

Unnamed Project

Replications: 1 Time Units: Hours

Key Performance Indicators

System	Average
Number Out	90

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Entity

Time				
VA Time	Average	Half Width	Minimum Value	Maximum Value
anode	62.7755	(Insufficient)	54.9874	68.6561
cathode	62.8078	(Insufficient)	52.3235	71.1308
NVA Time	Average	Half Width	Minimum Value	Maximum Value
anode	0.00	(Insufficient)	0.00	0.00
cathode	0.00	(Insufficient)	0.00	0.00
Wait Time	Average	Half Width	Minimum Value	Maximum Value
anode	131.17	(Insufficient)	80.1738	168.82
cathode	131.14	(Insufficient)	83.3917	166.18
Transfer Time	Average	Half Width	Minimum Value	Maximum Value
anode	0.00	(Insufficient)	0.00	0.00
cathode	0.00	(Insufficient)	0.00	0.00
Other Time	Average	Half Width	Minimum Value	Maximum Value
anode	0.00	(Insufficient)	0.00	0.00
cathode	0.00	(Insufficient)	0.00	0.00
Total Time	Average	Half Width	Minimum Value	Maximum Value
anode	193.95	(Insufficient)	136.74	233.75
cathode	193.95	(Insufficient)	136.74	233.75

Other

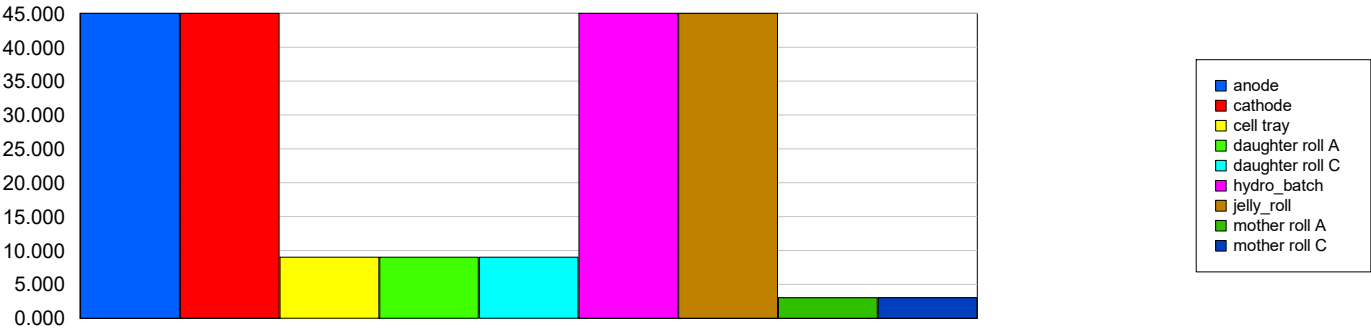
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Replications: 1      Time Units: Hours

Entity

Other

Number In	Value
anode	45.0000
cathode	45.0000
cell tray	9.0000
daughter roll A	9.0000
daughter roll C	9.0000
hydro_batch	45.0000
jelly_roll	45.0000
mother roll A	3.0000
mother roll C	3.0000



Number Out	Value
anode	45.0000
cathode	45.0000
cell tray	9.0000
daughter roll A	9.0000
daughter roll C	9.0000
hydro_batch	45.0000
jelly_roll	45.0000
mother roll A	3.0000
mother roll C	3.0000

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Entity

Other

WIP	Average	Half Width	Minimum Value	Maximum Value
anode	37.3381	(Insufficient)	0.00	45.0000
cathode	37.3381	(Insufficient)	0.00	45.0000
cell tray	1.3117	(Insufficient)	0.00	4.0000
daughter roll A	4.0445	(Insufficient)	0.00	9.0000
daughter roll C	2.1666	(Insufficient)	0.00	9.0000
hydro_batch	0.1861	(Insufficient)	0.00	10.0000
jelly_roll	16.7408	(Insufficient)	0.00	40.0000
mother roll A	1.3482	(Insufficient)	0.00	3.0000
mother roll C	0.7222	(Insufficient)	0.00	3.0000

