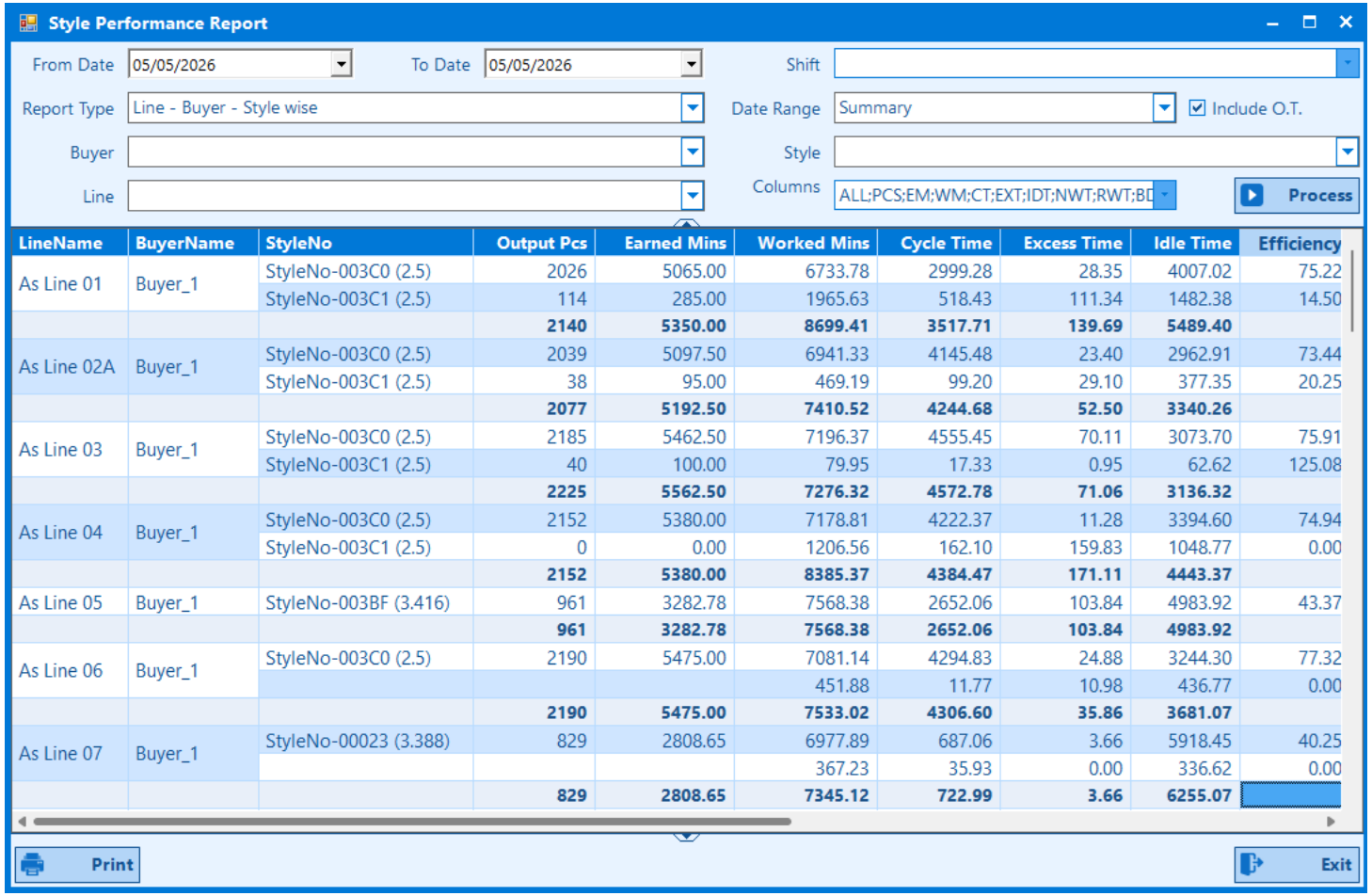
Line Name	Type	No. Of. W/s	Day's Target	Target per Hour	No. Of.Oprs	Avail. Mins	Curr. Target	Feeding Pcs	1	2	3	4	5	6	7
									Hr						
Es Line 01	Sewing Output	16	2200	275	15	480	2200	1280	77	242	249	211	133	215	237
	Check Passed								146	77	288	182	118	70	238
Es Line 02	Sewing Output	22	1800	225	21.4	480	1800	570	210	210	180	210	360	240	240
	Check Passed								160	90	150	30	287	210	120
Es Line 03	Sewing Output	23	1800	225	22.5	480	1800	2100	120	360	180	265	266	197	231
	Check Passed								120	180	180	240	224	214	247
Es Line 04	Sewing Output	17	2000	250	16.7	480	2000	1260	222	154	148	264	174	254	332
	Check Passed								200	178	211	198	209	189	190
Es Line 05	Sewing Output	24	1200	150	22.9	480	1200	1602	108	156	116	108	147	142	156
	Check Passed								138	108	147	99	69	195	166

WHAT IT SHOWS

Hourly sewing output for the lines you select.

- Day's target and current target
- Hour-by-hour sewing output
- Idle, breakdown and rework time
- Hourly production chart across lines

Line efficiency



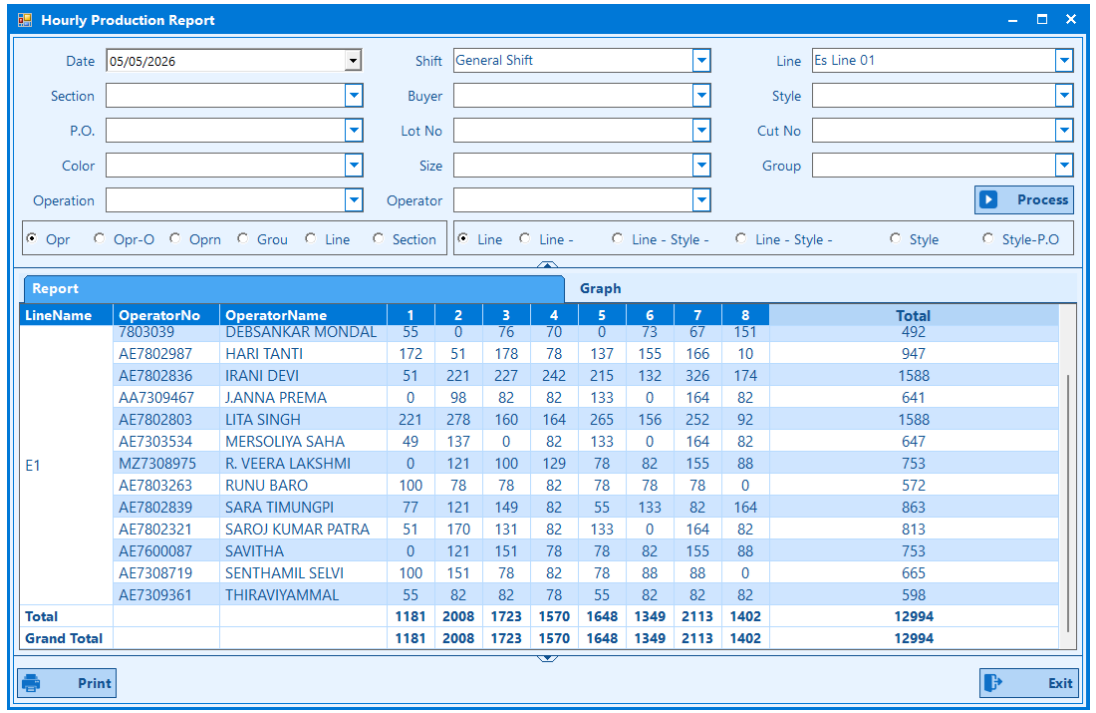
LineName	BuyerName	StyleNo	Output Pcs	Earned Mins	Worked Mins	Cycle Time	Excess Time	Idle Time	Efficiency
As Line 01	Buyer_1	StyleNo-003C0 (2.5)	2026	5065.00	6733.78	2999.28	28.35	4007.02	75.22
		StyleNo-003C1 (2.5)	114	285.00	1965.63	518.43	111.34	1482.38	14.50
			2140	**5350.00**	**8699.41**	**3517.71**	**139.69**	**5489.40**	
As Line 02A	Buyer_1	StyleNo-003C0 (2.5)	2039	5097.50	6941.33	4145.48	23.40	2962.91	73.44
		StyleNo-003C1 (2.5)	38	95.00	469.19	99.20	29.10	377.35	20.25
			2077	**5192.50**	**7410.52**	**4244.68**	**52.50**	**3340.26**	
As Line 03	Buyer_1	StyleNo-003C0 (2.5)	2185	5462.50	7196.37	4555.45	70.11	3073.70	75.91
		StyleNo-003C1 (2.5)	40	100.00	79.95	17.33	0.95	62.62	125.08
			2225	**5562.50**	**7276.32**	**4572.78**	**71.06**	**3136.32**	
As Line 04	Buyer_1	StyleNo-003C0 (2.5)	2152	5380.00	7178.81	4222.37	11.28	3394.60	74.94
		StyleNo-003C1 (2.5)	0	0.00	1206.56	162.10	159.83	1048.77	0.00
			2152	**5380.00**	**8385.37**	**4384.47**	**171.11**	**4443.37**	
As Line 05	Buyer_1	StyleNo-003BF (3.416)	961	3282.78	7568.38	2652.06	103.84	4983.92	43.37
			961	**3282.78**	**7568.38**	**2652.06**	**103.84**	**4983.92**	
As Line 06	Buyer_1	StyleNo-003C0 (2.5)	2190	5475.00	7081.14	4294.83	24.88	3244.30	77.32
					451.88	11.77	10.98	436.77	0.00
			2190	**5475.00**	**7533.02**	**4306.60**	**35.86**	**3681.07**	
As Line 07	Buyer_1	StyleNo-00023 (3.388)	829	2808.65	6977.89	687.06	3.66	5918.45	40.25
					367.23	35.93	0.00	336.62	0.00
			829	**2808.65**	**7345.12**	**722.99**	**3.66**	**6255.07**	

