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NESSCO MACHINES CONTROL WITH SMART IOT SOLUTION

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NS-200 Machine IOT Control

NESSCO Cloud Database

NESSCO Machine
Program Logic Control

NESSCO IOT Device

NESSCO Human Machine
Interface

Machine Drive Control

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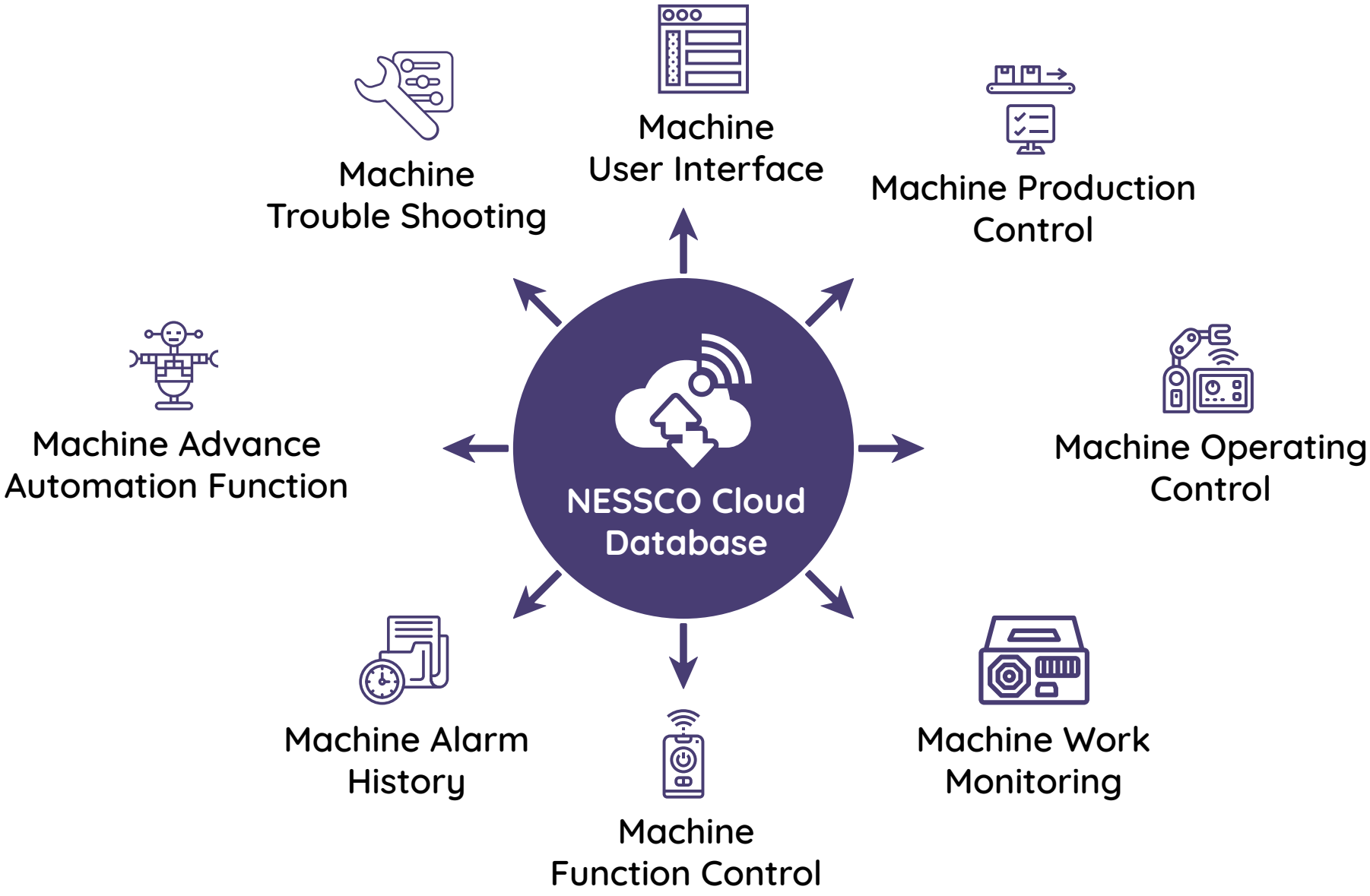
Smart IOT Technology For Machine Condition Monitoring



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User Machine Control

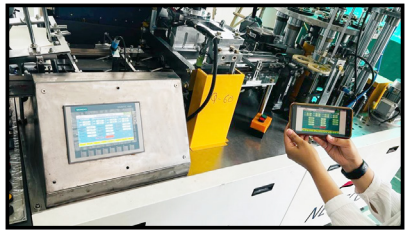
Machine Program Logic Control 1212C

Machine Program Logic Control 1212C

NESSCO IOT Device

NESSCO IOT Device

NESSCO Cloud Database



User

NESSCO Cloud Database

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How To Control NESSCO IOT BASED MACHINES?

