The .smrenc files

The .smrenc file is a line text file. Each line consists of a key followed by comma-separated parameters.

key, parameter 0, parameter 1, parameter 2, parameter 3, ... parameter n

The .smrenc file can be loaded while the simulator is running.

The lines of the file can also be part of a project in a <project>.json file.

```
"targets": [
        {
            "id": "7111",
            "targetId": "Block Beta 6/25/2024 10:16 AM",
            "targetIds": [],
            "smrencIds": [
                "4149,L1[mm],L2[mm],L3[mm],SP",
                "4147,-79,179,-144,144,-47,144,-44,44",
                "4148,L1,L2,L3,D"
            ]
        }
    ],
```

The .smrenc file extends the functionality of the simulator without implementing the UI.

List of keys

Range of encoders

sample:

4147, Xmin, Xmax, Ymin, Ymax, Zmin, Zmax, Z´min, Z´max

Changing the encoder range does not cause recalculation of already programmed trajectories. This must be done again. Therefore, it is advisable to start each project by setting the encoders.

Setting the names of axes of measuring

sample:

4148,L1,L2,L3,D

Replaces the default labeling of the measurement axes

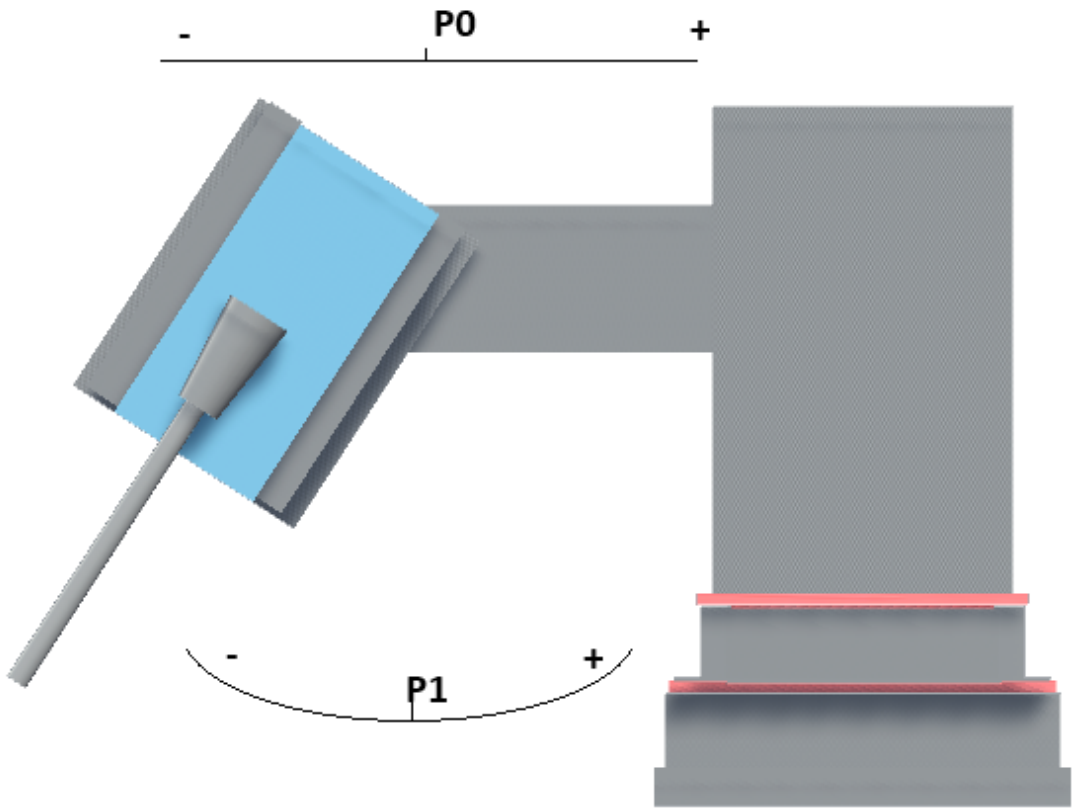
Setting the axis labels at the position node

sample:

4149,L1[mm],L2[mm],L3[mm],SP

Setting XYZ, PYZ of ´lab´ internal models

see to picture:



4541,P0,P1

P0, P1 has no limitations

practically applicable:
P0 <-0.5 , 0.19>
P1 <-90 , 37>

use is assumed:

- for mechanical repositioning of the Z axis
- for electrical or pneumatic change of Z-axis position in 2 inclinations, in this case the change of position is simulated by an external DLL or IO signal

Material settings

Materials T1 - T6 are included in the simulator. These materials can be assigned to objects.

sample:

4447,BaseStage,T1,X-Axis,T2,P-Axis,T3,P-AxisGroup,T4,T-Axis,T5,T-AxisGroup,T6

Material is assigned to all objects in the group

sample:

4448,BaseStage,T1,X-Axis,T2,P-Axis,T3,P-AxisGroup,T4,T-Axis,T5,T-AxisGroup,T6

Material is assigned only to the specified object