WHAT IT SHOWS

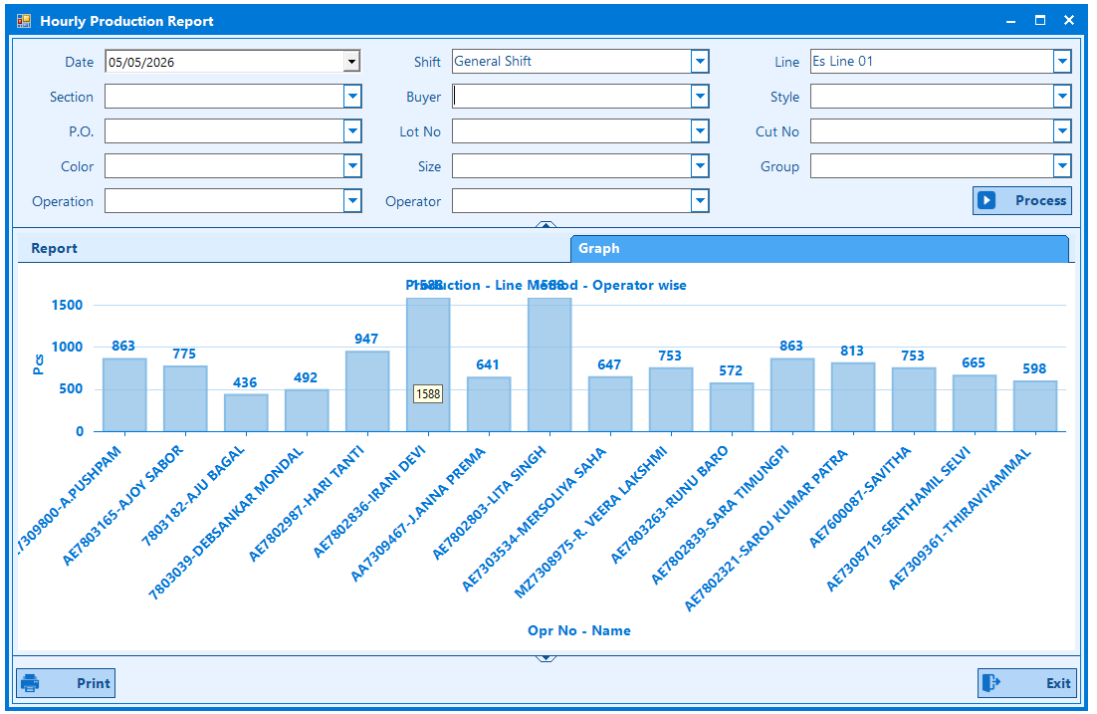
Efficiency of every line for the chosen shift and date.

- Style, order quantity and SAM
- Man-days and number of days
- Available and produced minutes
- Output and on-standard efficiency

Hourly production: operator wise

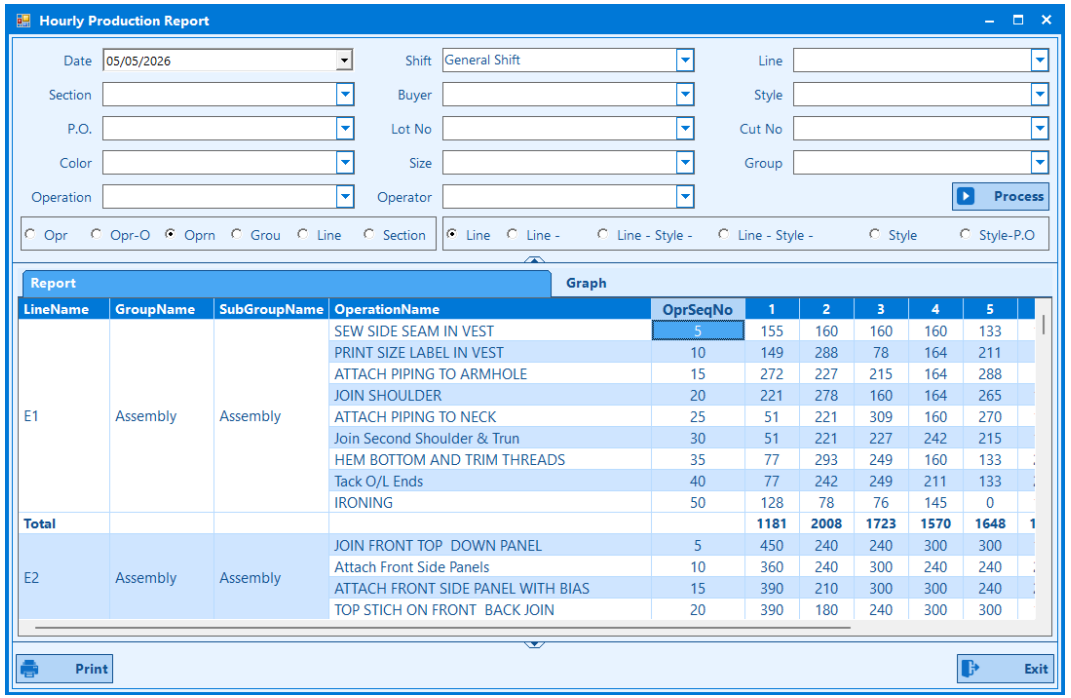


LineName	OperatorNo	OperatorName	1	2	3	4	5	6	7	8	Total
	7803039	DEBSANKAR MONDAL	55	0	76	70	0	73	67	151	492
	AE7802987	HARI TANTI	172	51	178	78	137	155	166	10	947
	AE7802836	IRANI DEVI	51	221	227	242	215	132	326	174	1588
	AA7309467	J.ANNA PREMA	0	98	82	82	133	0	164	82	641
	AE7802803	LITA SINGH	221	278	160	164	265	156	252	92	1588
	AE7303534	MERSOLIYA SAHA	49	137	0	82	133	0	164	82	647
E1	MZ7308975	R. VEERA LAKSHMI	0	121	100	129	78	82	155	88	753
	AE7803263	RUNU BARO	100	78	78	82	78	78	78	0	572
	AE7802839	SARA TIMUNGPI	77	121	149	82	55	133	82	164	863
	AE7802321	SAROJ KUMAR PATRA	51	170	131	82	133	0	164	82	813
	AE7600087	SAVITHA	0	121	151	78	78	82	155	88	753
	AE7308719	SENTHAMIL SELVI	100	151	78	82	78	88	88	0	665
	AE7309361	THIRAVIYAMMAL	55	82	82	78	55	82	82	82	598
Total			**1181**	**2008**	**1723**	**1570**	**1648**	**1349**	**2113**	**1402**	**12994**
Grand Total			**1181**	**2008**	**1723**	**1570**	**1648**	**1349**	**2113**	**1402**	**12994**

