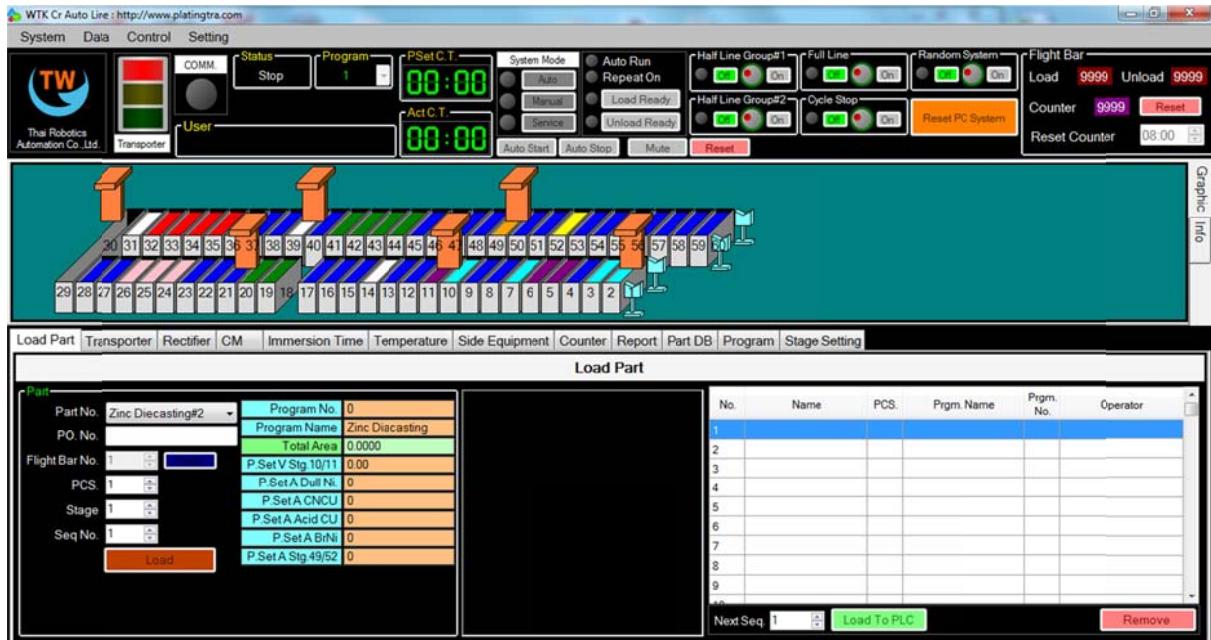




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Standard function of MOS software

1. MAIN OPERATION SCREEN



FUNCTION

- Machine mode select (AUTO/MANUAL/SERVICE).
- Machine status (Transporter alarm, Side equipment alarm, Actual cycle time, Flight bar count, Machine communication).
- Operation TAP, Loading TAP use to load part information to machine (The parts information customer can design what information needed).

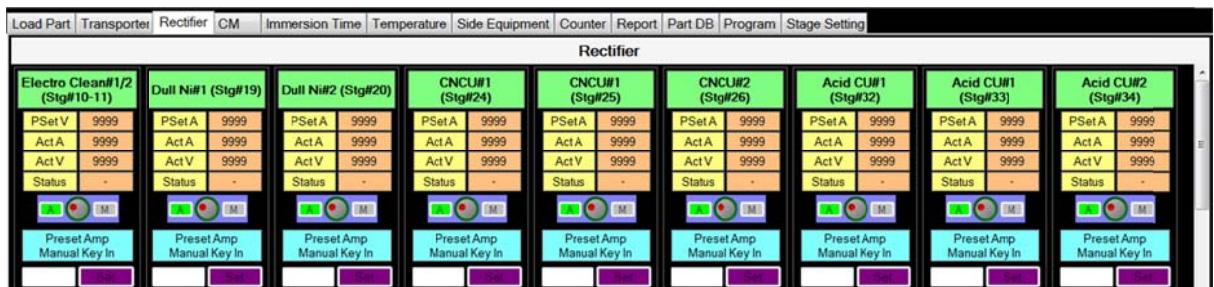
2. TRANSPORTER CONTROL



FUNCTION

- A. This screen use for control transporter and monitor transporter status.
 - 1. Address of transporter.
 - 2. Destination of transporter.
 - 3. Step running of transporter.
 - 4. Push bottom for control transporter.
 - 5. Fault alarm and Fault code.

