**SMAT 2022**

**Pinokio Documentation**

Release 0.1 – 11/2022

# Introduction

The purpose of this document is to describe the data of the Semiconductor Manufacturing with AMHS Testbed 2022 (SMAT2022). SMAT2022 contains 16 different types of tables: 7 tables from SMT2020 and new nine tables describing AMHS in modern FABs. A summary of the purpose of tables is as follows:

|  |  |
| --- | --- |
| **Table** | **Description** |
| Address | Information on all nodes of OHT rail network, and their characteristics. |
| ZCU | Information on |
| Rail | Information on all links of OHT rail network. |
| Bay | Information on bays (Intrabay and Interbay) |
| Equipment | Information on |
| PortType | Information on |
| Port | Information on |
| VehicleType | Information on |
| Vehicle | Information on |

## Terminology

dd

# Description of the tables

Each table will be described briefly in this section. A description of each column will be provided.

## Address

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| POSITION\_X |  |
| POSITION\_Y |  |
| ZCU\_NAME |  |
| ZCU\_TYPE |  |

## ZCU

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| TYPE |  |
| RAILLINE\_NAME |  |
| DISTANCE |  |

## Rail

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| BAY\_NAME |  |
| FROM\_NODE |  |
| TO\_NODE |  |
| MAX\_SPEED |  |
| CURVE |  |

## Bay

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| TYPE |  |
| RETICLE |  |
| NEIGHBOR\_BAY |  |

## Equipment

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| TYPE |  |
| RETICLE |  |
| NEIGHBOR\_BAY |  |

## PortType

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| SIZE |  |
| INOUT\_TYPE |  |

## Port

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| PORT\_TYPE |  |
| EQP\_NAME |  |
| RAILLINE\_NAME |  |
| DISTANCE |  |

## VehicleType

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| SIZE |  |
| MAX\_SPEED |  |
| ACCELERATION |  |
| DECELERATION |  |
| MIN\_DISTANCE |  |

## Vehicle

|  |  |
| --- | --- |
| **Column** | **Description** |
| NAME |  |
| TYPE |  |
| RAILLINE\_NAME |  |
| DISTANCE |  |