

	<b>Standard Operating Procedure</b>		<b>SOP Number B-603</b>	<b>Revision 0</b>
	<b>Insight Throat Metal Detector</b>		<b>Effective Date</b> 11/29/21	<b>Page Page 1 of 3</b>
<b>Written by/ Date</b> Kylee Blonczyk 08/03/21		<b>Reviewed by/ Date</b> Pam Ruv 08/05/21		<b>Approved by/ Date</b> S. Adkins 10/14/21
<b>Title: Production Supervisor</b>		<b>Title: Production Director</b>		<b>Title: Quality Assurance Manager</b>

## 1.0 Purpose

The purpose of this procedure is to define the process for the setup, operation, cleaning, and calibration of the Insight Throat Metal Detectors

## 2.0 Scope

This procedure applies to the Insight Throat Metal Detectors in operation at Ion Labs, Inc.

## 3.0 Responsibility

- 3.1 It is the responsibility of all personnel operating the Insight Throat metal detectors to follow this procedure.
- 3.2 It is the responsibility of Production management to implement this procedure and to ensure that the procedure is being followed.

## 4.0 Definitions

- 4.1 QC- Quality Control

## 5.0 References

- 5.1 B-111, SOP, Cleaning of Manufacturing/Production Areas and Equipment

## 6.0 Procedure

- 6.1 Setup, Operation, and Calibration Verification
  - 6.1.1 Calibration verification will be performed before each use using a calibration sample kit. Annual calibration will be performed with a QC- Controlled Calibration sample kit. The sample kit will consist of the following test pieces:
    - 6.1.1.1 2.00mm Ferrous
    - 6.1.1.2 3.00mm Ferrous

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6.1.1.3 2.00mm Aluminum

6.1.1.4 3.00mm Aluminum

6.1.1.5 2.00mm SS316 (Stainless steel)

6.1.1.6 3.00mm SS316 (Stainless steel)

**Note:** Refer to the machine manual for setup and operation instructions.

6.1.2 Plug in metal detector.

6.1.3 Ensure there is a metal-free zone around the aperture to prevent any false triggering.

6.1.4 The machine test set up setting is set up at the factory to detect the standard test sample provided with the metal detector.

6.1.5 After turning on the metal detector, on the bottom of the detector's display, a line of rectangles is displayed. If the rectangles are solid, it indicates that metal has been found.

6.1.6 Pass the test samples through the center aperture of the detector. The line of rectangles should be solid indicating metal was found. The detector should also sound off. If this does not occur, contact the department supervisor and refer to troubleshooting in the detector's manual.

6.1.7 Calibration sample results will be recorded in the batch record at start up, and metal detector checks will occur by QC and production every 1 hour during production run.

6.1.8 During the production run, if metal is detected, the detector will sound. Pass the product through the metal detector again, and if metal is still detected, re-pass product through in smaller increments until the metal has been found, and discard any metal/affected product.

6.1.9 Annual external metal detector validation is performed by Loma Systems, Inc.

6.2 Cleaning

6.2.1 Remove all materials/paperwork from the previous batch.

- 6.2.2 Refer to SOP B-111 Cleaning of Manufacturing/Production areas and Equipment to follow the cleaning procedure that is applicable to the equipment type.
- 6.2.3 Document cleaning in the cleaning log book.
- 6.2.4 Contact a QC inspector to inspect and verify equipment cleanliness and sign off cleaning in the log book.

## 7.0 Revision History

Revision	Date	Description of Changes	CCR #	By
0	08/03/21	New procedure.	N/A	K. Blozousky