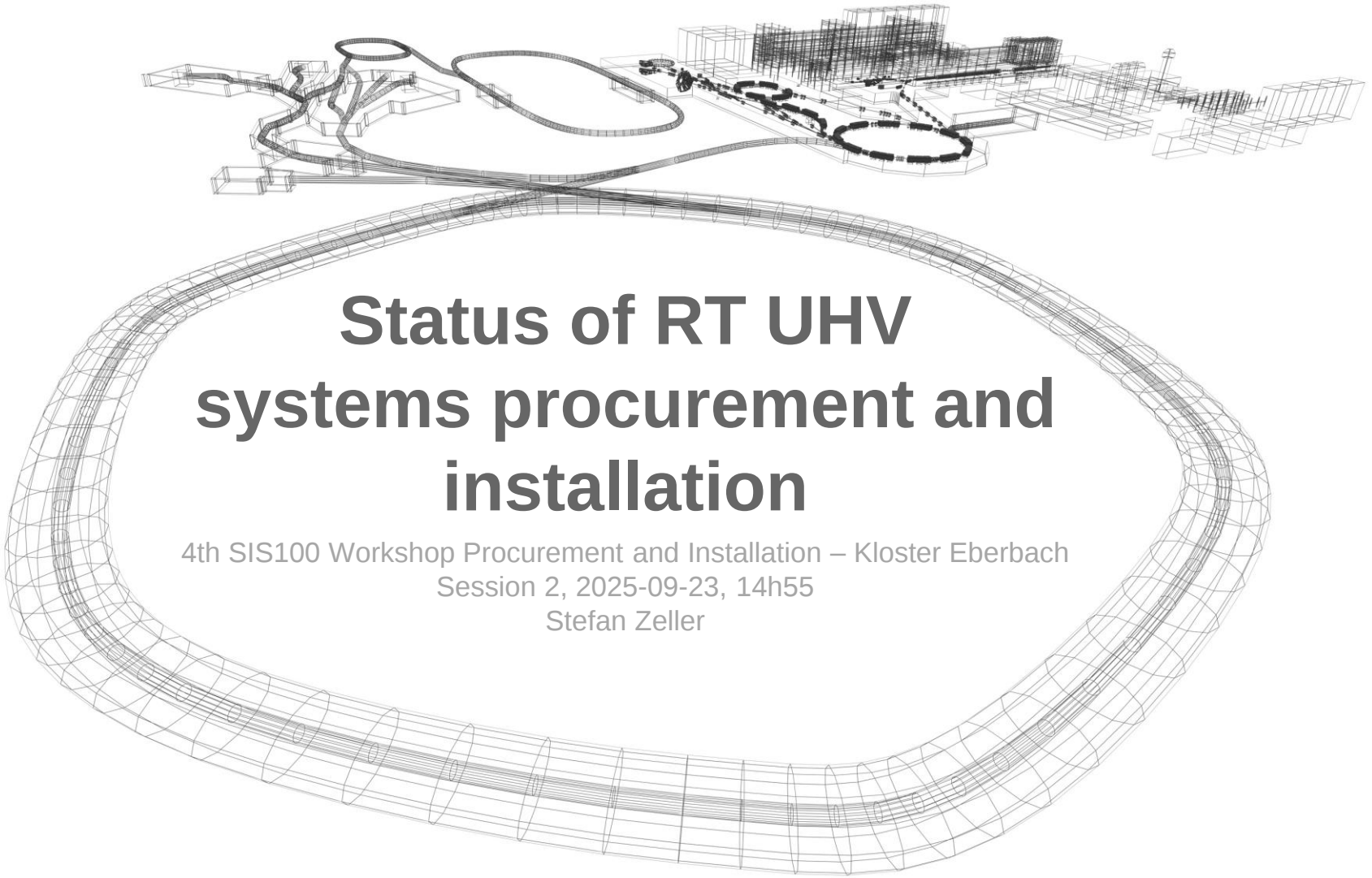
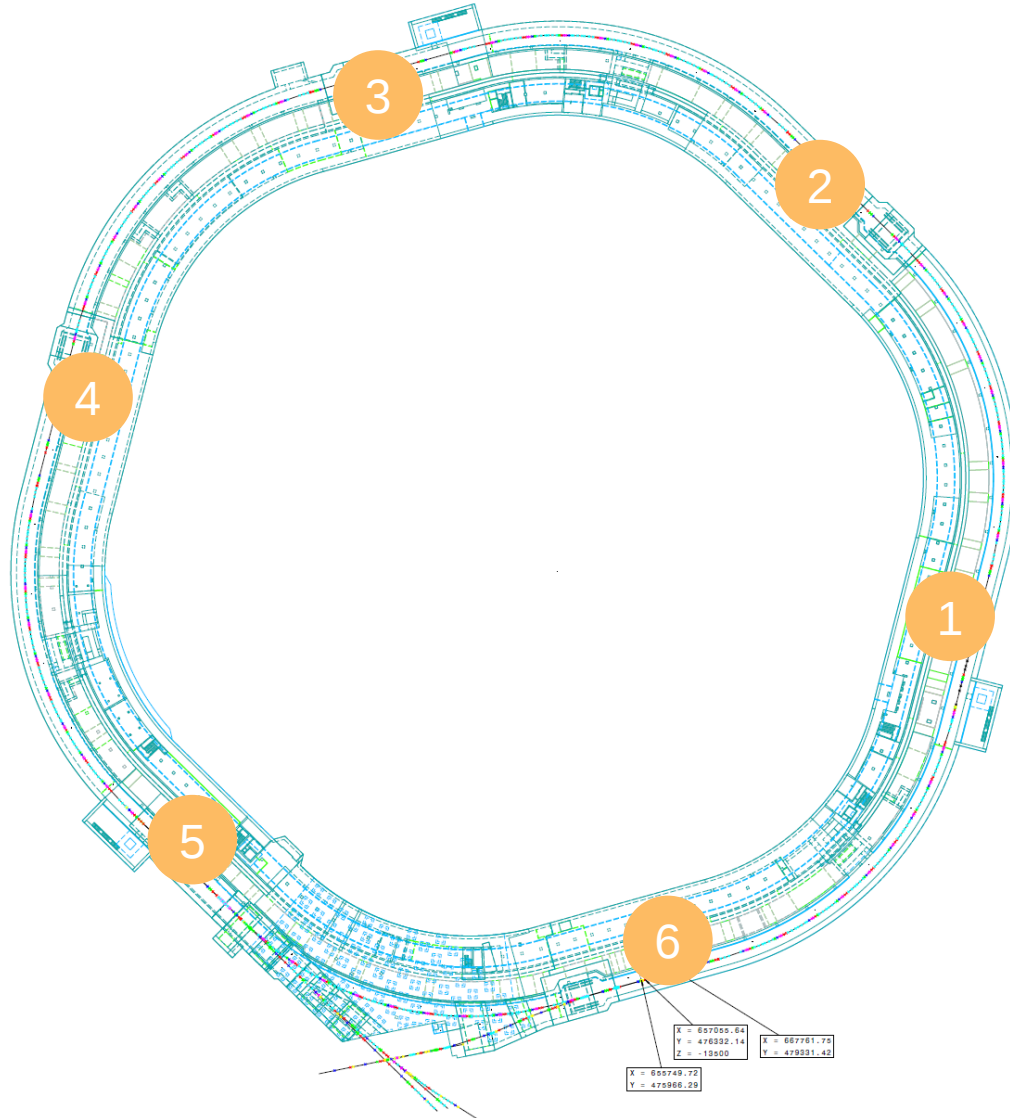


A detailed wireframe model of a particle accelerator, likely the FAIR facility. It shows a large, oval-shaped ring structure with a complex internal layout of pipes and components. The model is rendered in a light gray wireframe style, highlighting the intricate geometry of the facility.

Status of RT UHV systems procurement and installation

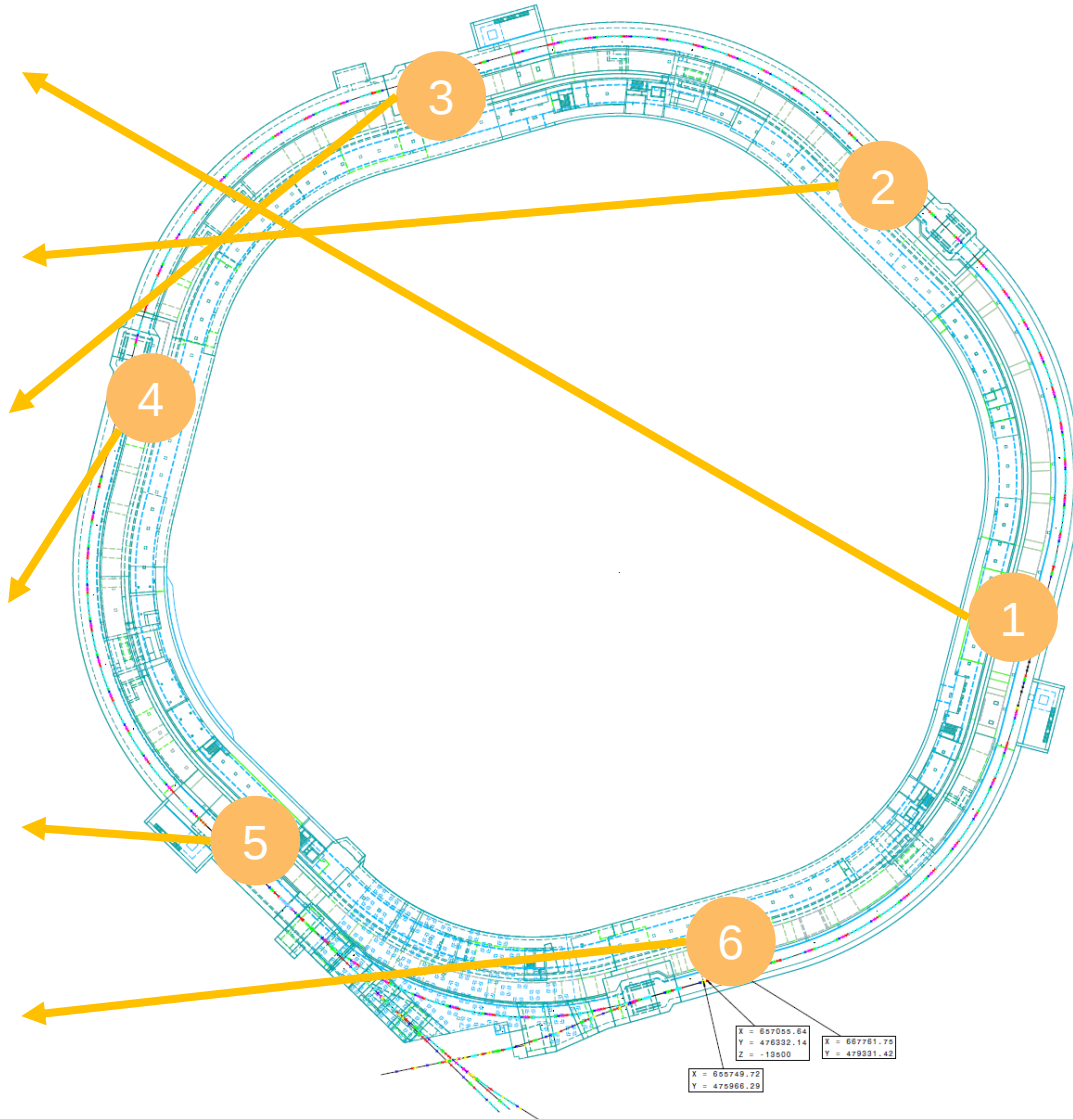
4th SIS100 Workshop Procurement and Installation – Kloster Eberbach
Session 2, 2025-09-23, 14h55
Stefan Zeller

SIS100 RT UHV System – Overview



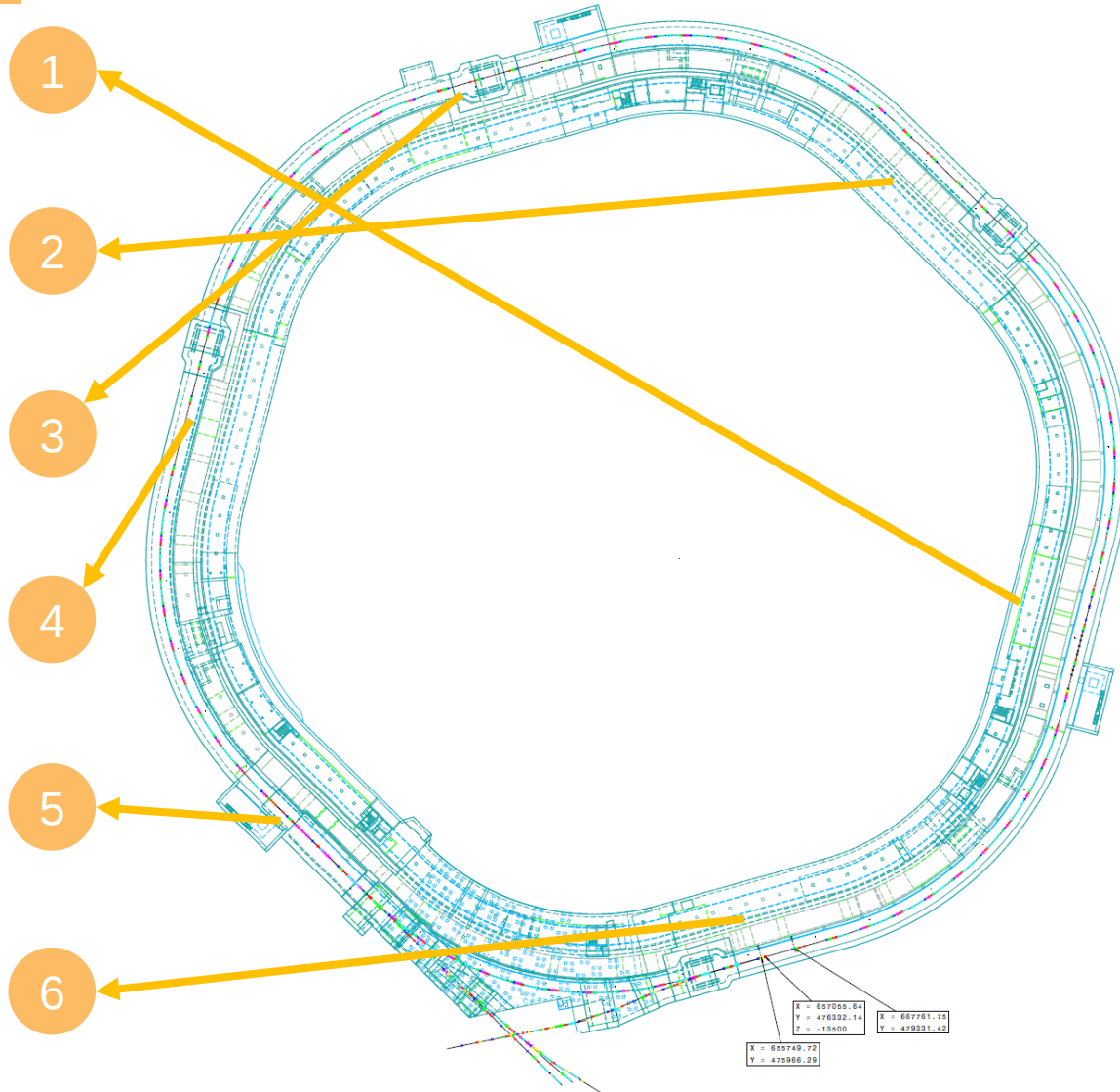
- The UHV system of SIS100 is mainly cryogenic (82%)
- The RT sections are located on the six straights (4 on each)
- They contain the injection and extraction systems (kicker, septa), accelerator cavities, bunch compressors, beam diagnostics, collimator and laser systems, etc.

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SIS100 RT UHV System – Overview



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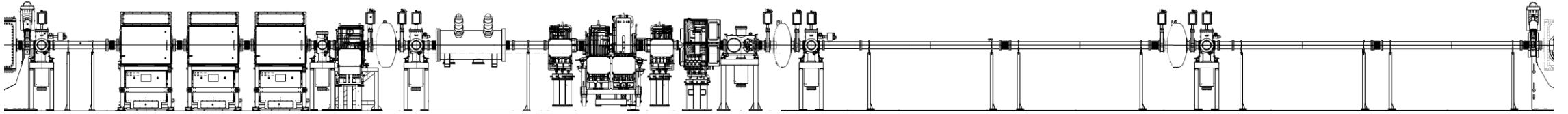
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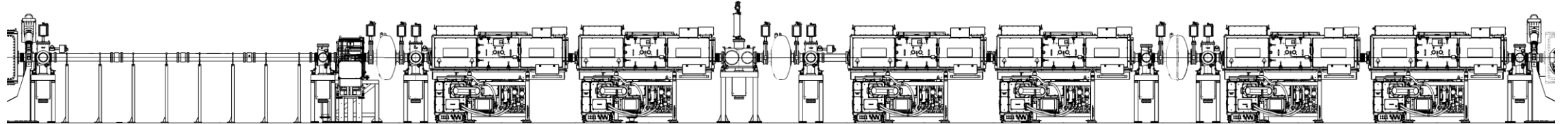
SIS100 RT UHV System – Overview



