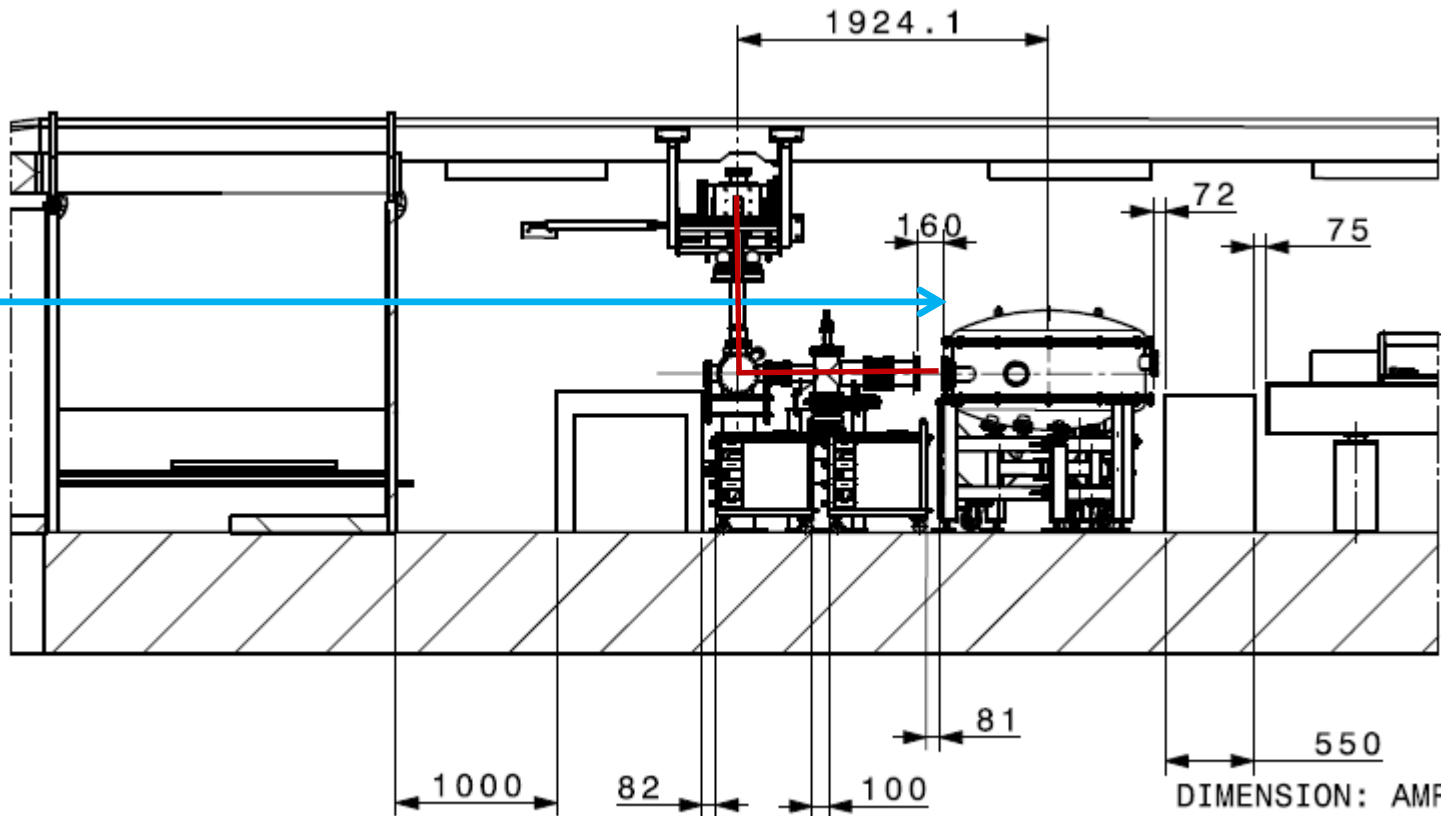


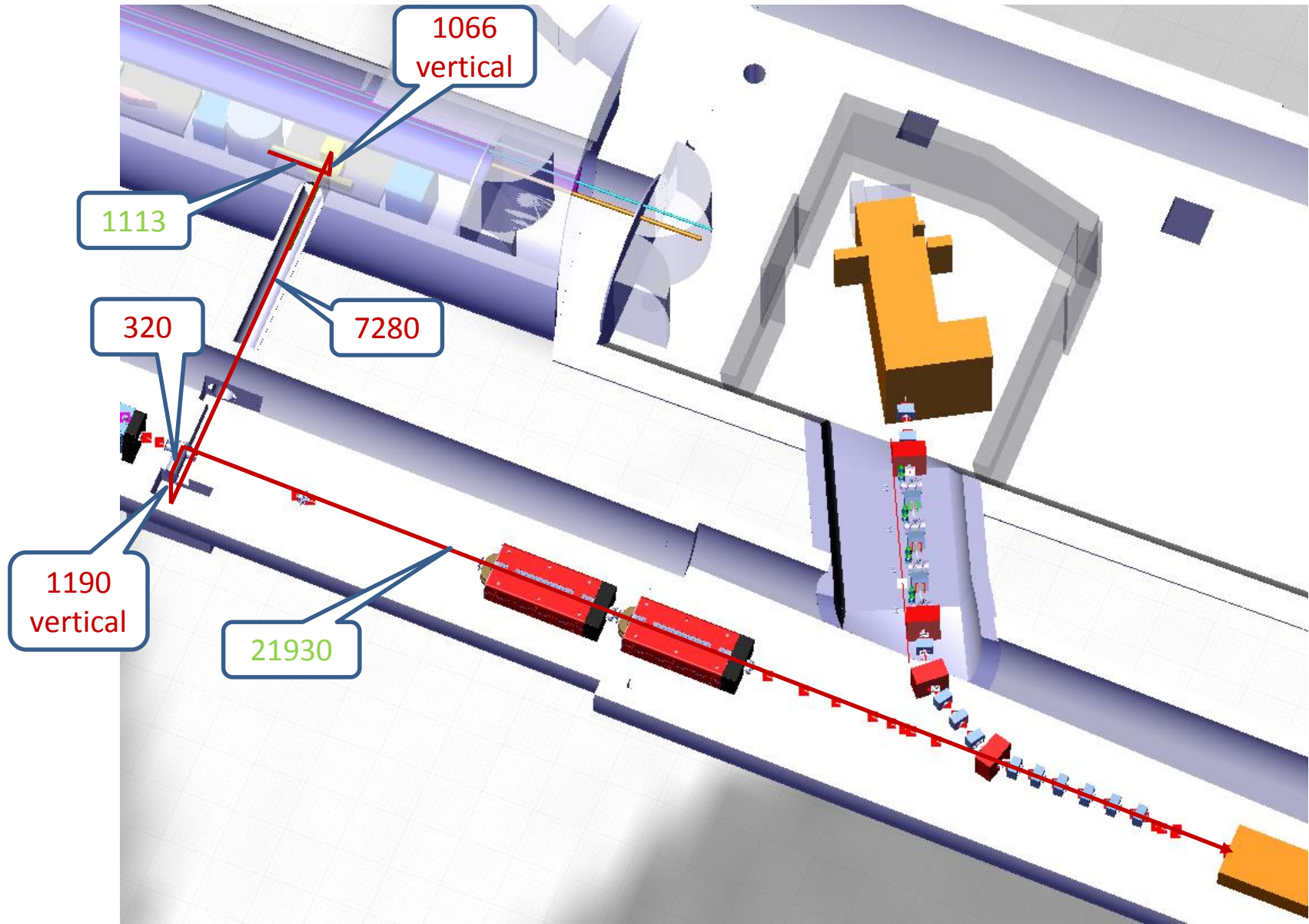
Starting point for calculations

- **Proton line:** exit of the compressor



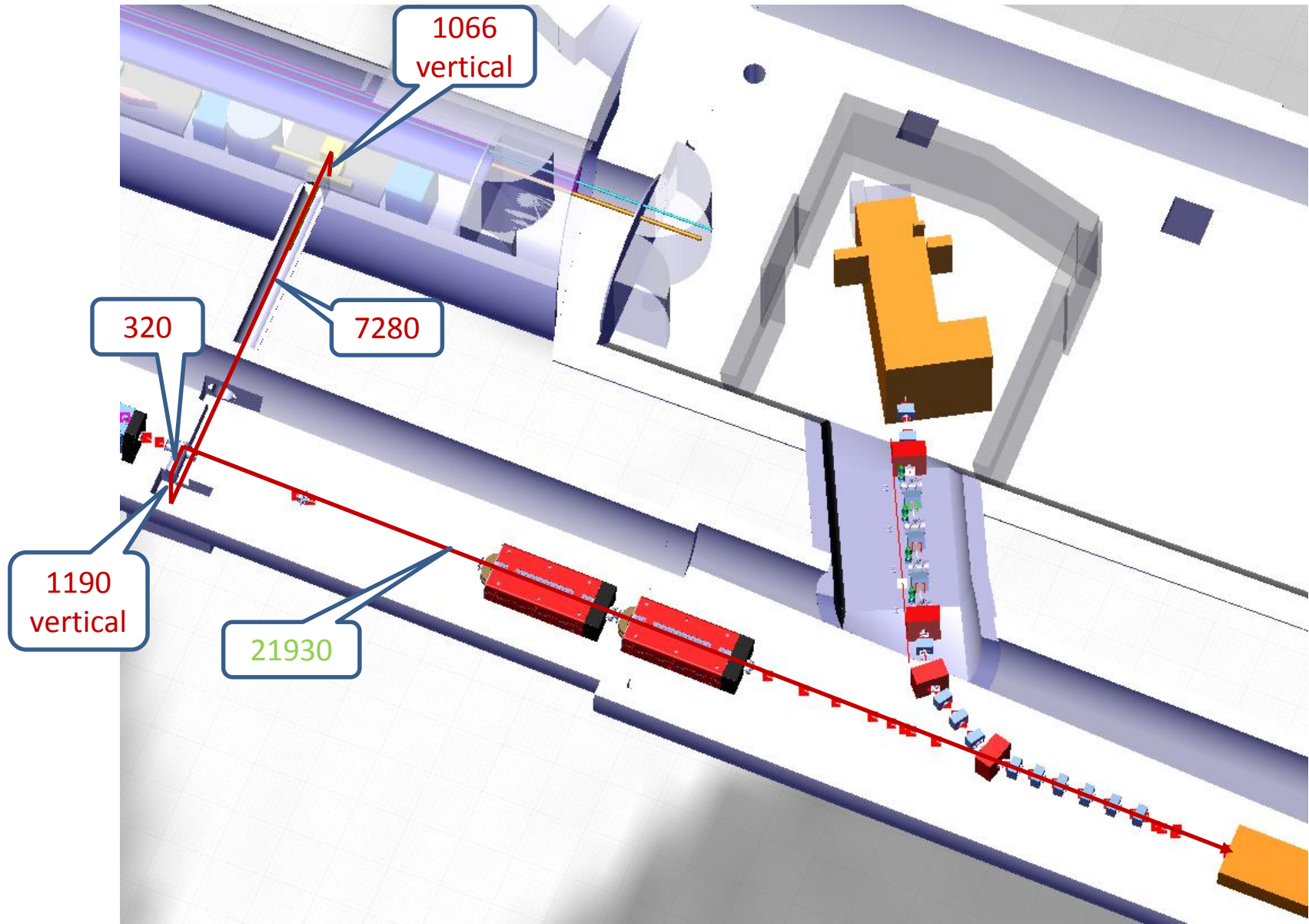