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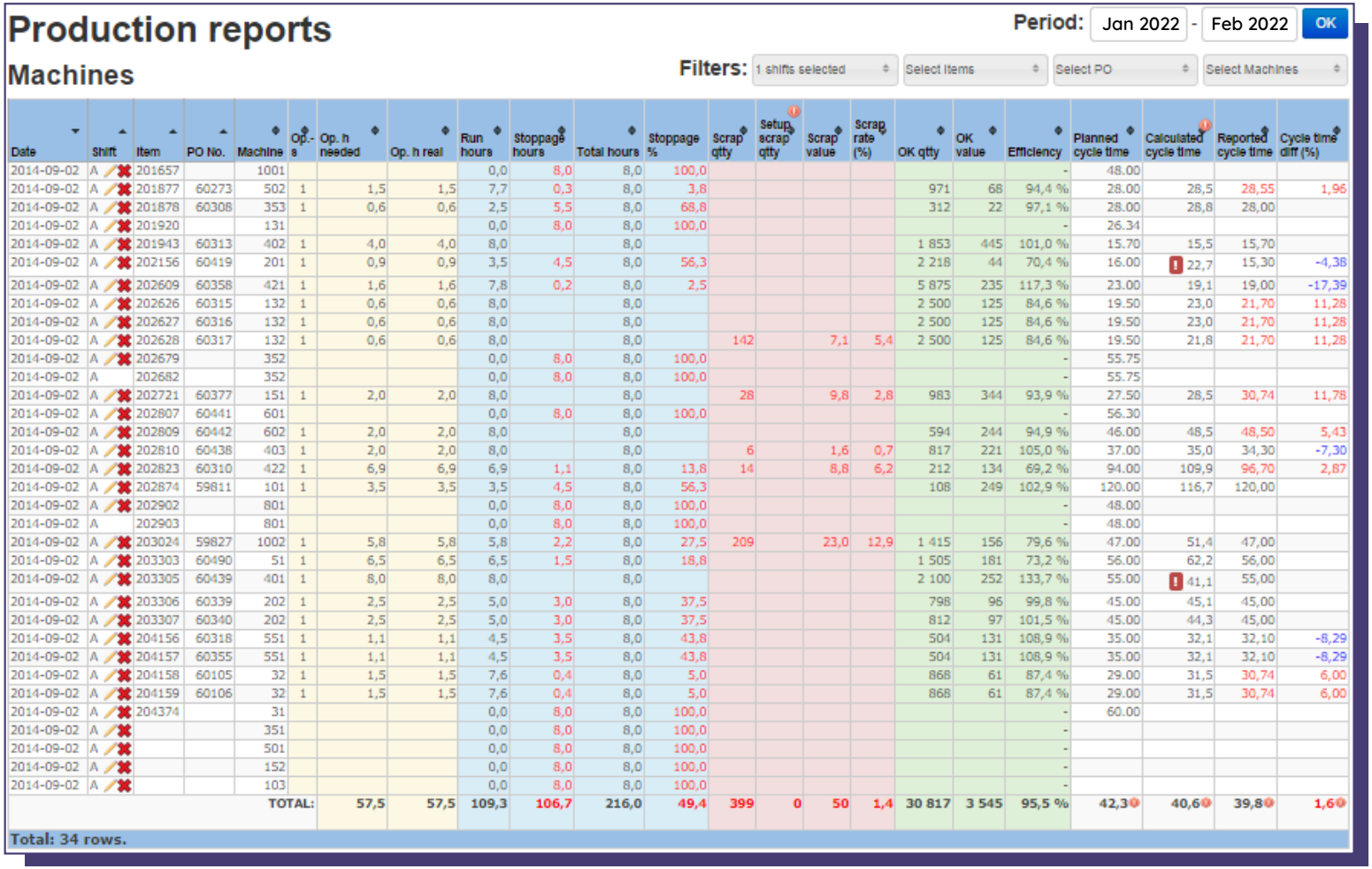
Monitor Production Reports

(Time Basis : Daily/Weekly/Mothly/Yearly)

Now you can monitor all your machines with this device. One can get all production related information at one place including efficient production and unproductive one in terms of both quantity and time.



Production reports

Period: Jan 2022 - Feb 2022 OK

Machines

Filters: 1 shifts selected | Select Items | Select PO | Select Machines

Date	Shift	Item	PO No.	Machine	Op.-s	Op. h needed	Op. h real	Run hours	Stoppage hours	Total hours	Stoppage %	Scrap qtty	Setup scrap qtty	Scrap value	Scrap rate (%)	OK qtty	OK value	Efficiency	Planned cycle time	Calculated cycle time	Reported cycle time	Cycle time diff (%)
2014-09-02	A	201657		1001				0,0	8,0	8,0	100,0							-	48.00			
2014-09-02	A	201877	60273	502	1	1,5	1,5	7,7	0,3	8,0	3,8					971	68	94,4 %	28.00	28,5	28,55	1,96
2014-09-02	A	201878	60308	353	1	0,6	0,6	2,5	5,5	8,0	68,8					312	22	97,1 %	28.00	28,8	28,00	
2014-09-02	A	201920		131				0,0	8,0	8,0	100,0							-	26.34			
2014-09-02	A	201943	60313	402	1	4,0	4,0	8,0		8,0						1 853	445	101,0 %	15.70	15,5	15,70	
2014-09-02	A	202156	60419	201	1	0,9	0,9	3,5	4,5	8,0	56,3					2 218	44	70,4 %	16.00	! 22,7	15,30	-4,38
2014-09-02	A	202609	60358	421	1	1,6	1,6	7,8	0,2	8,0	2,5					5 875	235	117,3 %	23.00	19,1	19,00	-17,39
2014-09-02	A	202626	60315	132	1	0,6	0,6	8,0		8,0						2 500	125	84,6 %	19.50	23,0	21,70	11,28
2014-09-02	A	202627	60316	132	1	0,6	0,6	8,0		8,0						2 500	125	84,6 %	19.50	23,0	21,70	11,28
2014-09-02	A	202628	60317	132	1	0,6	0,6	8,0		8,0		142		7,1	5,4	2 500	125	84,6 %	19.50	21,8	21,70	11,28
2014-09-02	A	202679		352				0,0	8,0	8,0	100,0							-	55.75			
2014-09-02	A	202682		352				0,0	8,0	8,0	100,0							-	55.75			
2014-09-02	A	202721	60377	151	1	2,0	2,0	8,0		8,0		28		9,8	2,8	983	344	93,9 %	27.50	28,5	30,74	11,78
2014-09-02	A	202807	60441	601				0,0	8,0	8,0	100,0							-	56.30			
2014-09-02	A	202809	60442	602	1	2,0	2,0	8,0		8,0						594	244	94,9 %	46.00	48,5	48,50	5,43
2014-09-02	A	202810	60438	403	1	2,0	2,0	8,0		8,0		6		1,6	0,7	817	221	105,0 %	37.00	35,0	34,30	-7,30
2014-09-02	A	202823	60310	422	1	6,9	6,9	6,9	1,1	8,0	13,8	14		8,8	6,2	212	134	69,2 %	94.00	109,9	96,70	2,87
2014-09-02	A	202874	59811	101	1	3,5	3,5	3,5	4,5	8,0	56,3					108	249	102,9 %	120.00	116,7	120,00	
2014-09-02	A	202902		801				0,0	8,0	8,0	100,0							-	48.00			
2014-09-02	A	202903		801				0,0	8,0	8,0	100,0							-	48.00			
2014-09-02	A	203024	59827	1002	1	5,8	5,8	5,8	2,2	8,0	27,5	209		23,0	12,9	1 415	156	79,6 %	47.00	51,4	47,00	
2014-09-02	A	203303	60490	51	1	6,5	6,5	6,5	1,5	8,0	18,8					1 505	181	73,2 %	56.00	62,2	56,00	
2014-09-02	A	203305	60439	401	1	8,0	8,0	8,0		8,0						2 100	252	133,7 %	55.00	! 41,1	55,00	
2014-09-02	A	203306	60339	202	1	2,5	2,5	5,0	3,0	8,0	37,5					798	96	99,8 %	45.00	45,1	45,00	
2014-09-02	A	203307	60340	202	1	2,5	2,5	5,0	3,0	8,0	37,5					812	97	101,5 %	45.00	44,3	45,00	
2014-09-02	A	204156	60318	551	1	1,1	1,1	4,5	3,5	8,0	43,8					504	131	108,9 %	35.00	32,1	32,10	-8,29
2014-09-02	A	204157	60355	551	1	1,1	1,1	4,5	3,5	8,0	43,8					504	131	108,9 %	35.00	32,1	32,10	-8,29
2014-09-02	A	204158	60105	32	1	1,5	1,5	7,6	0,4	8,0	5,0					868	61	87,4 %	29.00	31,5	30,74	6,00
2014-09-02	A	204159	60106	32	1	1,5	1,5	7,6	0,4	8,0	5,0					868	61	87,4 %	29.00	31,5	30,74	6,00
2014-09-02	A	204374		31				0,0	8,0	8,0	100,0							-	60.00			
2014-09-02	A			351				0,0	8,0	8,0	100,0							-				
2014-09-02	A			501				0,0	8,0	8,0	100,0							-				
2014-09-02	A			152				0,0	8,0	8,0	100,0							-				
2014-09-02	A			103				0,0	8,0	8,0	100,0							-				
				TOTAL:		57,5	57,5	109,3	106,7	216,0	49,4	399	0	50	1,4	30 817	3 545	95,5 %	42,3	40,6	39,8	1,6