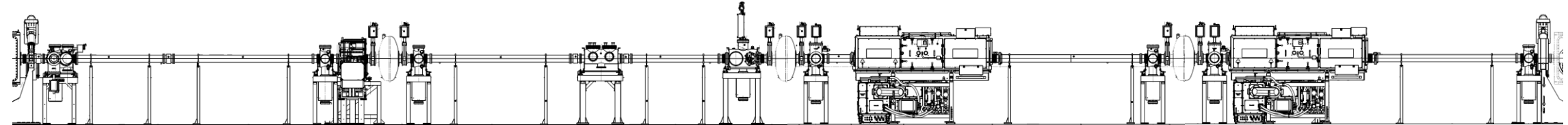
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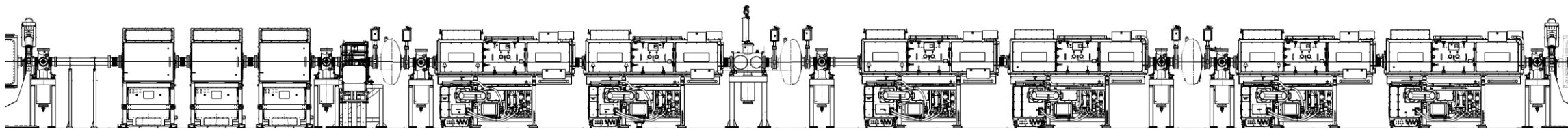
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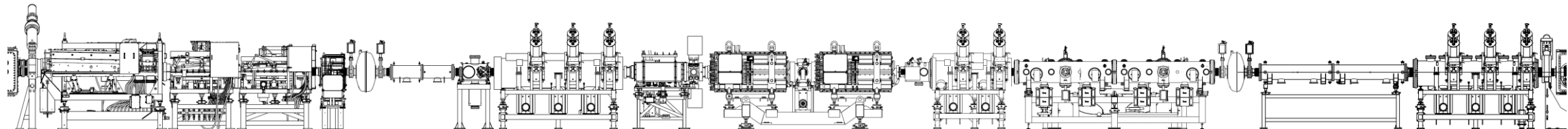
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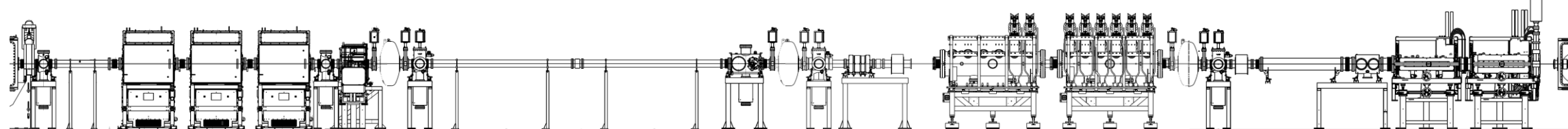
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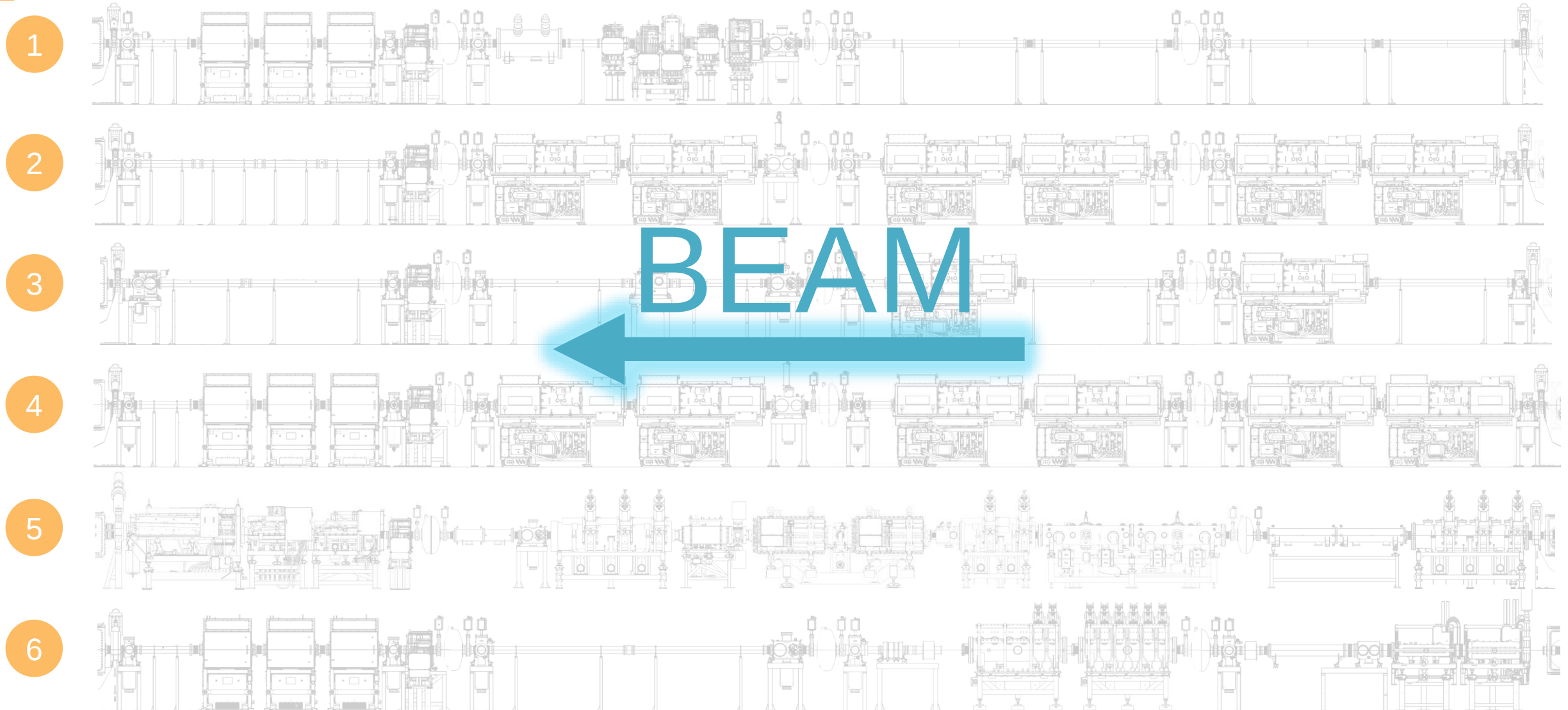
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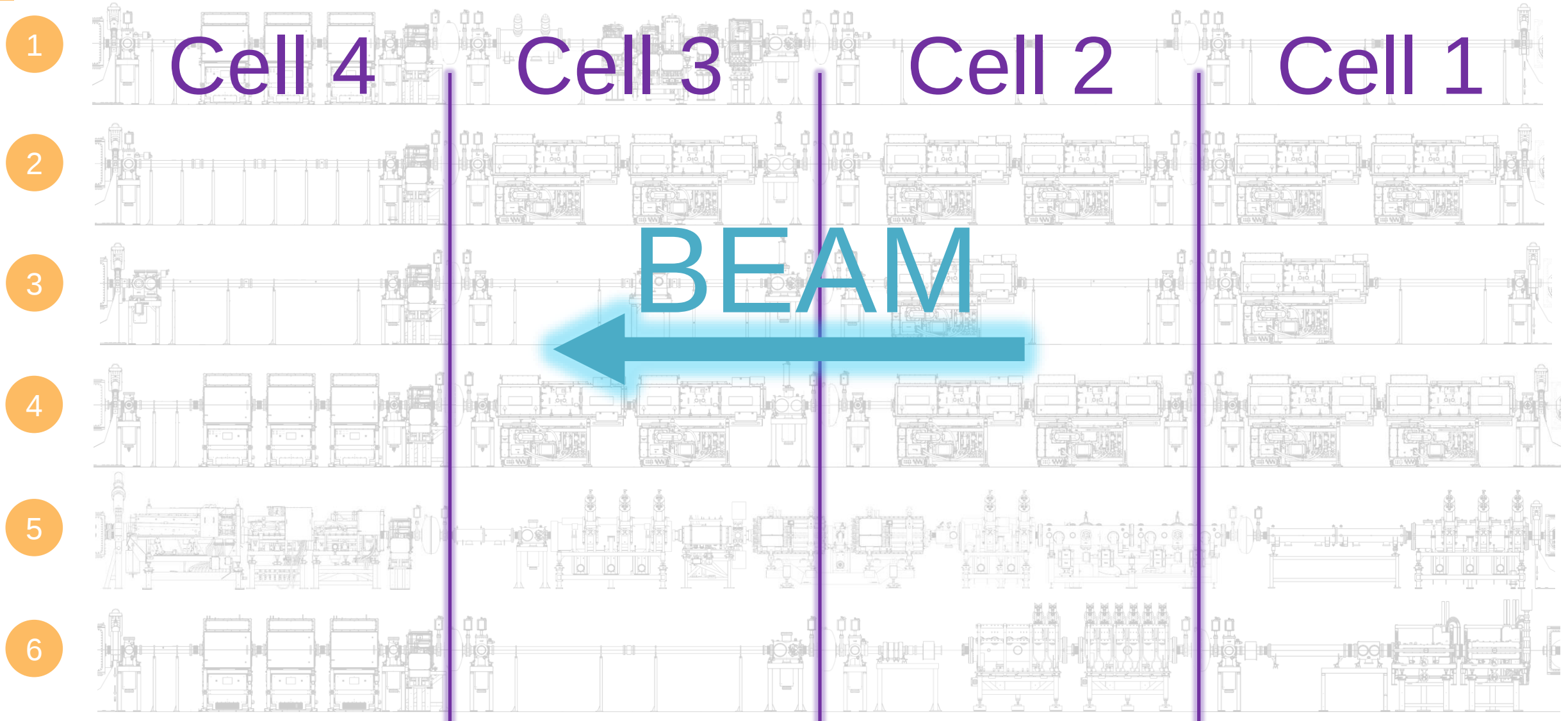
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SIS100 RT UHV System – Overview

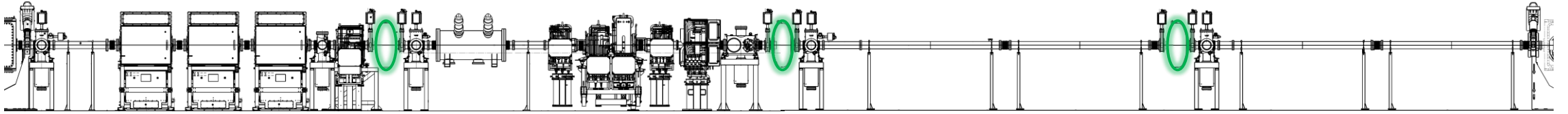


SIS100 RT UHV System – Overview

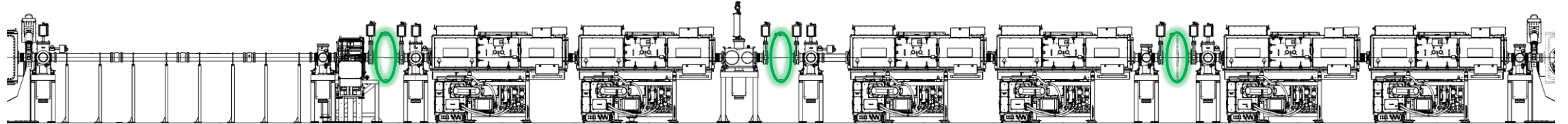


SIS100 RT UHV System – Overview

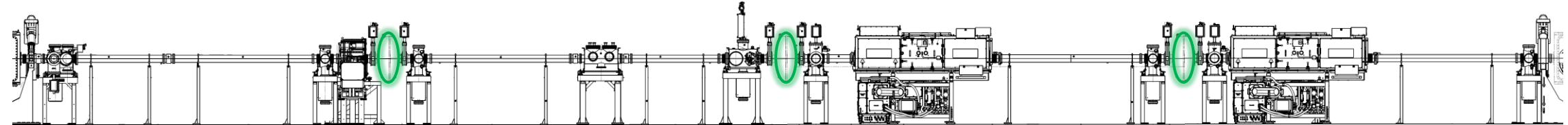
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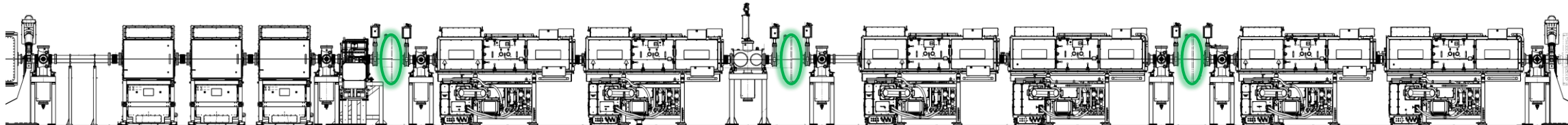
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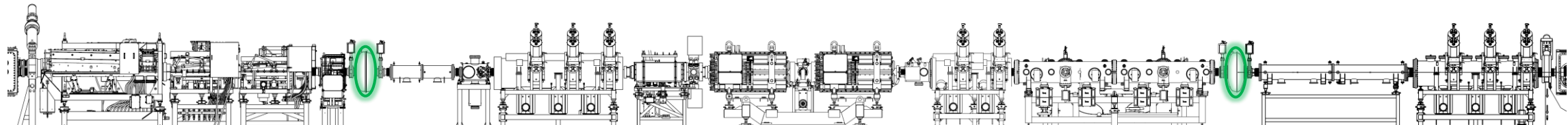
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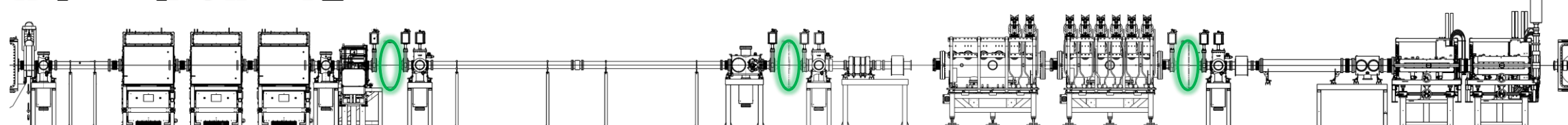
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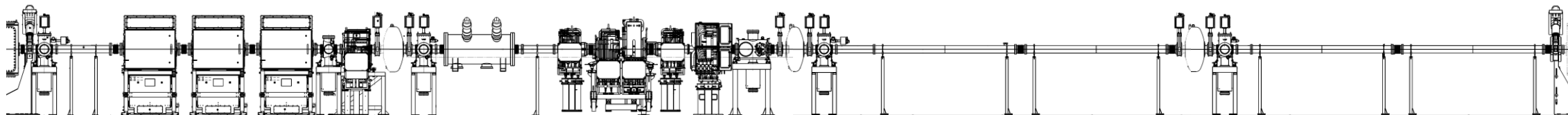


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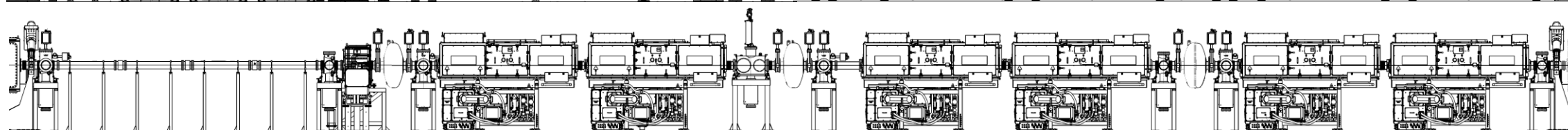


