

## AMS Osram - Spikes Casting Dispensing Machine – ICC

Date: R0, 20Mar2025

### Introduction

The core principle of ICC is to dispense randomly selected units for an initial test, analyse the results, and adjust the dispensing volume for the remaining units to achieve the desired test outcome.

In **Pass 1**, a predefined set of units from the Panel is dispensed with an initial volume. The Panel is then tested, and the ICC Server processes the test data to compute the necessary volume adjustments.

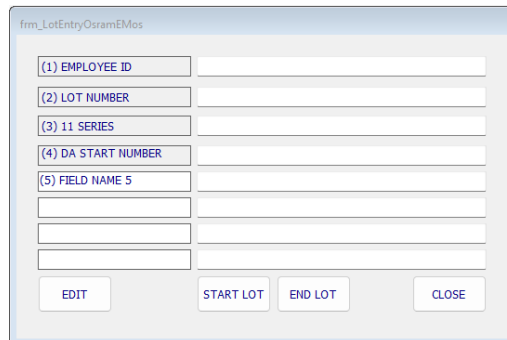
In **Pass 2**, the remaining units are dispensed using the newly determined volume to optimize the test results.

### Definitions

<b>Input File</b>	Input file in xml format to retrieve from <b>Input Folder</b> to obtain initial volume. The file sample as in Appendix.
<b>Output File</b>	Output file in text file format located in <b>Output Folder</b> to retrieve new volume. The file sample as in Appendix.
<b>Input Folder</b>	Configurable Directory The location to retrieve <b>Input File</b> .
<b>Output Folder</b>	Configurable Directory The location to retrieve <b>Output File</b> .
<b>Tile ID</b>	The ID for the tile, scanned or manual entry by <b>READ_ID</b> command.
<b>Pass 1 Tile ID list</b>	A collection of <b>Tile IDs</b> stored locally that has been dispense as Pass 1.
<b>Pass 2 Tile ID list</b>	A collection of <b>Tile IDs</b> stored locally that has been dispense as Pass 2.

### Lot Entry

User Interface to enter Lot Data. The first 4 fields, **EMPLOYEE ID**, **LOT NUMBER**, **11 SERIES** and **DA START NUMBER** are compulsory while 4 fields are user definable.



Field	Desription	Usage
<b>EMPLOYEE ID</b>	Enter Employee ID	Record purposes only.
<b>LOT NUMBER</b>	Lot Number on traveller	Filename of <b>Output File</b> .
<b>11 SERIES</b>	11 Series on traveller	Used to Auto Load Device. Filename of <b>Input File</b> .

<b>DA START NUMBER</b>	DA Start Number on traveller	Filename of <b>Input File</b> .
<b>Field5</b> (optional)	User configurable field.	Record purposes only.
<b>Field6</b> (optional)	User configurable field.	Record purposes only.
<b>Field7</b> (optional)	User configurable field.	Record purposes only.
<b>Field8</b> (optional)	User configurable field.	Record purposes only.

#### Run Condition – No Lot Entry

1. The initial volume will be based on the Z\_PATH volume setting.
2. No Input File or Output File checking required.

#### Run Condition – Lot Entry

Process/Condition	Description
Lot Entry.	Select <b>Lot Entry</b> . Scan in lot information. Select <b>Start Lot</b> . <i>Recipe name of {11 SERIES} will be automatically loaded.</i>
If Recipe load fail.	Prompt error "Recipe not found or load fail". <i>User needs to manually dispose the tile.</i>
Load magazine.	Load magazine.
Start operation.	Select <b>Start</b> .

#### Run Tile

Process/Condition	Description
Tile loading.	Load tile to <b>Pro Station</b> .
	Scan <b>Tile ID</b> .
	Cross check local <b>Pass 2 Tile ID list</b> . If Tile ID exist,
Pass 2 Tile ID exists	Prompt error "Tile ID has completed Pass 2". <i>User needs to manually dispose the tile.</i>
Pass 2 Tile ID do not exist.	Cross check local <b>Pass 1 Tile ID list</b> .
Pass 1 Tile ID exists	Goto <b>Run Pass 2</b> .
Pass 1 Tile ID do not exist.	Goto <b>Run Pass 1</b> .

#### Run Pass 1

Process/Condition	Description
<b>Input File</b> check.	Check for <b>Input File</b> .
<b>Input File</b> do not exist.	Prompt error "Input File is not found." <i>User needs to manually dispose the tile.</i>
<b>Input File</b> exist.	Retrieve <b>Input File</b> . Decode the initial volume by element <i>InitialDispenserSetting="0.8"</i> . Update the volume as <b>Current Dispense Volume</b> .
Unit selection.	Select PreMap 1. <i>PreMap 1 is the selected Pass 1 units to be dispensed.</i>
Dispense.	Run dispense.
Complete.	Unload tile.

