

## Machine model

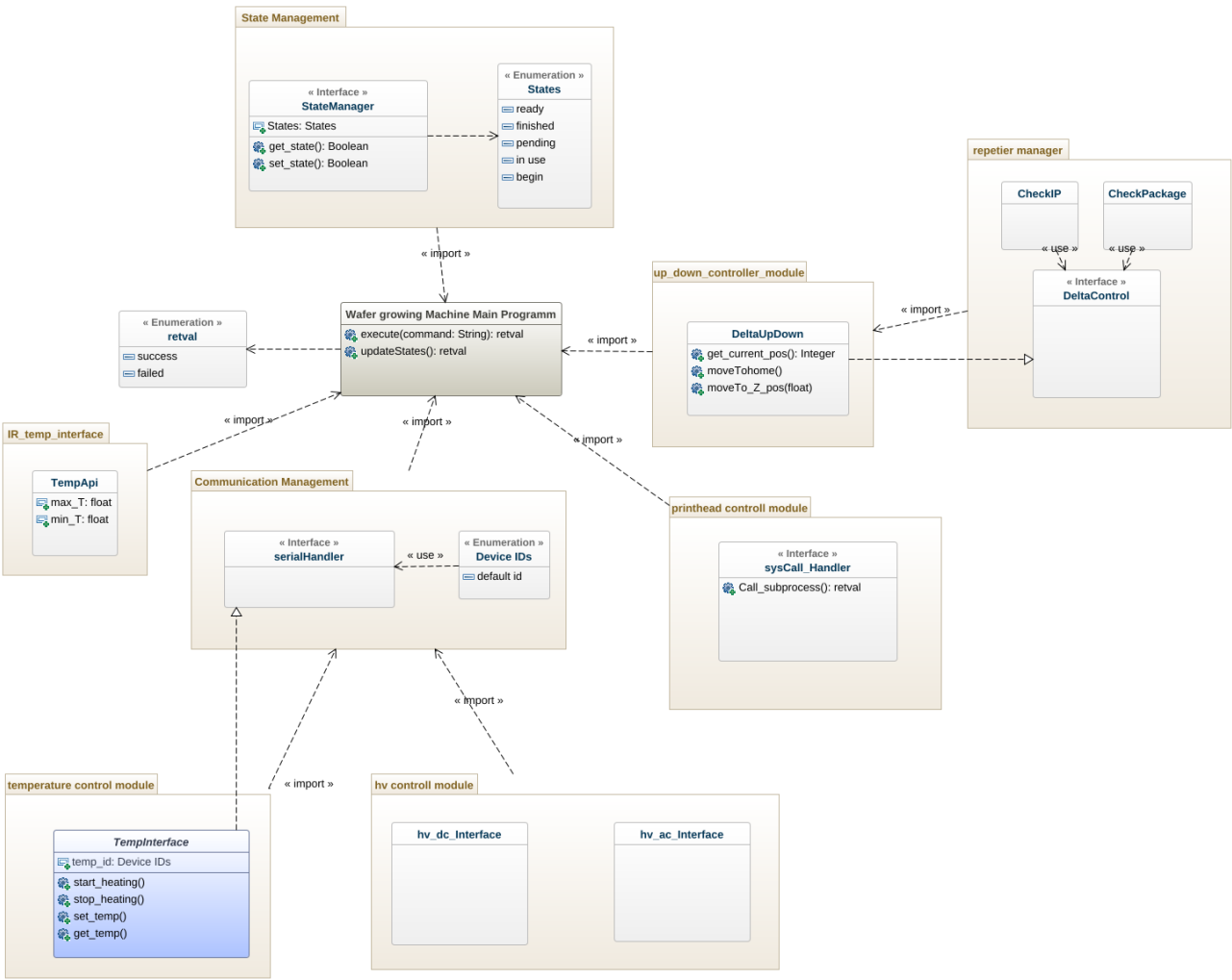
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# Machine model (Model)



machine-class-diagram

## 1. StateManager (Class)

In Machine model

Attributes
States : <i>States</i> [1]
Operations
get_state : <i>Boolean</i>
set_state : <i>Boolean</i>
Associations

Attributes
Wafer growing Machine _StateManager - wafer growing Machine : Wafer growing Machine Main Programm [*] - see <a href="#">definition</a>

## 2. Wafer growing Machine Main Programm (Class)

*In Machine model*

Operations
execute : <i>retval</i> - command: <i>String[1]</i>
updateStates : <i>retval</i>
Associations
Wafer growing Machine _StateManager - stateManager : StateManager [1] - see <a href="#">definition</a>

## 3. float (DataType)

*In Machine model*

## 4. float2 (DataType)

*In Machine model*

## 5. retval (Enumeration)

*In Machine model*

## 6. retval (Enumeration)

*In Machine model*

- success
- failed

## 7. Communication Management (Package)

*In Machine model*

### 7.1. Device IDs (Enumeration)

*In Machine model::Communication Management*

- default id

### 7.2. serialHandler (Interface)

*In Machine model::Communication Management*

## 8. IR\_temp\_interface (Package)

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*In Machine model*

### 8.1. TempApi (Class)

*In Machine model::IR\_temp\_interface*

Attributes
max_T : float [1]
min_T : float [1]

## 9. State Management (Package)

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*In Machine model*

### 9.1. StateManager (Interface)

*In Machine model::State Management*

Attributes
States : States [1]
Operations
get_state : Boolean
set_state : Boolean

### 9.2. States (Enumeration)

*In Machine model::State Management*

- ready
- finished
- pending
- in use
- begin

## 10. hv controll module (Package)

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*In Machine model*

### 10.1. hv\_ac\_Interface (Class)

*In Machine model::hv controll module*

### 10.2. hv\_dc\_Interface (Class)

*In Machine model::hv controll module*

## 11. printhead controll module (Package)

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*In Machine model*

### 11.1. Class (Class)

*In Machine model::printhead controll module*

### 11.2. sysCall\_Handler (Interface)

*In Machine model::printhead controll module*

Operations
Call_subprocess : retval

## 12. repetier manager (Package)

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*In Machine model*

### 12.1. CheckIP (Class)

*In Machine model::repetier manager*

### 12.2. CheckPackage (Class)

*In Machine model::repetier manager*

### 12.3. Class (Class)

*In Machine model::repetier manager*

### 12.4. DeltaControl (Interface)

*In Machine model::repetier manager*

## 13. temperature control module (Package)

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*In Machine model*

### 13.1. (Class)

*In Machine model::temperature control module*

### 13.2. DeviceCard (Class)

*In Machine model::temperature control module*

Extends

- TempInterface - see [definition](#)

### 13.3. ExtensionBoard (Class)

*In Machine model::temperature control module*

Extends

- TempInterface - see [definition](#)

Associations
ExtensionBoard_Card - cards : TempInterface [*] - see <a href="#">definition</a>

### 13.4. TempInterface (Class)

*In Machine model::temperature control module*

Implements

- serialHandler - see [definition](#)

Attributes
temp_id : <i>Device IDs</i> [1]
Operations
start_heating
stop_heating
set_temp
get_temp
Associations
ExtensionBoard_Card - extensionBoard : ExtensionBoard [1] - see <a href="#">definition</a>

## 14. up\_down\_controller\_module (Package)

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*In Machine model*

### 14.1. DeltaUpDown (Class)

*In Machine model::up\_down\_controller\_module*

Implements

- DeltaControl - see [definition](#)

Operations
get_current_pos : <i>Integer</i>
moveTohome
moveTo_Z_pos - Z_pos: <i>float</i> [1]