Tecnomatix Plant Simulation 2302 Statistics

Created on	martes, 28 de mayo de 2024 8:57
Model name	D:\OneDrive - Universidad Nacional de Colombia\Documentos\U\APM\Proyecto de Curso\Simulaciones\LayoutAuto.spp
Simulation time	366:00:00:00.0000

Resource Statistics - Resource Statistics

Object	Working	Set-up	Waiting	Blocked	Powering up/down	Failed	Stopped	Paused	Unplanned	Portion
Source	0.00%	0.00%	67.61%	32.39%	0.00%	0.00%	0.00%	0.00%	0.00%	
Source1	0.00%	0.00%	67.61%	32.39%	0.00%	0.00%	0.00%	0.00%	0.00%	
Source2	0.00%	0.00%	67.61%	32.39%	0.00%	0.00%	0.00%	0.00%	0.00%	
Prensa	1.78%	0.00%	84.18%	4.28%	0.00%	9.77%	0.00%	0.00%	0.00%	
Secadora	73.80%	0.00%	7.23%	8.24%	0.00%	10.73%	0.00%	0.00%	0.00%	
EsmaltadoBase	8.00%	0.00%	37.34%	50.14%	0.00%	4.52%	0.00%	0.00%	0.00%	
Impresora	3.33%	0.00%	36.07%	30.64%	0.00%	29.96%	0.00%	0.00%	0.00%	
EsmaltadoAcabado	7.99%	0.00%	57.26%	30.22%	0.00%	4.52%	0.00%	0.00%	0.00%	
Relieve	3.17%	0.00%	63.29%	3.13%	0.00%	30.41%	0.00%	0.00%	0.00%	
Horno	49.90%	0.00%	36.19%	4.41%	0.00%	9.50%	0.00%	0.00%	0.00%	
Pulido	3.32%	0.00%	71.10%	5.98%	0.00%	19.60%	0.00%	0.00%	0.00%	
Ensamble1	5.02%	0.00%	90.73%	0.00%	0.00%	4.25%	0.00%	0.00%	0.00%	
Ensamble2	5.02%	0.00%	89.69%	0.00%	0.00%	5.28%	0.00%	0.00%	0.00%	
Ensamble3	5.02%	0.00%	88.91%	0.00%	0.00%	6.06%	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%	

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
Source	351219	351218	0	1	67.61%	-	32.39%	32.39%
Source1	351219	351218	0	1	67.61%	-	32.39%	32.39%
Source2	351219	351218	0	1	67.61%	-	32.39%	32.39%
Prensa	1053654	1053652	0	3	68.76%	-	20.05%	20.14%
Secadora	1053639	1053500	0	1500	5.16%	-	34.53%	34.12%
EsmaltadoBase	1053500	1053500	0	16	37.88%	-	59.18%	59.28%
Impresora	1053500	1053500	0	1	51.50%	-	48.50%	48.02%
EsmaltadoAcabado	1053500	1053500	0	16	59.15%	-	37.69%	37.54%
Relieve	351360	351360	0	4	90.91%	-	6.79%	7.24%
Horno	1053500	1053500	0	1200	33.84%	-	25.69%	25.79%
Pulido	350780	350780	0	4	88.33%	-	10.86%	10.81%
Ensamble1	58464	58463	0	1	0.02%	-	99.98%	99.98%
Ensamble2	58561	58560	0	1	0.02%	-	99.98%	99.98%
Ensamble3	58561	58560	0	1	0.02%	-	99.98%	99.98%
Drain	175583	175583	0	1	100.00%	-	0.00%	0.00%

Material Flow Properties

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	1.78%	351218	6:12:05:48.8000	1.6000	0.0000
Secadora	73.80%	368	270:02:58:54.1873	17:37:00.4733	1:00:41:15.6969
EsmaltadoBase	8.00%	1053144	29:06:17:40.7738	2.4007	0.1048
Impresora	3.33%	1053500	12:04:38:20.0000	1.0000	0.0000
EsmaltadoAcabado	7.99%	1052732	29:06:15:10.1178	2.4015	0.1901
Relieve	3.17%	46024	11:14:46:50.4026	21.8062	2:43.2976
Horno	49.90%	1072	182:15:27:34.9486	4:05:20.5736	3:35:58.9173
Pulido	3.32%	335931	12:03:34:26.3391	3.1246	3.5362
Ensamble1	5.02%	58463	18:08:35:01.1900	27.1300	0.0000
Ensamble2	5.02%	58560	18:09:18:52.8000	27.1300	0.0000
Ensamble3	5.02%	58560	18:09:18:52.8000	27.1300	0.0000
Drain	0.00%	175583	0.0000	0.0000	0.0000