SIS100 RT UHV System – Overview

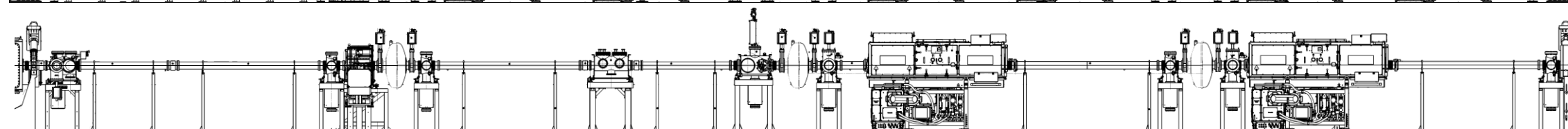
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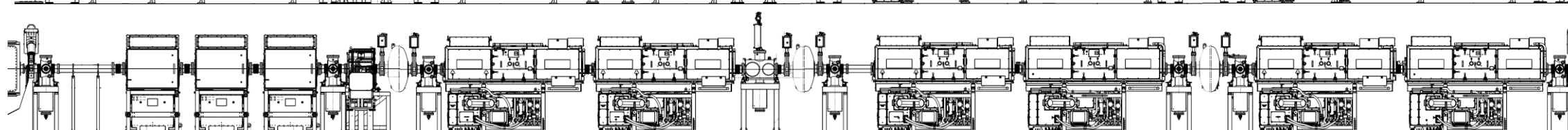
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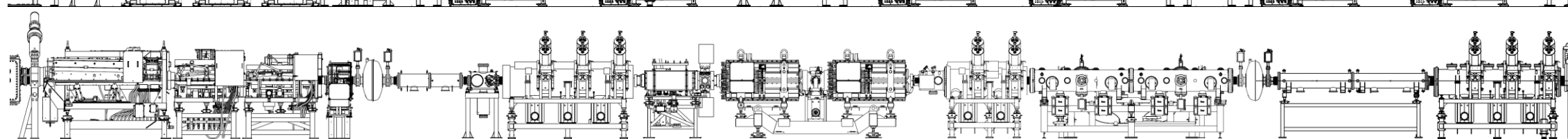
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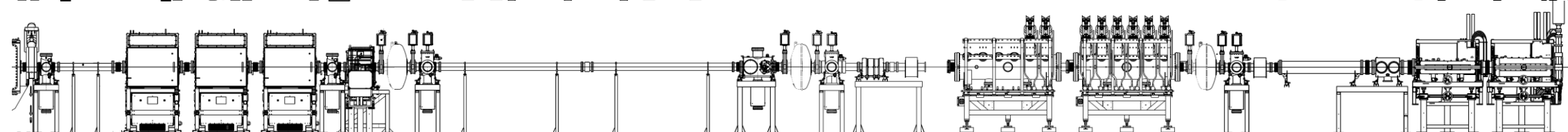
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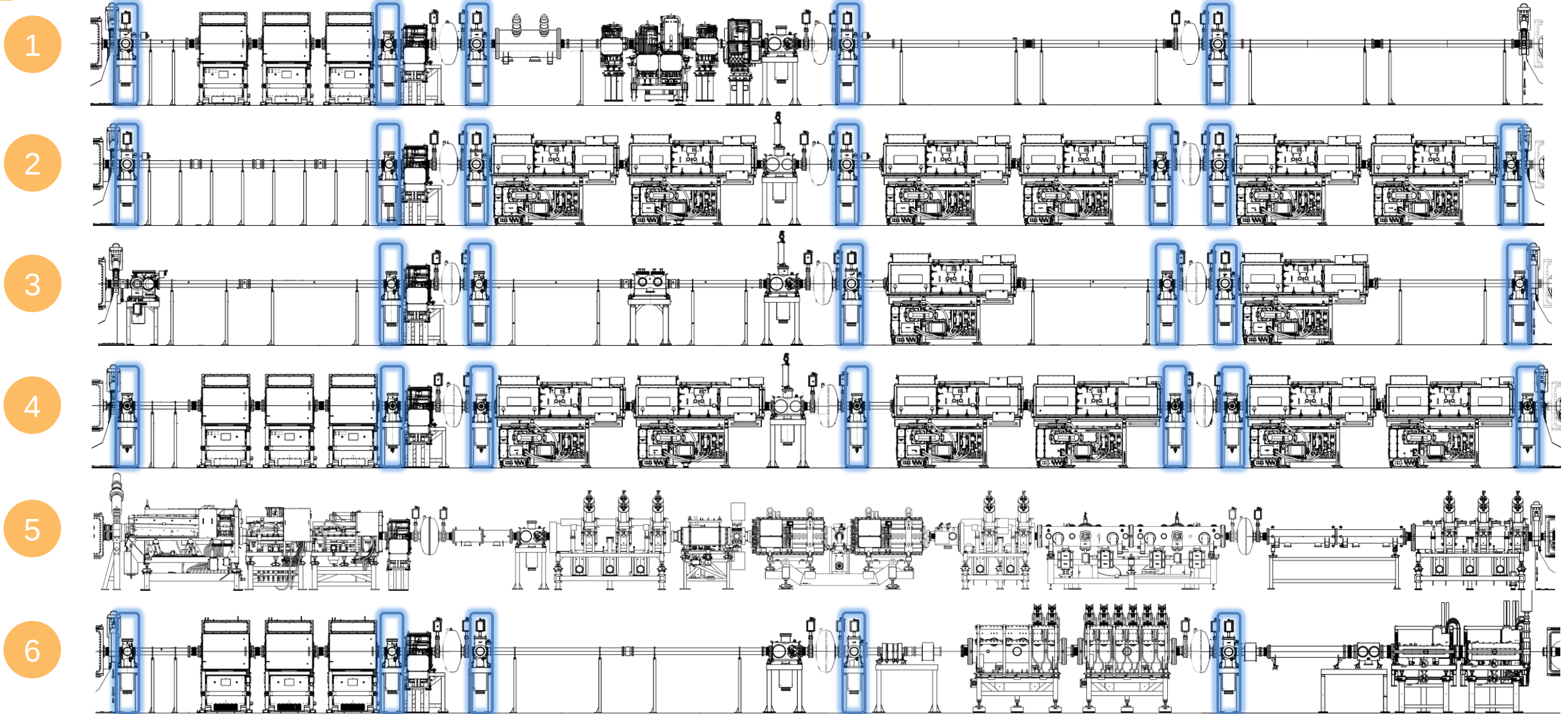
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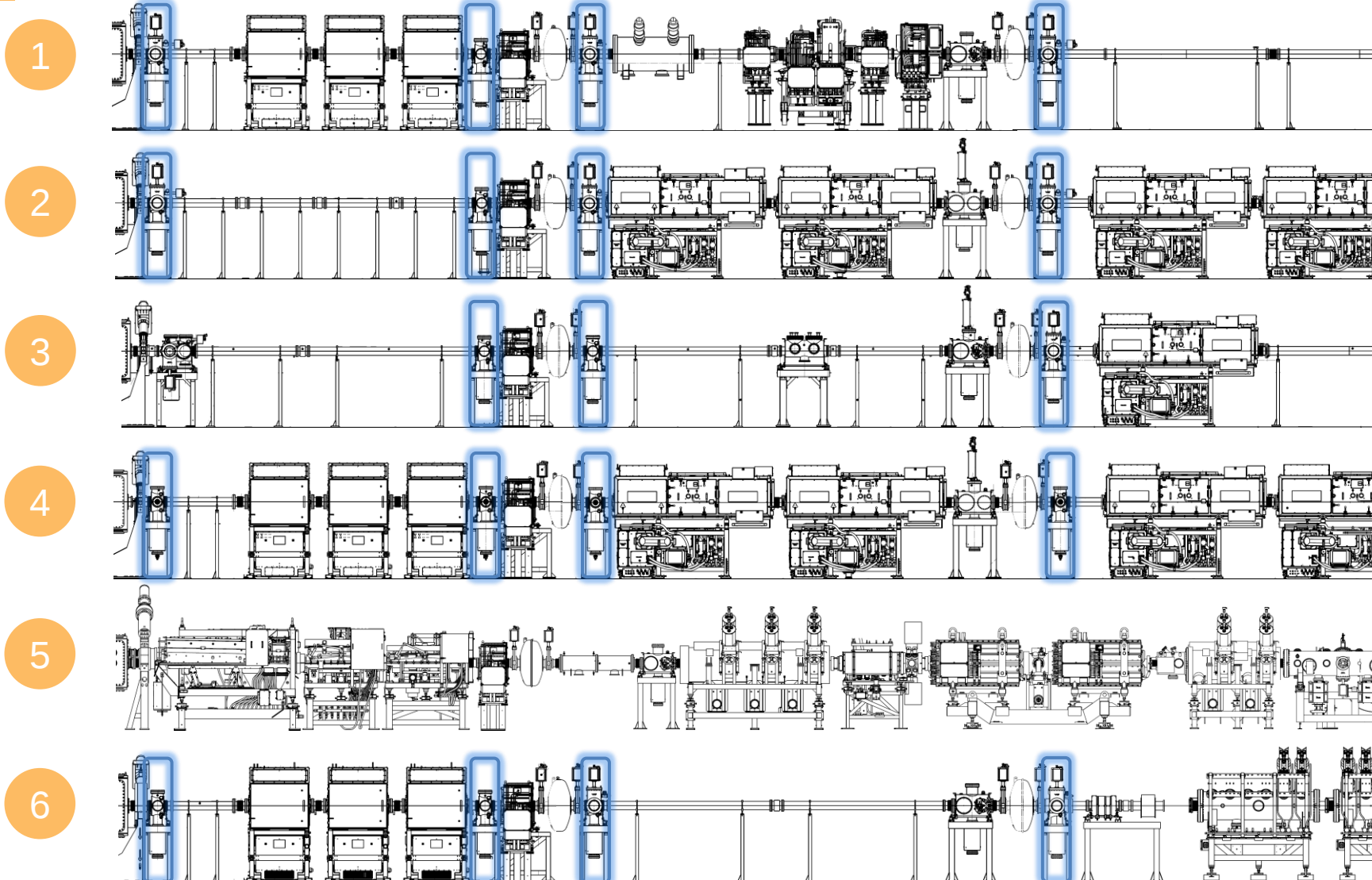
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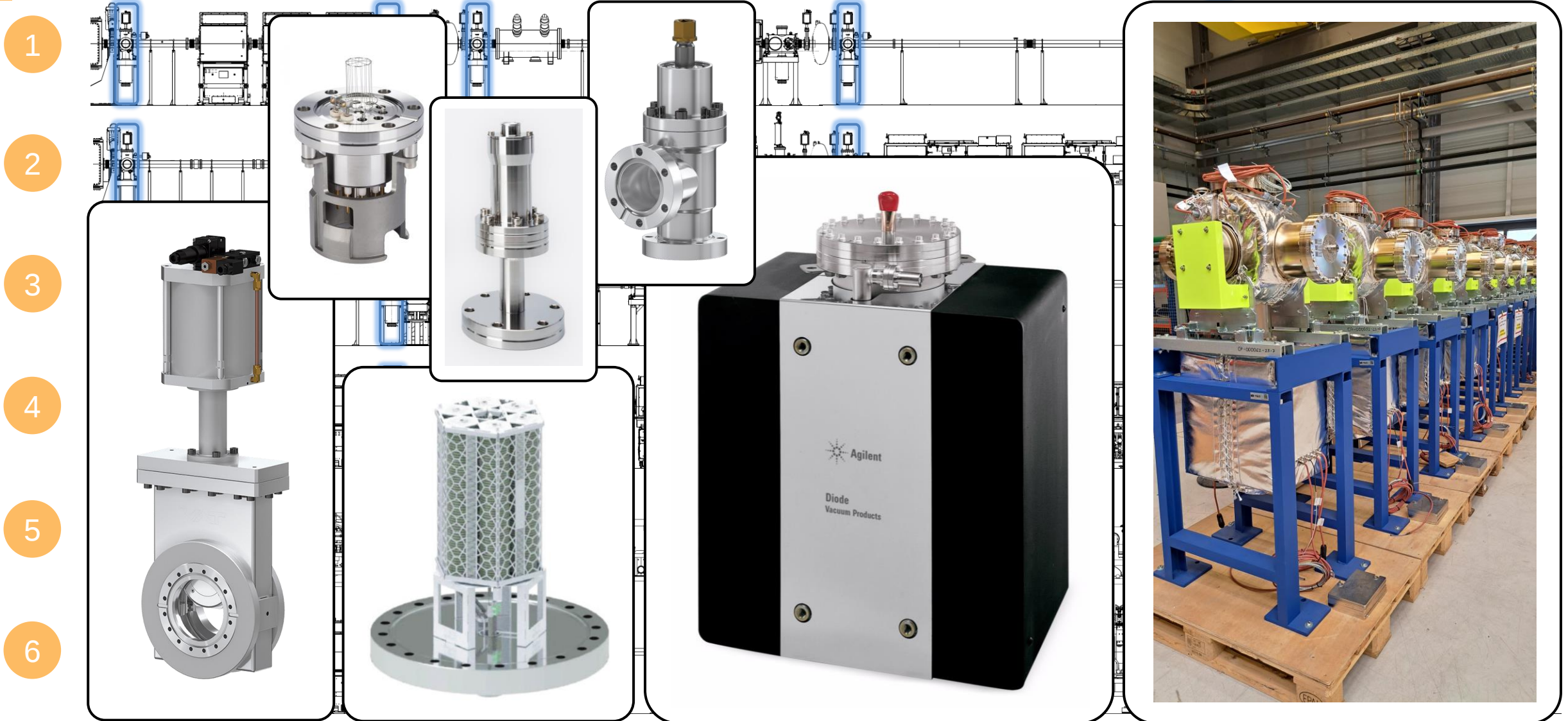
Standard Pumping Chambers – 31x (VA-TEC)



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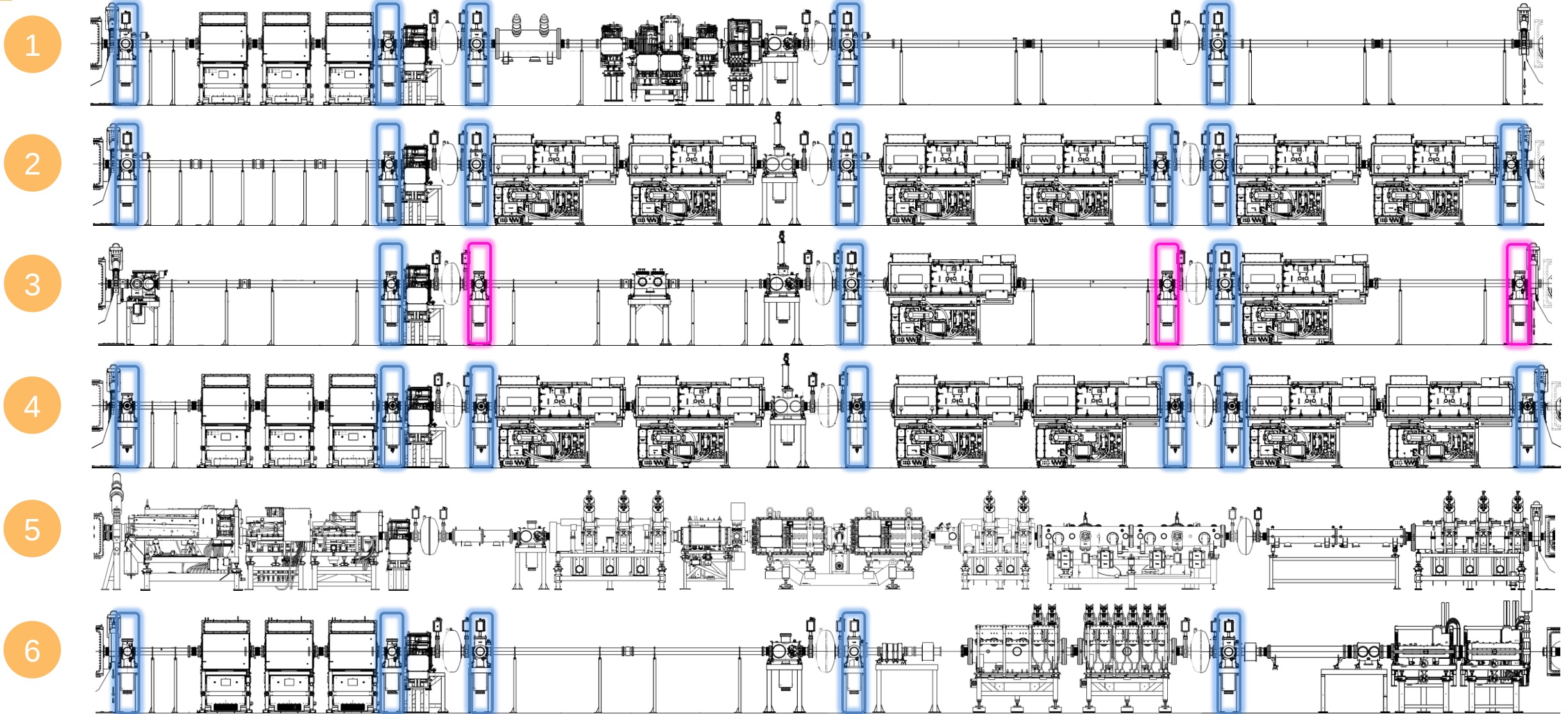


Standard Pumping Chambers – 31x (VA-TEC)



3 of those will become Laser-Chambers (D. Winters)

Standard Pumping Chambers – 31x (VA-TEC)

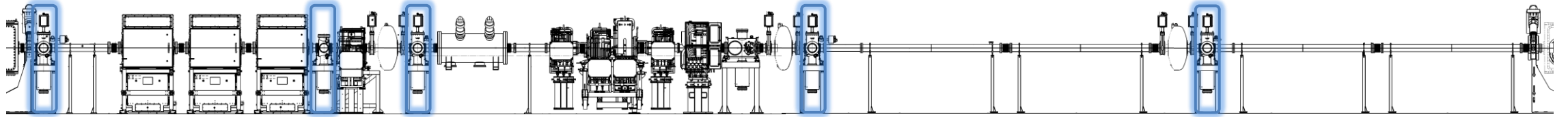


Installation status

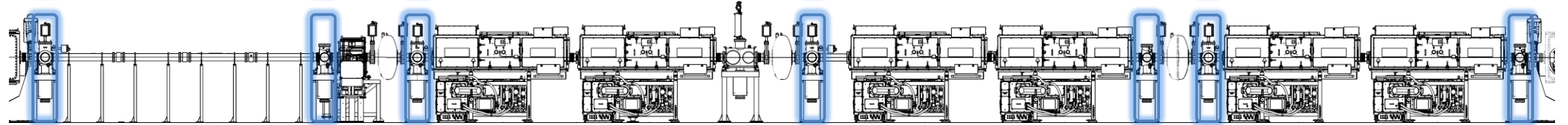
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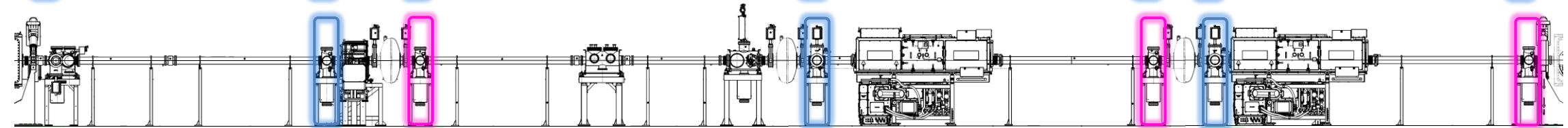
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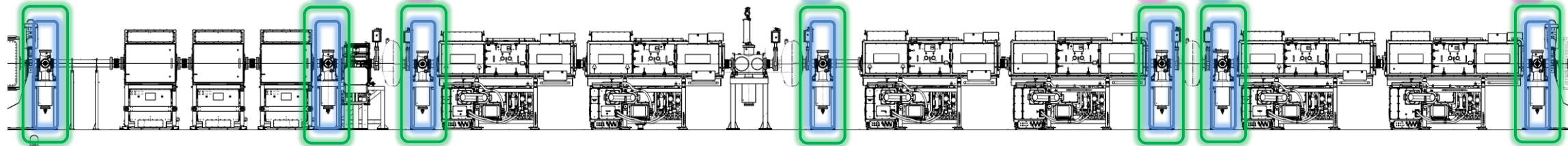
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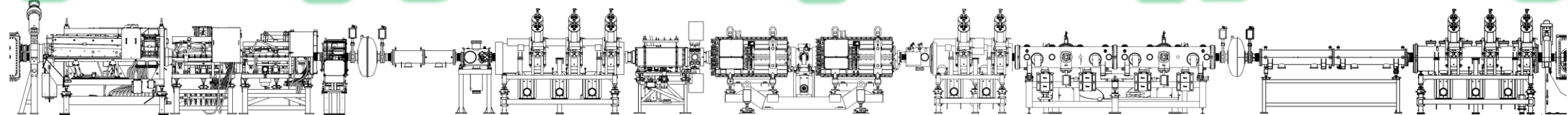
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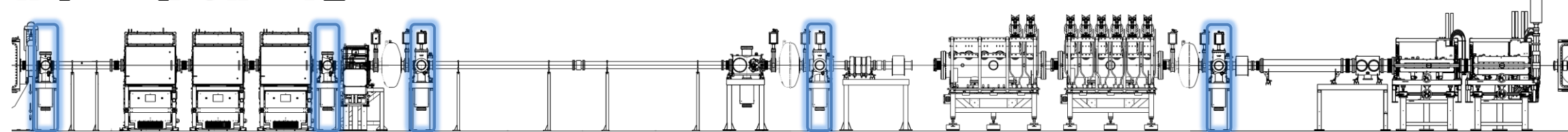
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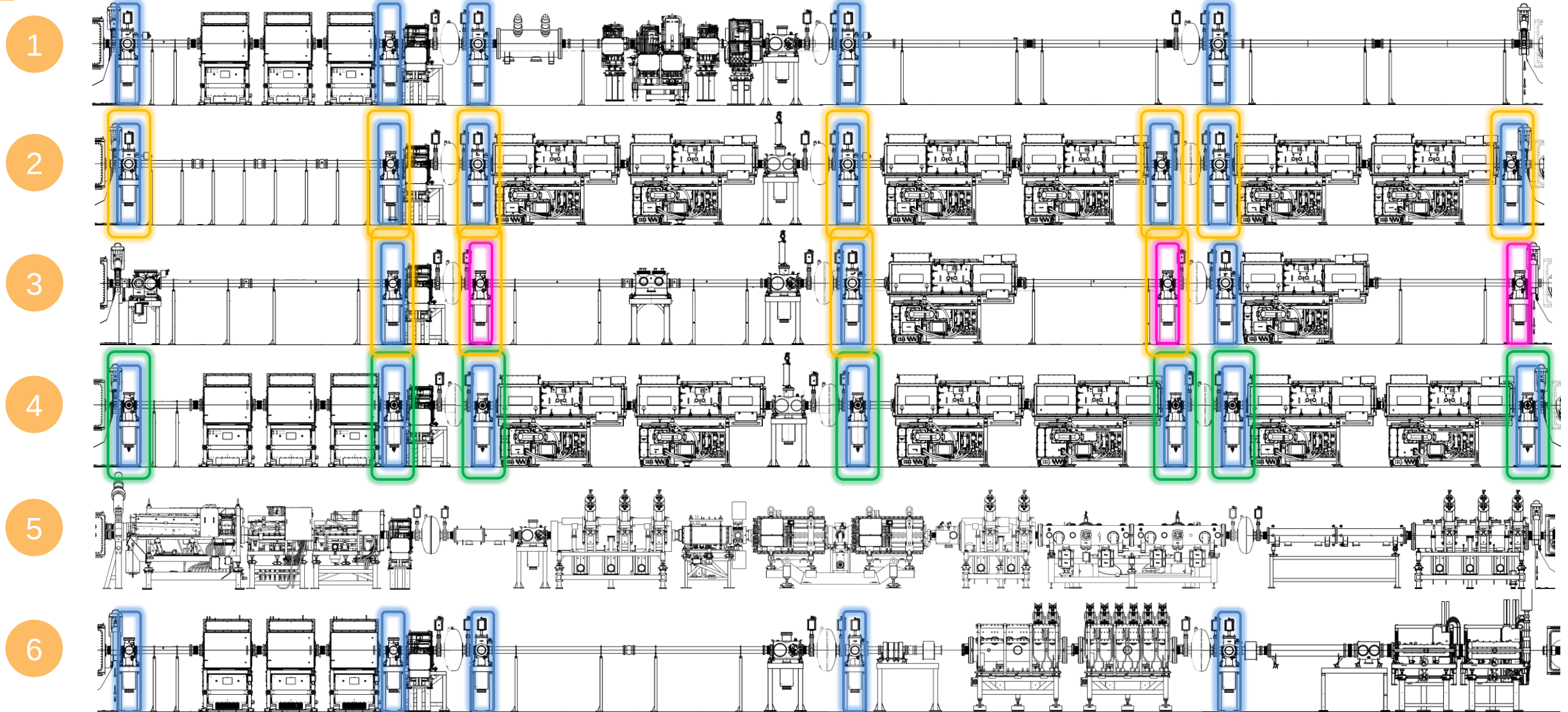


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Installation status

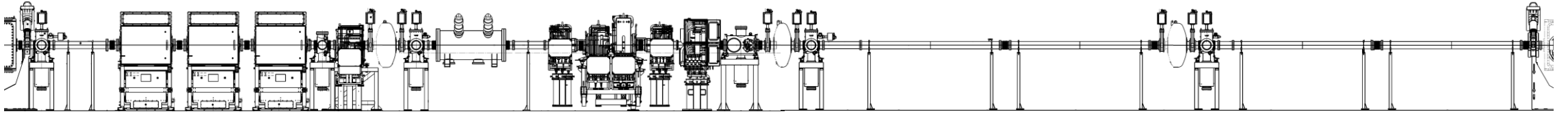
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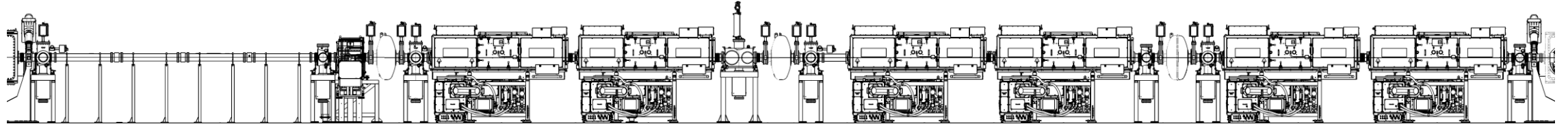
Sector valves – 34x VAT Gate-Valves DN160CF



