


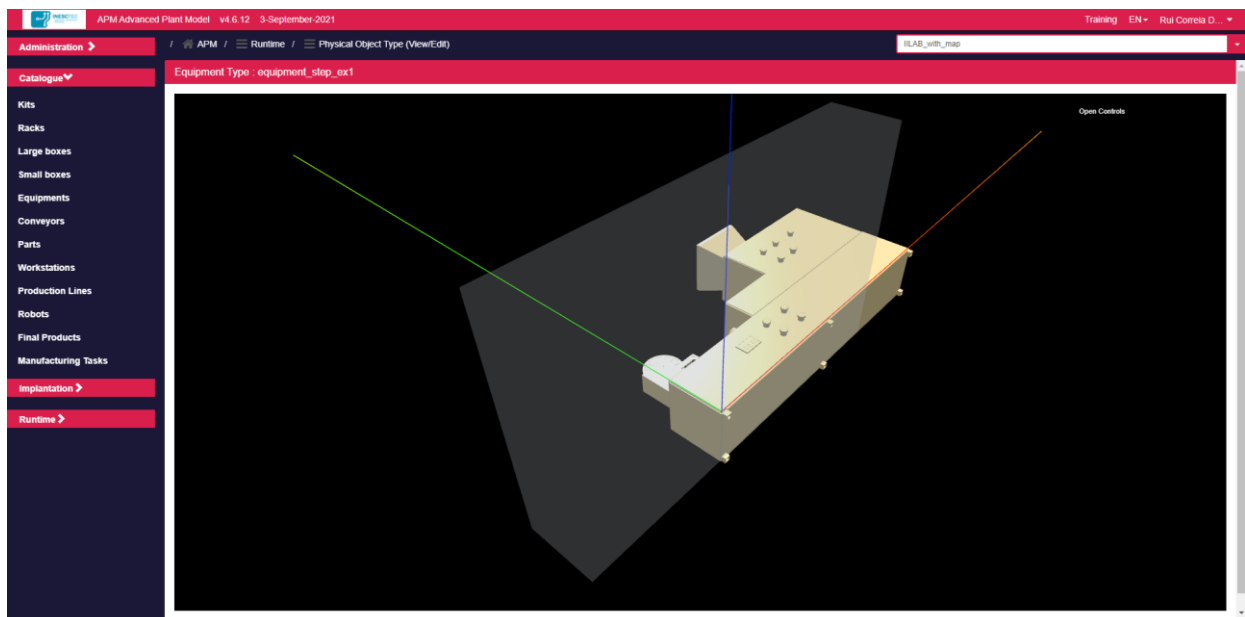
The Catalogue contains the 3D model of all the objects that may be used to build the Model of a given Physical Area.

The Catalogue supports the following types of objects: Kits, Racks, Large boxes, Small boxes, Equipments, Conveyors, Parts, Workstations, Production Lines, Robots and Final Products.

Let's add a new Equipment to the Catalogue by using a STEP model.

1. Go to **"Catalogue / Equipments"**
  2. Press the top right button **"New equipment"**
    - (1) Set the field **"Identifier field"** (DON't use blank spaces)
    - (2) Set the fields: **"External width"**, **"External depth"** and **"External height"**
- You may optionally associate a STEP model with the Equipment (DON't use spaces in the Identifier field)
- (3) Press the **"3D CAD model / Select file"** button
  - (4) Set the **"Conversion to mm"** field
3. Press the **"Save changes"** button and wait. When the upload is concluded the navigation will be redirected to the list of Equipments in the catalogue.

4. In the list of Equipments, press the  icon and check if the defined Equipment has the right form. It may be necessary to align the CAD model with the respective Bounding Volume (like in the picture below).



5. To align the CAD model with the respective Bounding Volume, press the top right button “**Open Controls**”. The following menu comprising four categories will expand:
- **Status**: gives feedback about the user’s actions.
  - **Position**: adjusts the CAD model position.
  - **Rotation**: adjusts the CAD model orientation.
  - **Actions**: allows to **undo**, **reset** and **update** the configuration.
    - **Undo** : loads the last saved configuration.
    - **Reset** : sets to zero the configuration.
    - **Update**: saves the current configuration.