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## Queue

### Time

Waiting Time	Average	Half Width	Minimum Value	Maximum Value
anode slurry mixing.Queue	11.5724	(Insufficient)	4.4465	19.9259
Batch Daughter Roll C.Queue	0.00	(Insufficient)	0.00	0.00
Batch Daughter Rolls A.Queue	0.00	(Insufficient)	0.00	0.00
Batch Mother Roll A.Queue	0.00	(Insufficient)	0.00	0.00
Batch Mother Roll C.Queue	0.00	(Insufficient)	0.00	0.00
calendaring and cleaning.Queue	0.1104	(Insufficient)	0.00	0.6621
cathode slurry mixing.Queue	2.9769	(Insufficient)	0.00	6.6163
Cell Clamping.Queue	9.4926	(Insufficient)	0.00	23.7902
Cell Tray 1.Queue	4.7652	(Insufficient)	0.00	25.4706
Electrolyte Filling.Queue	14.1712	(Insufficient)	5.6918	25.1049
first coating.Queue	0.03645194	(Insufficient)	0.00	0.2187
first drying.Queue	0.05105496	(Insufficient)	0.00	0.3063
Insertion.Queue	10.1927	(Insufficient)	0.00	23.8837
Match 2.Queue1	0.00	(Insufficient)	0.00	0.00
Match 2.Queue2	0.9794	(Insufficient)	0.5662	1.3693
Sealing.Queue	0.5461	(Insufficient)	0.00	1.8308
second coating.Queue	0.06726416	(Insufficient)	0.00	0.2449
second drying.Queue	0.02223398	(Insufficient)	0.00	0.1334
splitting and cleaning.Queue	0.00	(Insufficient)	0.00	0.00
Vacuum Drying.Queue	41.8522	(Insufficient)	0.00	82.3329
Wait For Anode and Cathode Cell in Winding.Queue1	0.00	(Insufficient)	0.00	0.00
Wait For Anode and Cathode Cell in Winding.Queue2	48.7723	(Insufficient)	40.4127	62.4466
welding.Queue	14.4126	(Insufficient)	0.9712	23.9025
Winding.Queue	3.2843	(Insufficient)	0.00	6.6316

### Other

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## Queue

### Other

Number Waiting	Average	Half Width	Minimum Value	Maximum Value
anode slurry mixing.Queue	0.1485	(Insufficient)	0.00	3.0000
Batch Daughter Roll C.Queue	0.00	(Insufficient)	0.00	5.0000
Batch Daughter Rolls A.Queue	0.00	(Insufficient)	0.00	5.0000
Batch Mother Roll A.Queue	0.00	(Insufficient)	0.00	3.0000
Batch Mother Roll C.Queue	0.00	(Insufficient)	0.00	3.0000
calendaring and cleaning.Queue	0.00283261	(Insufficient)	0.00	1.0000
cathode slurry mixing.Queue	0.03820681	(Insufficient)	0.00	2.0000
Cell Clamping.Queue	0.3655	(Insufficient)	0.00	2.0000
Cell Tray 1.Queue	0.9174	(Insufficient)	0.00	5.0000
Electrolyte Filling.Queue	2.7282	(Insufficient)	0.00	15.0000
first coating.Queue	0.00093568	(Insufficient)	0.00	1.0000
first drying.Queue	0.00131053	(Insufficient)	0.00	1.0000
Insertion.Queue	1.9623	(Insufficient)	0.00	15.0000
Match 2.Queue1	0.00	(Insufficient)	0.00	1.0000
Match 2.Queue2	0.1886	(Insufficient)	0.00	10.0000
Sealing.Queue	0.1051	(Insufficient)	0.00	2.0000
second coating.Queue	0.00172660	(Insufficient)	0.00	1.0000
second drying.Queue	0.00057072	(Insufficient)	0.00	1.0000
splitting and cleaning.Queue	0.00	(Insufficient)	0.00	0.00
Vacuum Drying.Queue	1.0743	(Insufficient)	0.00	4.0000
Wait For Anode and Cathode Cell in Winding.Queue1	0.00	(Insufficient)	0.00	1.0000
Wait For Anode and Cathode Cell in Winding.Queue2	9.3895	(Insufficient)	0.00	30.0000
welding.Queue	2.7747	(Insufficient)	0.00	15.0000
Winding.Queue	0.6323	(Insufficient)	0.00	14.0000

