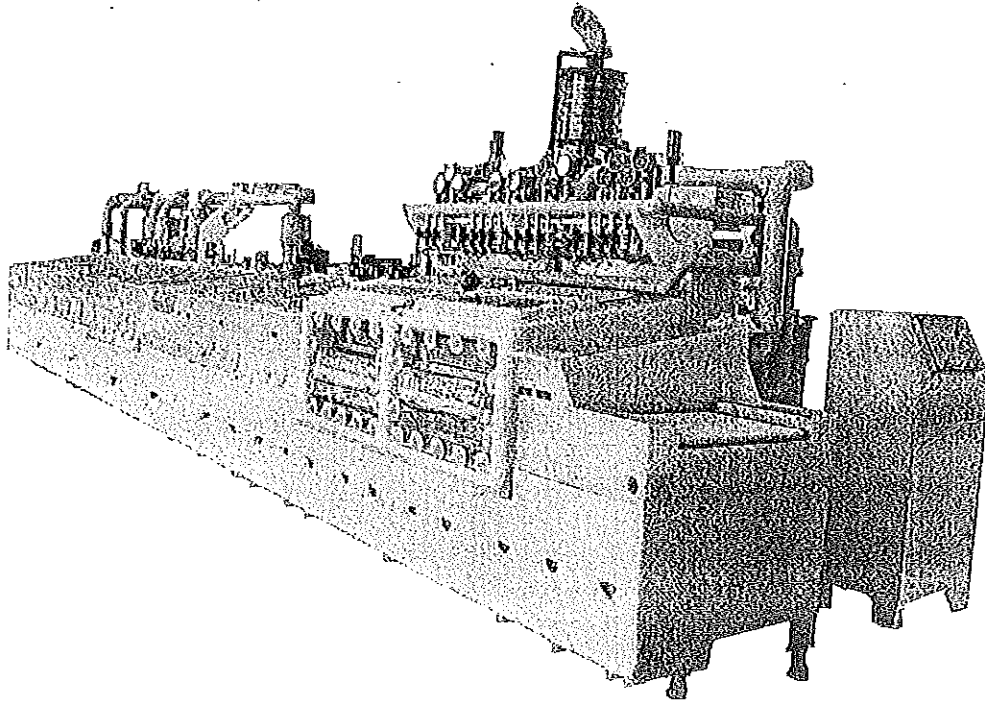


OPERATION GUIDE

G0802



KUTTLER
AUTOMATION SYSTEMS

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11.4 MODULE VOLUME

Pos.	Module	Description	Module L (mm)	Volume (L)	Remark
1	1	Input	650	~	
2	2	Etching	2200	700	
3	3	Intermittent	800	~	
4	4-1	3 Stage Cascade Rinse	1050	63	
	4-2			81	
	4-3			72	
5	5	Blow off	300	~	
6	6	Inspection	1000	~	
7	7	Stripping	1900	650	
8	8	Post strip	600	106	
9	9-1	3 Stage Cascade Rinse	1050	63	
	9-2			81	
	9-3			72	
10	10	Anti Tarnish	600	106	
11	11	2 Stage Cascade Rinse	750	67	
12	12	Dryer	1250	~	
13	13	Output	650	~	

11.2 LINE SPECIFICATION

Line Process

Pos.	Description	Module L (mm)	Process L (mm)	Process T (Sec.)	Temp. (°C)	Material
1	Input	650				PP / TI
2	Etching	2200	1918	115.08	50°C	PP / TI
3	Intermittent	800	468	28.08		PP / TI
4	3 stage cascade rinse	1050	3 x 168	3 x 10.08	RT	PP / TI
5	Blow off	300				PP / TI
6	Inspection	1000				PP / TI
7	Stripping	1900	1618	97.08	50-55°C	PP / SS
8	Post-Strip	600			30°C	PP / SS
9	3 stage cascade rinse	1050	3 x 168	3 x 10.08	RT	PP / SS
10	Anti tarnish	600	318	19.08	RT	PP / SS
11	2 stage cascade rinse	750	2 x 168	2 x 10.08	RT	PP / SS
12	Dryer	1250			60-80°C	PP / SS
13	Output	650				PP / SS
Total:		12800				

Technical Data

Pos.	Description	Water L/Hr.	City Water L/Hr.	DI water L/Hr.	Exhaust m3/h	Comp. Air Nm3/h	Power kW
1	Input				150		0.9
2	Etching		1300		150		38.36
3	Intermittent				150		0
4	3 stage cascade rinse	200					6.15
5	Blow off				300		3.45
6	Inspection						0.9
7	Stripping		500		120	78	30.8
8	Post-Strip		200		120		4.25
9	3 stage cascade rinse	250					2.7
10	Anti tarnish		200		120		4.25
11	2 stage cascade rinse			200			4.35
12	Dryer				1200		19.15
13	Output						0.9
Total:		450	2200	200	2310	81	119