3. RECTIFIER



FUNCTION

- A. This screen use for monitor rectifier value and control rectifier.
 - 1. Monitor Preset Amp/Volte.
 - 2. Monitor Actual Amp/Volte.
 - 3. Switch Manual/Auto Mode.
 - 4. Fault code.
 - 5. Direct preset value key in.



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4. CHEMICAL MAINTENANCE

Load Part	Transporter	Rectifier	CM	Immersion Time	Temperature	Side Equipment	Counter	Report	Part DB	Program	Stage Setting
Chemical Maintanance											
Dull Ni#1 (Stg#19)			Preset Dosing Amp Hour	Actual Dosing Amp Hour	Acc. Amp Hour	Preset Dosing Time	Actual Dosing Time	Control			
Dull Ni#2 (Stg#20)			9999	Set	9999	99999999	Reset	9999	Set	9999	On (M)
CNCU#1 (Stg#24-25)			9999	Set	9999	99999999	Reset	9999	Set	9999	On (M)
CNCU#2 (Stg#26)			9999	Set	9999	99999999	Reset	9999	Set	9999	On (M)
Acid CU#1 (Stg#32-33)			9999	Set	9999	99999999	Reset	9999	Set	9999	On (M)
Acid CU#2 (Stg#34-35)			9999	Set	9999	99999999	Reset	9999	Set	9999	On (M)
BrNi#1 (Stg#41-42)			9999	Set	9999	99999999	Reset	9999	Set	9999	On (M)

Dosing Pump											
Run LL			Run LL			Run LL			Run LL		
Dull Ni#1 (Stg#19)	Run	LL	CNCU#1 (Stg#24-25)	Run	LL	Acid CU#1 (Stg#32-33)	Run	LL	BrNi#1 (Stg#41-42)	Run	LL
Dull Ni#2 (Stg#20)	Run	LL	CNCU#2 (Stg#26)	Run	LL	Acid CU#2 (Stg#34-35)	Run	LL	BrNi#2 (Stg#43-44)	Run	LL
			CNCU#3 (Stg#24-25)	Run	LL	Acid CU#3 (Stg#32-33)	Run	LL	BrNi#3 (Stg#41-42)	Run	LL

FUNCTION

- A. This screen use for control Auto dosing pump for maintenance chemical in each tank.
 - 1. Preset amp hour for plating tank chemical maintenance.
 - 2. Preset bar count or production area for other chemical tank.
 - 3. Preset dosing time for control dosing pump.
 - 4. Dosing status.
 - 5. Switch for control Dosing pump Auto/Manual.
 - 6. Level of chemical storage chemical tank.

5. IMMERSION TIME

Load Part	Transporter	Rectifier	CM	Immersion Time	Temperature	Side Equipment	Counter	Report	Part DB	Program	Stage Setting
Actual Immersion Time (Sec.)											
Load (Stg#1)	99.99	Soak Clean#1 (Stg#2)	99.99	Soak Clean#1 (Stg#3)	99.99	CW Rinse (Stg#4)	99.99	Soak Clean#2 (Stg#5)	99.99		
Soak Clean#2 (Stg#6)	99.99	Ultrasonic (Stg#7)	99.99	CW Rinse (Stg#6)	99.99	CW Rinse (Stg#9)	99.99	Electro Clean#1 (Stg#10)	99.99		
Electro Clean#2 (Stg#11)	99.99	CW Rinse (Stg#12)	99.99	CW Rinse (Stg#13)	99.99	Conc Acid (Stg#14)	99.99	Conc Acid Drag Out(Stg#15)	99.99		
CW Rinse (Stg#16)	99.99	CW Rinse (Stg#17)	99.99	- (Stg#18)	99.99	Dull Ni#1 (Stg#19)	99.99	Dull Ni#2 (Stg#20)	99.99		
Dull Ni Drag Out (Stg#21)	99.99	CW Rinse (Stg#22)	99.99	CW Rinse (Stg#23)	99.99	CNCU#1 (Stg#24)	99.99	CNCU#1 (Stg#25)	99.99		
CNCU#2 (Stg#26)	99.99	CNCU Drag Out (Stg#27)	99.99	CW Rinse (Stg#28)	99.99	Shuttle#1 (Stg#29)	99.99	Shuttle#2 (Stg#30)	99.99		
Acid Dip#1 (Stg#31)	99.99	Acid CU#1 (Stg#32)	99.99	Acid CU#1 (Stg#33)	99.99	Acid CU#2 (Stg#34)	99.99	Acid CU#2 (Stg#35)	99.99		
Acid CU Drag Out (Stg#36)	99.99	CW Rinse (Stg#37)	99.99	CW Rinse (Stg#38)	99.99	Acid Dip#2 (Stg#39)	99.99	CW Rinse (Stg#40)	99.99		
BrNi#1 (Stg#41)	99.99	BrNi#1 (Stg#42)	99.99	BrNi#2 (Stg#43)	99.99	BrNi#2 (Stg#44)	99.99	BrNi Drag Out (Stg#45)	99.99		

