Tecnomatix Plant Simulation 2201 Statistics

Created on	domingo, 22 de octubre de 2023 9:29 p. m.
Model name	C:\Users\USER\Desktop\CAMILO\Tecnomatix\planta.spp
Simulation time	15:02:00:00.0000

Resource Statistics - Resource Statistics

Object	Working	Set-up	Waiting	Blocked	Powering up/down	Failed	Stopped	Paused	Unplanned	Portion
Corte_Laser	75.62%	0.00%	0.13%	16.28%	0.00%	7.98%	0.00%	0.00%	0.00%	
Doblado_CNC	73.93%	0.00%	0.36%	17.79%	0.00%	7.92%	0.00%	0.00%	0.00%	
Soldadura	79.38%	0.00%	0.32%	12.37%	0.00%	7.94%	0.00%	0.00%	0.00%	
Ensamblaje	69.74%	0.00%	0.43%	0.07%	0.00%	29.76%	0.00%	0.00%	0.00%	
Empaque	4.36%	0.00%	90.54%	0.09%	0.00%	5.01%	0.00%	0.00%	0.00%	
Conveyor	95.04%	0.00%	0.00%	0.00%	0.00%	4.96%	0.00%	0.00%	0.00%	
Conveyor5	95.12%	0.00%	0.00%	0.00%	0.00%	4.88%	0.00%	0.00%	0.00%	
Drain	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Conveyor6	94.82%	0.00%	0.00%	0.00%	0.00%	5.18%	0.00%	0.00%	0.00%	
Conveyor1	95.20%	0.00%	0.00%	0.00%	0.00%	4.80%	0.00%	0.00%	0.00%	
Conveyor2	95.01%	0.00%	0.00%	0.00%	0.00%	4.99%	0.00%	0.00%	0.00%	
Conveyor4	94.84%	0.00%	0.00%	0.00%	0.00%	5.16%	0.00%	0.00%	0.00%	
Pintura	77.46%	0.00%	0.53%	14.18%	0.00%	7.82%	0.00%	0.00%	0.00%	
Source1	0.00%	0.00%	5.61%	94.39%	0.00%	0.00%	0.00%	0.00%	0.00%	
Buffer	0.00%	0.00%	25.00%	70.35%	0.00%	4.65%	0.00%	0.00%	0.00%	
Conveyor3	95.37%	0.00%	0.00%	0.00%	0.00%	4.63%	0.00%	0.00%	0.00%	
Conveyor7	95.13%	0.00%	0.00%	0.00%	0.00%	4.87%	0.00%	0.00%	0.00%	
Conveyor8	94.92%	0.00%	0.00%	0.00%	0.00%	5.08%	0.00%	0.00%	0.00%	

Portions of the States

Object	Number of Entries	Number of Exits	Minimum Contents	Maximum Contents	Relative Empty	Relative Full	Relative Occupation without Interruptions	Relative Occupation with Interruptions
Corte_Laser	715	714	0	1	0.14%	-	99.86%	99.87%
Doblado_CNC	699	698	0	1	0.39%	-	99.61%	99.61%
Soldadura	664	663	0	1	0.34%	-	99.66%	99.66%
Ensamblaje	632	631	0	1	0.61%	-	99.39%	99.38%
Empaque	631	631	0	1	95.31%	-	4.69%	4.72%
Conveyor	0	0	0	0	100.00%	-	0.00%	0.00%
Conveyor5	722	715	0	7	0.46%	-	97.66%	97.66%
Drain	631	631	0	1	100.00%	-	0.00%	0.00%
Conveyor6	631	631	0	1	99.90%	-	0.02%	0.02%
Conveyor1	631	631	0	1	99.73%	-	0.04%	0.04%
Conveyor2	714	699	0	15	10.46%	-	70.64%	70.55%
Conveyor4	647	632	0	15	0.74%	-	94.30%	94.34%
Pintura	648	647	0	1	0.58%	-	99.42%	99.43%
Source1	723	722	0	1	5.61%	-	94.39%	94.39%
Buffer	693	673	0	20	11.06%	73.78%	80.22%	80.17%
Conveyor3	698	693	0	5	26.49%	-	72.79%	72.75%
Conveyor7	673	664	0	9	1.00%	-	94.45%	94.43%
Conveyor8	663	648	0	15	7.68%	-	83.45%	83.43%

