

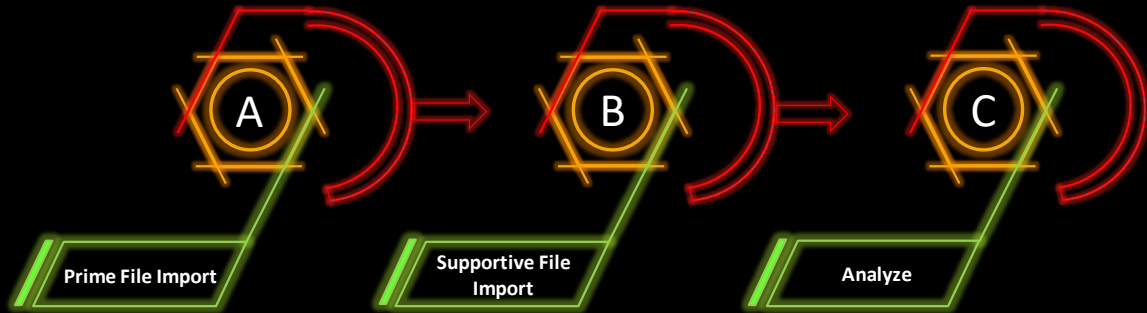
La Analitica

for diffusion process

(User Manual)

Drafted & Designed By
Kharanshu Parekh

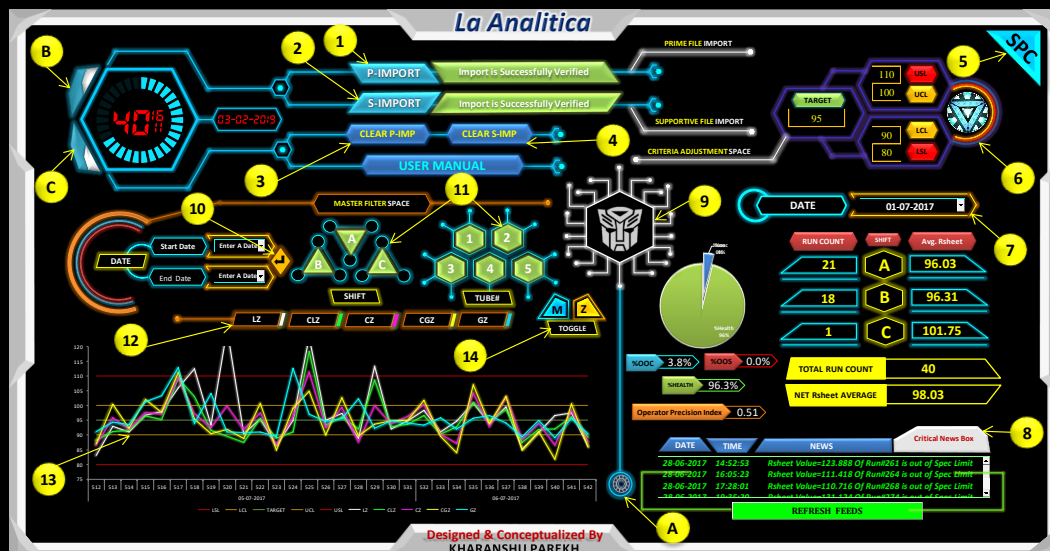
TIMELINE



FEATURES



OVERVIEW



Designed & Conceptualized By
KHARANSHU PAREKH

- 1 **P-IMPORT Button**
Helps to import Prime data File which contains Rsheet Data.
- 2 **S-IMPORT Button**
Helps to import Supportive data File which contains Tube# record.
- 3 **CLEAR P-IMP Button**
Helps to Clear Prime Import so that user can Import another file.
- 4 **CLEAR S-IMP Button**
Helps to Clear Supportive Import so that user can Import another file.
- 5 **SPC Generator Button**
Helps to Generate SPC in excel format for further analysis.
- 6 **Criteria Adjustment Button**
Helps to adjust Upper and Lower limit criteria.
- 7 **Day Data Analyzer**
Helps to indicate Approx. count and Avg. Rsheet Day/Shift wise with %OOC and %OOS per Day.
- 8 **Critical News Box Space**
Helps user to inform about out of Spec. Run with Pop-Up and Log.
- 9 **Autoboat Analyzer Button**
Helps to analyze and update graph corresponding to Import files.

- 10 **Date Duration Filter Button**
Helps user to filter Rsheet Data between Two Dates.
- 11 **Shift/Tube# Selection Button**
Helps to select appropriate Shift /Tube# for micro Analysis
- 12 **Zones Selection Switches**
Helps to select different Zones for Zone wise Rsheet Analysis.
- 13 **Rsheet Graph**
Helps to Indicate Current Trend and performance of process.
- 14 **Toggle Switch**
Helps user to switch between Avg. Rsheet trend & Zone wise Rsheet Trend.
- A **Zoom IN/OUT Button**
Helps user to sneak IN & sneak OUT of Rsheet Grap.
- B **Clock Play Button**
Helps to active Ticking of Digital Clock.
- C **Clock Pause Button**
Helps to inactive Ticking of Digital Clock.