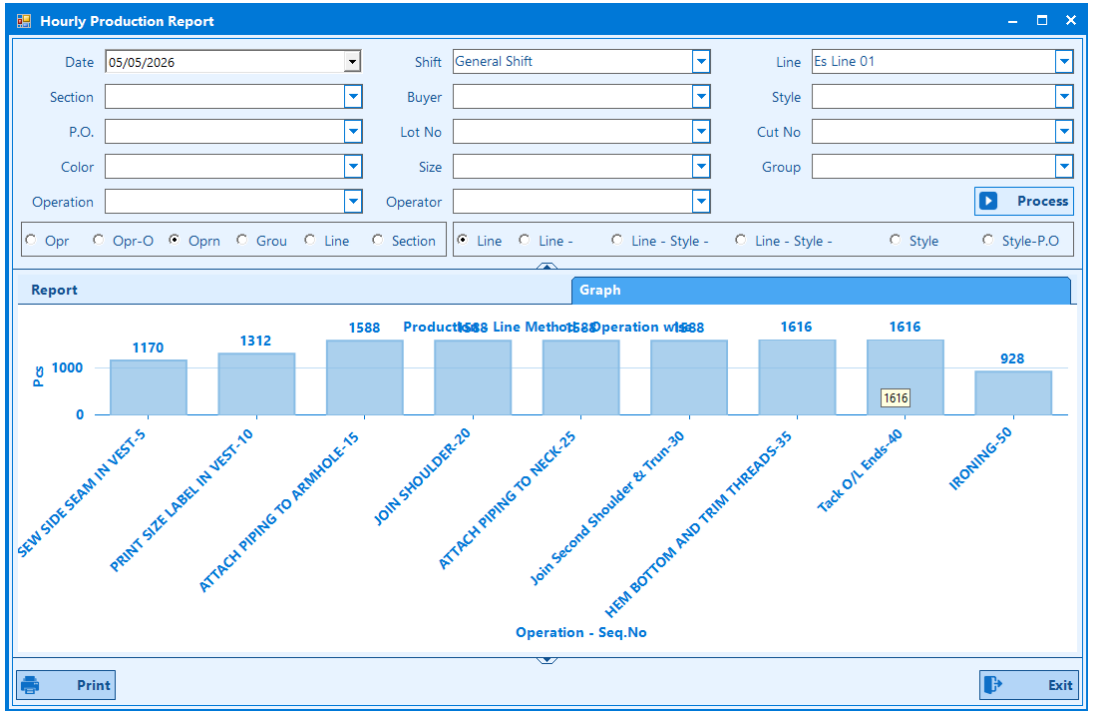


Hour-by-hour output for each operator, available as a table and as a chart.

Hourly production: operation wise

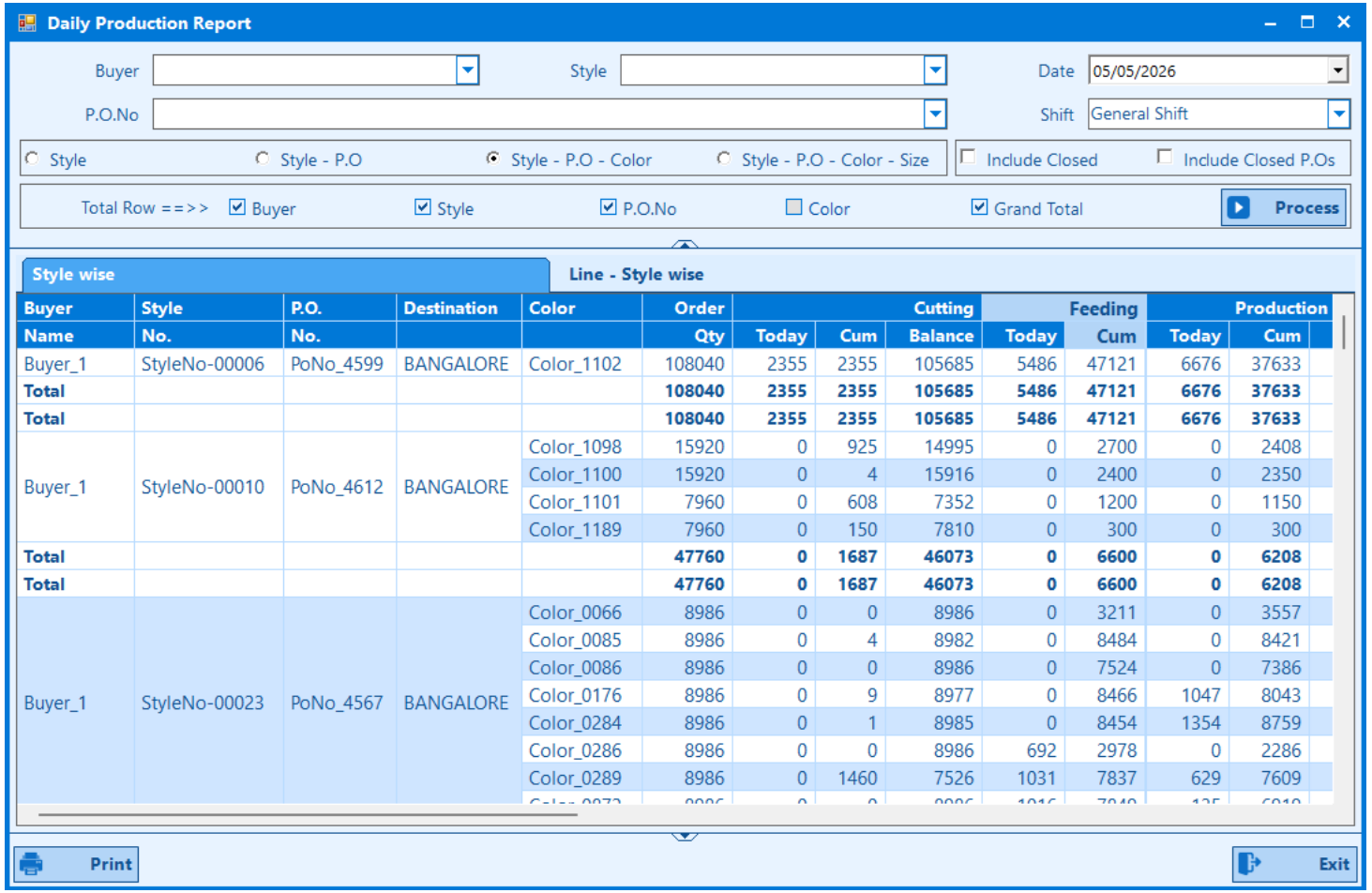


LineName	GroupName	SubGroupName	OperationName	OprSeqNo	1	2	3	4	5
E1	Assembly	Assembly	SEW SIDE SEAM IN VEST	5	155	160	160	160	133
			PRINT SIZE LABEL IN VEST	10	149	288	78	164	211
			ATTACH PIPING TO ARMHOLE	15	272	227	215	164	288
			JOIN SHOULDER	20	221	278	160	164	265
			ATTACH PIPING TO NECK	25	51	221	309	160	270
			Join Second Shoulder & Trun	30	51	221	227	242	215
			HEM BOTTOM AND TRIM THREADS	35	77	293	249	160	133
			Tack O/L Ends	40	77	242	249	211	133
			IRONING	50	128	78	76	145	0
Total					1181	2008	1723	1570	1648
E2	Assembly	Assembly	JOIN FRONT TOP DOWN PANEL	5	450	240	240	300	300
			Attach Front Side Panels	10	360	240	300	240	240
			ATTACH FRONT SIDE PANEL WITH BIAS	15	390	210	300	300	240
			TOP STICH ON FRONT BACK JOIN	20	390	180	240	300	300



Hour-by-hour output for each operation, available as a table and as a chart.