Working Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	0.00%	0	0.0000	0.0000	0.0000
Secadora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoBase	0.00%	0	0.0000	0.0000	0.0000
Impresora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoAcabado	0.00%	0	0.0000	0.0000	0.0000
Relieve	0.00%	0	0.0000	0.0000	0.0000
Horno	0.00%	0	0.0000	0.0000	0.0000
Pulido	0.00%	0	0.0000	0.0000	0.0000
Ensamble1	0.00%	0	0.0000	0.0000	0.0000
Ensamble2	0.00%	0	0.0000	0.0000	0.0000
Ensamble3	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000

Set-up Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	67.61%	237740	247:10:26:04.2360	1:29.9233	2.1302
Source1	67.61%	237740	247:10:26:04.2360	1:29.9233	2.1302
Source2	67.61%	237740	247:10:26:04.2360	1:29.9233	2.1302
Prensa	84.18%	351218	308:02:08:18.6098	1:15.7902	9:37.9938
Secadora	7.23%	145	26:10:47:57.9793	4:22:40.5378	3:42:13.5109
EsmaltadoBase	37.34%	321186	136:16:09:19.4809	36.7655	9:35.1438
Impresora	36.07%	299708	132:00:33:30.4260	38.0597	8:29.8503
EsmaltadoAcabado	57.26%	385428	209:13:52:16.4439	46.9803	12:34.5467
Relieve	63.29%	23748	231:15:05:17.3901	14:02.7117	1:35:44.3207
Horno	36.19%	1003	132:10:33:45.4416	3:10:08.5996	3:15:24.7542
Pulido	71.10%	75491	260:05:39:27.0200	4:57.8417	1:06:19.3848
Ensamble1	90.73%	58464	332:01:57:57.5771	8:10.7615	1:31:44.7582
Ensamble2	89.69%	58561	328:06:37:18.3401	8:04.3332	1:25:15.4607
Ensamble3	88.91%	58561	325:09:56:51.8174	8:00.1115	1:28:08.3580
Drain	100.00%	175584	366:00:00:00.0000	3:00.0984	32:04.4542

Waiting Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	32.39%	113893	118:13:33:55.7640	1:29.9444	24:51.3162
Source1	32.39%	113893	118:13:33:55.7640	1:29.9444	24:51.3162
Source2	32.39%	113893	118:13:33:55.7640	1:29.9444	24:51.3162
Prensa	4.28%	113825	15:15:50:11.0353	11.8868	8:01.8179
Secadora	8.24%	223	30:03:32:23.4518	3:14:40.4639	3:32:16.5802
EsmaltadoBase	50.14%	732870	183:12:15:24.7226	21.6346	11:18.2166
Impresora	30.64%	755226	112:03:07:01.6874	12.8280	7:15.8577
EsmaltadoAcabado	30.22%	668379	110:14:44:25.6802	14.2989	9:45.0395
Relieve	3.13%	22339	11:11:14:07.8360	44.3551	14:33.0890
Horno	4.41%	70	16:03:45:12.9996	5:32:21.6143	6:22:19.8877
Pulido	5.98%	261051	21:21:20:10.6252	7.2446	5:35.8642
Ensamble1	0.00%	0	0.0000	0.0000	0.0000
Ensamble2	0.00%	0	0.0000	0.0000	0.0000
Ensamble3	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000