**Status** The configuration is up to date

▸ Camera view

▾ Grid

grid 1x1 m	<input type="checkbox"/>
grid 10x10 cm	<input type="checkbox"/>

▾ Position (large displacement)

red axis	<input type="range"/>	0
green axis	<input type="range"/>	0
blue axis	<input type="range"/>	0

▾ Position (fine-tune displacement)

red axis (fine-tune)	<input type="range"/>	0
green axis (fine-tune)	<input type="range"/>	0
blue axis (fine-tune)	<input type="range"/>	0

▾ Rotation

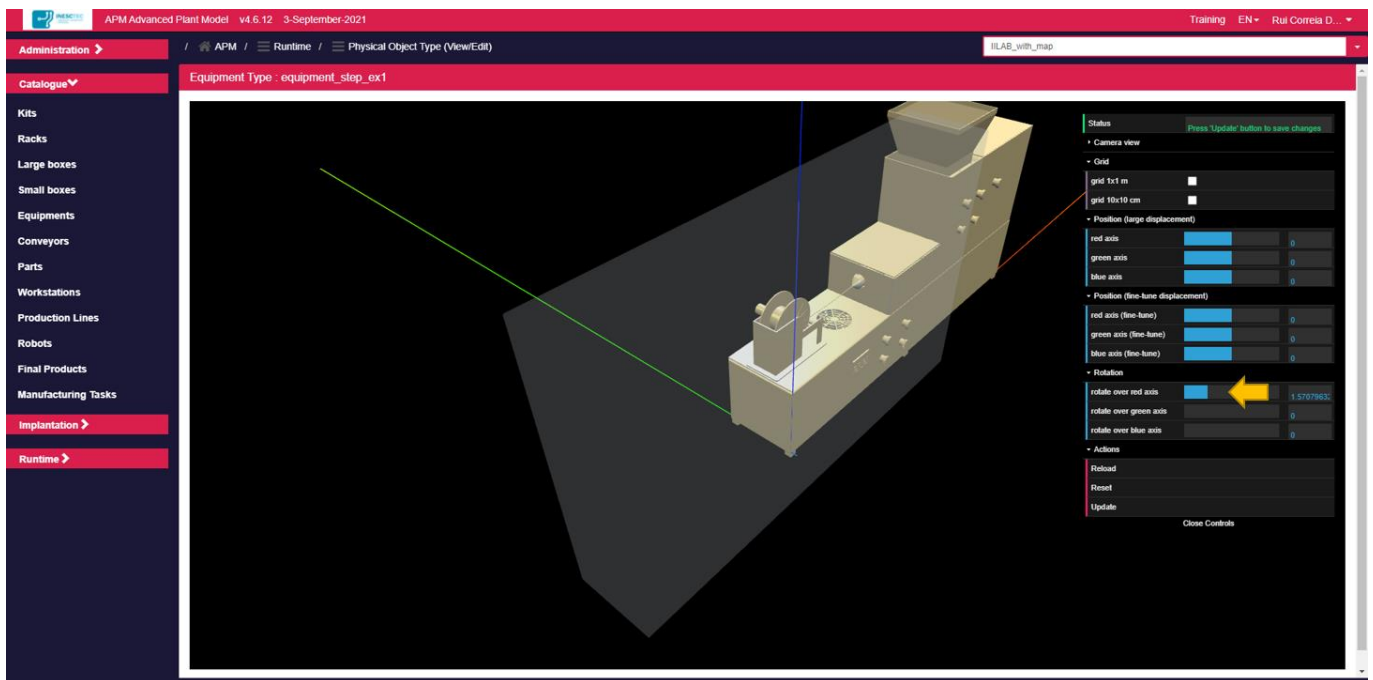
rotate over red axis	<input type="range"/>	0
rotate over green axis	<input type="range"/>	0
rotate over blue axis	<input type="range"/>	0

