MOVING TABLE FOR THE EMULSION DETECTOR

A. Crupano
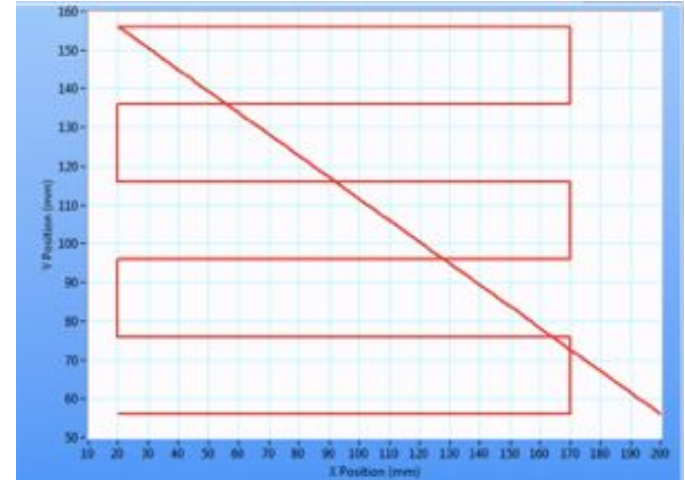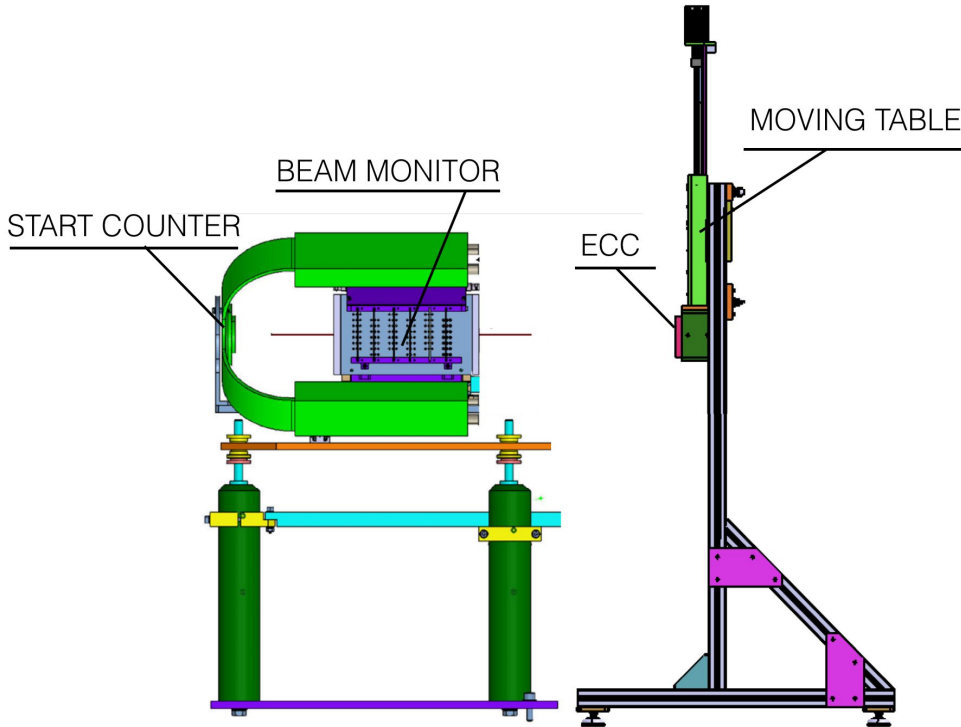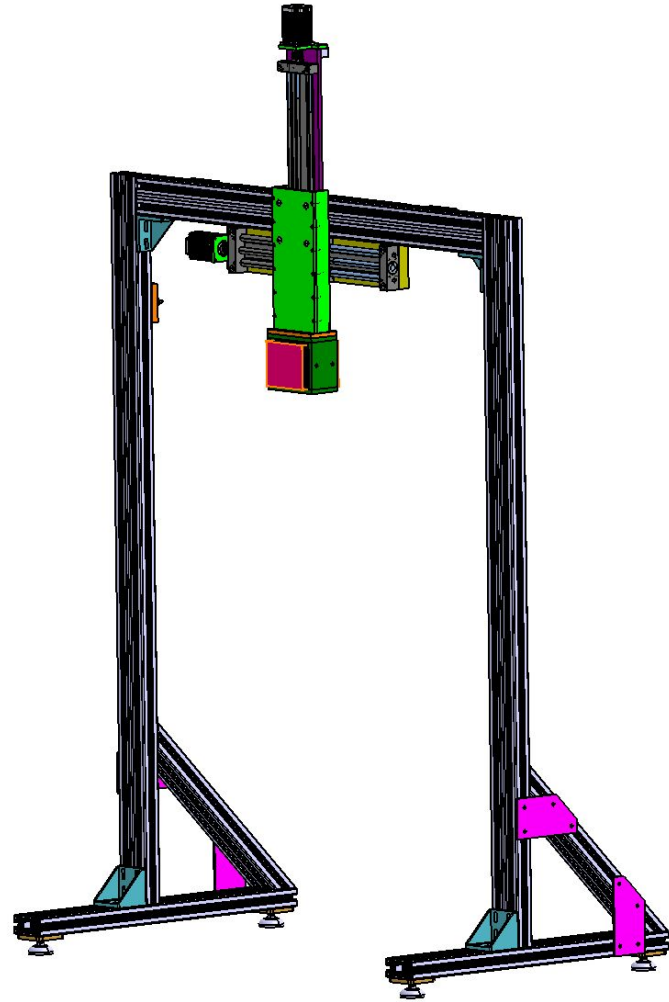
INFN Napoli