Blocked Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	0.00%	0	0.0000	0.0000	0.0000
Secadora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoBase	0.00%	0	0.0000	0.0000	0.0000
Impresora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoAcabado	0.00%	0	0.0000	0.0000	0.0000
Relieve	0.00%	0	0.0000	0.0000	0.0000
Horno	0.00%	0	0.0000	0.0000	0.0000
Pulido	0.00%	0	0.0000	0.0000	0.0000
Ensamble1	0.00%	0	0.0000	0.0000	0.0000
Ensamble2	0.00%	0	0.0000	0.0000	0.0000
Ensamble3	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000

Powering up/down Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	0.00%	0	0.0000	0.0000	0.0000
Secadora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoBase	0.00%	0	0.0000	0.0000	0.0000
Impresora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoAcabado	0.00%	0	0.0000	0.0000	0.0000
Relieve	0.00%	0	0.0000	0.0000	0.0000
Horno	0.00%	0	0.0000	0.0000	0.0000
Pulido	0.00%	0	0.0000	0.0000	0.0000
Ensamble1	0.00%	0	0.0000	0.0000	0.0000
Ensamble2	0.00%	0	0.0000	0.0000	0.0000
Ensamble3	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000

Stopped Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	9.77%	166	35:17:55:41.5549	5:10:05.6720	3:44:09.7518
Secadora	10.73%	195	39:06:40:44.3816	4:50:03.3045	3:20:26.0849
EsmaltadoBase	4.52%	137	16:13:17:35.0227	2:53:59.8177	1:51:09.7333
Impresora	29.96%	1063	109:15:41:07.8866	2:28:32.5756	1:44:44.7752
EsmaltadoAcabado	4.52%	130	16:13:08:07.7581	3:03:17.5981	2:13:23.7297
Relieve	30.41%	427	111:06:53:44.3713	6:15:18.0899	4:14:49.4169
Horno	9.50%	280	34:18:13:26.6102	2:58:45.7379	2:11:27.9085
Pulido	19.60%	423	71:17:25:56.0157	4:04:10.4870	2:58:54.7612
Ensamble1	4.25%	44	15:13:27:01.2329	8:29:15.0280	6:03:14.1702
Ensamble2	5.28%	48	19:08:03:48.8599	9:40:04.7679	8:10:21.8359
Ensamble3	6.06%	54	22:04:44:15.3826	9:51:55.8404	7:39:23.0926
Drain	0.00%	0	0.0000	0.0000	0.0000

Failed Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	0.00%	0	0.0000	0.0000	0.0000
Secadora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoBase	0.00%	0	0.0000	0.0000	0.0000
Impresora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoAcabado	0.00%	0	0.0000	0.0000	0.0000
Relieve	0.00%	0	0.0000	0.0000	0.0000
Horno	0.00%	0	0.0000	0.0000	0.0000
Pulido	0.00%	0	0.0000	0.0000	0.0000
Ensamble1	0.00%	0	0.0000	0.0000	0.0000
Ensamble2	0.00%	0	0.0000	0.0000	0.0000
Ensamble3	0.00%	0	0.0000	0.0000	0.0000
Drain	0.00%	0	0.0000	0.0000	0.0000

Paused Time

Object	Portion	Count	Sum	Mean Value	Standard Deviation
Source	67.61%	237740	247:10:26:04.2360	1:29.9233	2.1302
Source1	67.61%	237740	247:10:26:04.2360	1:29.9233	2.1302
Source2	67.61%	237740	247:10:26:04.2360	1:29.9233	2.1302
Prensa	62.05%	237434	227:02:11:17.6327	1:22.6363	2.1278
Secadora	4.61%	100	16:20:56:07.8146	4:02:57.6781	3:28:40.8858
EsmaltadoBase	36.17%	301805	132:08:49:49.1796	37.8940	9:48.9375
Impresora	36.07%	299708	132:00:33:30.4260	38.0597	8:29.8503
EsmaltadoAcabado	56.47%	350497	206:16:29:13.4321	50.9498	13:07.5459
Relieve	63.27%	23707	231:13:30:06.2763	14:03.9282	1:35:48.6793
Horno	30.63%	849	112:02:21:11.3849	3:10:07.8579	3:19:33.3402
Pulido	71.02%	72443	259:22:13:09.9033	5:10.0036	1:07:40.1581
Ensamble1	0.02%	1	1:39:00.0000	1:39:00.0000	0.0000
Ensamble2	0.02%	1	1:39:00.0000	1:39:00.0000	0.0000
Ensamble3	0.02%	3	1:42:35.9312	34:11.9771	57:51.1336
Drain	100.00%	175584	366:00:00:00.0000	3:00.0984	32:04.4542