Proton line: path to plasma cell

$$1113 + 1066 + 7280 + 1190 + 320 + 21930 = 32899 \text{ mm}$$



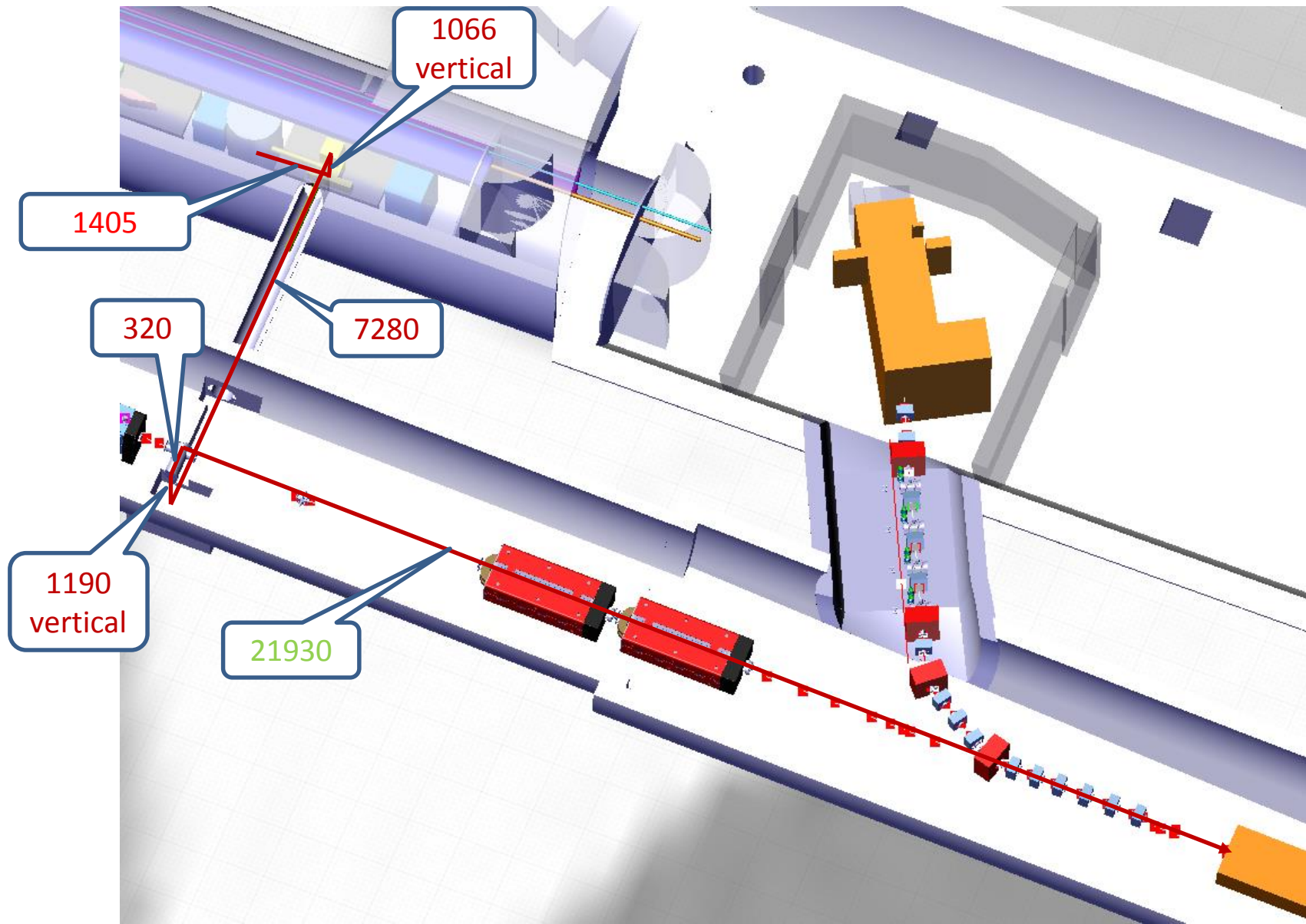
Path from MP1 to plasma cell entrance