Daily production status



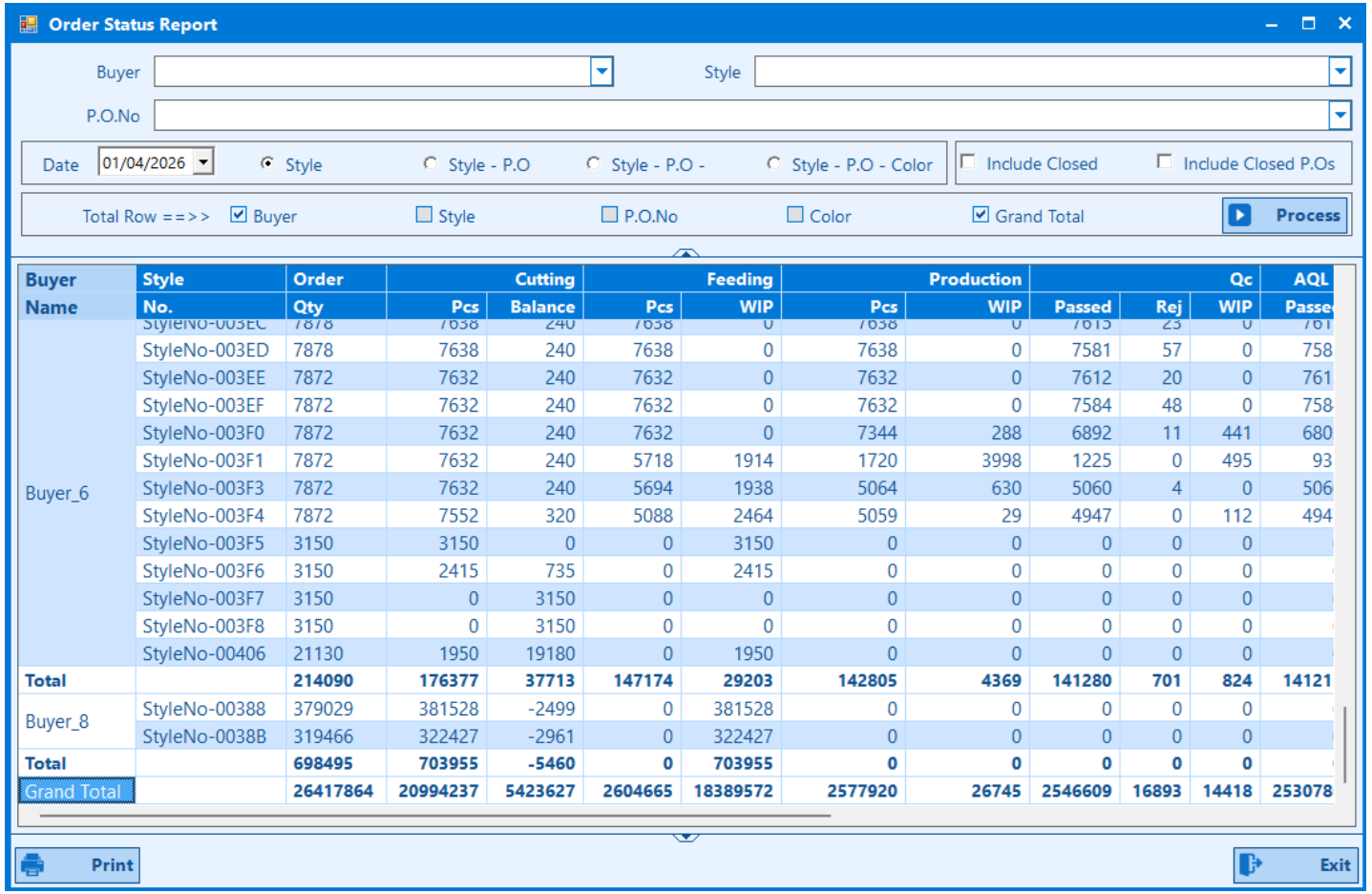
Buyer Name	Style No.	P.O. No.	Destination	Color	Order Qty	Cutting Today	Cutting Cum	Cutting Balance	Feeding Today	Feeding Cum	Production Today	Production Cum
Buyer_1	StyleNo-00006	PoNo_4599	BANGALORE	Color_1102	108040	2355	2355	105685	5486	47121	6676	37633
Total					**108040**	**2355**	**2355**	**105685**	**5486**	**47121**	**6676**	**37633**
Total					**108040**	**2355**	**2355**	**105685**	**5486**	**47121**	**6676**	**37633**
Buyer_1	StyleNo-00010	PoNo_4612	BANGALORE	Color_1098	15920	0	925	14995	0	2700	0	2408
				Color_1100	15920	0	4	15916	0	2400	0	2350
				Color_1101	7960	0	608	7352	0	1200	0	1150
				Color_1189	7960	0	150	7810	0	300	0	300
Total					**47760**	**0**	**1687**	**46073**	**0**	**6600**	**0**	**6208**
Total					**47760**	**0**	**1687**	**46073**	**0**	**6600**	**0**	**6208**
Buyer_1	StyleNo-00023	PoNo_4567	BANGALORE	Color_0066	8986	0	0	8986	0	3211	0	3557
				Color_0085	8986	0	4	8982	0	8484	0	8421
				Color_0086	8986	0	0	8986	0	7524	0	7386
				Color_0176	8986	0	9	8977	0	8466	1047	8043
				Color_0284	8986	0	1	8985	0	8454	1354	8759
				Color_0286	8986	0	0	8986	692	2978	0	2286
				Color_0289	8986	0	1460	7526	1031	7837	629	7609

WHAT IT SHOWS

The day's progress for every style and order.

- Order quantity by style, order and colour
- Cutting and feeding, today and cumulative
- Production, today and cumulative
- Final checking pass figures