#### Run Pass 2

Process/Condition	Description
<b>Output File</b> check.	Check for <b>Output File</b> .

<b>Output File</b> do not exist.	Prompt error "Output File is not found." <i>User needs to manually dispose the tile.</i>
<b>Output File</b> exist.	Retrieve <b>Output File</b> . Check for <b>TileID</b> .
<b>TileID</b> do not exist.	Prompt error "TileID is not found." <i>User needs to manually dispose the tile.</i>
<b>TileID</b> exist. Update new volume.	Decode the new volume of <b>TileID</b> . Update the new volume as <b>Current Dispense Volume</b> . <i>If multiple similar <b>TileID</b> exist, the last <b>TileID</b> of the list will be applied.</i>
Unit selection.	Select PreMap 2. <i>PreMap 2 is the selected Pass 2 units to be dispensed.</i>
Dispense.	Run dispense.
Complete.	Unload tile.

## Appendix

### Sample Input File

**Filename:** {Input Folder}\{11 SERIES}\_{DA START NUMBER}\_\_.xml

**Note:**

- underscore between {11 SERIES} and {DA START NUMBER}
- ends with 2 underscores.

**Example:** {Input Folder}\11108864\_L15NSWDL4GWCSSRM3.PMN4P1A535K2M2700\_\_.xml

### Example content:



```
<SteeringSettings xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.osram-os.com/steering/config"
  ProductName="Demon Poseidon BREE 3000K">
  <LogFileLocation>\\int.osram-light.com\Net-klm\!Apps\Casting\OSLONSquare\LLC_LogFiles\</LogFileLocation>
  <PanelSize RowMax="28" ColMax="28"/>
  <TargetSettings InitialDispenserSetting="0.8" ColorSpace="CIE2DegreeCxCy" TargetCxCyDistance="0.4" TargetPathAngle="22"> </TargetSettings>
  <ControllerSettings ControllerModule="ComixBasedController" PathLengthOffset="0.01" FloatingLength="2">
    <Converters>
      <Converter Name="QL905" InitialWeightPercent="3" Group="1" AllowVariation="true"/>
      <Converter Name="QL904" InitialWeightPercent="3" Group="1" AllowVariation="true"/>
      <Converter Name="L167" InitialWeightPercent="3" Group="2" AllowVariation="true"/>
    </Converters>
  </ControllerSettings>
</SteeringSettings>
```

```
<SteeringSettings xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.osram-
os.com/steering/config" ProductName="Demon Poseidon BREE 3000K">
  <LogFileLocation>\\int.osram-light.com\Net-klm\!Apps\Casting\OSLONSquare\LLC_LogFiles\</LogFileLocation>
  <PanelSize RowMax="28" ColMax="28"/>
  <TargetSettings InitialDispenserSetting="0.8" ColorSpace="CIE2DegreeCxCy" TargetCxCyDistance="0.4" TargetPathAngle="22"> </TargetSettings>
  <ControllerSettings ControllerModule="ComixBasedController" PathLengthOffset="0.01" FloatingLength="2">
    <Converters>
      <Converter Name="QL905" InitialWeightPercent="3" Group="1" AllowVariation="true"/>
      <Converter Name="QL904" InitialWeightPercent="3" Group="1" AllowVariation="true"/>
      <Converter Name="L167" InitialWeightPercent="3" Group="2" AllowVariation="true"/>
    </Converters>
  </ControllerSettings>
</SteeringSettings>
```

### Sample Output File

**Filename:** {Output Folder}\{Lot Number}.txt

**Example:** {Output Folder}\LOTABCD.txt

### Content:

The file contains list of lines of Panel ID, Dispense 1 and Dispense 2 volume semi-colon (;) delimited.

Panel;Dispenser1;Dispenser2

{Tile ID 1};{Head 1 Volume 1};{Head 2 Volume 2}

{Tile ID 2};{Head 1 Volume 2};{Head 2 Volume.2}

...

{Tile ID n};{Head 1 Volume n};{Head 2 Volume.n}

### Example content:

Panel;Dispenser1;Dispenser2

JMC1234;1.1112;1.1016

JMC1235;1.1242;1.0735

JMC1236;1.1034;1.1143

JMC1237;1.1143;1.1023

JMC1234;1.1200;1.1200

End of document.