Total: 34 rows.

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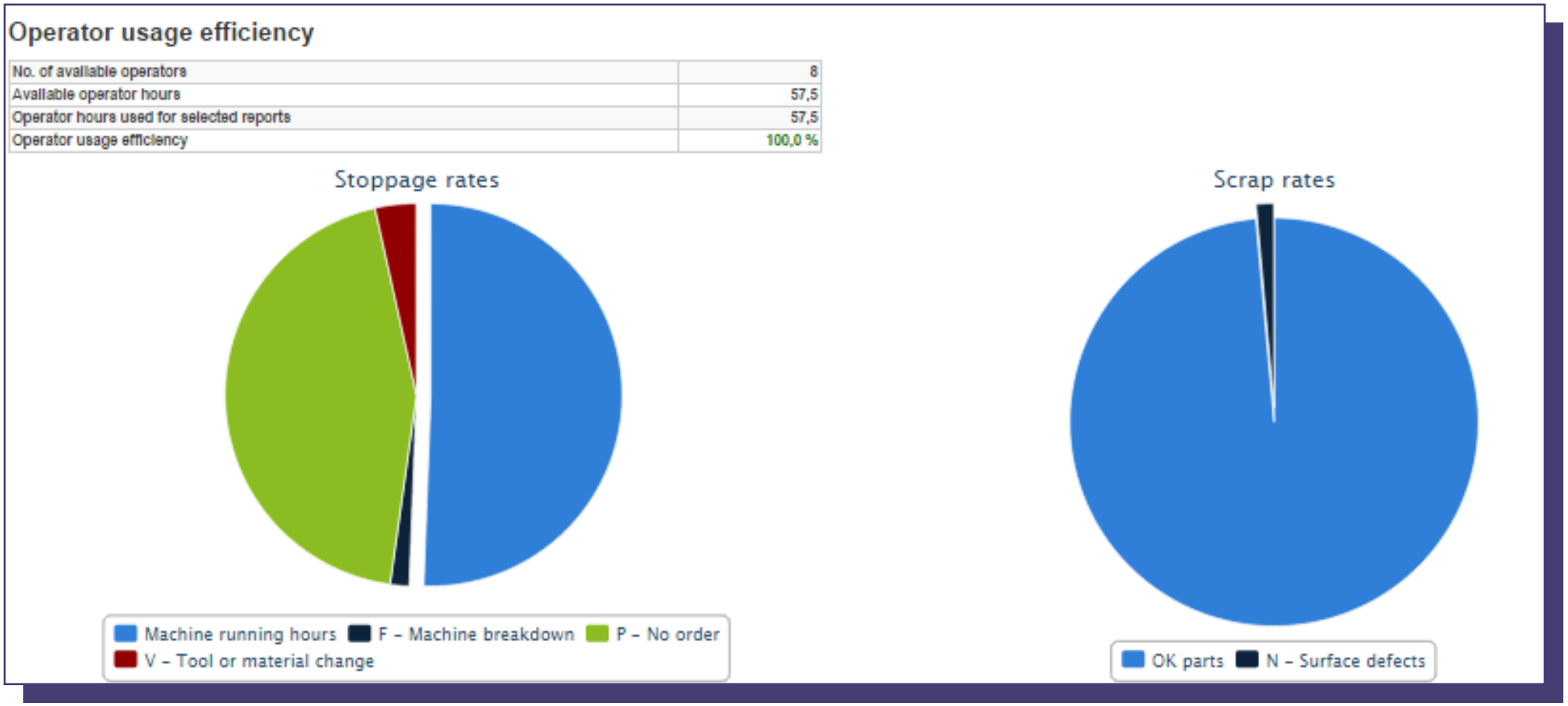
Monitor Machine Efficiency

Under this option, you can track efficiency of particular machinery in terms of operating hours. You can keep a record of number of operators allotted to any machine and their operating (productive) hours too.