Order status



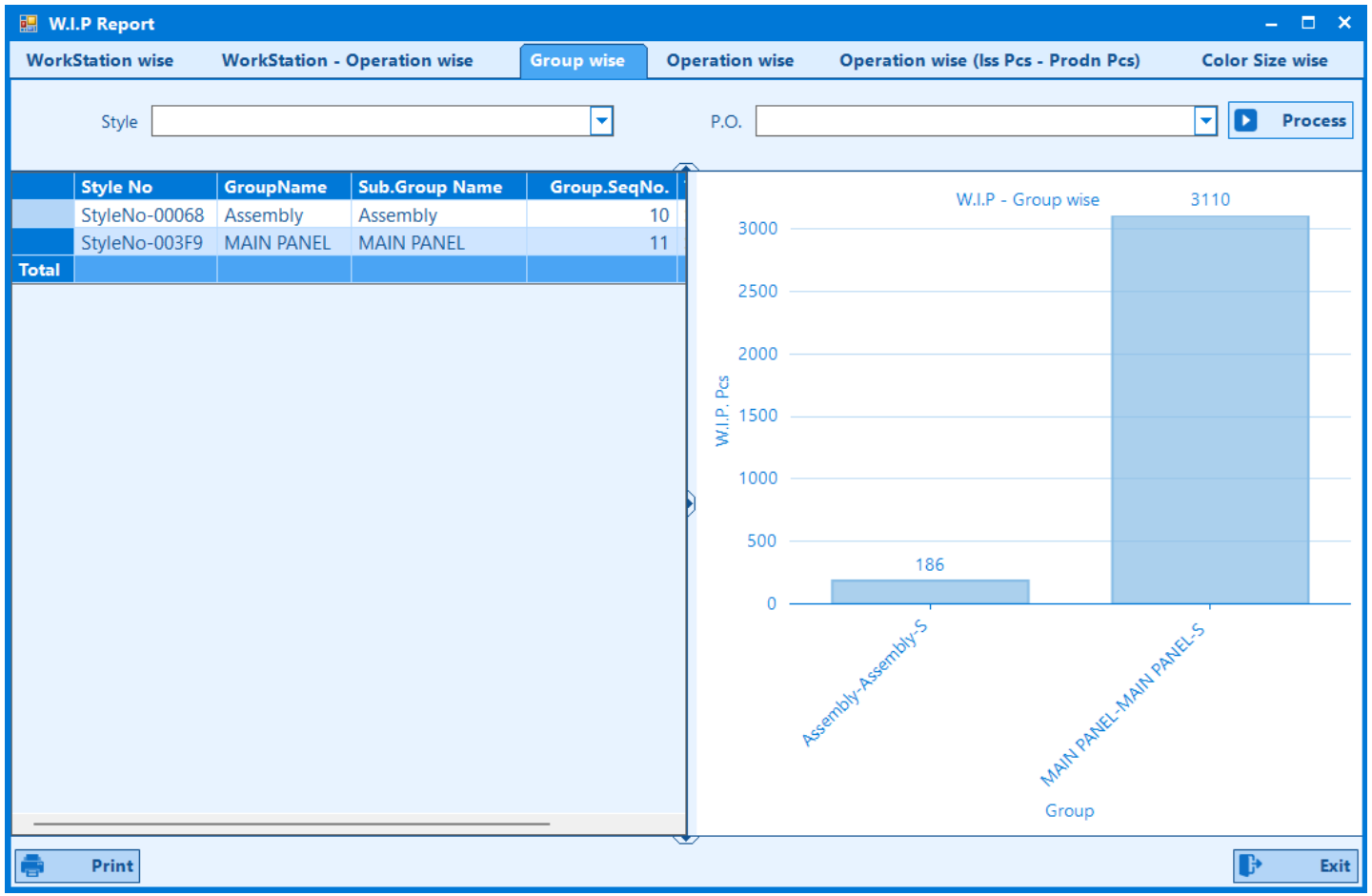
Buyer Name	Style No.	Order Qty	Cutting Pcs	Cutting Balance	Feeding Pcs	Feeding WIP	Production Pcs	Production WIP	Qc Passed	Qc Rej	Qc WIP	AQL Passe
	StyleNo-003EC	7878	7638	240	7638	0	7638	0	7615	23	0	761
	StyleNo-003ED	7878	7638	240	7638	0	7638	0	7581	57	0	758
	StyleNo-003EE	7872	7632	240	7632	0	7632	0	7612	20	0	761
	StyleNo-003EF	7872	7632	240	7632	0	7632	0	7584	48	0	758
	StyleNo-003F0	7872	7632	240	7632	0	7344	288	6892	11	441	680
	StyleNo-003F1	7872	7632	240	5718	1914	1720	3998	1225	0	495	93
Buyer_6	StyleNo-003F3	7872	7632	240	5694	1938	5064	630	5060	4	0	506
	StyleNo-003F4	7872	7552	320	5088	2464	5059	29	4947	0	112	494
	StyleNo-003F5	3150	3150	0	0	3150	0	0	0	0	0	
	StyleNo-003F6	3150	2415	735	0	2415	0	0	0	0	0	
	StyleNo-003F7	3150	0	3150	0	0	0	0	0	0	0	
	StyleNo-003F8	3150	0	3150	0	0	0	0	0	0	0	
	StyleNo-00406	21130	1950	19180	0	1950	0	0	0	0	0	
Total		**214090**	**176377**	**37713**	**147174**	**29203**	**142805**	**4369**	**141280**	**701**	**824**	**14121**
Buyer_8	StyleNo-00388	379029	381528	-2499	0	381528	0	0	0	0	0	
	StyleNo-0038B	319466	322427	-2961	0	322427	0	0	0	0	0	
Total		**698495**	**703955**	**-5460**	**0**	**703955**	**0**	**0**	**0**	**0**	**0**	
Grand Total		**26417864**	**20994237**	**5423627**	**2604665**	**18389572**	**2577920**	**26745**	**2546609**	**16893**	**14418**	**253078**

WHAT IT SHOWS

Where every order stands, from cutting to shipment.

- Order, cut and issued quantities
- Produced quantity and WIP
- QC passed and rejection
- Shipped quantity

WIP report: group wise

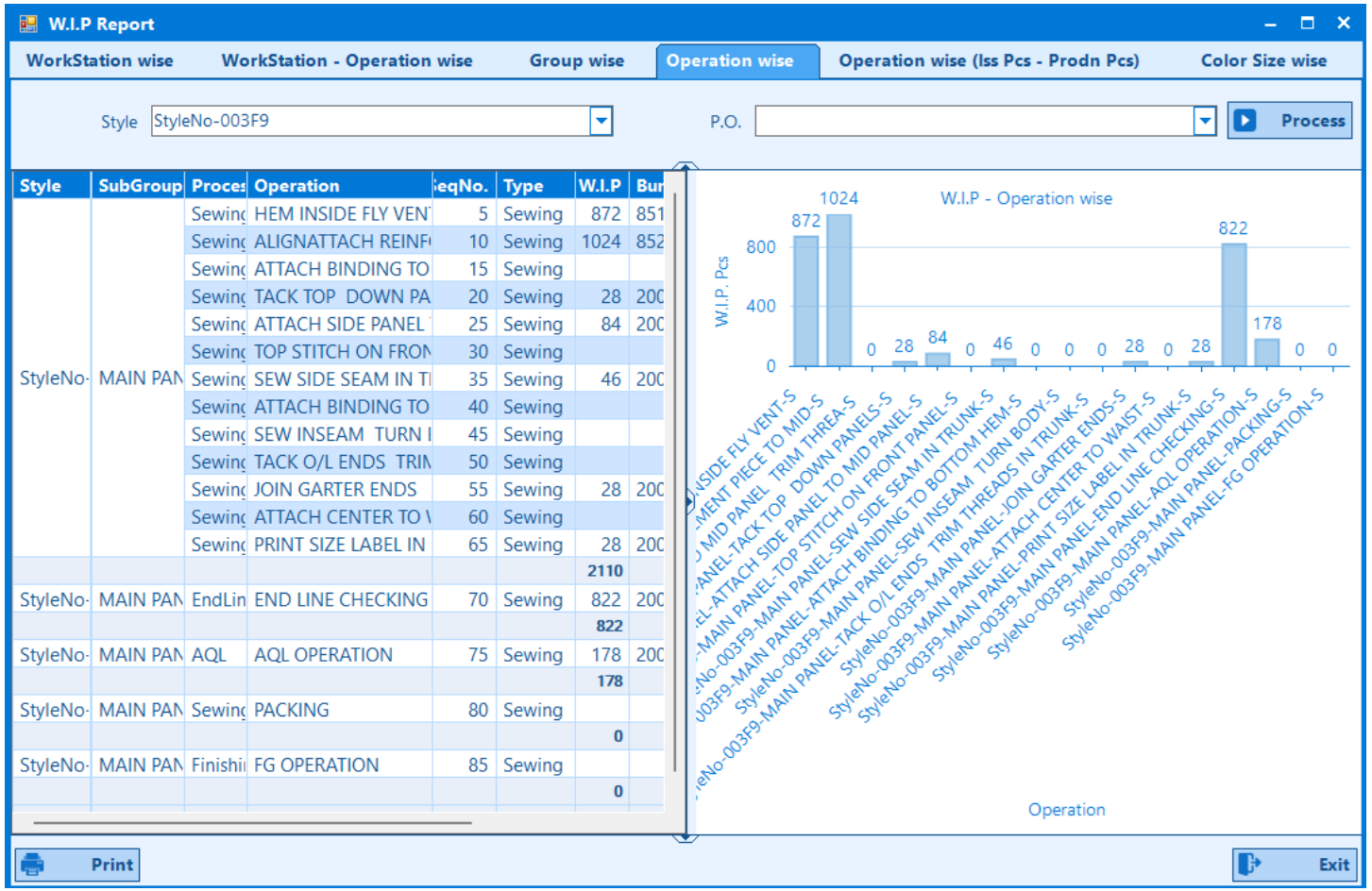


WHAT IT SHOWS

Work in progress for each garment group.

