Dotpeenator®

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INTEGRATION GUIDE

RESTful API Documentation.

HTTP endpoints for Dotpeenator® dot peen marking machines, enabling MES and ERP systems to send mark data, manage template files and control the marking process.

PROTOCOL	DATA FORMAT	METHODS	DEFAULT PORT
HTTP/1.1	JSON (UTF-8)	GET / POST	8080

0 Overview

The Dotpeenator® RESTful API runs on the machine's control unit and provides HTTP endpoints for the marking system, enabling MES systems to perform tasks such as sending mark data, managing files and controlling the marking machine.

- **Protocol:** HTTP/1.1
- **Data Format:** JSON (UTF-8 encoding)
- **Request Methods:** GET / POST
- **Default Address:** `http://127.0.0.1:8080` on the control unit itself. From another computer on the network, use the machine's IP address, e.g. `http://<machine-IP>:8080`.

In endpoint paths, field names and messages (for example `/api/printer/start`, `printerStatus`, `printer busy`), the word *printer* refers to the Dotpeenator® marking machine. These identifiers must be used exactly as written.

General Information

HTTP STATUS CODES

STATUS CODE	DESCRIPTION
`200`	Request succeeded; see response JSON
`400`	Invalid JSON in request body
`404`	Endpoint not found
`405`	Method not allowed
`411`	POST request is missing `Content-Length` header

RESPONSE FORMAT

All API responses are in JSON format with the following general structure:

```
{
    "status": "ok",
    "message": "successfully"
}
```

- `status` : `"ok"` or `"error"`
- `message` : Description of the result
- Some endpoints include additional fields (e.g., `data` , `file` , `printerStatus`)

SAMPLE REQUEST (CURL)

```
curl -X POST http://127.0.0.1:8080/api/setData \
  -H "Content-Type: application/json" \
  -d '{"data": [...]}'
```

Mark Data Endpoints

1.1 Send Mark Data `POST` `/api/setData`

Sends text content to specified marks, enables/disables marking and controls visibility.

> **Prerequisite:** The machine must be in `idle` state.

REQUEST PARAMETERS

FIELD	TYPE	REQUIRED	DEFAULT	DESCRIPTION
`data`	Array	**Yes**	—	Array of mark data objects

FIELDS FOR EACH OBJECT IN DATA

FIELD	TYPE	REQUIRED	DEFAULT	DESCRIPTION
`name`	String	**Yes**	—	Mark name (must match the mark name in the template)
`text`	String	No	—	Text content for the mark. If omitted, only `enable` / `visible` apply

FIELD	TYPE	REQUIRED	DEFAULT	DESCRIPTION
`part`	Int	No	`0`	Coder index (for marks with multiple content segments)
`enable`	Bool	No	`true`	Whether this mark should participate in marking
`visible`	Bool	No	`true`	Whether this mark is visible

EXAMPLE

```
curl -X POST http://127.0.0.1:8080/api/setData \
  -H "Content-Type: application/json" \
  -d '{
     "data": [
         {
             "name": "SN",
             "text": "202405120001",
             "part": 0
         },
         {
             "name": "DateCode",
             "text": "2024-05-12",
             "enable": true,
             "visible": true
         },
         {
             "name": "Logo",
             "enable": false
         }
     ]
  }'
```

SUCCESS RESPONSE (ALL MARKS PROCESSED SUCCESSFULLY)

```
{
    "status": "ok",
    "message": "successfully",
    "data": [
        {
            "name": "SN",
            "text": "202405120001",
            "status": "ok",
            "message": "successfully"
        },
        {
            "name": "DateCode",
            "text": "2024-05-12",
            "status": "ok",
            "message": "successfully"
        },
        {
            "name": "Logo",
            "text": "",
            "status": "ok",
            "message": "successfully"
        }
    ]
}
```