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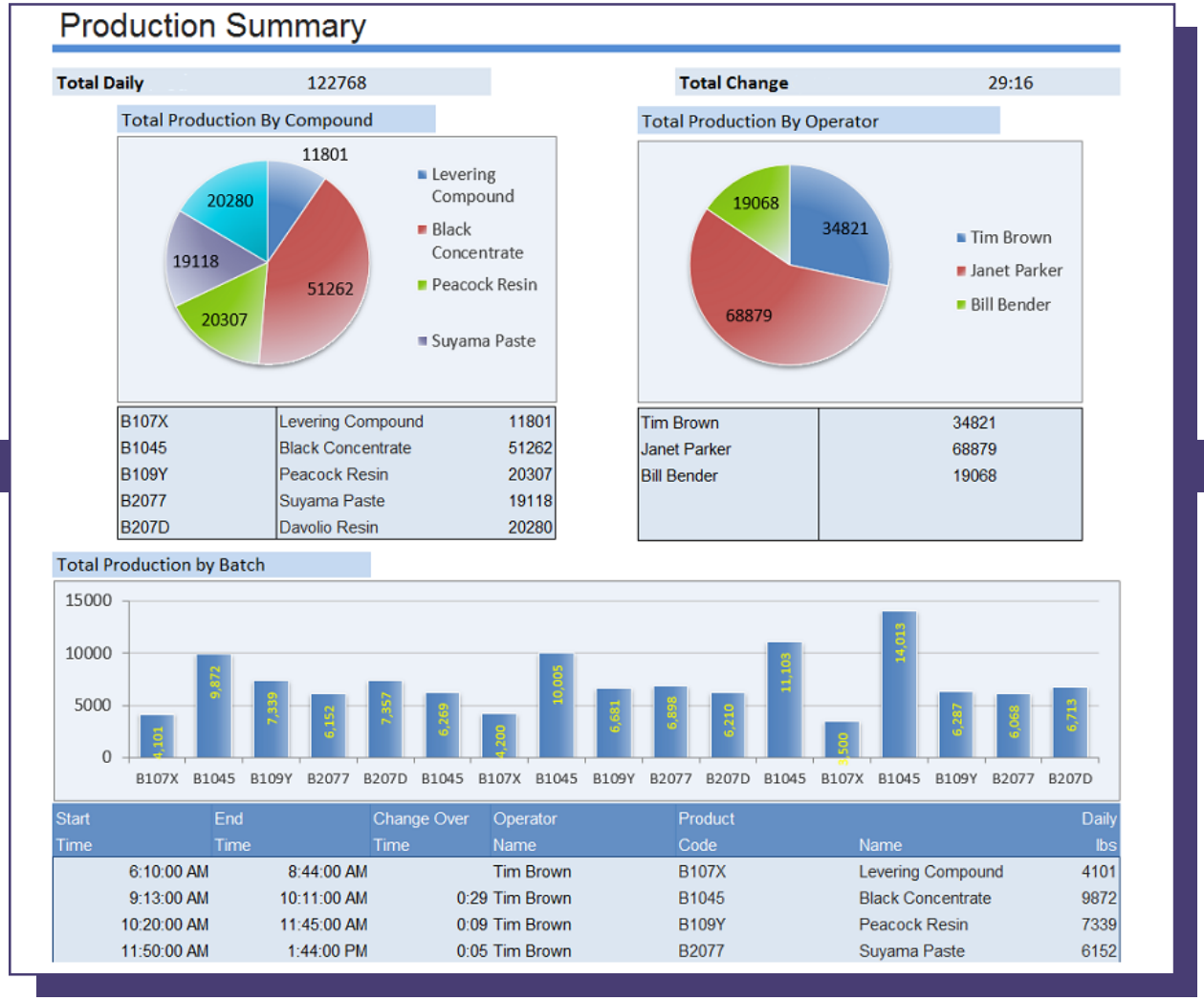
Production Setup Data

This feature generates a report to manage machine's profitable output and measurable count value of production done by machine.



Production Summary

Total Daily 122768

Total Change 29:16

Total Production By Compound

B107X	Levering Compound	11801
B1045	Black Concentrate	51262
B109Y	Peacock Resin	20307
B2077	Suyama Paste	19118
B207D	Davolio Resin	20280

Total Production By Operator

Tim Brown	34821
Janet Parker	68879
Bill Bender	19068

Total Production by Batch

Start Time	End Time	Change Over Time	Operator Name	Product Code	Name	Daily lbs
6:10:00 AM	8:44:00 AM		Tim Brown	B107X	Levering Compound	4101
9:13:00 AM	10:11:00 AM	0:29	Tim Brown	B1045	Black Concentrate	9872
10:20:00 AM	11:45:00 AM	0:09	Tim Brown	B109Y	Peacock Resin	7339
11:50:00 AM	1:44:00 PM	0:05	Tim Brown	B2077	Suyama Paste	6152