- Issues, production and WIP by group
- Filter by buyer, style, order and line
- Bar chart of WIP pieces

WIP report: operation wise

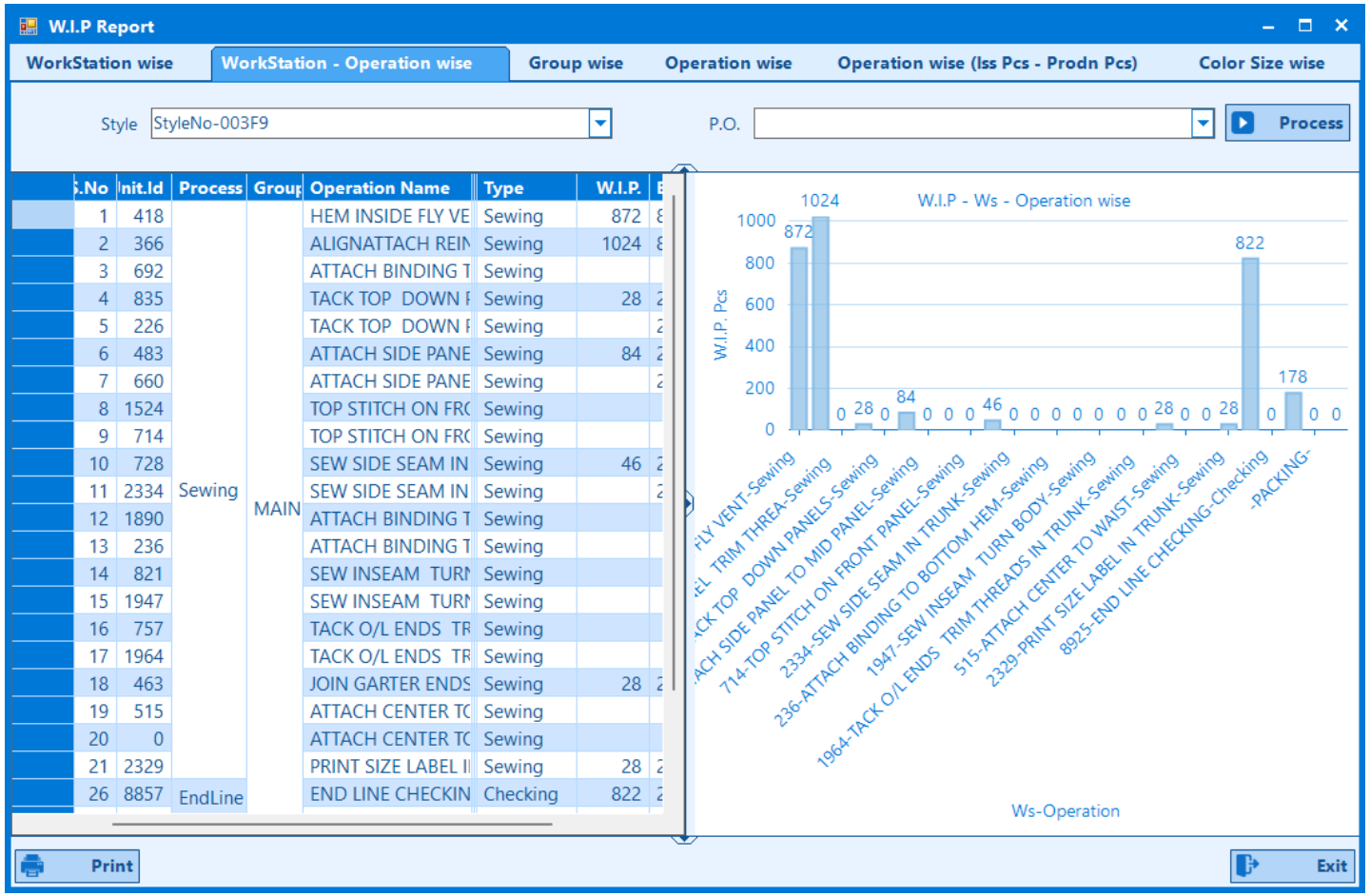


WHAT IT SHOWS

Work in progress at each operation.

- Issues, production and WIP by operation
- Operations listed in sequence
- Bar chart of WIP pieces

WIP report: workstation and operation wise

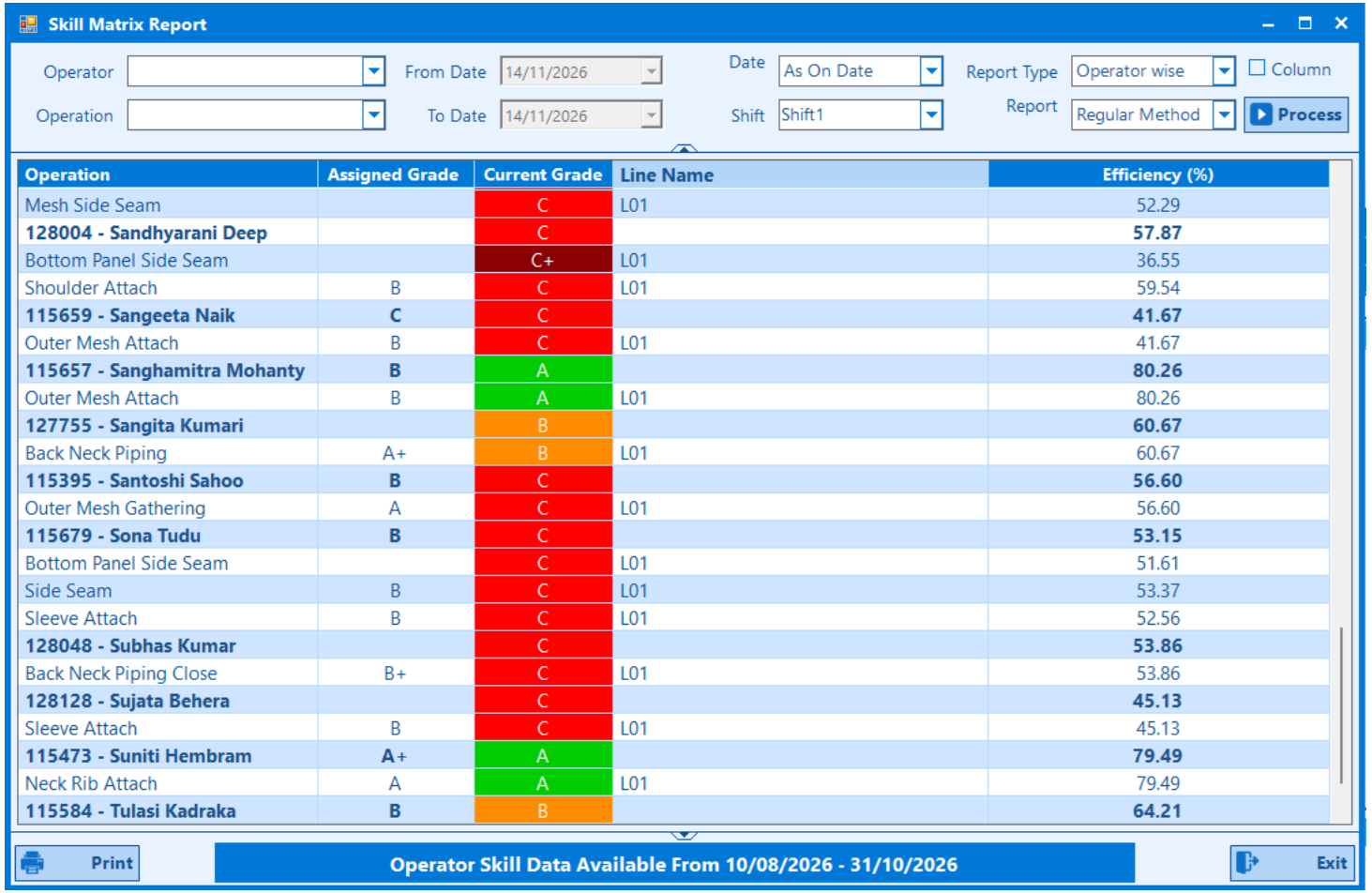


WHAT IT SHOWS

Work in progress at each workstation.