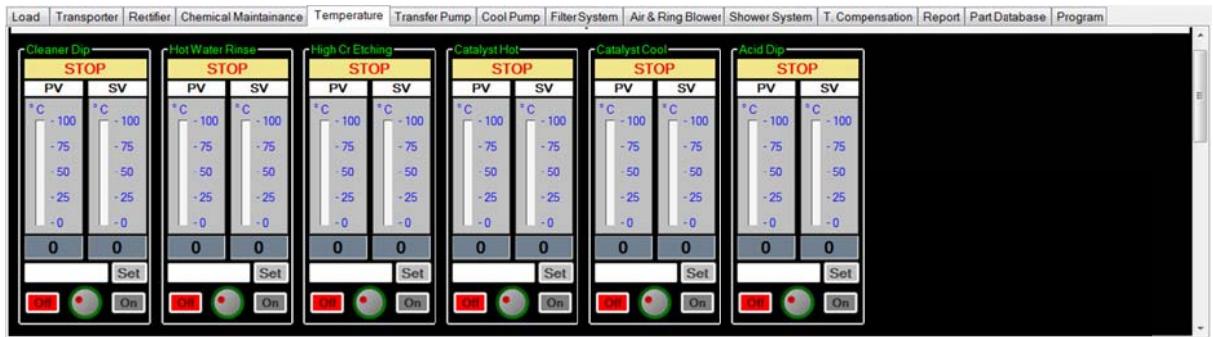
FUNCTION

This screen show the actual immersion of each tank during it have product in tank.



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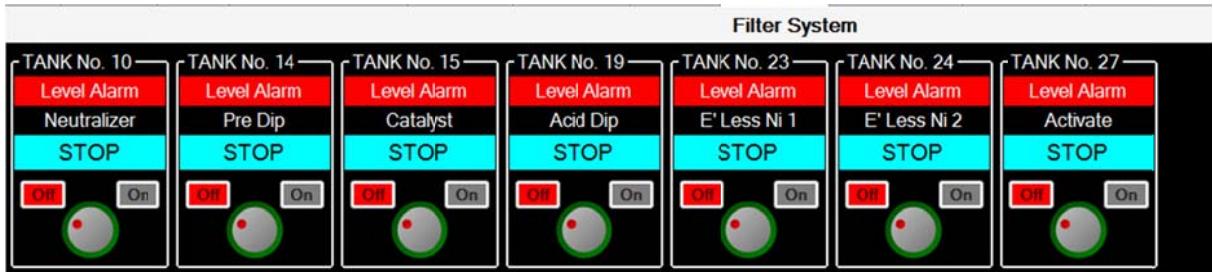
6. TEMPERATURE



FUNCTION

- This screen use for control temperature.
- Monitor Preset Temp./Actual Temp.
- Key in Preset Temp.
- Switch On/Of Temperature control.