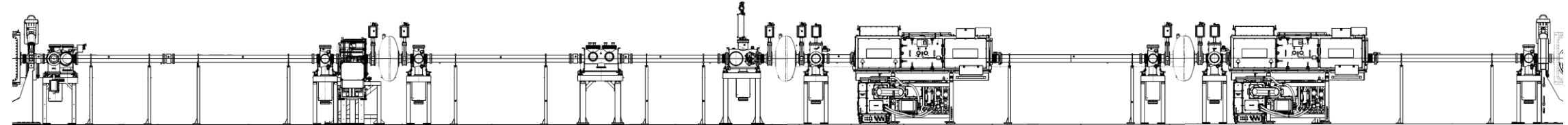
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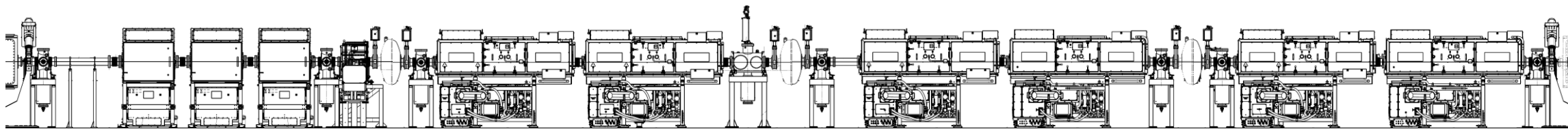
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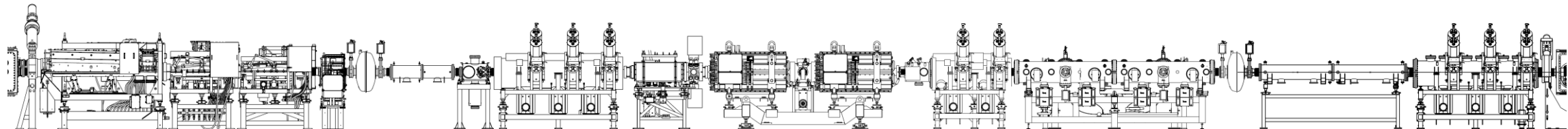
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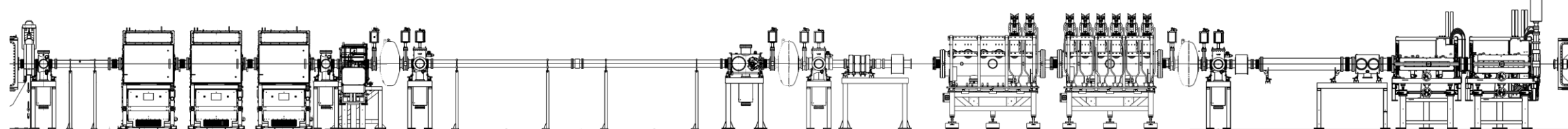
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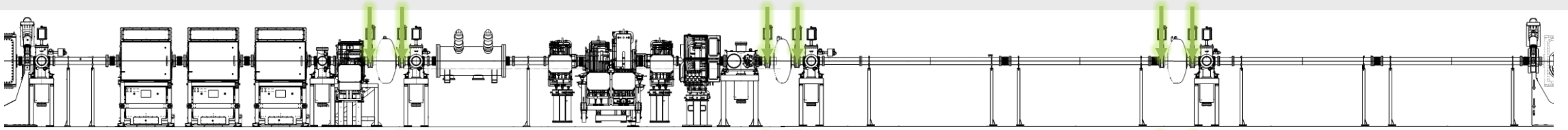
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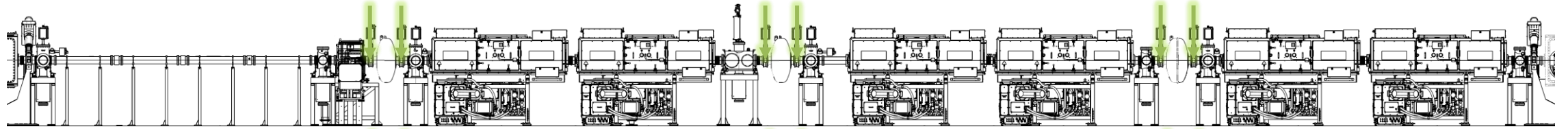
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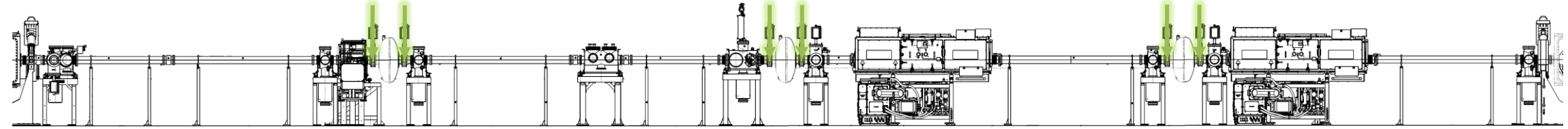
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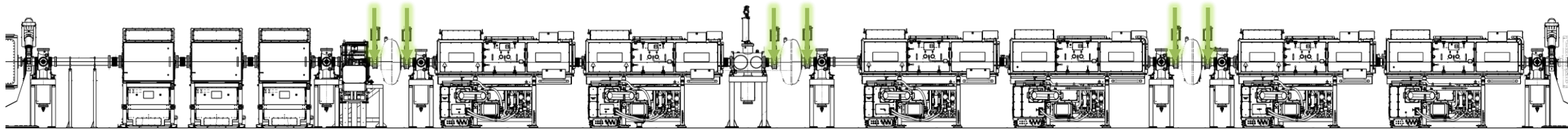
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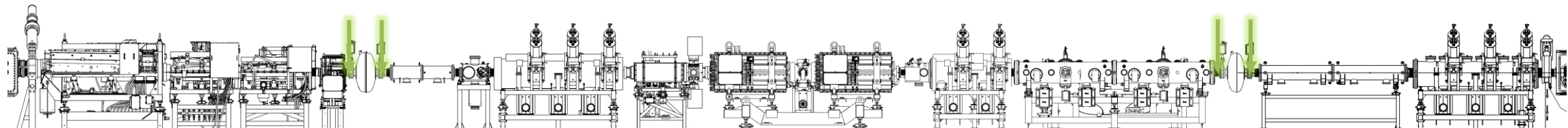
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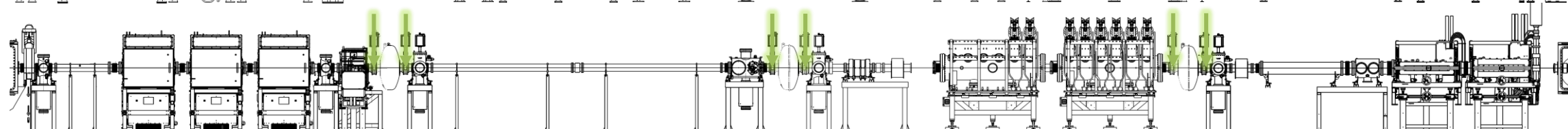
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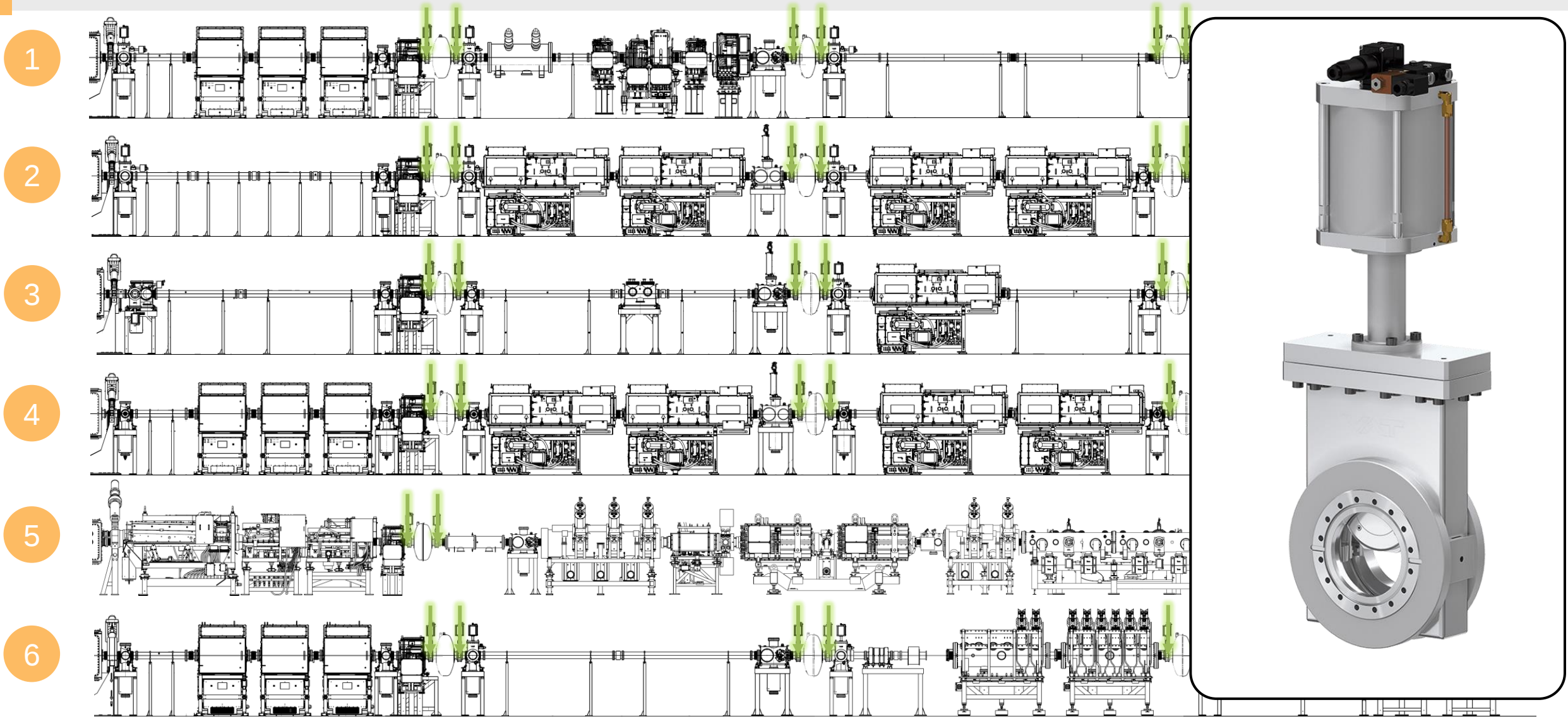
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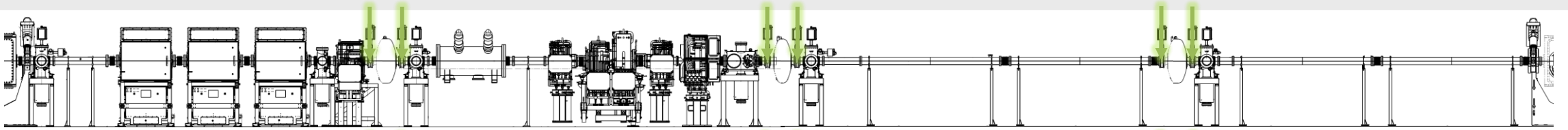
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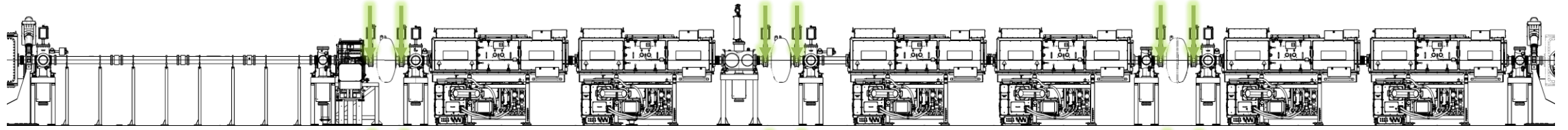
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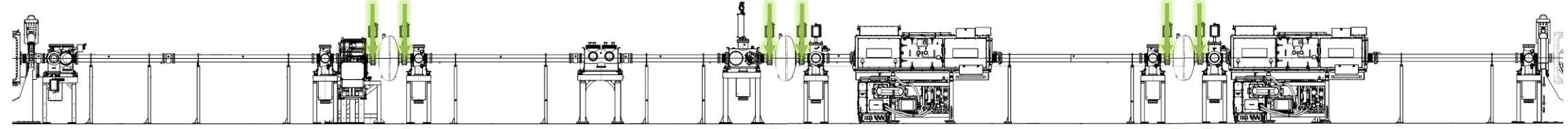
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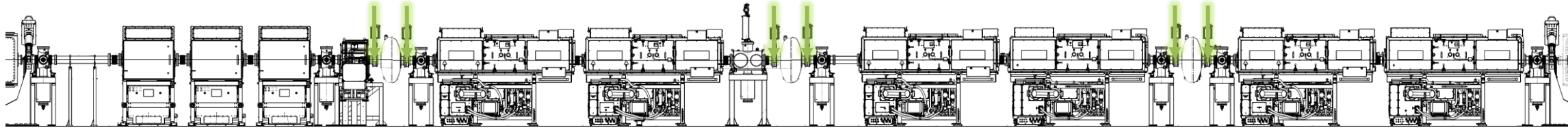
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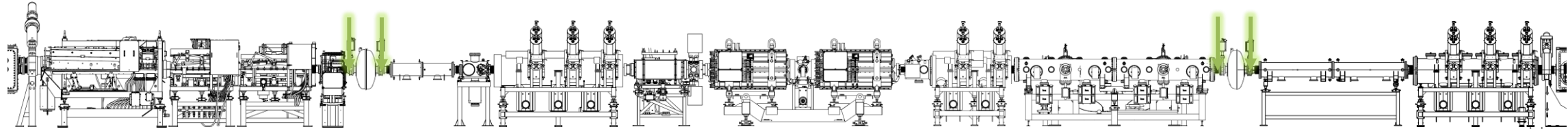
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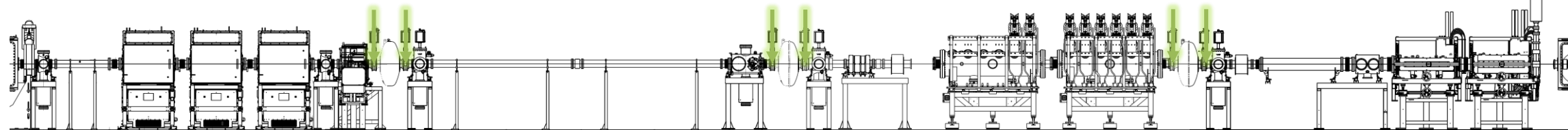
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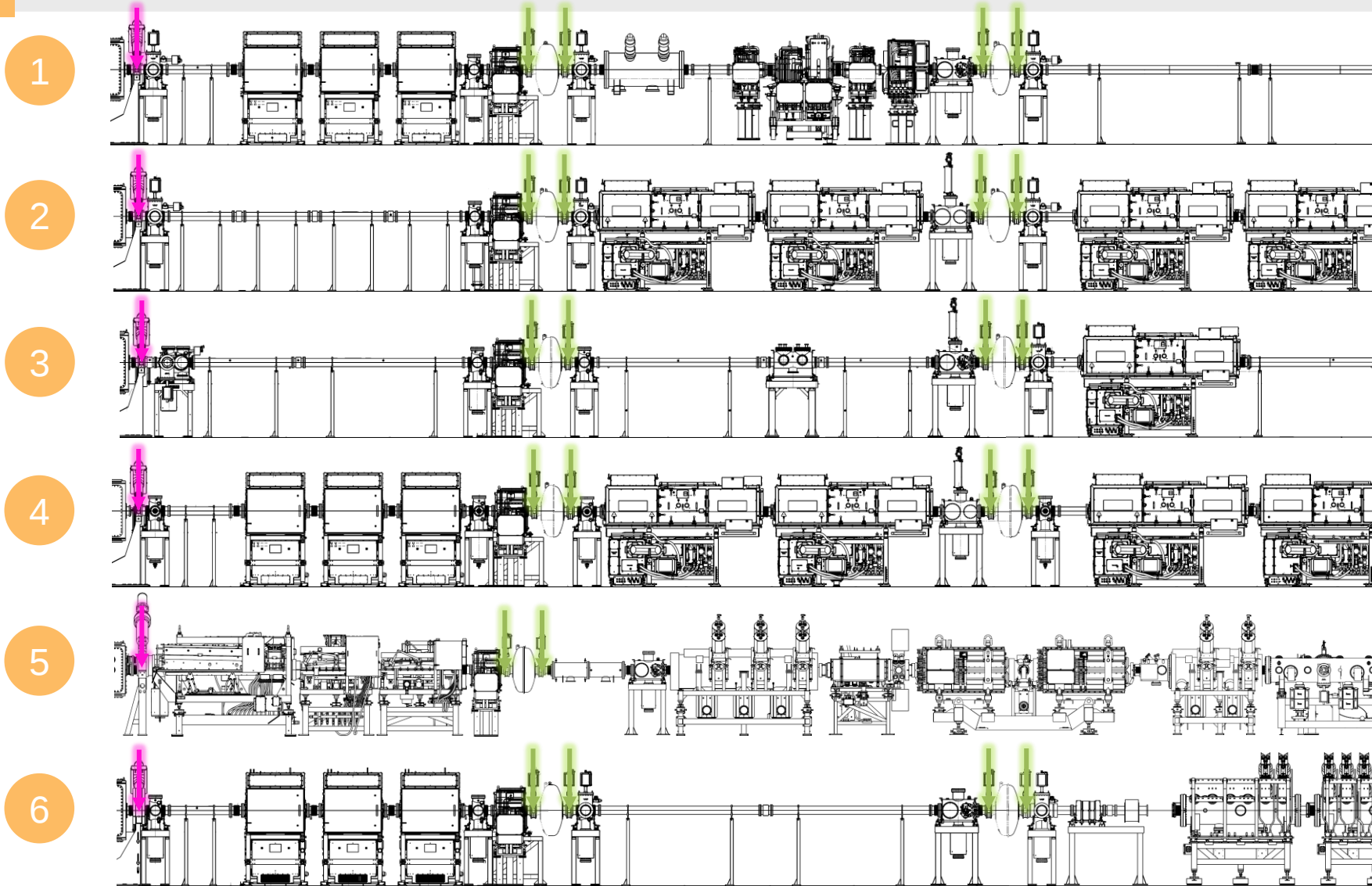
Sector valves – Fast Valves from VSE

Sector valves – 34x VAT Gate-Valves DN160CF



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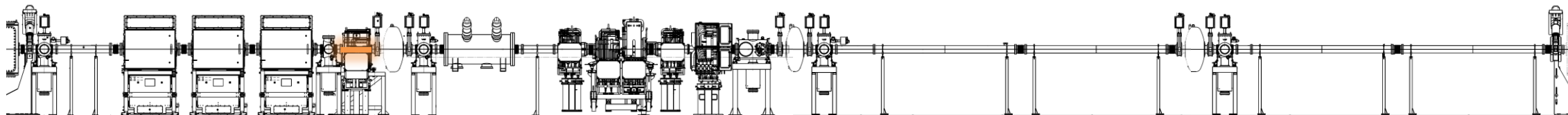
Sector valves – Fast Valves from VSE