- Workstation, style, group and operation
- WIP pieces at every workstation
- Bar chart of WIP pieces

Skill matrix report: operator wise



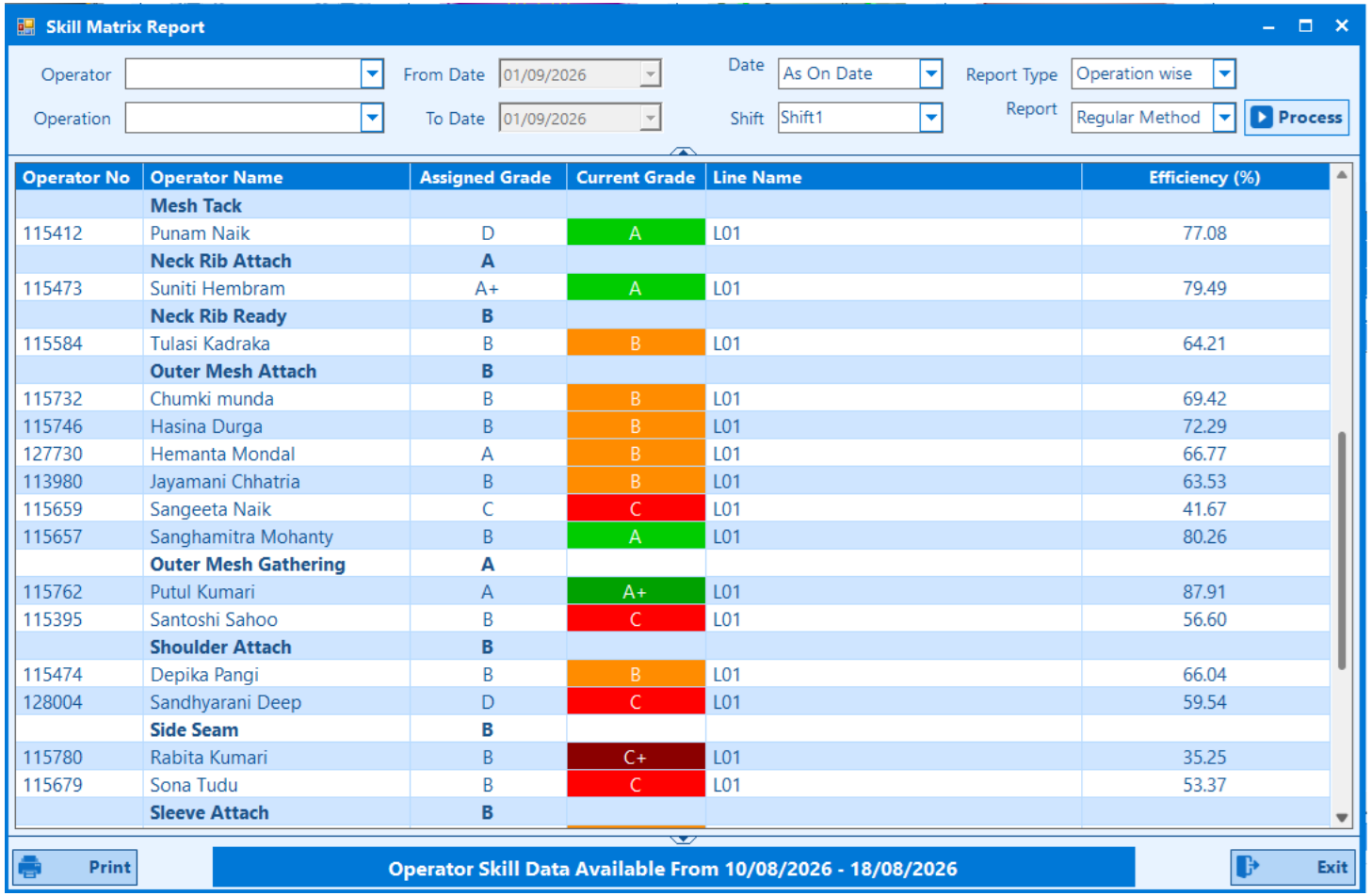
Operation	Assigned Grade	Current Grade	Line Name	Efficiency (%)
Mesh Side Seam		C	L01	52.29
128004 - Sandhyarani Deep		C		**57.87**
Bottom Panel Side Seam		C+	L01	36.55
Shoulder Attach	B	C	L01	59.54
115659 - Sangeeta Naik	**C**	C		**41.67**
Outer Mesh Attach	B	C	L01	41.67
115657 - Sanghamitra Mohanty	**B**	A		**80.26**
Outer Mesh Attach	B	A	L01	80.26
127755 - Sangita Kumari		B		**60.67**
Back Neck Piping	A+	B	L01	60.67
115395 - Santoshi Sahoo	**B**	C		**56.60**
Outer Mesh Gathering	A	C	L01	56.60
115679 - Sona Tudu	**B**	C		**53.15**
Bottom Panel Side Seam		C	L01	51.61
Side Seam	B	C	L01	53.37
Sleeve Attach	B	C	L01	52.56
128048 - Subhas Kumar		C		**53.86**
Back Neck Piping Close	B+	C	L01	53.86
128128 - Sujata Behera		C		**45.13**
Sleeve Attach	B	C	L01	45.13
115473 - Suniti Hembram	**A+**	A		**79.49**
Neck Rib Attach	A	A	L01	79.49
115584 - Tulasi Kadraka	**B**	B		**64.21**

WHAT IT SHOWS

Each operator's efficiency on the operations they perform.

- Operations listed under each operator
- Line name and efficiency %
- Between-dates or as-on-date view

Skill matrix report: operation wise



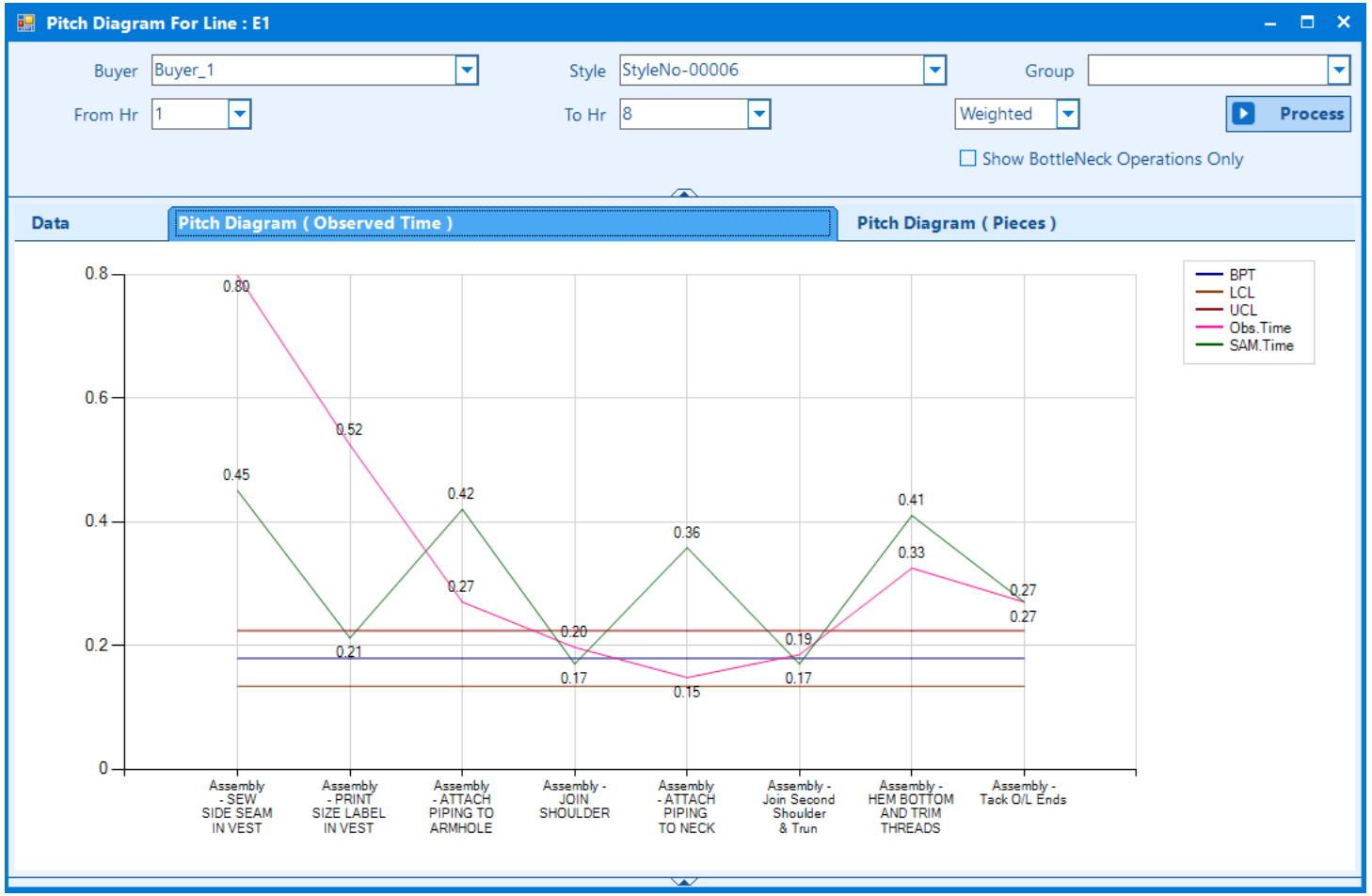
Operator No	Operator Name	Assigned Grade	Current Grade	Line Name	Efficiency (%)
	Mesh Tack				
115412	Punam Naik	D	A	L01	77.08
	Neck Rib Attach	**A**			
115473	Suniti Hembram	A+	A	L01	79.49
	Neck Rib Ready	**B**			
115584	Tulasi Kadraka	B	B	L01	64.21
	Outer Mesh Attach	**B**			
115732	Chumki munda	B	B	L01	69.42
115746	Hasina Durga	B	B	L01	72.29
127730	Hemanta Mondal	A	B	L01	66.77
113980	Jayamani Chhatria	B	B	L01	63.53
115659	Sangeeta Naik	C	C	L01	41.67
115657	Sanghamitra Mohanty	B	A	L01	80.26
	Outer Mesh Gathering	**A**			
115762	Putul Kumari	A	A+	L01	87.91
115395	Santoshi Sahoo	B	C	L01	56.60
	Shoulder Attach	**B**			
115474	Depika Pangi	B	B	L01	66.04
128004	Sandhyarani Deep	D	C	L01	59.54
	Side Seam	**B**			
115780	Rabita Kumari	B	C+	L01	35.25
115679	Sona Tudu	B	C	L01	53.37
	Sleeve Attach	**B**			