A

Prime File Import

1.1

Click P-IMPORT Button
Shown Below.

1.2

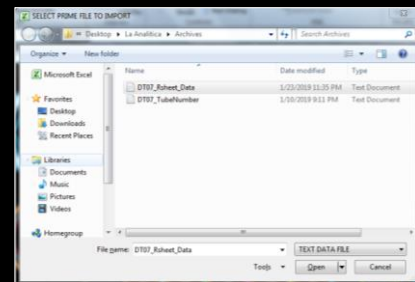
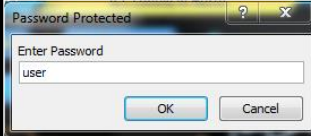
Enter Password in
Input Box

1.3

Select Text File To Import from
Dialogue Box

P-IMPORT

It's Lonely in Here!

GoTo Next
Step

P-IMPORT

Import is Successfully Verified

If the file Is Valid

Upon Selection of Text file

1.4

Re-Import a
Valid File

P-IMPORT

Import/Verification Aborted

If the file Is Invalid

B

Supportive File Import



PRECAUTION

PLEASE ENSURE TO COMPLETE STEP-1 BEFORE PROCEEDING FURTHER

2.1

Click S-IMPORT Button
Shown Below.

2.2

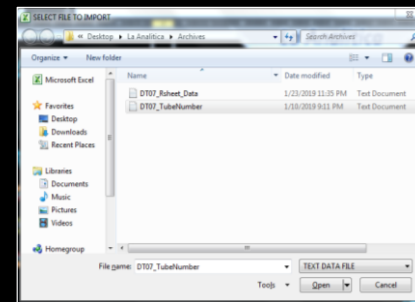
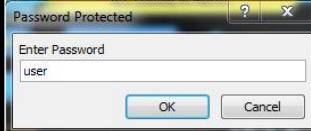
Enter Password in
Input Box

2.3

Select Text File To Import from
Dialogue Box

S-IMPORT

It's Lonely in Here!

GoTo Next
Step

S-IMPORT

Import is Successfully Verified

If the file Is Valid

Upon Selection of Text file

2.4

Re-Import a
Valid File

S-IMPORT

Import/Verification Aborted

If the file Is Invalid



Analyze



PRECAUTION

PLEASE ENSURE TO COMPLETE STEP-1&2 BEFORE PROCEEDING FURTHER

Upon Completion of Import,
Click this icon to **Analyze** as
well as **Update Data**.

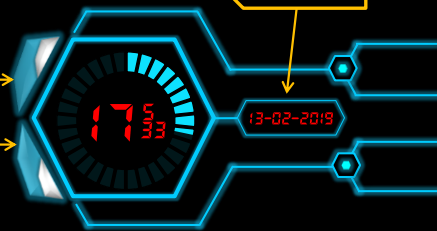


1

Digital Clock

Clock Play
Button

Clock Pause
Button



Current Date
Indicator

This feature helps user to record time of last Data Updation

Zoom IN/OUT Button

2



Zoom
IN/OUT

This Button is
acting as
Toggle Switch

This feature helps user to visualized Enlarge View of Rsheet Graph

3

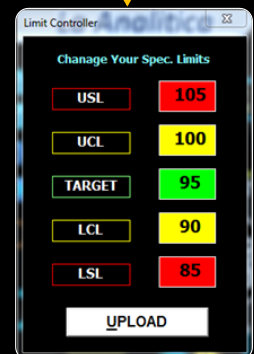
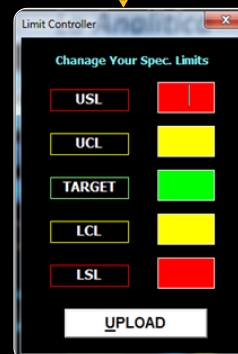
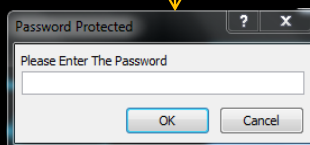
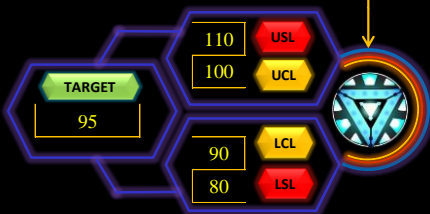
Criteria Adjustment Space

Click the Button shown below to enable
Criteria Adjustment Pop-Up box.

Please Enter the
Appropriate Password

Pop-Up will appear

Change Your
Specification limits
and Click UPLOAD



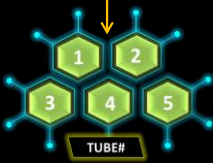
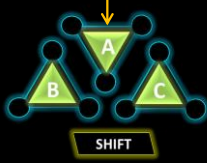
CAUTION

ALL VALUES OF SPECIFICATION
LIMITS IN LIMIT CONTROLLER FIELD
ARE **MANDATORY**

This feature helps user to Change Specification Limits of Process

5

Shift/Tube# Selection Switch

Select/Deselct Shifts
as per yourSelect/Deselct Tube# as
per your requirement

These Buttons
are acting as
Toggle Switch.
Multiple
Selection is
also Available.

