

API Specification Doc

Version	Date	Author	Description
1.0	29-Oct-2024	Jihad Kherfan	Initial draft
1.1	10-Apr-2025	Rohe Alsebai	Adding commands

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Methods

1. Counters data

Get all counters data.

Request

Method	URL
Get	api/countAll/

Type	Params	Values
-	-	-

Response

- *Inspected* represents the total number of inspected items.
- *Rejects* represents the total number of rejected items.
- *Defects* represents the total number of articles with at least one defect.

Status	Response
200	<p>An object “machine with the total inspected and rejected bottles and then an array of molds (the numbers which the machine couldn’t read it’s number should be “0”)</p> <p><u>PS: each time we successfully call this API all the counters should reset to 0</u></p> <pre>{ "CountsResult": { "Machine": [{ "name": "GSMneo 1", "id": "14",</pre>

```
"Inspected": "266",
"Rejects": "9",
"Defects": "9",
"Mold": [
  {
    "nb": "0",
    "Inspected": "14",
    "Rejects": "9",
    "Defects": "9",
    "Sensor": [
      {
        "Rejects": "0",
        "Defects": "0",
        "id": "thickness"
      },
      {
        "Rejects": "7",
        "Defects": "7",
        "id": "check 1"
      },
      {
        "Rejects": "0",
        "Defects": "0",
        "id": "check 2"
      },
      {
        "Rejects": "2",
        "Defects": "2",
        "id": "PLA"
      }
    ]
  },
  {
    "nb": "5",
```

	<pre>"Inspected": "20", "Rejects": "3", "Defects": "3", "Sensor": [{ "Rejects": "0", "Defects": "0", "id": "thickness" }, { "Rejects": "1", "Defects": "1", "id": "check 1" }, { "Rejects": "2", "Defects": "2", "id": "check 2" }, { "Rejects": "0", "Defects": "0", "id": "PLA" }] }]</pre>
500	<pre>{"error": "Something went wrong. Please try again later."}</pre>

2. Counters Sensor data

Get all Sensor data.

Request

Method	URL
Get	api/countSensors/

Type	Params	Values
-	-	-

Response

- *Inspected* represents the total number of inspected items.
- *Rejects* represents the total number of rejected items.
- *Defects* represents the total number of articles with at least one defect.

Status	Response
200	<pre>{ "CountsResult": { "Machine": [{ "name": "GSMneo 1", "id": "14", "Inspected": "266", "Rejects": "9", "Defects": "9", "Sensor": [{ "Rejects": "0", "Defects": "0", "id": "thickness" }] }] } }</pre>

	<pre> }, { "Rejects": "7", "Defects": "7", "id": "check 1" }, { "Rejects": "0", "Defects": "0", "id": "check 2" }, { "Rejects": "2", "Defects": "2", "id": "PLA" }] }]</pre>
500	{"error": "Something went wrong. Please try again later."}

3. Ejected Molds

This method provides the list of automatic ejected molds.

Request

Mold tag contains 2 attributes:

- “nb” which is an integer value that represents the mold number.
- “reason” which is an integer value that represents the code of the reason for rejection.

Method	URL
GET	api/ejectedMolds/

Type	Params	Values
-	-	-

Response

Status	Response
200	<p>It will respond with an array of molds number with the id of the reason it had been rejected for.(the id and the reason text can be in separate database)</p> <pre>{ "EjectedMoldsResult": { "mold": [{ "nb": "2", "reason": "1" }, { "nb": "2", "reason": "1" }] } }</pre>

	<pre> }] } }</pre>
500	<pre>{"error": "Something went wrong. Please try again later."}</pre>

4. Mounted Molds

This method provides the list of mounted molds.