▾ Actions

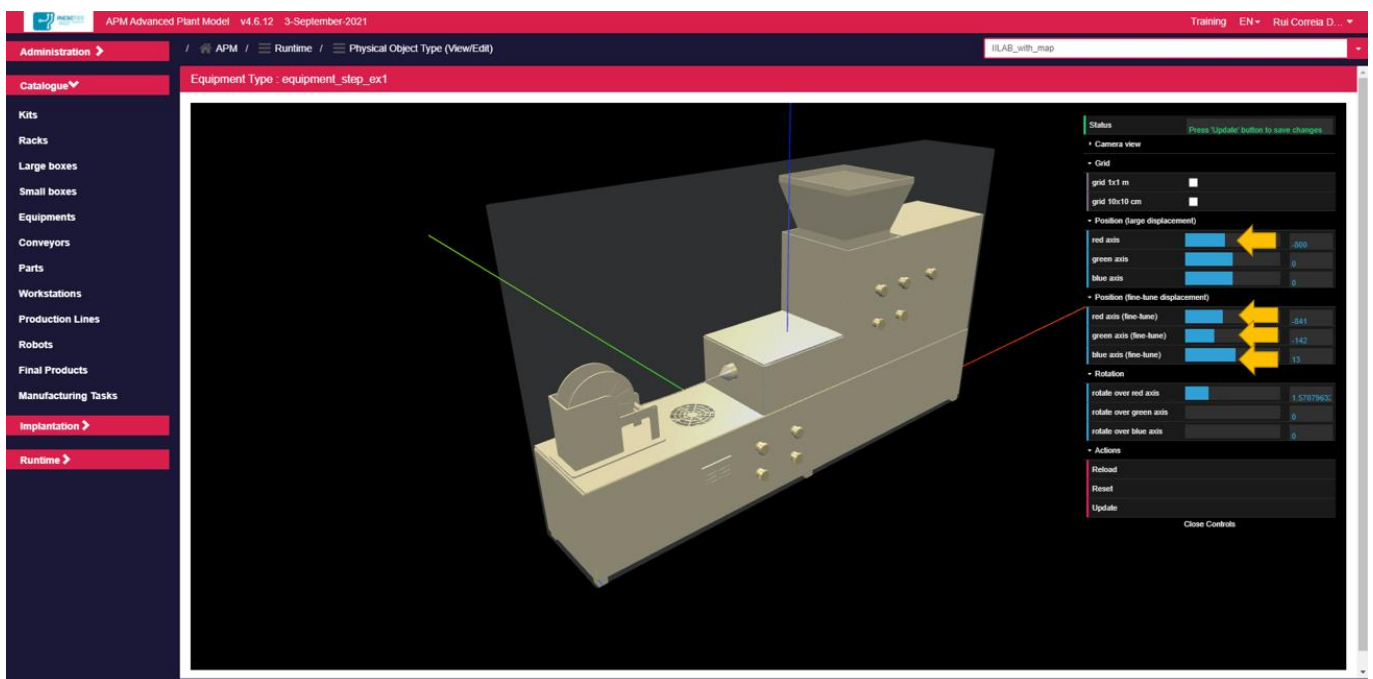
Reload
Reset
Update

Close Controls

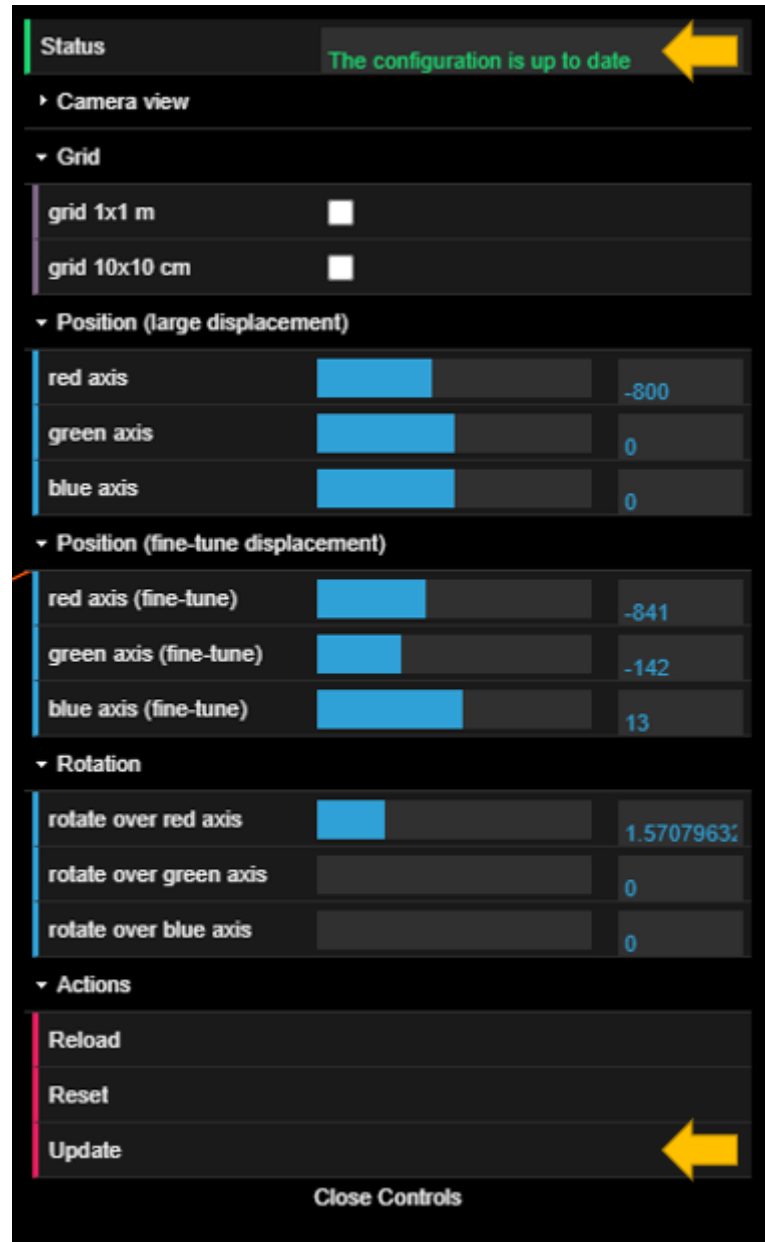
5.1. Adjust CAD model **orientation** using the **Rotation sliders**. Each slider performs the rotation over a specific axis (red, green, or blue).



5.2. Adjust CAD model **location** using the **Position sliders**. Each slider performs a translation over a specific axis (red, green, or blue).



5.3. Once the CAD model is aligned with the Bounding Volume, press **Update** button to save the configuration. A message is presented “The configuration is up to date” confirming the action.



The screenshot shows a software control panel with a dark background. At the top, a 'Status' section displays the message 'The configuration is up to date' in green text, with a yellow arrow pointing to it from the right. Below this is a 'Camera view' section. The 'Grid' section has two rows: 'grid 1x1 m' and 'grid 10x10 cm', each with a small white square icon. The 'Position (large displacement)' section contains three rows: 'red axis' with a blue progress bar and value '-800', 'green axis' with a blue progress bar and value '0', and 'blue axis' with a blue progress bar and value '0'. The 'Position (fine-tune displacement)' section