Material Flow Properties

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	75.62%	715	11:09:43:59.4704	22:58.2370	47.1411
Doblado_CNC	73.93%	699	11:03:37:07.0141	22:58.2933	45.1229
Soldadura	79.38%	664	11:23:21:07.8715	25:57.9335	53.2489
Ensamblaje	69.74%	632	10:12:27:08.5961	23:58.0199	49.7782
Empaque	4.36%	631	15:46:30.0000	1:30.0000	0.0000
Conveyor	95.04%	1	14:08:02:41.6898	14:08:02:41.6898	0.0000
Conveyor5	95.12%	1	14:08:19:06.1096	14:08:19:06.1096	0.0000
Drain	0.00%	631	0.0000	0.0000	0.0000
Conveyor6	94.82%	1	14:07:13:49.9947	14:07:13:49.9947	0.0000
Conveyor1	95.20%	1	14:08:37:37.3614	14:08:37:37.3614	0.0000
Conveyor2	95.01%	1	14:07:57:13.1406	14:07:57:13.1406	0.0000
Conveyor4	94.84%	1	14:07:18:22.1065	14:07:18:22.1065	0.0000
Pintura	77.46%	648	11:16:25:08.2377	25:57.8831	53.8879
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	0.00%	0	0.0000	0.0000	0.0000
Conveyor3	95.37%	1	14:09:13:30.6790	14:09:13:30.6790	0.0000
Conveyor7	95.13%	1	14:08:21:14.8851	14:08:21:14.8851	0.0000
Conveyor8	94.92%	1	14:07:36:32.0983	14:07:36:32.0983	0.0000

Working Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.00%	0	0.0000	0.0000	0.0000
Doblado_CNC	0.00%	0	0.0000	0.0000	0.0000
Soldadura	0.00%	0	0.0000	0.0000	0.0000
Ensamblaje	0.00%	0	0.0000	0.0000	0.0000
Empaque	0.00%	0	0.0000	0.0000	0.0000
Conveyor	0.00%	0	0.0000	0.0000	0.0000
Conveyor5	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000
Conveyor6	0.00%	0	0.0000	0.0000	0.0000
Conveyor1	0.00%	0	0.0000	0.0000	0.0000
Conveyor2	0.00%	0	0.0000	0.0000	0.0000
Conveyor4	0.00%	0	0.0000	0.0000	0.0000
Pintura	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	0.00%	0	0.0000	0.0000	0.0000
Conveyor3	0.00%	0	0.0000	0.0000	0.0000
Conveyor7	0.00%	0	0.0000	0.0000	0.0000
Conveyor8	0.00%	0	0.0000	0.0000	0.0000

Set-up Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.13%	38	27:13.5193	42.9873	35.7903
Doblado_CNC	0.36%	56	1:18:38.7580	1:24.2635	2:51.9661
Soldadura	0.32%	35	1:08:36.4643	1:57.6133	7:58.8833
Ensamblaje	0.43%	28	1:33:32.5142	3:20.4469	15:15.3775
Empaque	90.54%	632	13:15:46:04.4339	31:07.0323	6:08.2072
Conveyor	0.00%	0	0.0000	0.0000	0.0000
Conveyor5	0.00%	0	0.0000	0.0000	0.0000
Drain	100.00%	632	15:02:00:00.0000	34:22.0253	6:18.6129
Conveyor6	0.00%	0	0.0000	0.0000	0.0000
Conveyor1	0.00%	0	0.0000	0.0000	0.0000
Conveyor2	0.00%	0	0.0000	0.0000	0.0000
Conveyor4	0.00%	0	0.0000	0.0000	0.0000
Pintura	0.53%	42	1:55:37.5349	2:45.1794	12:03.0993
Source1	5.61%	58	20:18:47.3647	21:00.8166	3:35.5161
Buffer	25.00%	245	3:18:29:29.8154	22:09.6727	6:53.5456
Conveyor3	0.00%	0	0.0000	0.0000	0.0000
Conveyor7	0.00%	0	0.0000	0.0000	0.0000
Conveyor8	0.00%	0	0.0000	0.0000	0.0000