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	3.01%	0.00%	93.87%	0.00%	3.11%	0.00%	14:59.9738	3:00.0507	175583	19.988957	479.73497

Cumulated Statistics of the Parts which the Drain Deleted

Object	All Types	Caja
Drain	175583	175583

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
Caja	3.01%	0.00%	93.87%	0.00%	3.11%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

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
Caja	14:59.9738	1:55:17.5279	42.7456	2:13:04:03.4172	3:00.0507	32:04.4043	4.1548	1:12:50:17.0854	175583	19.988957	479.73497

Service Statistics - Importer Statistics

Object	Total Delay	Reason for the Delay		
		Waiting for Services and Parts	Waiting for Parts	Waiting for Set-up Exporters
Source	0.00%	0.00%	0.00%	0.00%
Source1	0.00%	0.00%	0.00%	0.00%
Source2	0.00%	0.00%	0.00%	0.00%
Prensa	0.00%	0.00%	0.00%	0.00%
Secadora	0.00%	0.00%	0.00%	0.00%
EsmaltadoBase	0.00%	0.00%	0.00%	0.00%
Impresora	0.00%	0.00%	0.00%	0.00%
EsmaltadoAcabado	0.00%	0.00%	0.00%	0.00%
Relieve	0.00%	0.00%	0.00%	0.00%
Horno	0.00%	0.00%	0.00%	0.00%
Pulido	0.00%	0.00%	0.00%	0.00%
Ensamble1	90.71%	90.71%	90.71%	0.00%
Ensamble2	89.67%	89.67%	89.67%	0.00%
Ensamble3	88.89%	88.89%	88.89%	0.00%
Drain	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
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	0.00%	0	0.0000	0.0000	0.0000
Secadora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoBase	0.00%	0	0.0000	0.0000	0.0000
Impresora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoAcabado	0.00%	0	0.0000	0.0000	0.0000
Relieve	0.00%	0	0.0000	0.0000	0.0000
Horno	0.00%	0	0.0000	0.0000	0.0000
Pulido	0.00%	0	0.0000	0.0000	0.0000
Ensamble1	90.71%	58464	332:00:18:57.5771	8:10.6599	1:31:43.6463
Ensamble2	89.67%	58561	328:04:58:18.3401	8:04.2318	1:25:14.5993
Ensamble3	88.89%	58561	325:08:14:15.8862	8:00.0064	1:28:08.3078
Drain	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
Source	0.00%	0	0.0000	0.0000	0.0000
Source1	0.00%	0	0.0000	0.0000	0.0000
Source2	0.00%	0	0.0000	0.0000	0.0000
Prensa	0.00%	0	0.0000	0.0000	0.0000
Secadora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoBase	0.00%	0	0.0000	0.0000	0.0000
Impresora	0.00%	0	0.0000	0.0000	0.0000
EsmaltadoAcabado	0.00%	0	0.0000	0.0000	0.0000
Relieve	0.00%	0	0.0000	0.0000	0.0000
Horno	0.00%	0	0.0000	0.0000	0.0000
Pulido	0.00%	0	0.0000	0.0000	0.0000
Ensamble1	90.71%	58464	332:00:18:57.5771	8:10.6599	1:31:43.6463
Ensamble2	89.67%	58561	328:04:58:18.3401	8:04.2318	1:25:14.5993
Ensamble3	88.89%	58561	325:08:14:15.8862	8:00.0064	1:28:08.3078
Drain	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
Source	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%
Source2	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Prensa	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Secadora	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
EsmaltadoBase	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Impresora	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
EsmaltadoAcabado	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Relieve	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Horno	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Pulido	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Ensamble1	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Ensamble2	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Ensamble3	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%
Drain	0.00%	0	0.0000	0.0000	0.0000	0.00%	0.00%	0.00%

Waiting Times for Set-up Exporters