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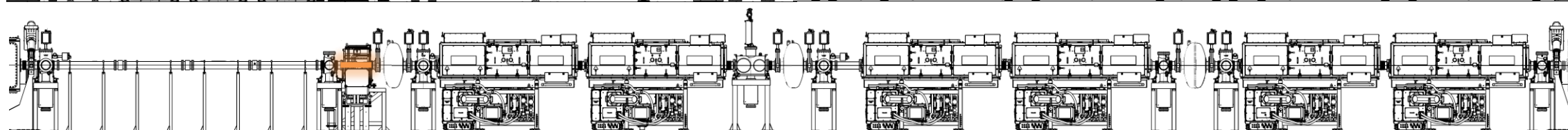


Resonance sextupole vacuum chambers

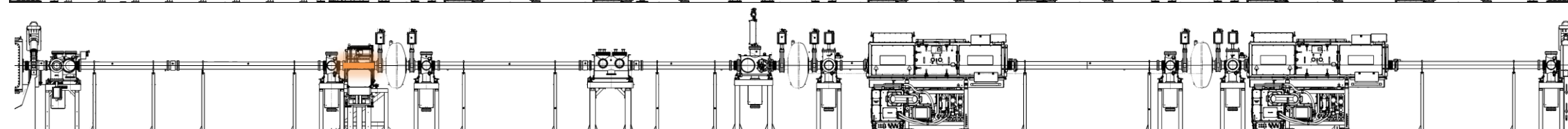
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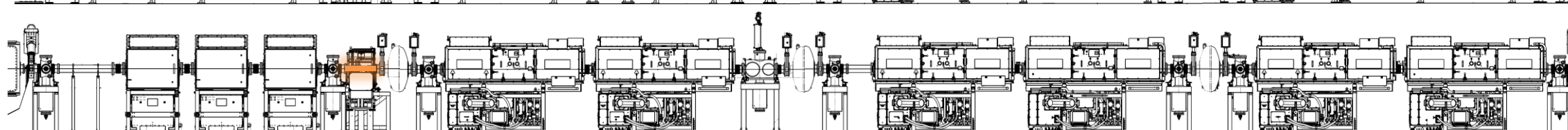
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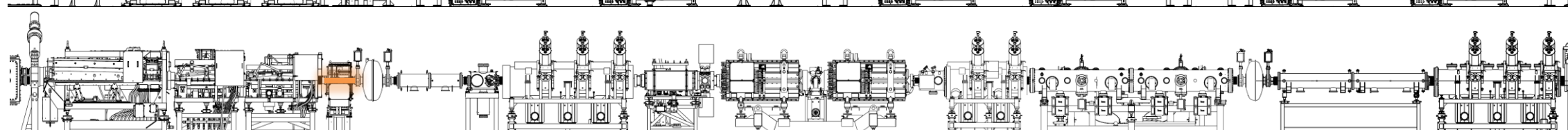
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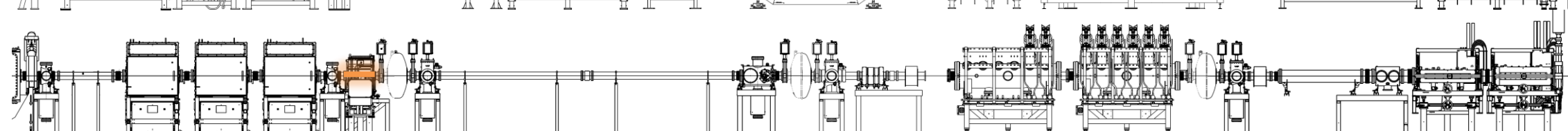
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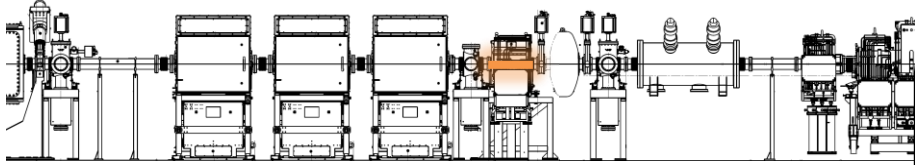


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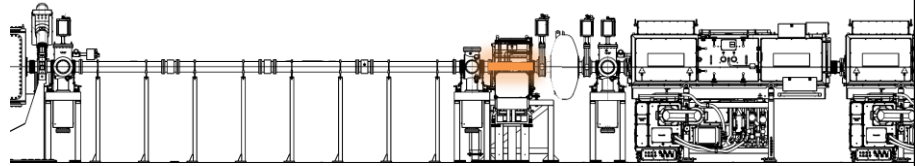


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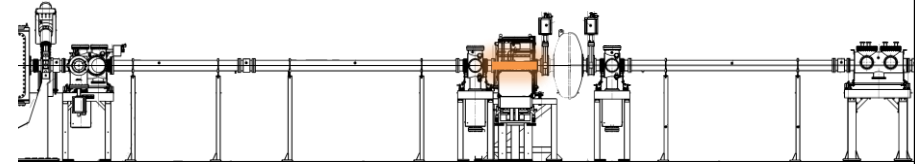
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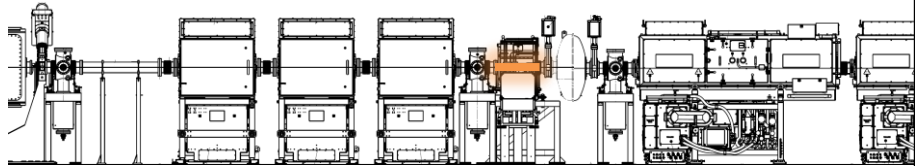
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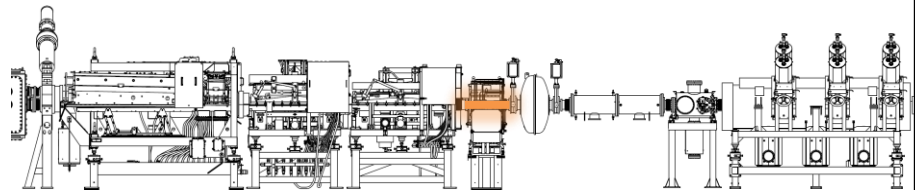
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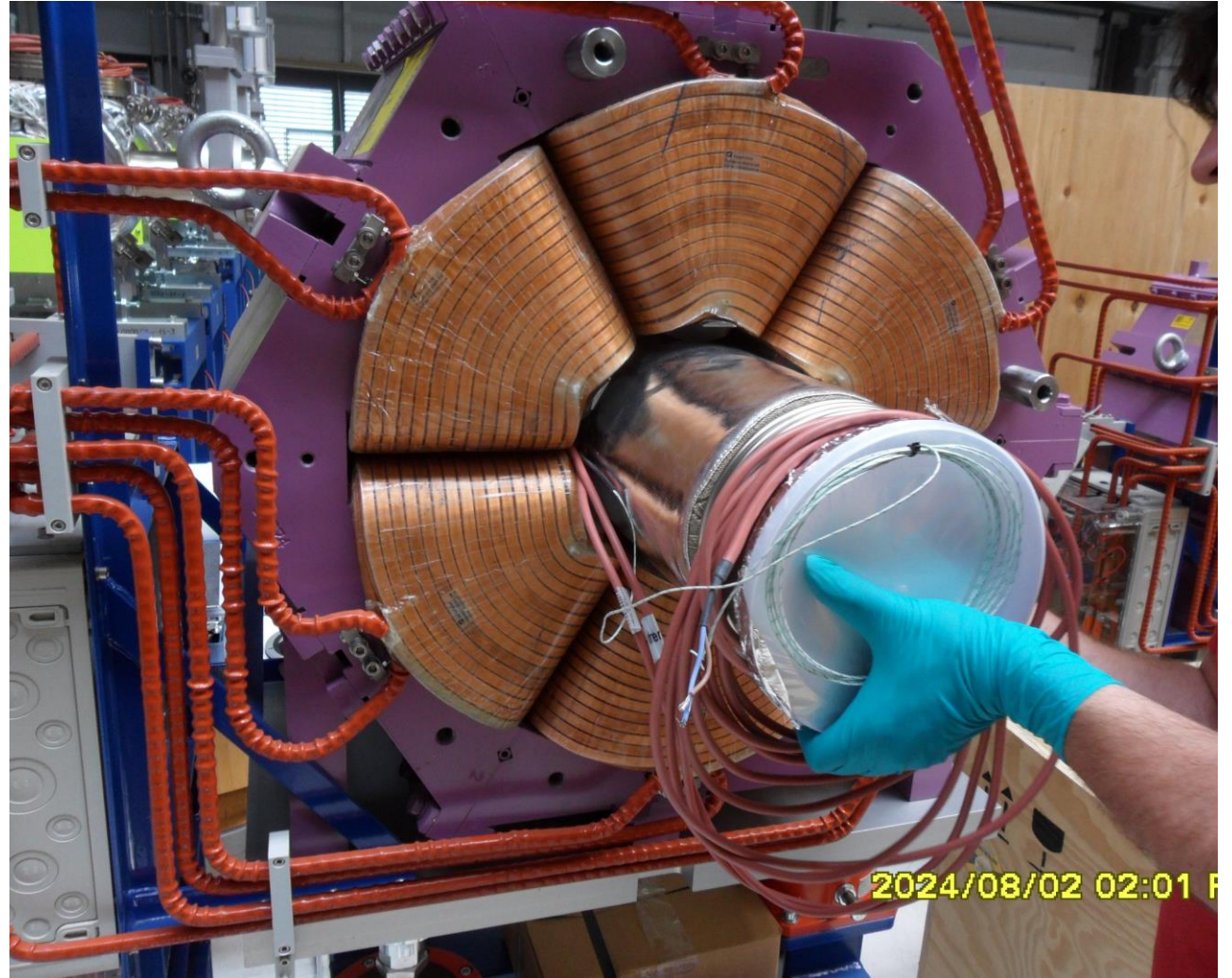
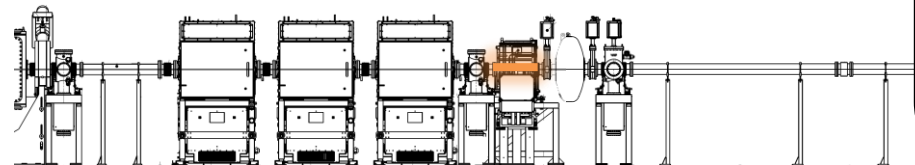
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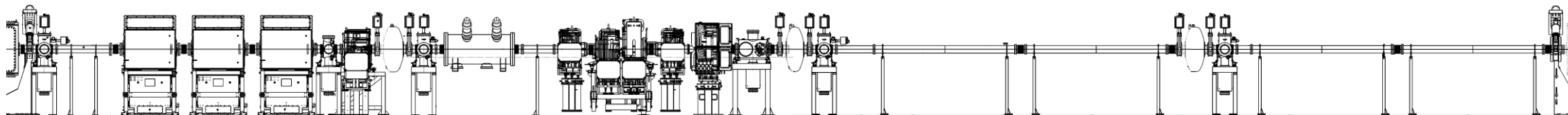


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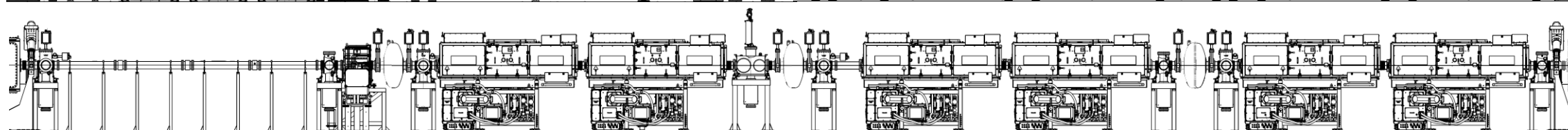
Straight tubes, bellows and adapters – SRV



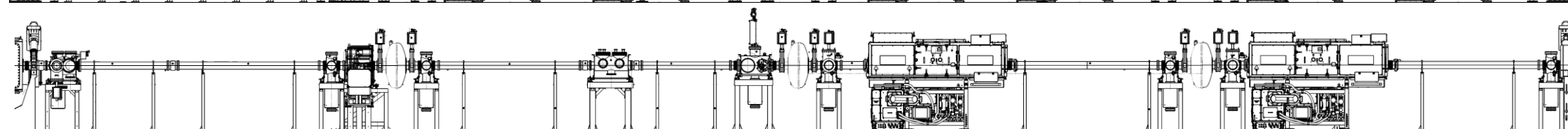
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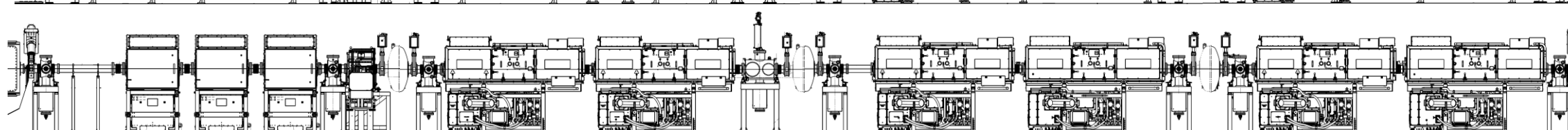
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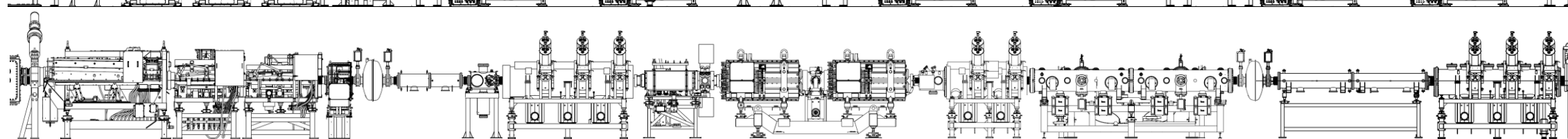
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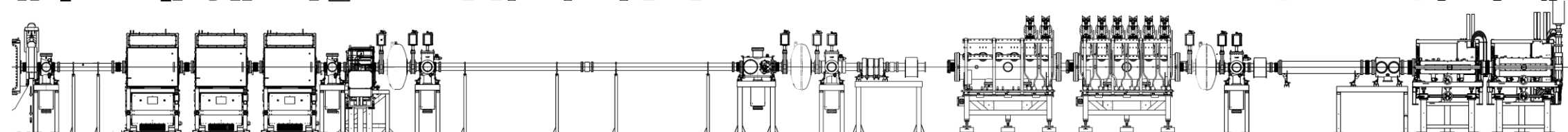
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Straight tubes, bellows and adapters – SRV

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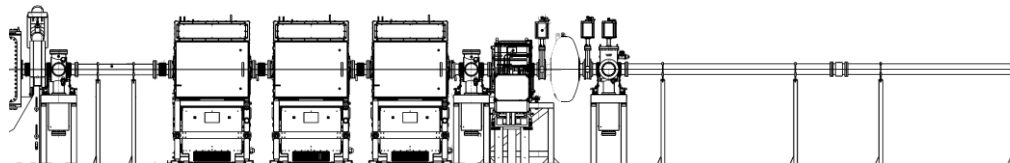
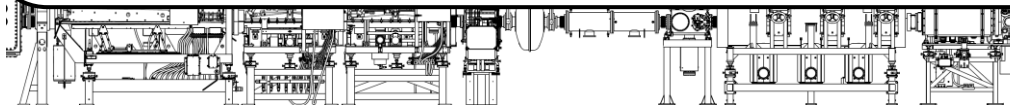
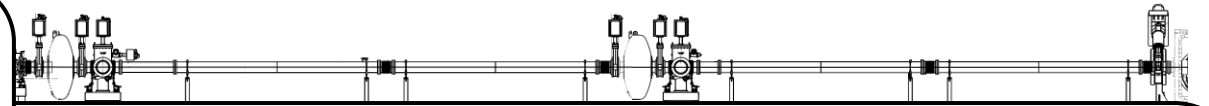
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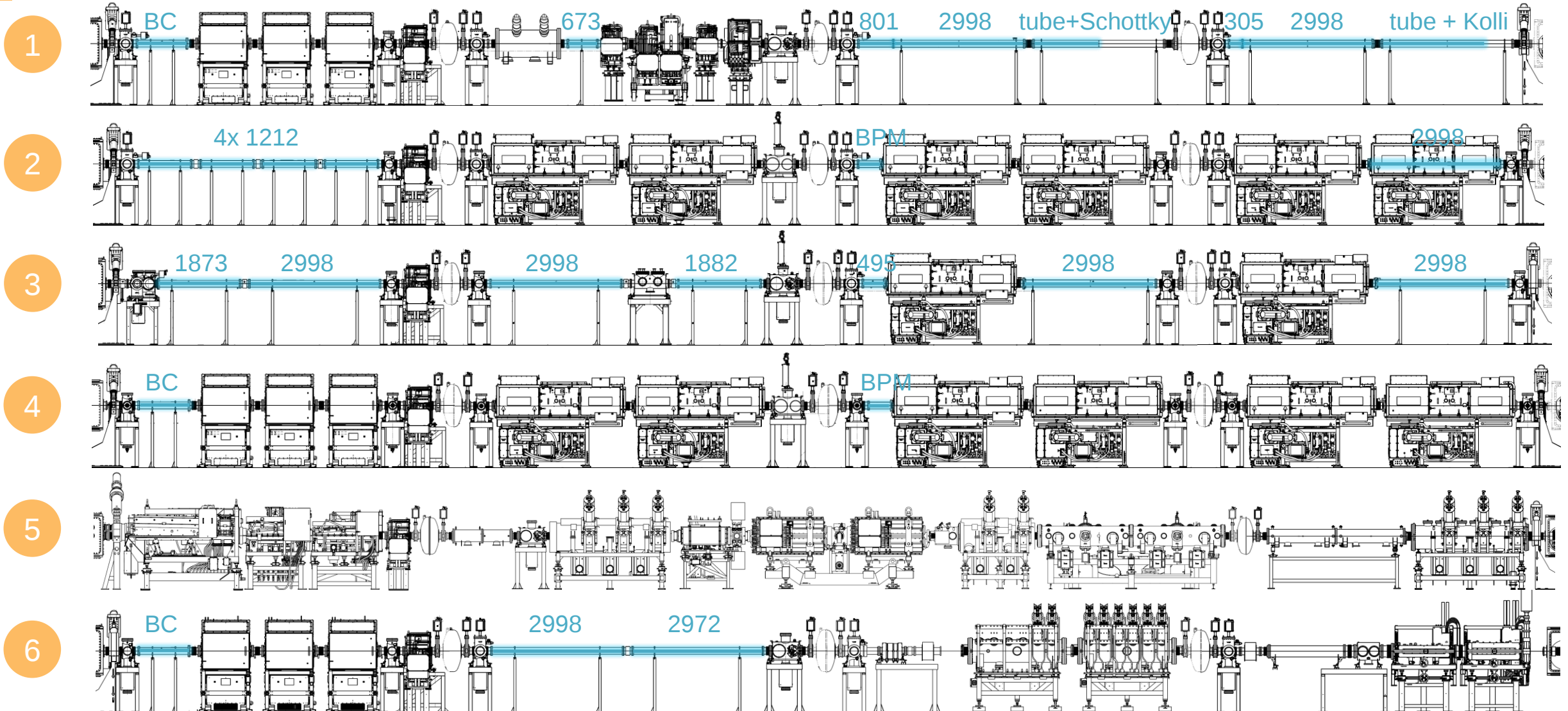
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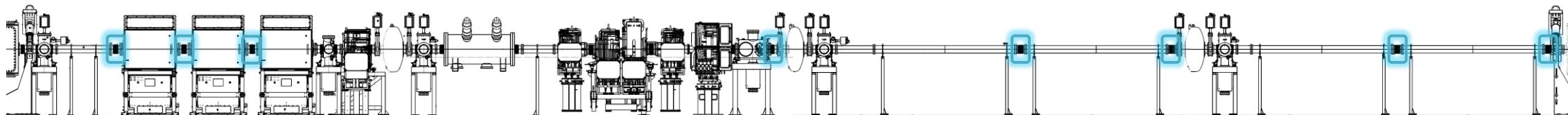