contains three rows: 'red axis (fine-tune)' with a blue progress bar and value '-841', 'green axis (fine-tune)' with a blue progress bar and value '-142', and 'blue axis (fine-tune)' with a blue progress bar and value '13'. The 'Rotation' section contains three rows: 'rotate over red axis' with a blue progress bar and value '1.5707963', 'rotate over green axis' with a value of '0', and 'rotate over blue axis' with a value of '0'. The 'Actions' section at the bottom has three buttons: 'Reload', 'Reset', and 'Update'. A yellow arrow points to the 'Update' button from the right. At the very bottom, there is a 'Close Controls' button.

Section	Item	Value / Status
Status	The configuration is up to date	
	←	
Grid	grid 1x1 m	<input type="checkbox"/>
	grid 10x10 cm	<input type="checkbox"/>
Position (large displacement)	red axis	<input type="range"/> -800
	green axis	<input type="range"/> 0
	blue axis	<input type="range"/> 0
Position (fine-tune displacement)	red axis (fine-tune)	<input type="range"/> -841
	green axis (fine-tune)	<input type="range"/> -142
	blue axis (fine-tune)	<input type="range"/> 13
Rotation	rotate over red axis	<input type="range"/> 1.5707963
	rotate over green axis	0
	rotate over blue axis	0
Actions	Reload	
	Reset	
	Update	←
Close Controls		