Waiting Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	16.28%	422	2:10:55:58.4288	8:22.7451	4:09.2251
Doblado_CNC	17.79%	464	2:16:24:56.3509	8:19.7766	4:10.4031
Soldadura	12.37%	454	1:20:45:45.8857	5:54.9469	3:33.7443
Ensamblaje	0.07%	21	16:01.5313	45.7872	38.2991
Empaque	0.09%	31	20:11.1973	39.0709	35.8401
Conveyor	0.00%	0	0.0000	0.0000	0.0000
Conveyor5	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000
Conveyor6	0.00%	0	0.0000	0.0000	0.0000
Conveyor1	0.00%	0	0.0000	0.0000	0.0000
Conveyor2	0.00%	0	0.0000	0.0000	0.0000
Conveyor4	0.00%	0	0.0000	0.0000	0.0000
Pintura	14.18%	514	2:03:20:08.7229	5:59.5500	3:47.6465
Source1	94.39%	673	14:05:41:12.6353	30:27.7454	6:15.1401
Buffer	70.35%	471	10:14:40:46.1600	32:26.5948	4:30.3014
Conveyor3	0.00%	0	0.0000	0.0000	0.0000
Conveyor7	0.00%	0	0.0000	0.0000	0.0000
Conveyor8	0.00%	0	0.0000	0.0000	0.0000

Blocked Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.00%	0	0.0000	0.0000	0.0000
Doblado_CNC	0.00%	0	0.0000	0.0000	0.0000
Soldadura	0.00%	0	0.0000	0.0000	0.0000
Ensamblaje	0.00%	0	0.0000	0.0000	0.0000
Empaque	0.00%	0	0.0000	0.0000	0.0000
Conveyor	0.00%	0	0.0000	0.0000	0.0000
Conveyor5	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000
Conveyor6	0.00%	0	0.0000	0.0000	0.0000
Conveyor1	0.00%	0	0.0000	0.0000	0.0000
Conveyor2	0.00%	0	0.0000	0.0000	0.0000
Conveyor4	0.00%	0	0.0000	0.0000	0.0000
Pintura	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	0.00%	0	0.0000	0.0000	0.0000
Conveyor3	0.00%	0	0.0000	0.0000	0.0000
Conveyor7	0.00%	0	0.0000	0.0000	0.0000
Conveyor8	0.00%	0	0.0000	0.0000	0.0000

Powering up/down Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.00%	0	0.0000	0.0000	0.0000
Doblado_CNC	0.00%	0	0.0000	0.0000	0.0000
Soldadura	0.00%	0	0.0000	0.0000	0.0000
Ensamblaje	0.00%	0	0.0000	0.0000	0.0000
Empaque	0.00%	0	0.0000	0.0000	0.0000
Conveyor	0.00%	0	0.0000	0.0000	0.0000
Conveyor5	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000
Conveyor6	0.00%	0	0.0000	0.0000	0.0000
Conveyor1	0.00%	0	0.0000	0.0000	0.0000
Conveyor2	0.00%	0	0.0000	0.0000	0.0000
Conveyor4	0.00%	0	0.0000	0.0000	0.0000
Pintura	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	0.00%	0	0.0000	0.0000	0.0000
Conveyor3	0.00%	0	0.0000	0.0000	0.0000
Conveyor7	0.00%	0	0.0000	0.0000	0.0000
Conveyor8	0.00%	0	0.0000	0.0000	0.0000