Request

Method	URL
GET	api/mountedMolds/

Type	Params	Values
-	-	-

Response

Status	Response
200	<p>The response may contain up to 128 tags "mold" and no tag "mold" if no mold is declared as mounted.</p> <p>Mold number is in a range between 0 and 127.</p> <pre>{ "MountedMoldsResult": { "mold": [{ "nb": "1" }, { "nb": "2" }, { "nb": "3" }] } }</pre>

	<pre> }, { "nb": "4" }, { "nb": "5" }, { "nb": "13" }, { "nb": "14" }, { "nb": "15" }, { "nb": "16" }, { "nb": "26" }, { "nb": "27" }, { "nb": "28" }, { "nb": "29" }, { "nb": "30" }, },</pre>
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	<pre>{ "nb": "32" }, { "nb": "33" }, { "nb": "34" }, { "nb": "35" }, { "nb": "36" }]</pre>
500	<pre>{"error": "Something went wrong. Please try again later."}</pre>

5. Get Alarms

This method returns all the alarms that occurred on the machine from the last query.

Request

Method	URL
GET	api/getAlarms/

Type	Params	Values

Response

Status	Response
200	<pre>{ "alarms": [{ "Date": "2024-11-13T16:27:44.468", "Nature": { "CodeType": "3", "CodeCategorie": "3", "CodeId": "25" }, "label": "Communication error while requesting alarms", "Acknowledged": "OK" }, { "Date": "2024-11-13T16:27:44.453", "Nature": { "CodeType": "3",</pre>

	<pre> "CodeCategorie": "3", "CodeId": "1" }, "label": "error communication with PLC", "Acknowledged": "OK" }, { "Date": "2024-11-13T16:27:41.25", "Nature": { "CodeType": "3", "CodeCategorie": "3", "CodeId": "1" }, "label": "... etc", "Acknowledged": "OK" }, { "Date": "2024-11-13T16:22:19.703", "Nature": { "CodeType": "3", "CodeCategorie": "3", "CodeId": "1" }, "label": "..etc", "Acknowledged": "OK" }]</pre>
500	<pre>{"error": "Something went wrong. Please try again later."}</pre>

6. Add Number for Rejection

This method will add a number to the rejection table.

Request

Method	URL
POST	api/AddEjectedMold/

Type	Params	Values
POST	AddEjectedMolds	<pre>{ "mold": [{ "nb": "2", "reason": "1" }, { "nb": "3", "reason": "5" }] }</pre>

Response

Status	Response
200	<pre>{ "response": "ok" }</pre>

500	{"error": "Something went wrong. Please try again later."}

7. Remove Number from Rejection

This method will remove a number from the rejection table by changing the reason to "0".

Request

Method	URL
POST	api/RemoveEjectedMold/

Type	Params	Values
POST	RemoveEjectedMolds	<pre>{ "mold": [{ "nb": "2", "reason": "0" }, { "nb": "3", "reason": "0" }] }</pre>

Response

Status	Response
200	<pre>{ "response": "ok" }</pre>

500	{"error": "Something went wrong. Please try again later."}

8. Reject All Molds

This method will reject all mold numbers.

Request

Method	URL
POST	api/RejectAll/

Type	Params	Values
-	-	-

Response

Status	Response
200	<pre>{ "response": "ok" }</pre>
500	<pre>{"error": "Something went wrong. Please try again later."}</pre>

9. Stop Rejection

This method will remove all molds numbers from the Rejection table.

Request

Method	URL
POST	api/StopRejection/

Type	Params	Values
-	-	-

Response

Status	Response
200	<pre>{ "response": "ok" }</pre>
500	<pre>{"error": "Something went wrong. Please try again later."}</pre>

Glossary

Conventions

- **Client** - Client application.
- **Status** - HTTP status code of response.
- All the possible responses are listed under 'Responses' for each method. Only one of them is issued per request server.
- All response are in JSON format.
- All request parameters are mandatory unless explicitly marked as **[optional]**

Status Codes

All status codes are standard HTTP status codes. The below ones are used in this API.

2XX - Success of some kind

4XX - Error occurred in client's part

5XX - Error occurred in server's part

Status Code	Description
200	OK
201	Created
202	Accepted (Request accepted, and queued for execution)
400	Bad request
401	Authentication failure
403	Forbidden
404	Resource not found
405	Method Not Allowed
409	Conflict
412	Precondition Failed

413	Request Entity Too Large
500	Internal Server Error
501	Not Implemented
503	Service Unavailable