Straight tubes, bellows and adapters – SRV

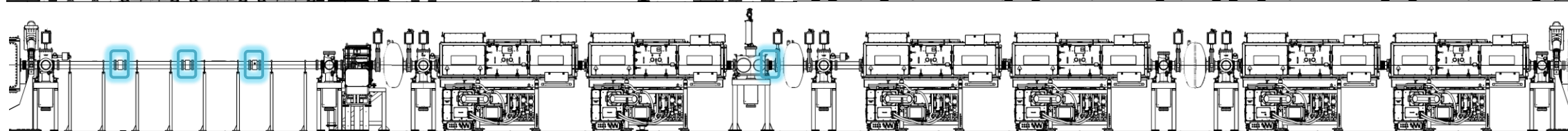


Straight tubes, bellows and adapters – SRV

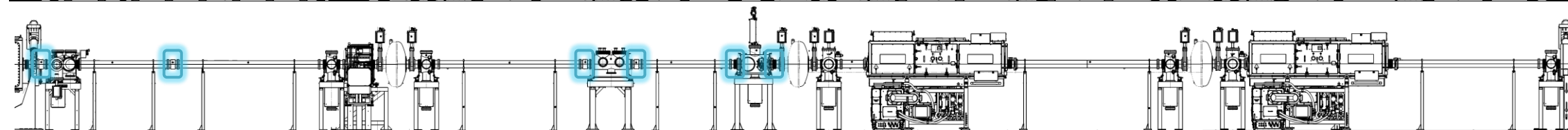
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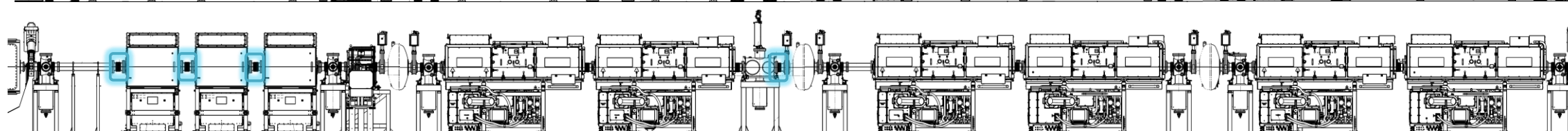
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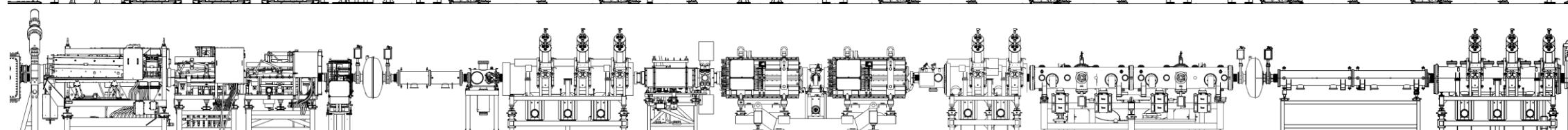
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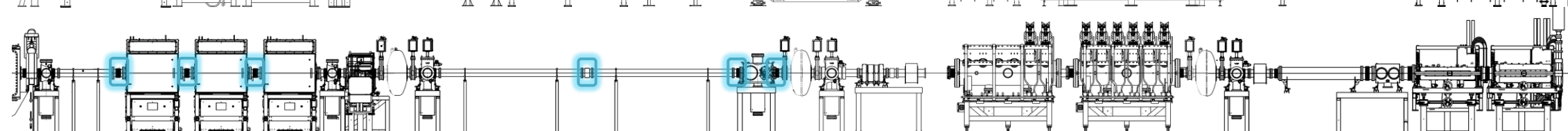
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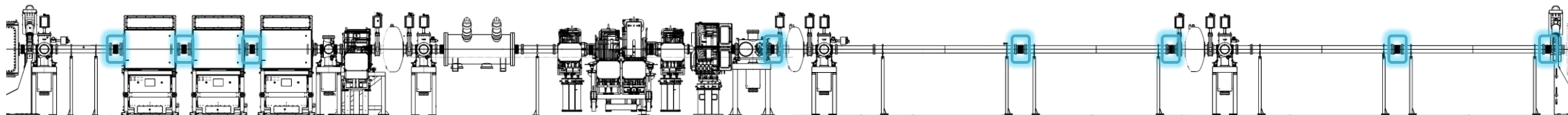


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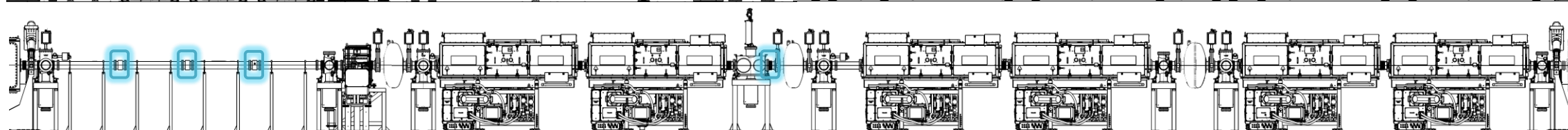


Straight tubes, bellows and adapters – SRV

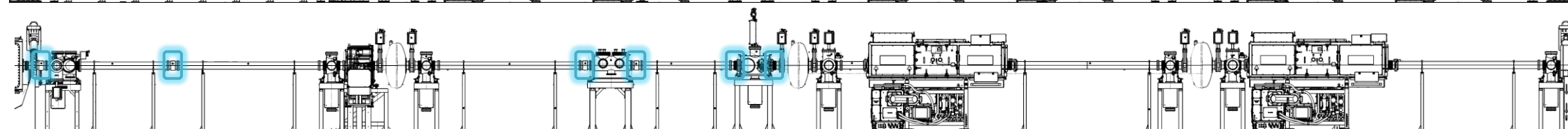
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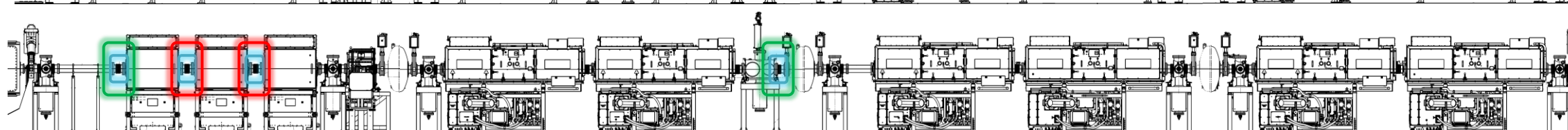
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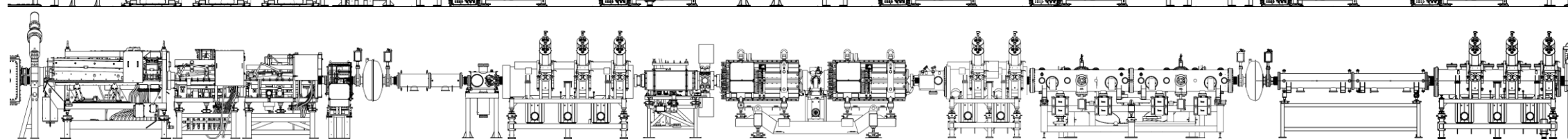
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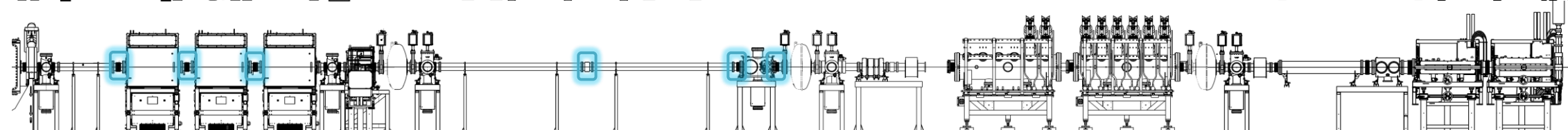
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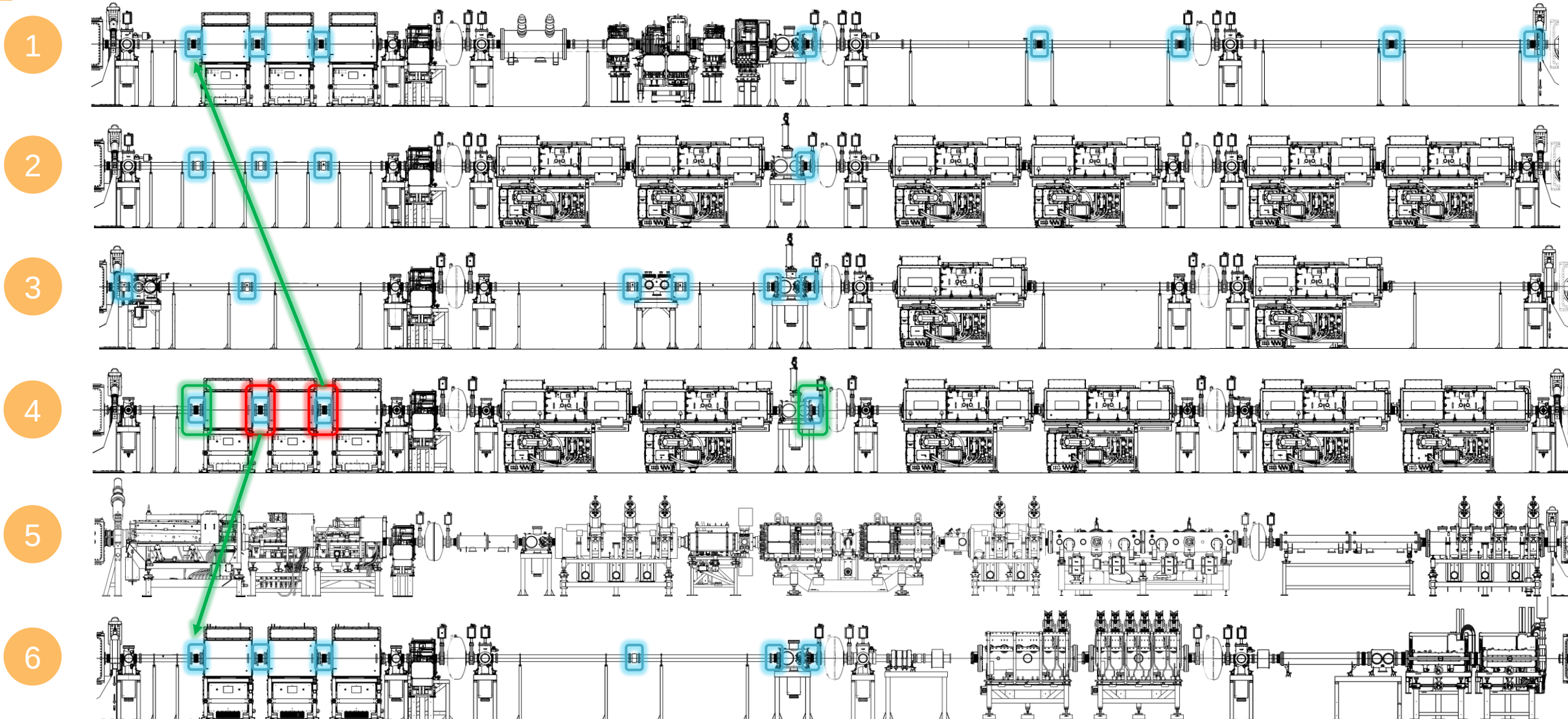
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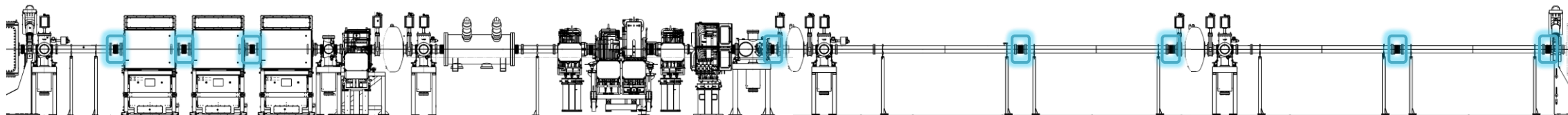


Straight tubes, bellows and adapters – SRV

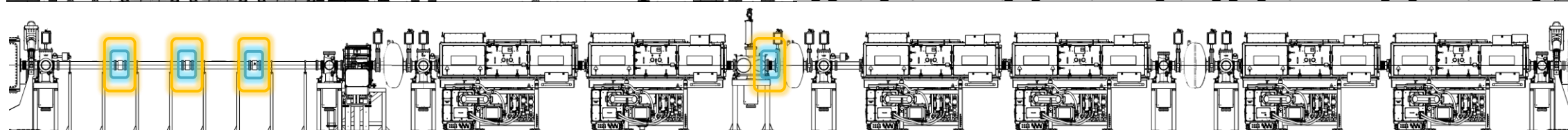


Straight tubes, bellows and adapters – SRV

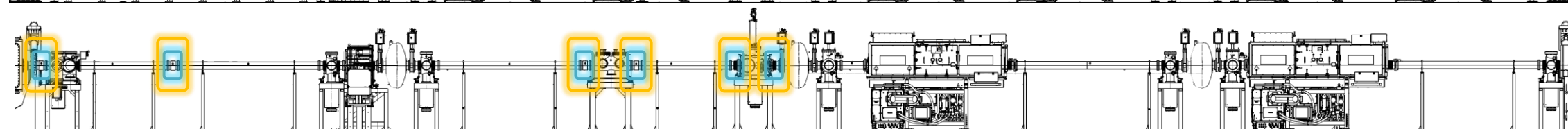
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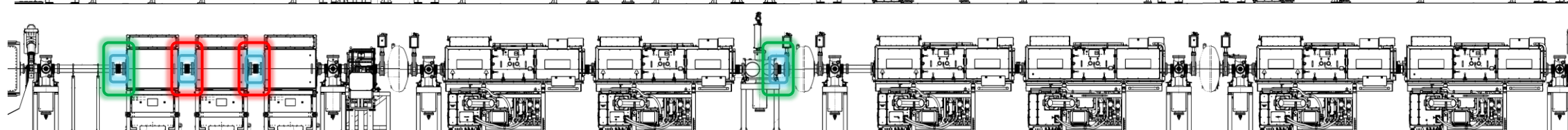
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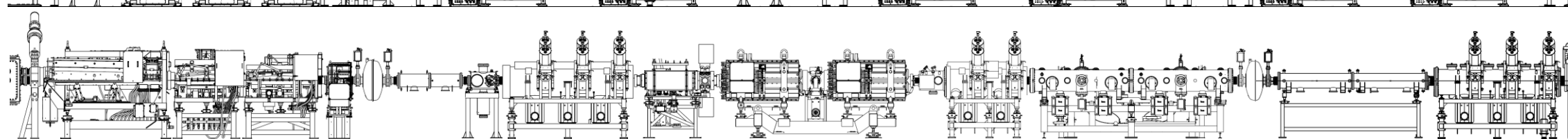
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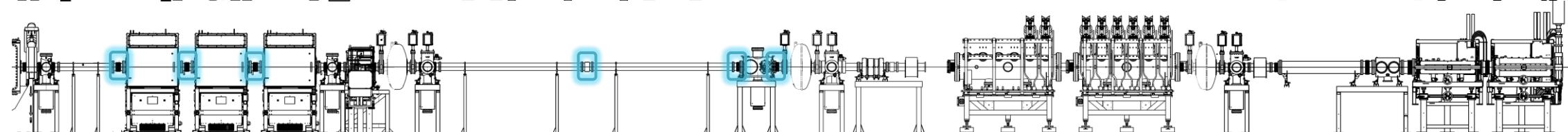
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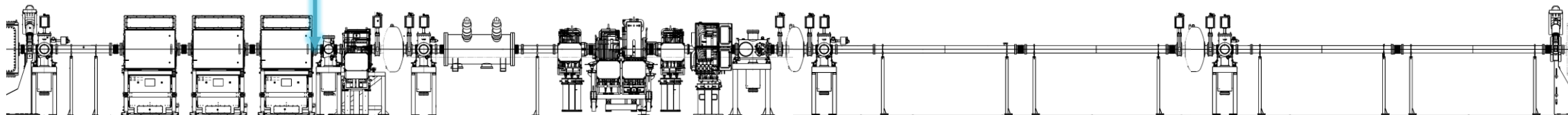


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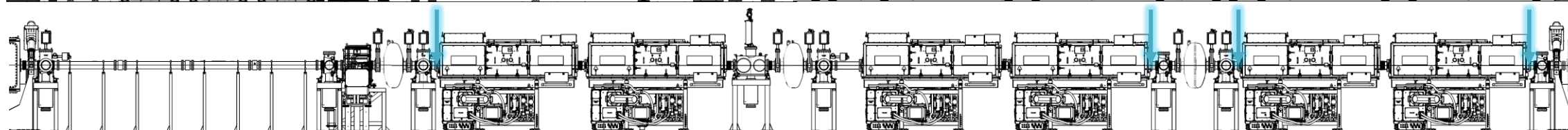