Stopped Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	7.98%	1713	1:04:52:48.5816	1:00.6939	41.9995
Doblado_CNC	7.92%	1692	1:04:39:17.8770	1:00.9680	41.7025
Soldadura	7.94%	1766	1:04:44:29.7785	58.5899	42.4883
Ensamblaje	29.76%	6453	4:11:43:17.3584	1:00.0957	42.5495
Empaque	5.01%	1085	18:07:14.3688	1:00.1238	44.7313
Conveyor	4.96%	1041	17:57:18.3102	1:02.0925	42.3026
Conveyor5	4.88%	1060	17:40:53.8904	1:00.0508	43.5778
Drain	0.00%	0	0.0000	0.0000	0.0000
Conveyor6	5.18%	1102	18:46:10.0053	1:01.3158	43.2192
Conveyor1	4.80%	1081	17:22:22.6386	57.8563	41.0916
Conveyor2	4.99%	1085	18:02:46.8594	59.8773	42.8474
Conveyor4	5.16%	1095	18:41:37.8935	1:01.4593	43.3355
Pintura	7.82%	1701	1:04:19:05.5045	59.9327	42.9167
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	4.65%	1069	16:49:44.0246	56.6735	40.5442
Conveyor3	4.63%	1056	16:46:29.3210	57.1869	40.5314
Conveyor7	4.87%	1061	17:38:45.1149	59.8729	40.2233
Conveyor8	5.08%	1095	18:23:27.9017	1:00.4638	42.4464

Failed Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.00%	0	0.0000	0.0000	0.0000
Doblado_CNC	0.00%	0	0.0000	0.0000	0.0000
Soldadura	0.00%	0	0.0000	0.0000	0.0000
Ensamblaje	0.00%	0	0.0000	0.0000	0.0000
Empaque	0.00%	0	0.0000	0.0000	0.0000
Conveyor	0.00%	0	0.0000	0.0000	0.0000
Conveyor5	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000
Conveyor6	0.00%	0	0.0000	0.0000	0.0000
Conveyor1	0.00%	0	0.0000	0.0000	0.0000
Conveyor2	0.00%	0	0.0000	0.0000	0.0000
Conveyor4	0.00%	0	0.0000	0.0000	0.0000
Pintura	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	0.00%	0	0.0000	0.0000	0.0000
Conveyor3	0.00%	0	0.0000	0.0000	0.0000
Conveyor7	0.00%	0	0.0000	0.0000	0.0000
Conveyor8	0.00%	0	0.0000	0.0000	0.0000

Paused Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.13%	38	27:13.5193	42.9873	35.7903
Doblado_CNC	0.36%	56	1:18:38.7580	1:24.2635	2:51.9661
Soldadura	0.32%	35	1:08:36.4643	1:57.6133	7:58.8833
Ensamblaje	0.43%	28	1:33:32.5142	3:20.4469	15:15.3775
Empaque	90.54%	632	13:15:46:04.4339	31:07.0323	6:08.2072
Conveyor	95.04%	1	14:08:02:41.6898	14:08:02:41.6898	0.0000
Conveyor5	0.44%	9	1:34:55.7111	10:32.8568	6:46.9754
Drain	100.00%	632	15:02:00:00.0000	34:22.0253	6:18.6129
Conveyor6	94.72%	632	14:06:52:47.9947	32:33.1139	6:05.9706
Conveyor1	94.94%	632	14:07:41:56.2142	32:37.7788	6:00.8624
Conveyor2	9.94%	149	1:11:58:59.3415	14:29.3916	6:52.6617
Conveyor4	0.70%	4	2:32:15.1099	38:03.7775	42:50.1912
Pintura	0.53%	42	1:55:37.5349	2:45.1794	12:03.0993
Source1	5.61%	58	20:18:47.3647	21:00.8166	3:35.5161
Buffer	10.55%	98	1:14:11:08.5282	23:22.7401	4:38.7192
Conveyor3	25.27%	230	3:19:27:50.7912	23:51.6121	2:58.0060
Conveyor7	0.95%	11	3:26:50.0607	18:48.1873	13:02.3786
Conveyor8	7.29%	97	1:02:23:32.3688	16:19.5090	9:38.0277