WHAT IT SHOWS

The operators who perform each operation, and how efficiently.

- Employees listed under each operation
- Line name and efficiency %
- Between-dates or as-on-date view

Line balancing diagram

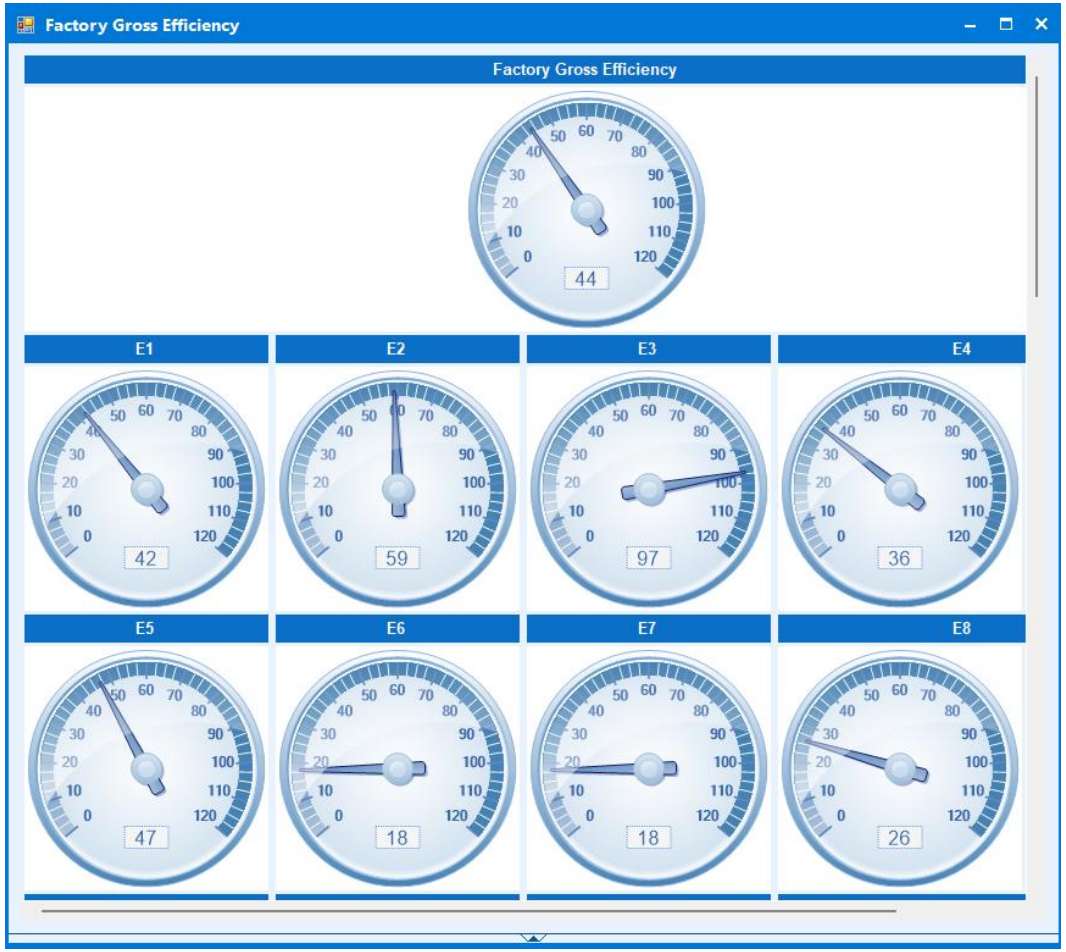


WHAT IT SHOWS

A pitch diagram of observed time for every operation in the line.

- Observed time plotted per operation
- BPT with upper and lower control limits
- Pitch diagram by time or by pieces
- Mode-median or weighted-average basis

Line analysis



WHAT IT SHOWS

Compare lines side by side on the variables you choose.

- Select the lines and graph variables
- Day's target, feeding, sewing output, check passed and more
- Choice of chart type and colour palette

04

Features and benefits

What sets ProCon apart, and what it delivers on the production floor.

ProCon key features

1. **SAM validation**
   Operation time (SAM) is validated.

2. **Sequence integrity**
   Sequential integrity of the operations is maintained.

3. **No double counting**
   Avoids double accounting of production.

4. **Off-standard accountability**
   Idle, breakdown, rework and non-productive time are all accounted for.

5. **Every production method**
   Progressive bundle, piece and hanger movement, plus bundle sharing.

6. **Incentive ready**
   Supports piece rate, group and individual incentive methods.

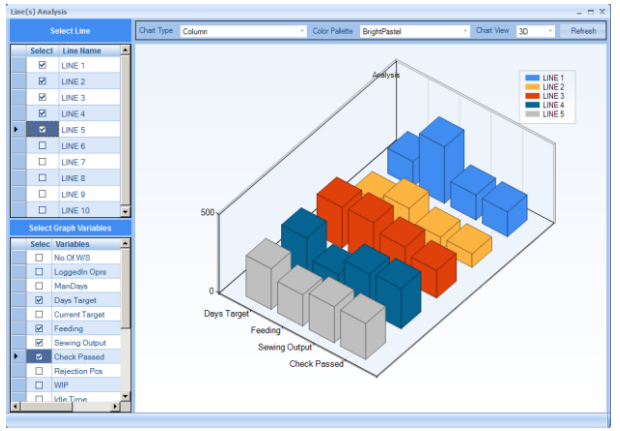
7. **Seamless integration**
   Integrates seamlessly with other application systems.

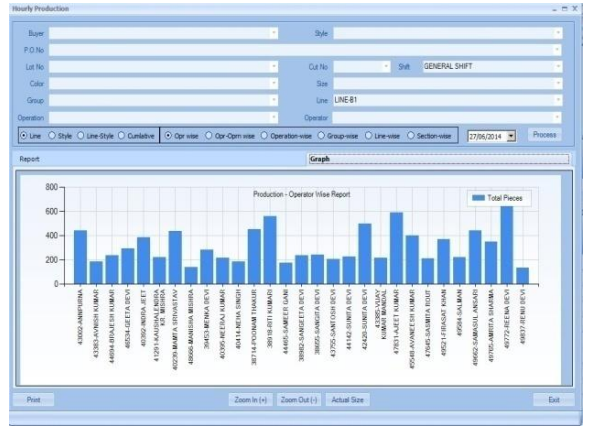
8. **User configurable**
   Features and validations are user configurable.

9. **Multi-style lines**
   Multiple styles can be loaded in a line at the same time.

ProCon key benefits

- ✓ Centralised online production status
- ✓ Accurate operator performance
- ✓ Alerts for exceptional situations
- ✓ Efficient line balancing
- ✓ Decreased downtime
- ✓ Decreased work in progress
- ✓ Improved in-line quality control
- ✓ Reports in multiple formats
- ✓ User-friendly application interface





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