Straight tubes, bellows and adapters – SRV

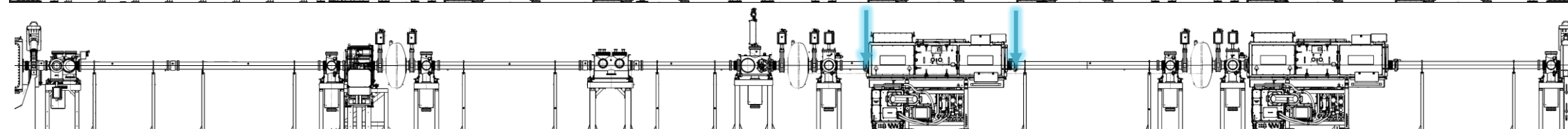
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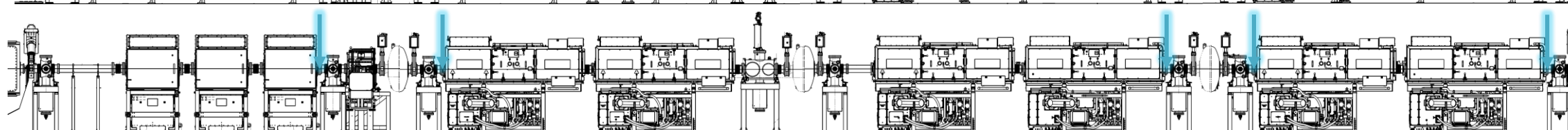
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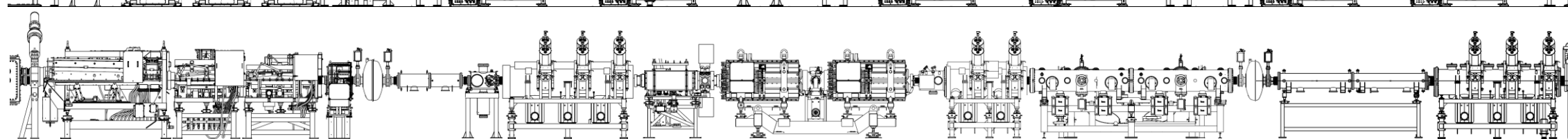
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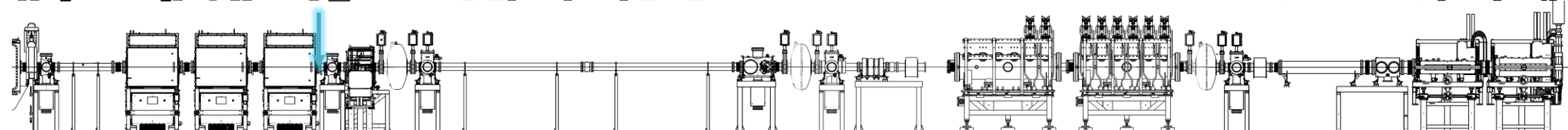
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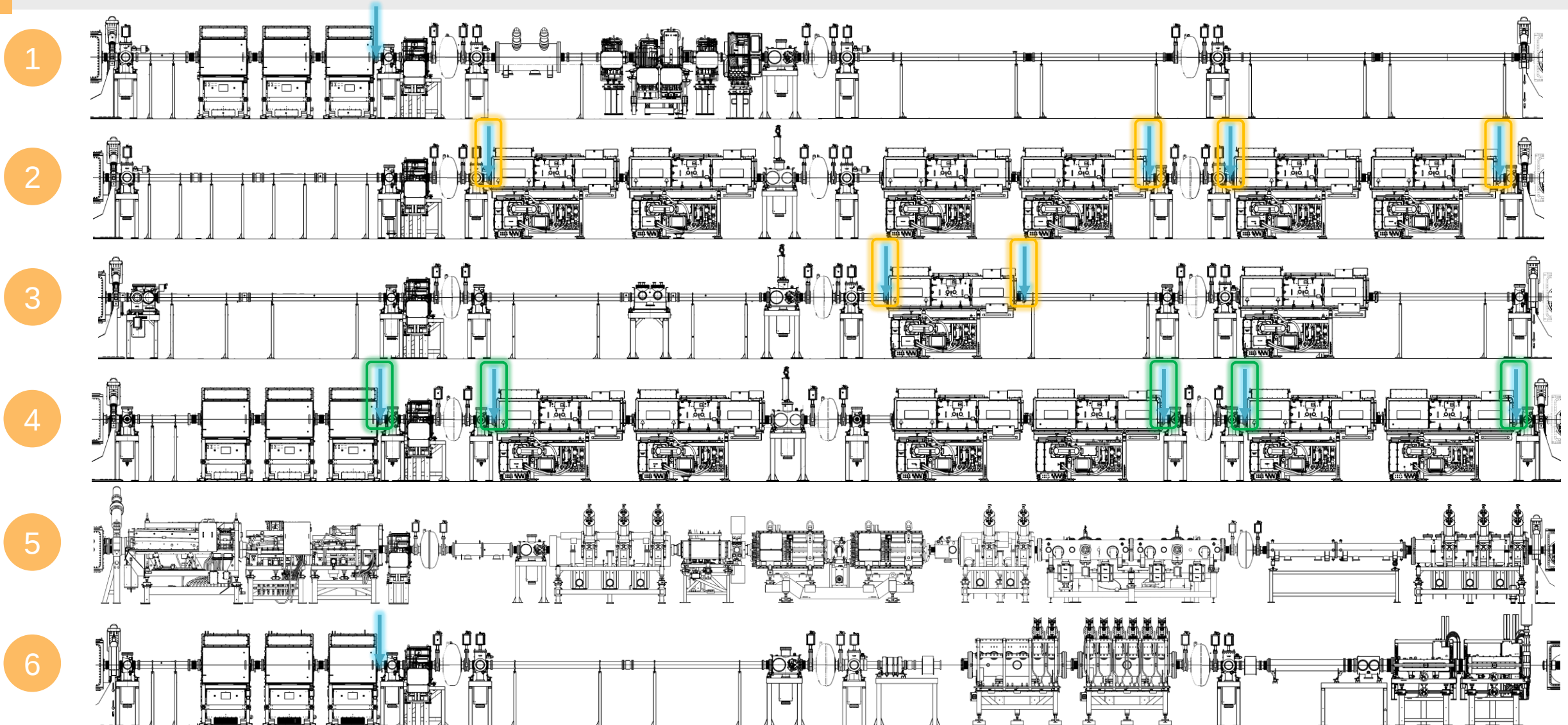
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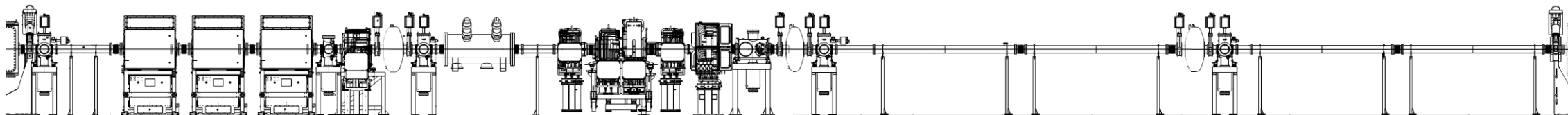


Straight tubes, bellows and adapters – SRV

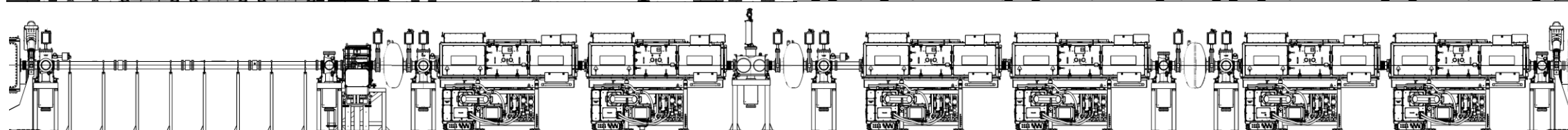


Installation and Testing

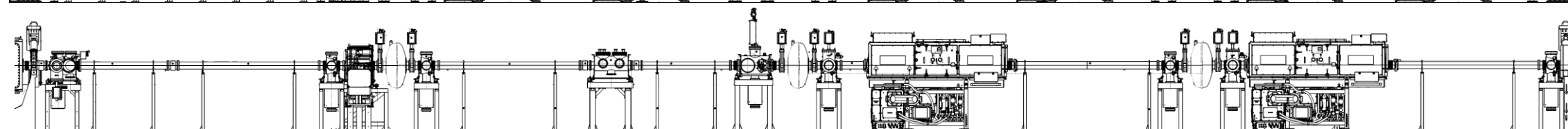
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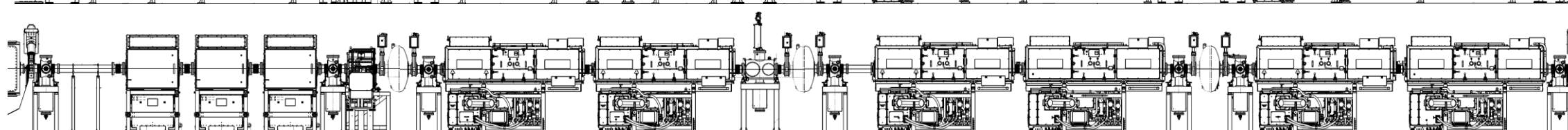
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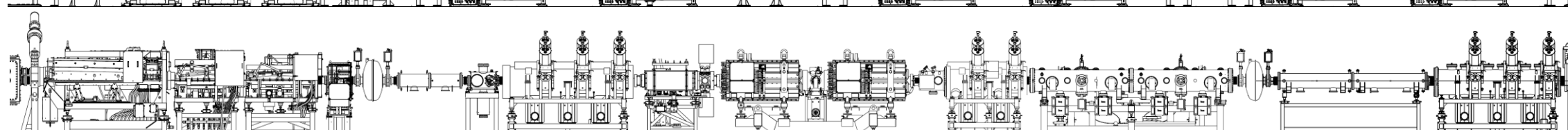
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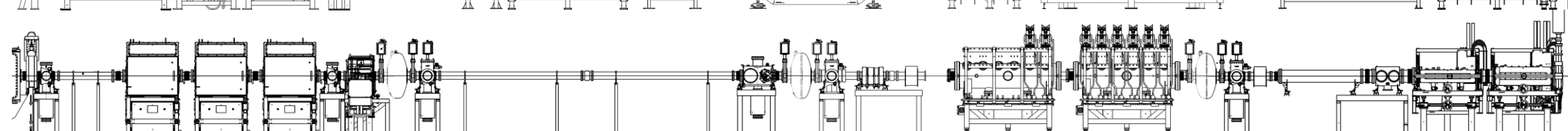
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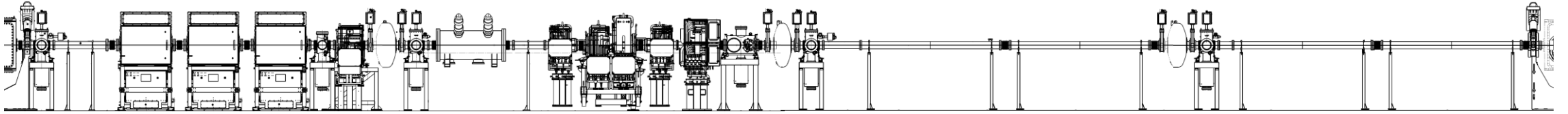


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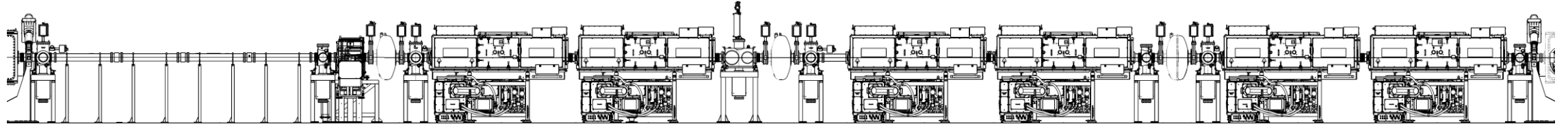


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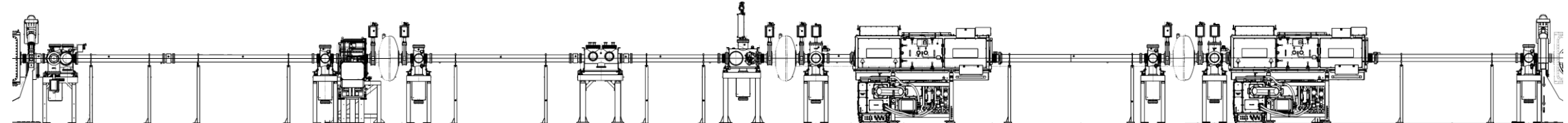
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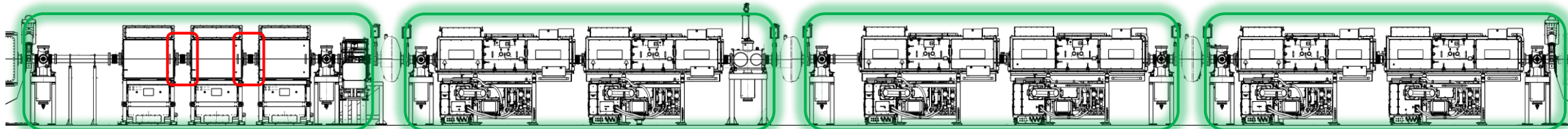
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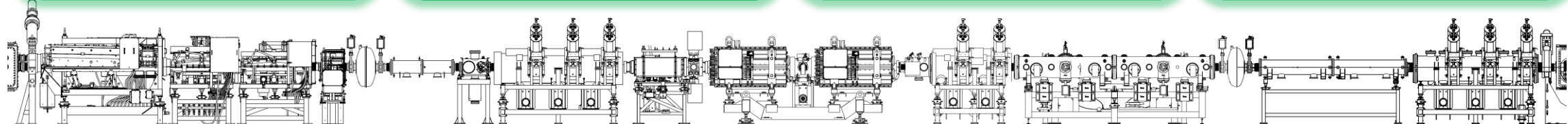
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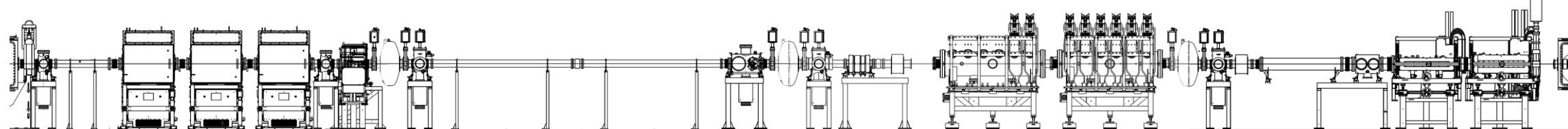
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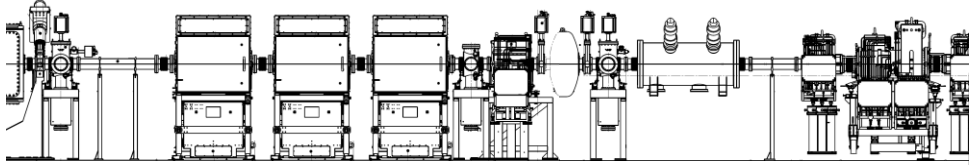


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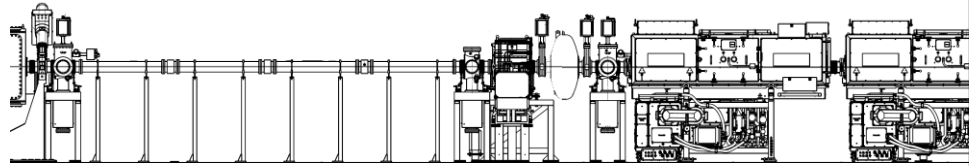