Empty Time

Resource Statistics - Drain Statistics

Object	Working	Set-up	Waiting	Stopped	Failed	Paused	Mean Life Time	Mean Exit Time	Total Throughput	Throughput per Hour	Throughput per Day
Drain	5.05%	0.00%	89.59%	0.00%	5.36%	0.00%	1:16:57:27.2062	34:14.0409	631	1.7430939	41.834254

Cumulated Statistics of the Parts which the Drain Deleted

Object	All Types	Part
Drain	631	631

Part Types which the Drain Deleted

Drain	Production							Transport							Storage					
	Working	Set-up	Waiting	Stopped	Failed	Paused	Sum	Working	Set-up	Waiting	Stopped	Failed	Paused	Sum	Working	Set-up	Waiting	Stopped	Failed	Paused	Sum
Part	5.03%	0.00%	1.87%	0.00%	0.82%	0.00%	7.72%	0.02%	0.00%	68.45%	0.00%	3.61%	0.00%	72.09%	0.00%	0.00%	19.26%	0.00%	0.93%	0.00%	20.19%

Detailed Statistics of the Part Types which the Drain Deleted

Drain	Life Time				Exit Time				Throughput		
	Mean Value	Standard Deviation	Minimum	Maximum	Mean Value	Standard Deviation	Minimum	Maximum	Total	Per Hour	Per Day
Part	1:16:57:27.2062	15:30:30.6253	2:31:00.6551	2:05:50:02.6071	34:14.0409	4:04.3535	24:40.0316	46:54.2250	631	1.7430939	41.834254

Service Statistics - Importer Statistics

Object	Total Delay	Reason for the Delay		
		Waiting for Services and Parts	Waiting for Parts	Waiting for Set-up Exporters
Corte_Laser	0.00%	0.00%	0.00%	0.00%
Doblado_CNC	0.00%	0.00%	0.00%	0.00%
Soldadura	0.00%	0.00%	0.00%	0.00%
Ensamblaje	0.00%	0.00%	0.00%	0.00%
Empaque	0.00%	0.00%	0.00%	0.00%
Pintura	0.00%	0.00%	0.00%	0.00%
Source1	0.00%	0.00%	0.00%	0.00%
Buffer	0.00%	0.00%	0.00%	0.00%

Importers Waiting for Services and Parts

Object	Waiting for Services and Parts	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.00%	0	0.0000	0.0000	0.0000
Doblado_CNC	0.00%	0	0.0000	0.0000	0.0000
Soldadura	0.00%	0	0.0000	0.0000	0.0000
Ensamblaje	0.00%	0	0.0000	0.0000	0.0000
Empaque	0.00%	0	0.0000	0.0000	0.0000
Pintura	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	0.00%	0	0.0000	0.0000	0.0000

Waiting Times for Services and Parts

Object	Waiting for Parts	Count	Sum	Mean Value	Standard Deviation
Corte_Laser	0.00%	0	0.0000	0.0000	0.0000
Doblado_CNC	0.00%	0	0.0000	0.0000	0.0000
Soldadura	0.00%	0	0.0000	0.0000	0.0000
Ensamblaje	0.00%	0	0.0000	0.0000	0.0000
Empaque	0.00%	0	0.0000	0.0000	0.0000
Pintura	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Buffer	0.00%	0	0.0000	0.0000	0.0000

Waiting Times for Parts

Object	Waiting for Set-up Exporters	Count	Sum	Mean Value	Standard Deviation	Waiting Time while the Resource Waited	Waiting Time while the Resource Worked	Waiting Time while the Resource was Blocked
Corte_Laser	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Doblado_CNC	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Soldadura	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Ensamblaje	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Empaque	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Pintura	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Source1	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Buffer	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%

Waiting Times for Set-up Exporters