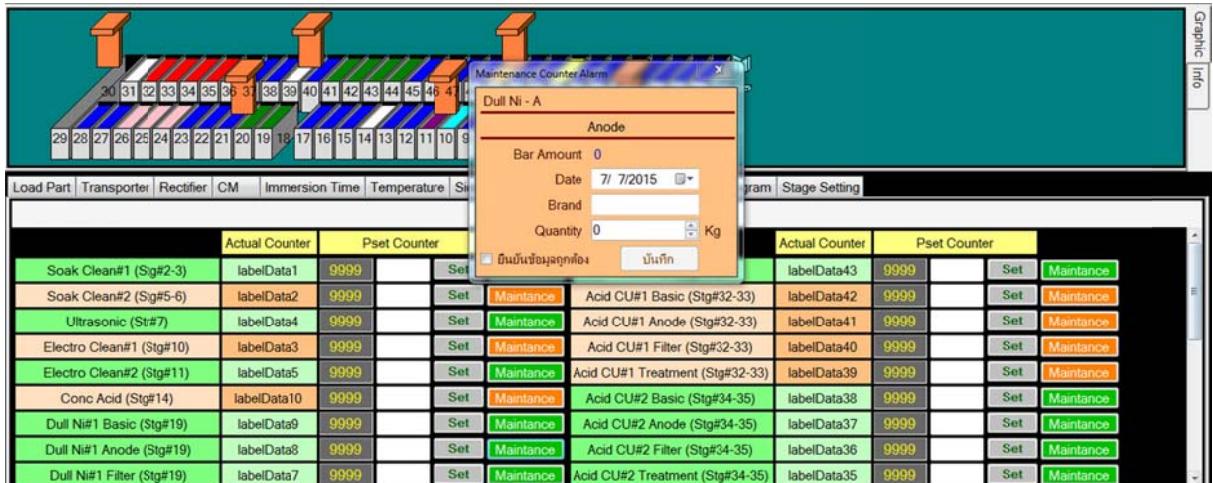
7. SIDE EQUIPMENT



TANK No.	Flow	TANK No.	Transfer Pump
6	Water Rinse - R1	5	H-Cr Etching
7	Water Rinse - R2	6	Water Rinse - R1
16	Water Rinse - R3	15	Catalyst
38	Water Rinse - R4	37	Semi Bright Ni
40	Water Rinse - R5	39	Sulfer Ni
42	Water Rinse - R6	41	Bright Ni

- A. This Screen use for control side equipment (Filter pump, Circulation pump, Air blower, Weekly timer).

8. COUNTER FOR PRODUCTION MAINTENANCE



FUNCTION

- A. This screen use for production to maintenance machine such as.
1. Change filter cartridge.
 2. Refill anode ball.
 3. Refill chemical.
 4. Print the request consumptions material.

9. REPORT



- A. This screen contents the production report. It will report machine condition during product pass each of process tank such as Actual temperature, actual amp-hour, plating tank.
- B. The sale report, this screen customer can see the sale price and production cost for each parts and it will show out profit.
- C. Maintenance report, this report record the production maintenance report it will show out the consumption of material.
- D. All report auto save in data base.



10. PART DATA BASE

Part's Information		Parts Database	
Part No.		Zinc Diecasting#2	
Part Name			
Program	ZincDiecasting	Area	0.0000
Pset VStg 10/11	0		
ASD DullNi	0.00	ASD Br-Ni	0.00
ASD CNCU	0.00	ASD CR-6	0.00
ASD Acid CU	0.00	CM	0
Cost	0.00	Sell Price	0.00
<input type="button" value="Delete"/> <input type="button" value="Clear"/> <input type="button" value="Add"/> <input type="button" value="Save"/>		<input type="button" value="Edit"/>	

FUNCTION

- A. This screen use for set up parts data for production running such as Current density, Part picture, Program to run this part.

11. PROCESS SETTING

Program								
Process Name	Zinc Diacasting	Process No	1	New	Save	Save As	Delete	
Seq	Tank No.	Tank Name	MIN (Min)	MIN (Sec)	MAX (Min)	MAX (Sec)	Priority	Drain Time
1	1	Load Station	2	0	4	0	0	0
2	5.6	Soak Clean 2 (Zn)	10	0	12	0	1	0
3	7	Ultrasonic (Zn)	3	0	5	0	1	0
4	8	CW Rinse	0	1	0	5	0	0
5	9	CW Rinse	0	1	0	5	0	0
6	10	Electro Clean (Zn)	1	0	2	0	1	0
7	12	CW Rinse	0	1	0	5	0	0
8	13	CW Clean	0	0	0	0	0	0
0	1 (Load (Stg1))		0	0	0	0	0 (Lo	0
<input type="button" value="Remove"/> <input type="button" value="Insert"/> <input type="button" value="Edit"/> <input type="button" value="Add"/>								

FUNCTION

- A. This screen only for “RANDOM LOADING SYSTEM”. It use for setting up process sequence, Immersion time for each tank, drain time and Priority.



12. TANK ENABLE/DISABLE



FUNCTION

- A. This screen use for setting to use or no use of each tank.