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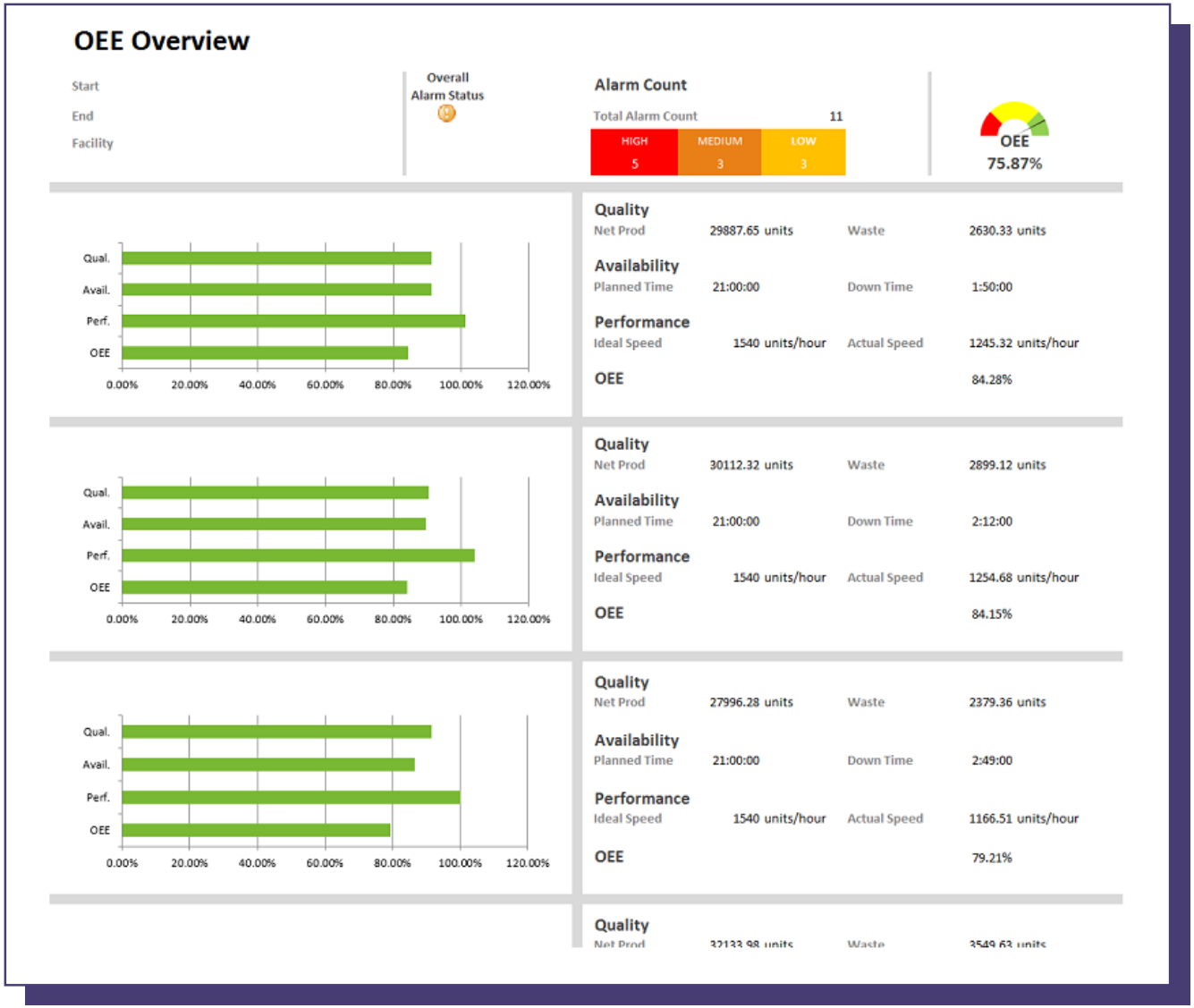
Machine Performance Overview

This feature enables you to have an overview of your machine's performance in terms of production and operating time. In this way you will get to know the difference between ideal speed and actual speed.



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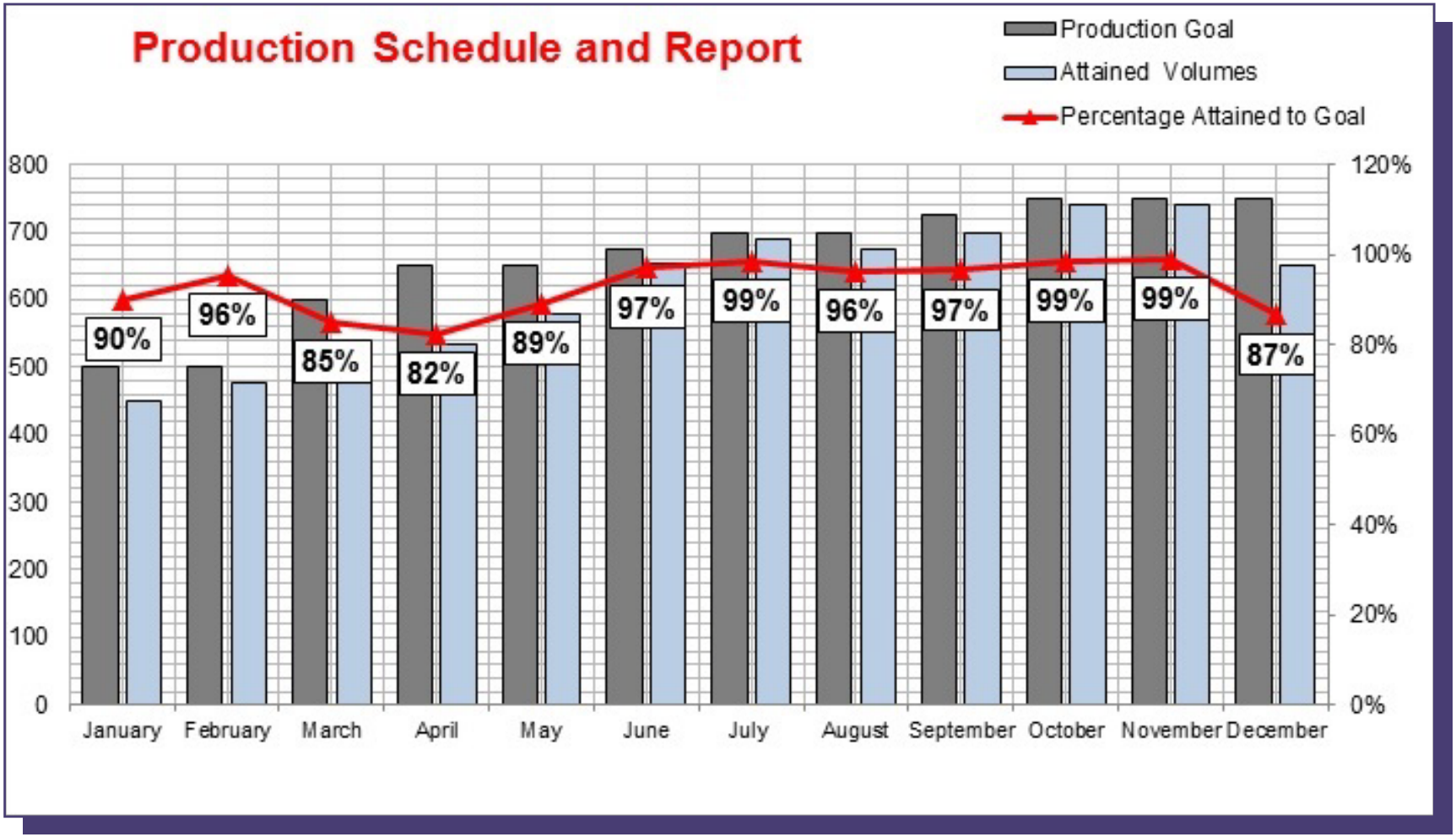
Production Target Analysis