Installation and Testing

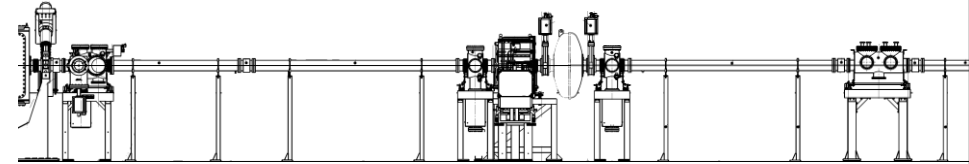
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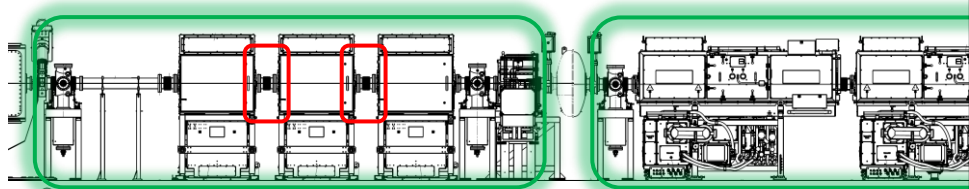
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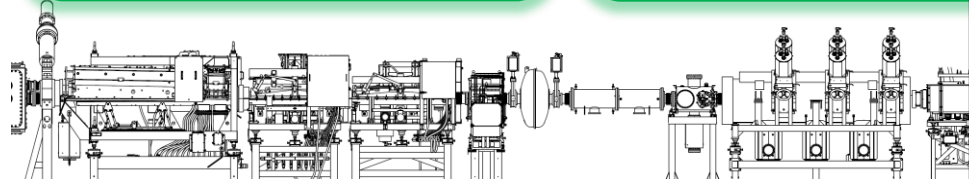
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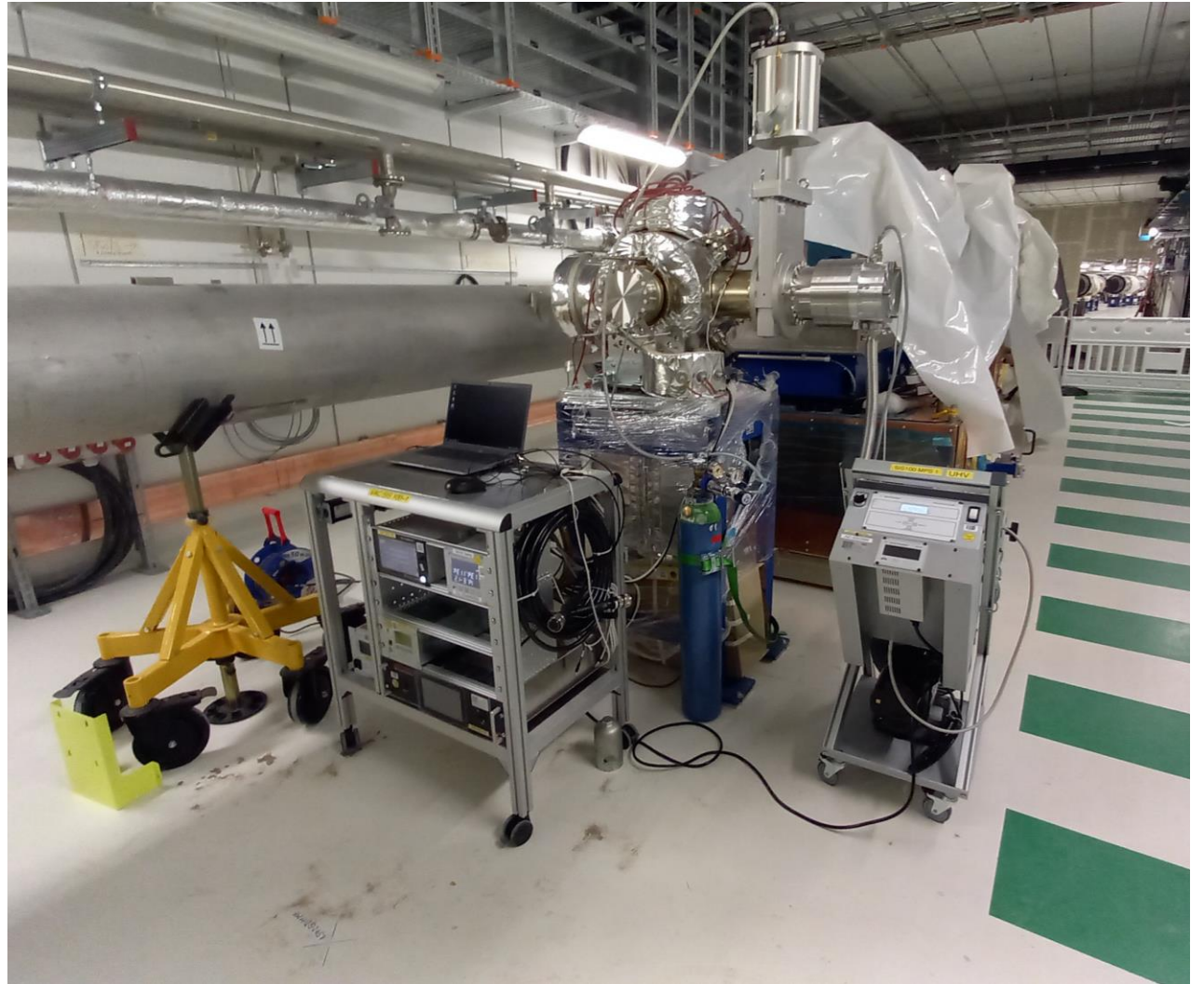
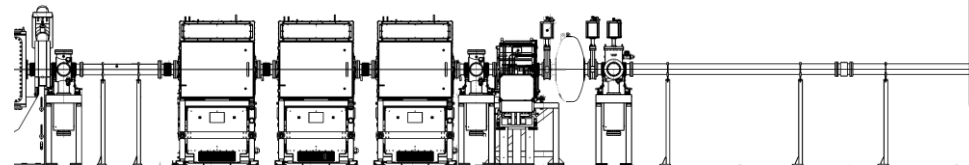
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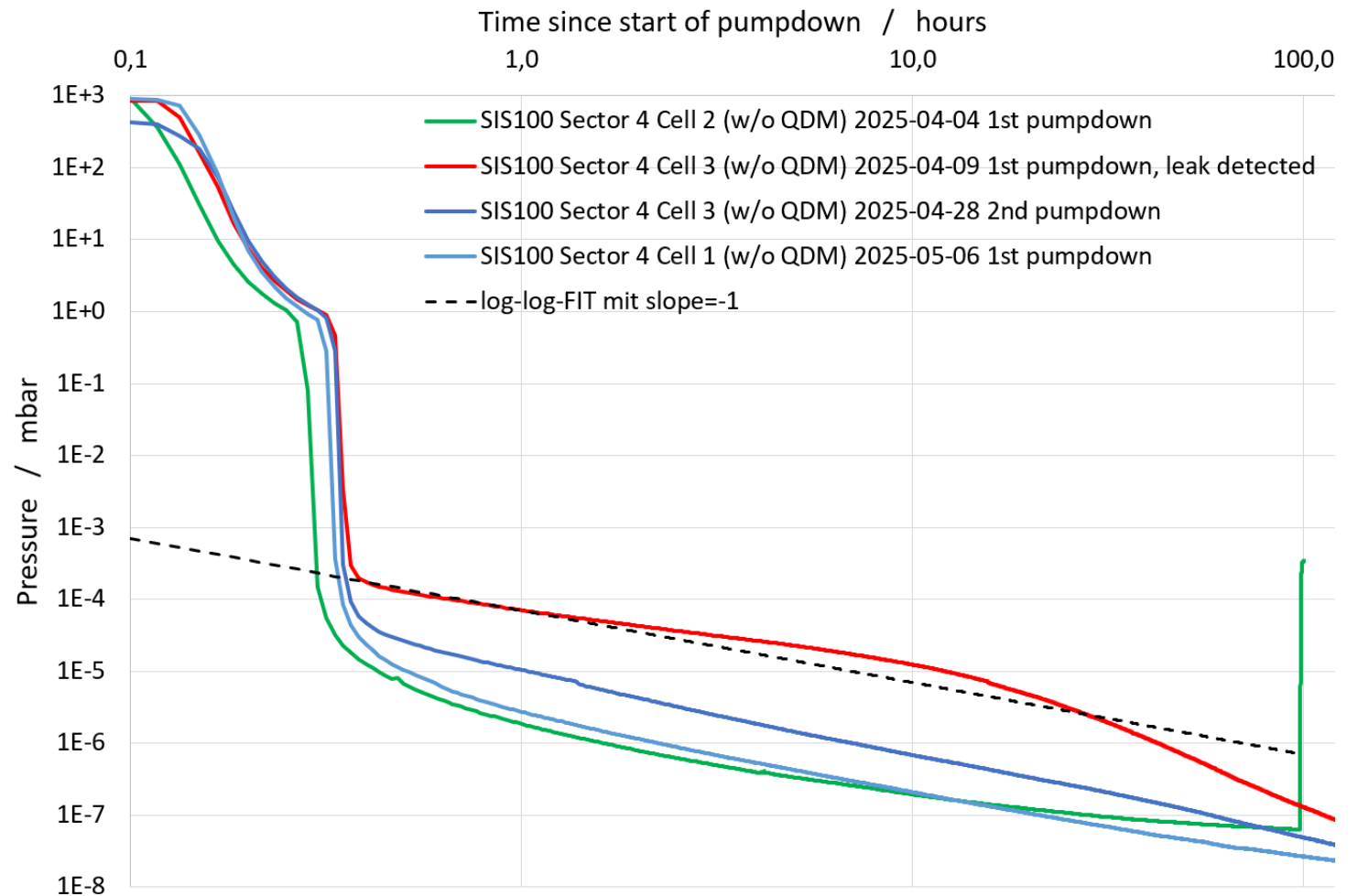
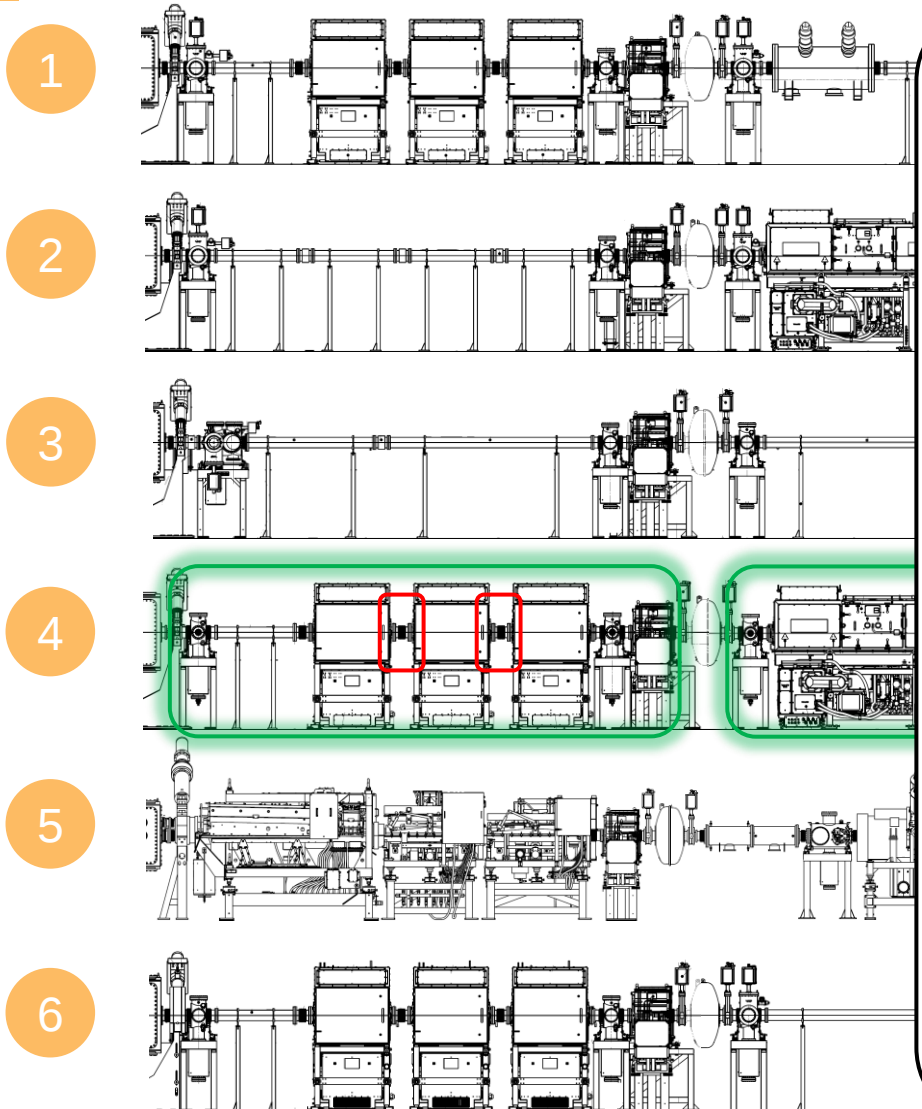
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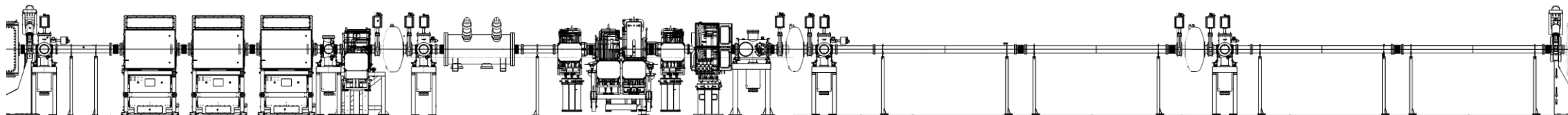


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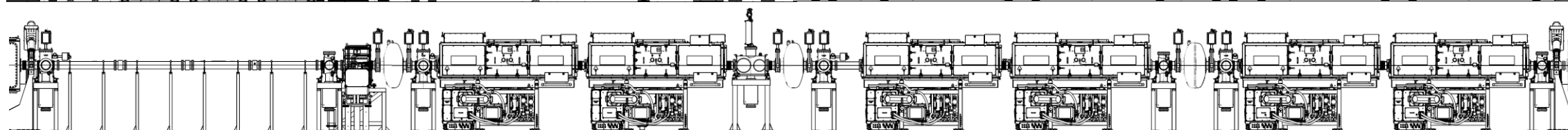


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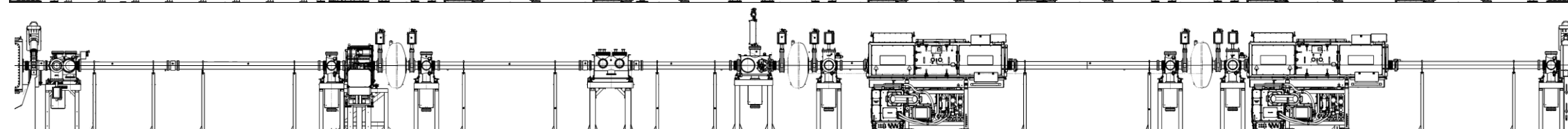
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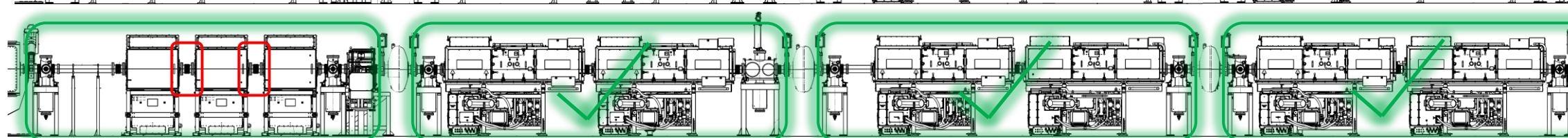
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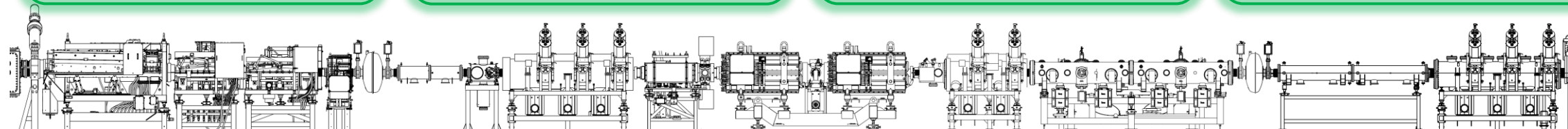
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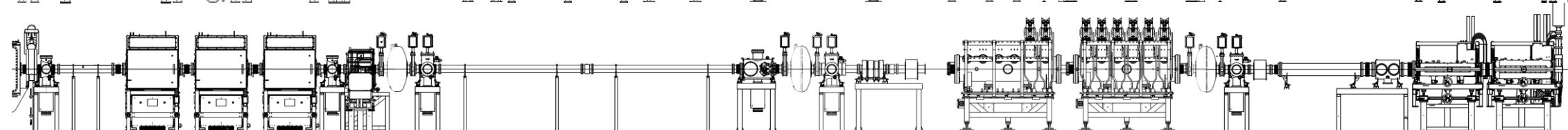
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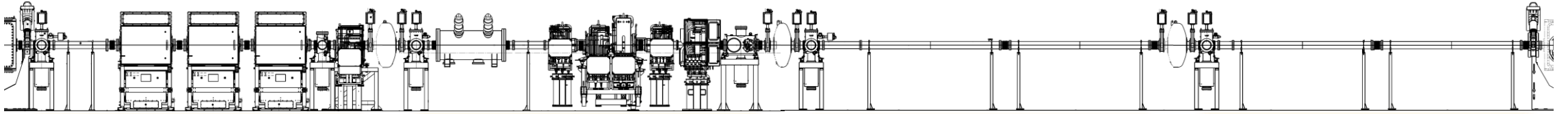


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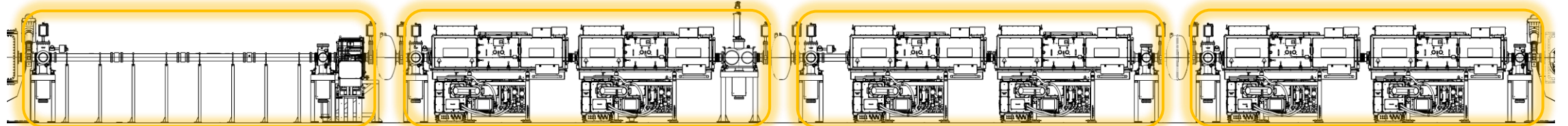


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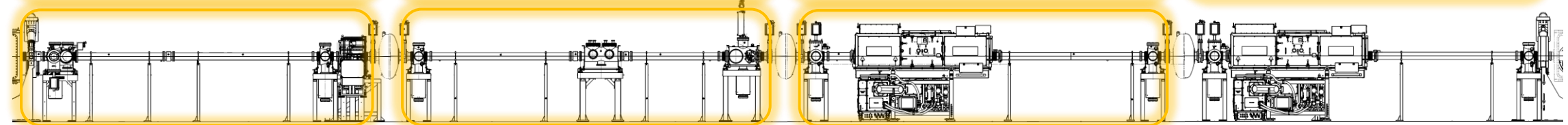
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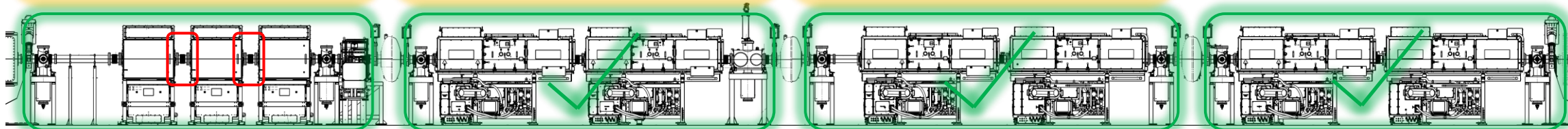
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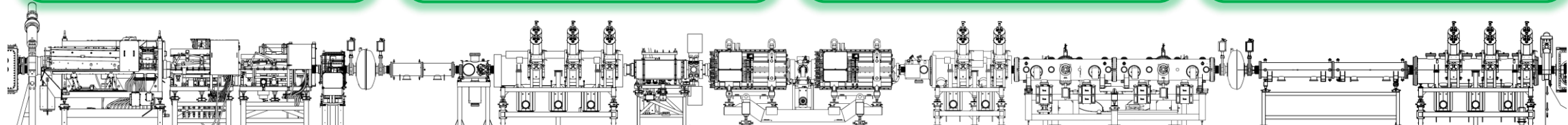
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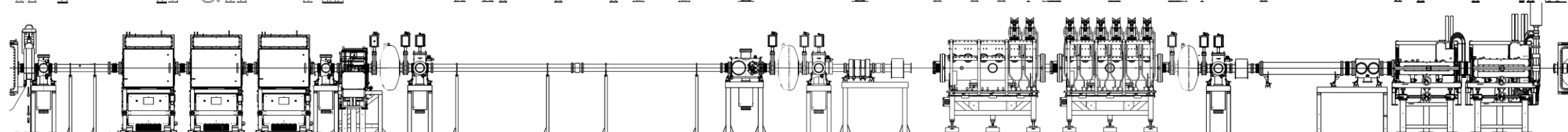
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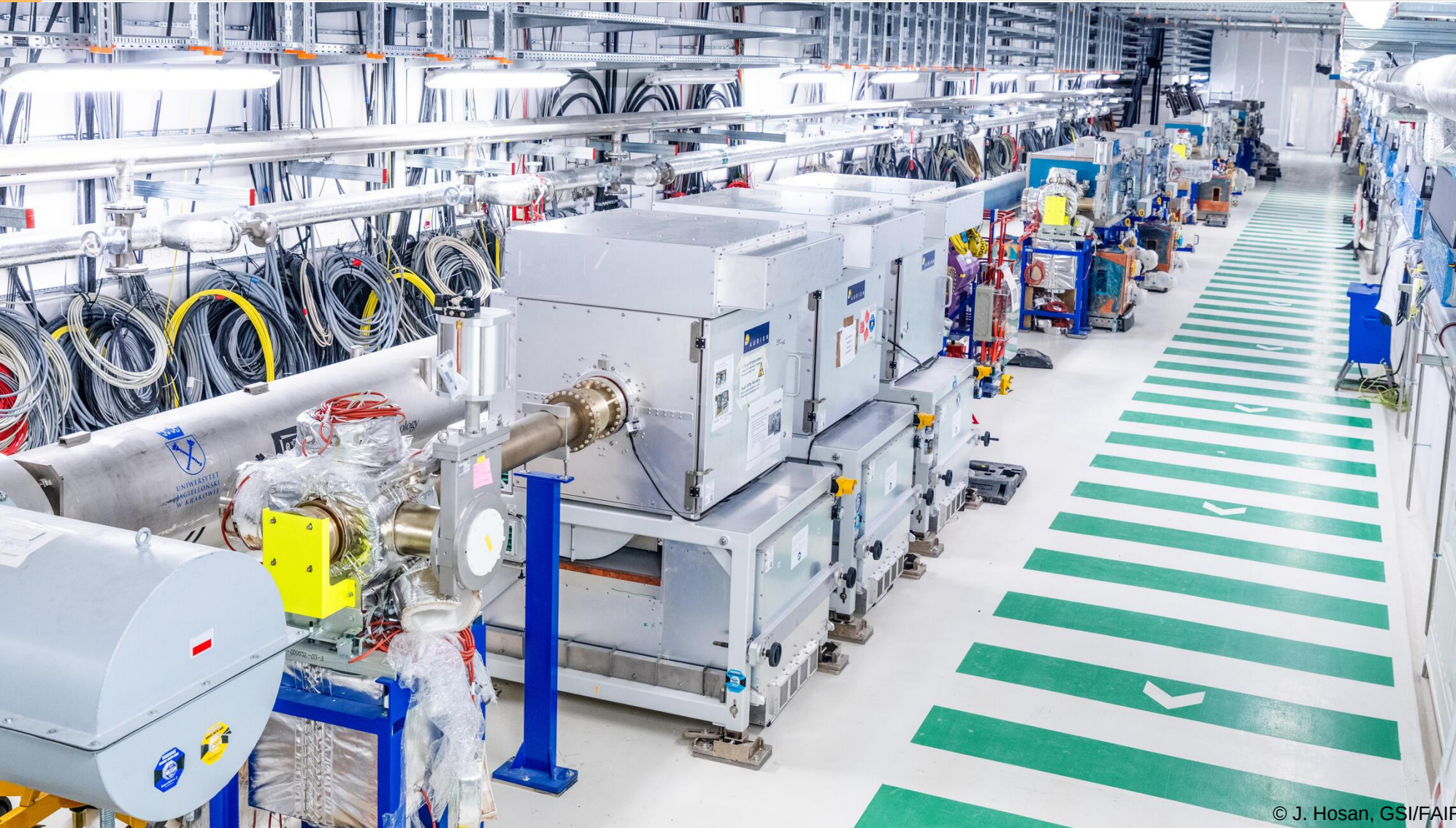
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6



SIS100 RT UHV System



Thank you!

TRI
VAC Labor
SMG/AV
Alignment
and many
more

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