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## Resource

### Usage

#### Instantaneous Utilization

	Average	Half Width	Minimum Value	Maximum Value
calendar rollers	0.02358332	(Insufficient)	0.00	1.0000
dryer	0.05370615	(Insufficient)	0.00	1.0000
heated vacuum chamber	0.5434	(Insufficient)	0.00	1.0000
Human	0.2109	(Insufficient)	0.00	1.0000
Mixer	0.1013	(Insufficient)	0.00	1.0000
Robotic Manipulator	0.5808	(Insufficient)	0.00	1.0000
roller knives	0.02854214	(Insufficient)	0.00	1.0000
slot die coater	0.05141146	(Insufficient)	0.00	1.0000
suction device	0.05212546	(Insufficient)	0.00	1.0000
Winder	0.0901	(Insufficient)	0.00	1.0000

#### Number Busy

	Average	Half Width	Minimum Value	Maximum Value
calendar rollers	0.02358332	(Insufficient)	0.00	1.0000
dryer	0.05370615	(Insufficient)	0.00	1.0000
heated vacuum chamber	0.5434	(Insufficient)	0.00	1.0000
Human	0.2109	(Insufficient)	0.00	1.0000
Mixer	0.1013	(Insufficient)	0.00	1.0000
Robotic Manipulator	0.5808	(Insufficient)	0.00	1.0000
roller knives	0.02854214	(Insufficient)	0.00	1.0000
slot die coater	0.05141146	(Insufficient)	0.00	1.0000
suction device	0.05212546	(Insufficient)	0.00	1.0000
Winder	0.0901	(Insufficient)	0.00	1.0000

#### Number Scheduled

	Average	Half Width	Minimum Value	Maximum Value
calendar rollers	1.0000	(Insufficient)	1.0000	1.0000
dryer	1.0000	(Insufficient)	1.0000	1.0000
heated vacuum chamber	1.0000	(Insufficient)	1.0000	1.0000
Human	1.0000	(Insufficient)	1.0000	1.0000
Mixer	1.0000	(Insufficient)	1.0000	1.0000
Robotic Manipulator	1.0000	(Insufficient)	1.0000	1.0000
roller knives	1.0000	(Insufficient)	1.0000	1.0000
slot die coater	1.0000	(Insufficient)	1.0000	1.0000
suction device	1.0000	(Insufficient)	1.0000	1.0000
Winder	1.0000	(Insufficient)	1.0000	1.0000

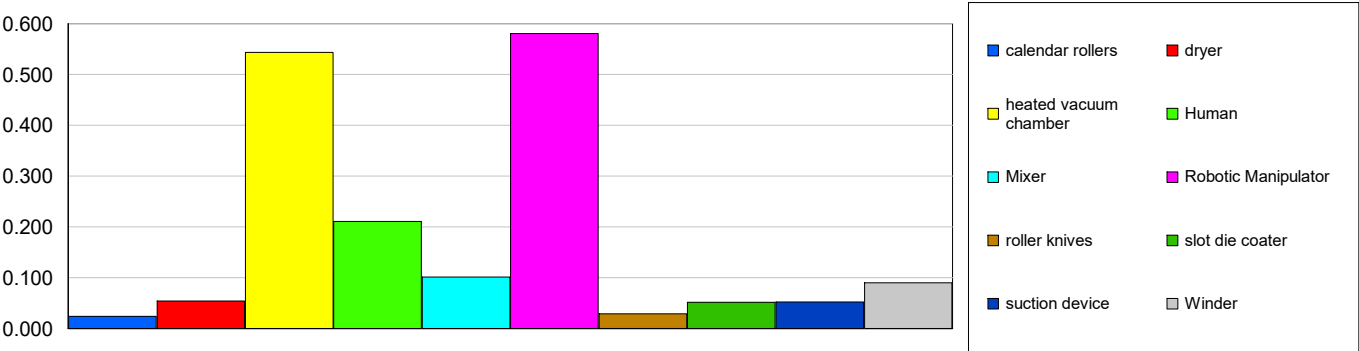
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Resource

Usage

Scheduled Utilization	Value
calendar rollers	0.02358332
dryer	0.05370615
heated vacuum chamber	0.5434
Human	0.2109
Mixer	0.1013
Robotic Manipulator	0.5808
roller knives	0.02854214
slot die coater	0.05141146
suction device	0.05212546
Winder	0.0901





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Resource

Usage

Total Number Seized	Value
calendar rollers	6.0000
dryer	12.0000
heated vacuum chamber	6.0000
Human	45.0000
Mixer	6.0000
Robotic Manipulator	144.00
roller knives	6.0000
slot die coater	12.0000
suction device	12.0000
Winder	45.0000