This feature helps user to filter data Shift/Tube# wise

Date Duration Filter

4

Select Start & End date
and press below Button

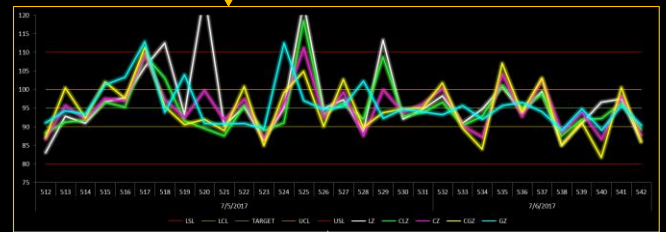
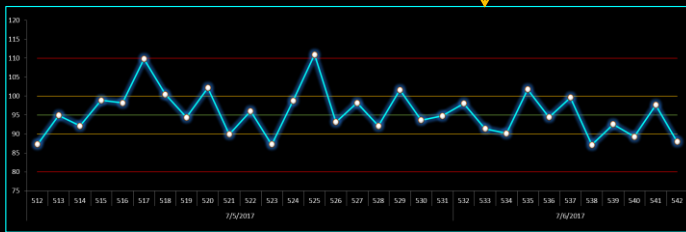
CAUTION

END DATE
SHOULD BE
GREATER THAN
OR EQUAL TO
START DATE

This feature helps user to filter Rsheet trend between Two Dates

6

Toggle Switch

Indicates Average
Rsheet TrendIndicates Zone wise
Rsheet Trend

Toggle switch for zone selection to compare Rsheet
trend within Zones



All Zone indication
Buttons are acting as
Toggle Switch.
Colour of each Zone is
unique and easy to
identify.
Multiple Selection is also
Available.

This feature helps user to switch between Avg. Rsheet trend & Zone wise Rsheet Trend

7

Critical News Box

Date of
occurrenceTime of
occurrenceNews
Discription

DATE	TIME	NEWS
28-06-2017	14:52:53	Rsheet Value=123.888 Of Run#261 is out of Spec Limit
28-06-2017	16:05:23	Rsheet Value=111.418 Of Run#264 is out of Spec Limit
28-06-2017	17:28:01	Rsheet Value=110.716 Of Run#268 is out of Spec Limit
28-06-2017	19:35:20	Rsheet Value=131.124 Of Run#274 is out of Spec Limit

REFRESH FEEDS

This Button
helps user to
update news
item to
analyze

Indication of critical alarms
are informed through
Pop-Up Message during
Data Update.

This feature helps user to alert about Out Of Spec. value of Rsheet

Operator Precision Index Indicator

8

Operator Precision Index 0.51

0.51 Indicates that Operator is only 51% precise in
pressing New Batch Button after each Run

Methodology

- Operators has to press **New Batch Button** on Semi-Lab Software Screen upon completion of Rsheet measurement of every Run so that Average Rsheet displayed on the screen is average of 10 sample.

- **Ideally** One Demarcation should be present in **11 readings** of a particular Run.

X= Number of Demarcation Y= Total Number of data F= Factor of Freedom
F= 10% of { Y/11}

$$\text{Operator Precision Index} = \left(\frac{(Y/11) + F}{X} \right)$$

This feature helps user to identify Precision of Operator working at Diffusion Machine

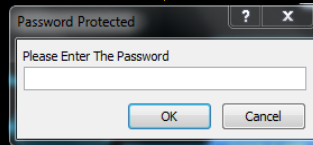
9

SPC Generator

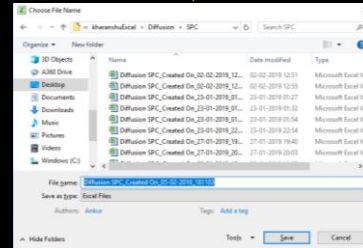
Press below Icon situated at the top right corner of La Analitica



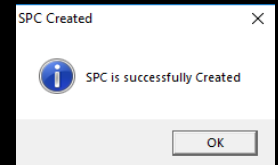
Please Enter the Appropriate Password



Choose the desired File Name and File Path



Wait till Completion Message Pops-up.

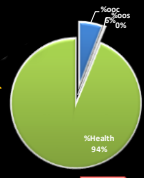


Helps user to Generate SPC in excel format for further analysis.

10

Day data Analyzer

Pie-Chart to indicate %OOS,%OOC and %Health



Percentage Representation of Out Of Control Data (%OOC)

%OOC 5.8%

%OOS 0.4%

Percentage Representation of Healthy Data (%Health)

%HEALTH 93.8%

Percentage Representation of Out Of Specification Data (%OOS)

%OOS 0.4%

Date Picker

DATE

03-07-2017

RUN COUNT	SHIFT	Avg. Rsheet
11	A	94.65
13	B	92.31
2	C	94.51

Shift wise Average Rsheet Data and Run Count

TOTAL RUN COUNT 26

NET Rsheet AVERAGE 93.82

Total Run Count and Net Rsheet Average per Day

Helps to indicate approx. count and Avg.Rsheet Day/Shift wise with %OOC and %OOS per Day

Thank You