This feature will give you a production overview over a particular span of time. You can calculate the difference between your goal and final result, i.e. how much have you attained out of your desired production goal.



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Machine Alarm Monitoring

IOT device detects errors on basis of alarm detection in machines. It measures the types of errors occurring in the machine and their frequency as well.

Alarm Filter Report

Select the Report Time Period — From: 01/06/2018 11:15:53 — To: 28/06/2018 11:30:53

Specify the Alarm Priority Range — From: 0 — To: 999

Enter Alarm Search Text — Alarm Like: Pump

Refresh Report | Generate PDF

Start Time	Ack Time	End Time	Response time	Duration	Alarm Text	Priority
27/06/2018 18:00:00	27/06/2018 18:30:00	27/06/2018 19:00:00	0:30:00	1:00:00	Pumps 100%	5
26/06/2018 18:00:00	26/06/2018 18:30:00	26/06/2018 19:00:00	0:30:00	1:00:00	Pumping Starts	8
26/06/2018 09:00:00	26/06/2018 09:30:00	26/06/2018 10:00:00	0:30:00	1:00:00	Pumps Stopped	9
25/06/2018 13:00:00	25/06/2018 13:30:00	25/06/2018 14:00:00	0:30:00	1:00:00	Pumps Stopped	9
25/06/2018 12:00:00	25/06/2018 12:30:00	25/06/2018 13:00:00	0:30:00	1:00:00	Pumps Runs	5
25/06/2018 11:00:00	25/06/2018 11:30:00	25/06/2018 12:00:00	0:30:00	1:00:00	Pumps Runs	5
24/06/2018 11:00:00	24/06/2018 11:30:00	24/06/2018 12:00:00	0:30:00	1:00:00	Pumps 100%	5
23/06/2018 11:00:00	23/06/2018 11:30:00	23/06/2018 12:00:00	0:30:00	1:00:00	Pumping Starts	8
22/06/2018 14:00:00	22/06/2018 14:30:00	22/06/2018 15:00:00	0:30:00	1:00:00	Pumps Stopped	9
21/06/2018 18:00:00	21/06/2018 18:30:00	21/06/2018 19:00:00	0:30:00	1:00:00	Pumps Stopped	9
21/06/2018 17:00:00	21/06/2018 17:30:00	21/06/2018 18:00:00	0:30:00	1:00:00	Pumps Runs	5
21/06/2018 16:00:00	21/06/2018 16:30:00	21/06/2018 17:00:00	0:30:00	1:00:00	Pumps Runs	5
20/06/2018 16:00:00	20/06/2018 16:30:00	20/06/2018 17:00:00	0:30:00	1:00:00	Pumps 100%	5
19/06/2018 16:00:00	19/06/2018 16:30:00	19/06/2018 17:00:00	0:30:00	1:00:00	Pumping Starts	8
19/06/2018 07:00:00	19/06/2018 07:30:00	19/06/2018 08:00:00	0:30:00	1:00:00	Pumps Stopped	9
18/06/2018 11:00:00	18/06/2018 11:30:00	18/06/2018 12:00:00	0:30:00	1:00:00	Pumps Stopped	9
18/06/2018 10:00:00	18/06/2018 10:30:00	18/06/2018 11:00:00	0:30:00	1:00:00	Pumps Runs	5
18/06/2018 09:00:00	18/06/2018 09:30:00	18/06/2018 10:00:00	0:30:00	1:00:00	Pumps Runs	5
17/06/2018 09:00:00	17/06/2018 09:30:00	17/06/2018 10:00:00	0:30:00	1:00:00	Pumps 100%	5
16/06/2018 09:00:00	16/06/2018 09:30:00	16/06/2018 10:00:00	0:30:00	1:00:00	Pumping Starts	8
15/06/2018 12:00:00	15/06/2018 12:30:00	15/06/2018 13:00:00	0:30:00	1:00:00	Pumps Stopped	9
14/06/2018 16:00:00	14/06/2018 16:30:00	14/06/2018 17:00:00	0:30:00	1:00:00	Pumps Stopped	9
14/06/2018 15:00:00	14/06/2018 15:30:00	14/06/2018 16:00:00	0:30:00	1:00:00	Pumps Runs	5
14/06/2018 14:00:00	14/06/2018 14:30:00	14/06/2018 15:00:00	0:30:00	1:00:00	Pumps Runs	5
13/06/2018 14:00:00	13/06/2018 14:30:00	13/06/2018 15:00:00	0:30:00	1:00:00	Pumps 100%	5
12/06/2018 16:00:00	12/06/2018 16:30:00	12/06/2018 17:00:00	0:30:00	1:00:00	Pumping Starts	8
12/06/2018 07:00:00	12/06/2018 07:30:00	12/06/2018 08:00:00	0:30:00	1:00:00	Pumps Stopped	9
11/06/2018 15:00:00	11/06/2018 15:30:00	11/06/2018 16:00:00	0:30:00	1:00:00	Pumps Stopped	9
11/06/2018 14:00:00	11/06/2018 14:30:00	11/06/2018 15:00:00	0:30:00	1:00:00	Pumps Runs	5
11/06/2018 13:00:00	11/06/2018 13:30:00	11/06/2018 14:00:00	0:30:00	1:00:00	Pumps Runs	5
10/06/2018 17:00:00	10/06/2018 17:30:00	10/06/2018 18:00:00	0:30:00	1:00:00	Pumping Starts	8