Pisa, 3rd May 2018

REQUIREMENTS

• Supporting structure for the Emulsion Detector (ECC)
• Shift along x an y axes to have the beam uniformly distributed on the ECC surface
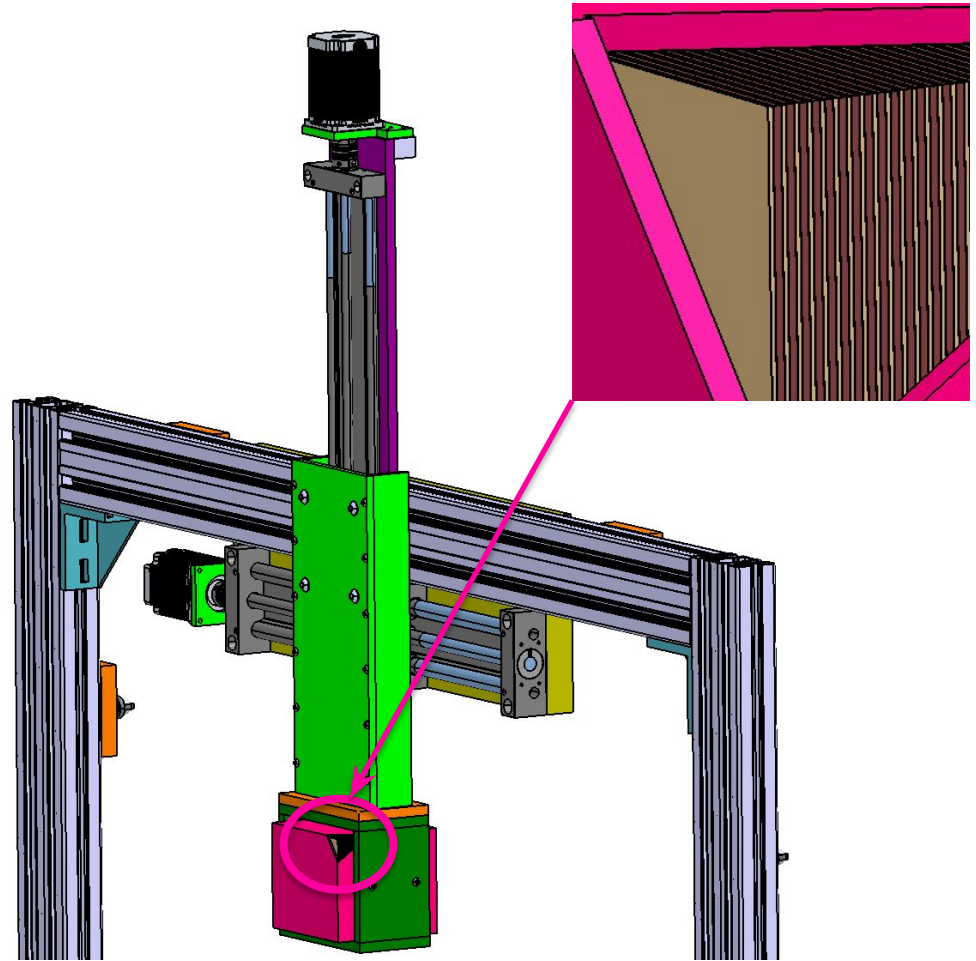

Possible moving pattern in the xy plane

STRUCTURE

- Motorized stage along x and y axes
- Two stepper motors
- Aluminum moving arms
- Aluminum supporting structure
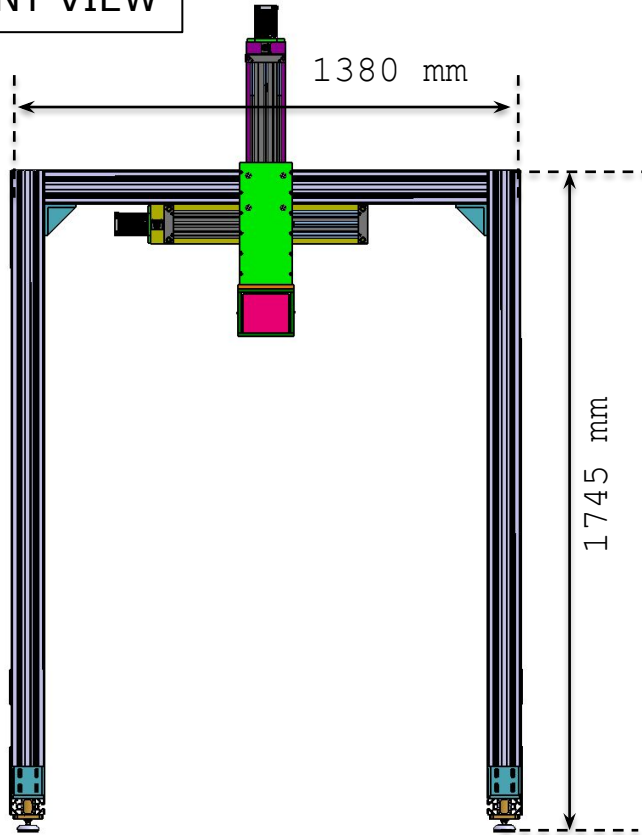- Total weight <50 kg

STRUCTURE

- Weight capacity: 70 kg
- Position accuracy along y axis: 20 um
- Position accuracy along x axis: 50 um
- Max excursion alog y axis: 300 mm
- Max excursion alog x axis: 350 mm

LAYOUT AND DIMENSIONS

FRONT VIEW

1380 mm

1745 mm

SIDE VIEW

800 mm