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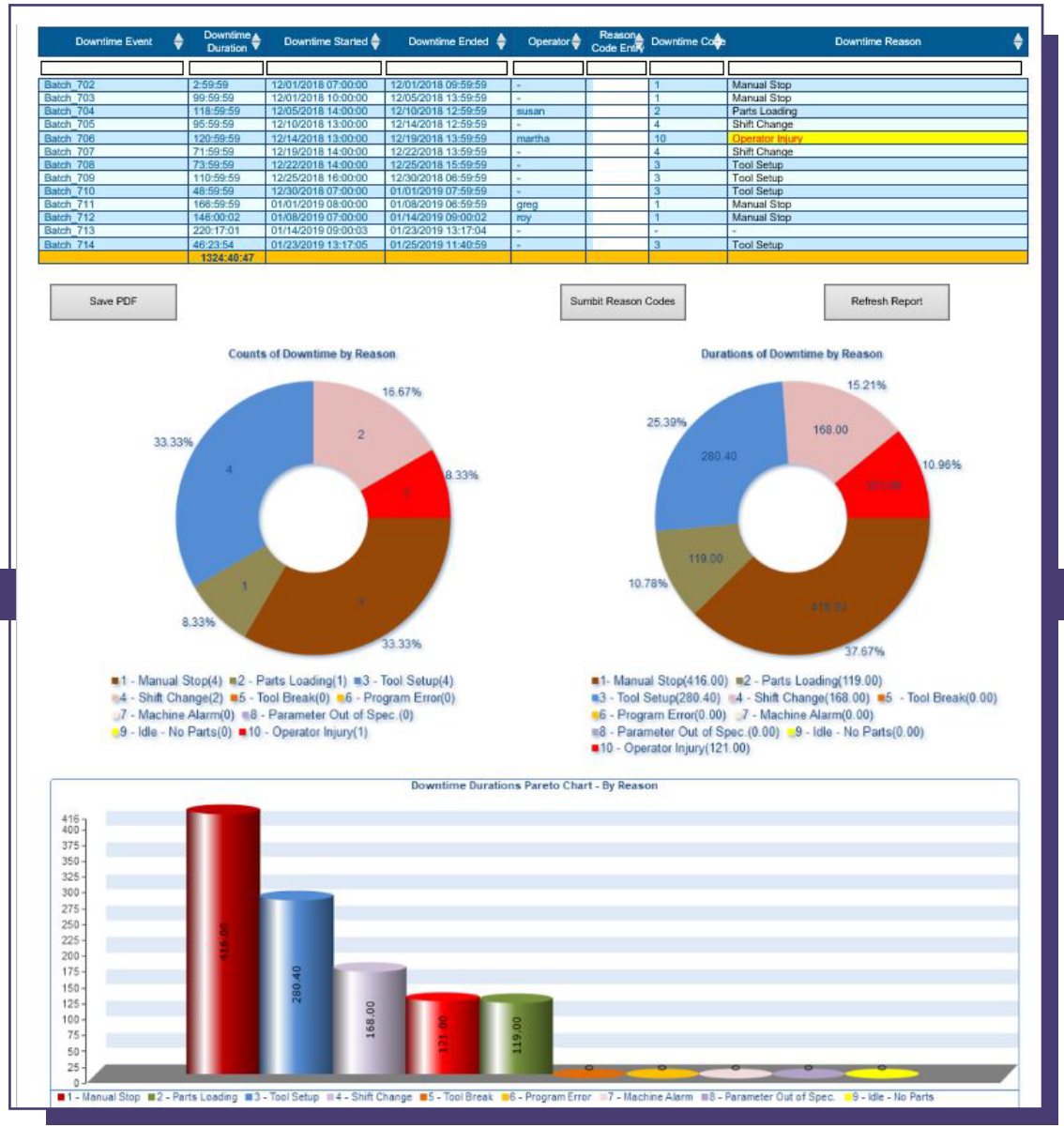
Machine Problem Analysis

Under this feature, IOT device enables you to have a record of the unproductive duration of machine at different batch-es of production in terms of downtime duration, downtime reason and in which batch it occurred at what time.



Downtime Event	Downtime Duration	Downtime Started	Downtime Ended	Operator	Reason Code Entry	Downtime Code	Downtime Reason
Batch_702	2:59:59	12/01/2018 07:00:00	12/01/2018 09:59:59	-		1	Manual Stop
Batch_703	99:59:59	12/01/2018 10:00:00	12/05/2018 13:59:59	-		1	Manual Stop
Batch_704	118:59:59	12/05/2018 14:00:00	12/10/2018 12:59:59	susan		2	Parts Loading
Batch_705	95:59:59	12/10/2018 13:00:00	12/14/2018 12:59:59	-		4	Shift Change
Batch_706	120:59:59	12/14/2018 13:00:00	12/19/2018 13:59:59	martha		10	Operator Injury
Batch_707	71:59:59	12/19/2018 14:00:00	12/22/2018 13:59:59	-		4	Shift Change
Batch_708	73:59:59	12/22/2018 14:00:00	12/25/2018 15:59:59	-		3	Tool Setup
Batch_709	110:59:59	12/25/2018 16:00:00	12/30/2018 06:59:59	-		3	Tool Setup
Batch_710	48:59:59	12/30/2018 07:00:00	01/01/2019 07:59:59	-		3	Tool Setup
Batch_711	166:59:59	01/01/2019 08:00:00	01/08/2019 06:59:59	greg		1	Manual Stop
Batch_712	146:00:02	01/08/2019 07:00:00	01/14/2019 09:00:02	roy		1	Manual Stop
Batch_713	220:17:01	01/14/2019 09:00:03	01/23/2019 13:17:04	-		-	-
Batch_714	46:23:54	01/23/2019 13:17:05	01/25/2019 11:40:59	-		3	Tool Setup
	1324:40:47						

Save PDF | Sumbit Reason Codes | Refresh Report

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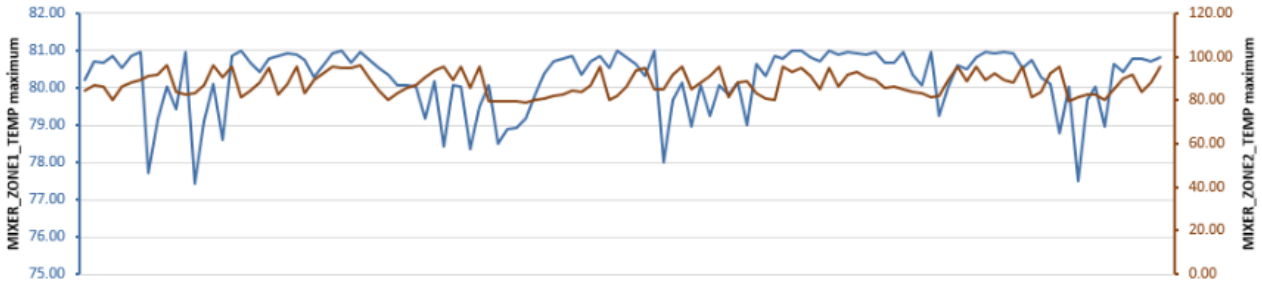
Machine Element Monitoring

Through element monitoring, one can calculate various reasons of downtime in the machine, i.e. manpower, material, technical default, etc. In this way, a solution can be derived for this frequent downtime by focusing on that particular reason of downtime.

Alarms with Process KPIs



Alarms on:	1-Feb-2017		Mixer Zone 1		Mixer Zone 2		Mixer Speed		Mixer Pressure	
Alarms Included:	%		deg F		deg F		RPM		PSI	
DateTime In	DateTime Out	Alarm Tag	max	min	max	min	max	min	max	min
2/1/2017 0:09	2/1/2017 1:53	Process\Tank1Level	80.22	16.00	84.61	75.24	56.59	47.42	61.37	59.00
2/1/2017 0:21	2/1/2017 1:53	Process\Tank1Level	80.72	16.00	86.88	81.01	57.19	48.67	68.00	59.34
2/1/2017 0:23	2/1/2017 1:57	Process\OutletTemp	80.66	16.00	86.11	76.07	61.11	53.95	78.67	64.83
2/1/2017 0:41	2/1/2017 2:09	Process\Tank1Level	80.87	16.00	80.30	74.35	66.45	59.55	64.96	59.01
2/1/2017 0:45	2/1/2017 2:12	Process\Zone1	80.52	16.00	86.12	80.03	72.89	64.62	85.06	72.29
2/1/2017 1:22	2/1/2017 2:12	Process\Zone1	80.86	16.00	87.99	86.14	71.08	62.86	90.71	87.42
2/1/2017 1:30	2/1/2017 2:17	Process\Zone2	80.98	16.00	89.09	87.03	63.36	56.56	69.70	63.77
2/1/2017 1:33	2/1/2017 2:17	Process\Pressure	77.71	75.79	91.01	88.90	59.17	49.23	84.38	78.12
2/1/2017 1:52	2/1/2017 2:20	Process\OutletTemp	79.13	77.85	91.89	89.72	52.20	46.79	84.12	80.44
2/1/2017 1:53	2/1/2017 2:52	Process\Zone2	80.04	16.00	95.80	7.00	52.53	48.46	91.00	90.00
2/1/2017 1:53	2/1/2017 2:58	Process\Tank1Level	79.44	77.17	83.74	43.00	56.07	48.02	91.00	89.64
2/1/2017 1:57	2/1/2017 3:20	Process\Tank1Level	80.98	16.00	82.62	78.57	50.37	45.86	73.14	62.11
2/1/2017 2:09	2/1/2017 3:25	Process\Tank1Level	77.44	52.00	83.24	74.86	57.83	46.71	64.06	59.04
2/1/2017 2:12	2/1/2017 3:25	Process\InletTemp	79.09	76.58	86.75	78.45	62.17	55.54	91.00	87.77
2/1/2017 2:12	2/1/2017 3:29	Process\Tank1Level	80.11	16.00	95.80	7.00	63.27	55.74	91.00	87.48
2/1/2017 2:17	2/1/2017 3:35	Process\Zone1	78.62	75.95	90.80	74.78	74.34	62.23	61.48	59.00
2/1/2017 2:17	2/1/2017 5:02	Process\Zone1	80.86	16.00	95.55	7.00	83.88	8.00	91.00	78.40
2/1/2017 2:20	2/1/2017 5:05	Process\InletTemp	81.01	16.00	81.44	74.10	47.62	29.41	73.84	59.00
2/1/2017 2:52	2/1/2017 5:11	Process\Tank1Level	80.66	16.00	84.73	76.28	52.12	33.80	65.24	59.00
2/1/2017 2:58	2/1/2017 5:21	Process\Tank1Level	80.42	16.00	88.05	82.65	44.18	33.40	69.17	59.00
2/1/2017 3:20	2/1/2017 5:29	Process\Pressure	80.78	16.00	95.12	7.00	41.17	29.07	91.00	80.97
2/1/2017 3:25	2/1/2017 5:29	Process\Tank2Level	80.84	16.00	82.47	74.87	41.42	30.24	80.17	62.46
2/1/2017 3:25	2/1/2017 6:46	Process\BarrelPress	80.94	16.00	87.66	78.72	52.22	30.00	89.18	62.46
2/1/2017 3:29	2/1/2017 6:46	Process\BarrelPress	80.89	16.00	95.24	7.00	63.58	49.61	75.68	59.00
2/1/2017 3:35	2/1/2017 7:37	Process\Tank2Level	80.75	16.00	83.43	75.92	64.59	46.01	80.12	59.00
2/1/2017 5:02	2/1/2017 7:46	Process\Tank1Level	80.30	16.00	89.44	81.99	69.67	54.96	90.38	69.82

NESSCO
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Our Service Support

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We can customize the IOT reports/data according to customer requirement also we can do integration with customer ERP ie. SAP, ORACLE, TCS ion and any other ERP.

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Our Happy Customers

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THANK YOU!

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