$$1066 + 7280 + 1190 + 320 + 21930 = 31786 \text{ mm}$$



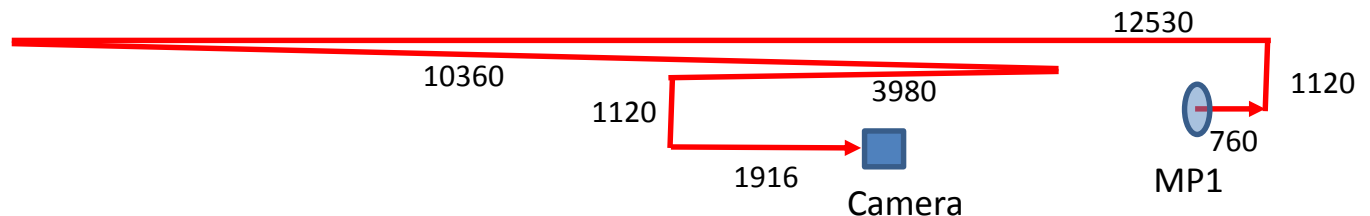
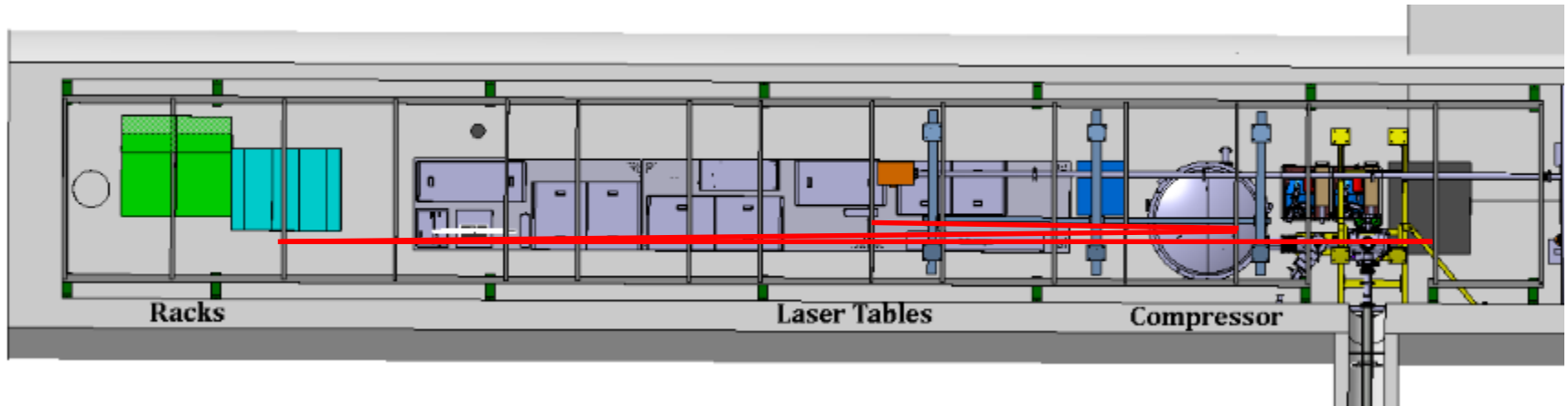
Option 2: Proton line: path to plasma cell from inside of compressor

$$1405 + 1066 + 7280 + 1190 + 320 + 21930 = 33191 \text{ mm}$$



New reference delay line in TSG40

Path from MP1 to camera = path from MP1 to plasma cell entrance



$$760 + 1120 + 12530 + 10360 + 3980 + 1120 + 1916 = 31786 \text{ mm}$$

Distances measured on layout drawing => to be checked at the lab

6 mirrors, first two should be $\varnothing 3''$

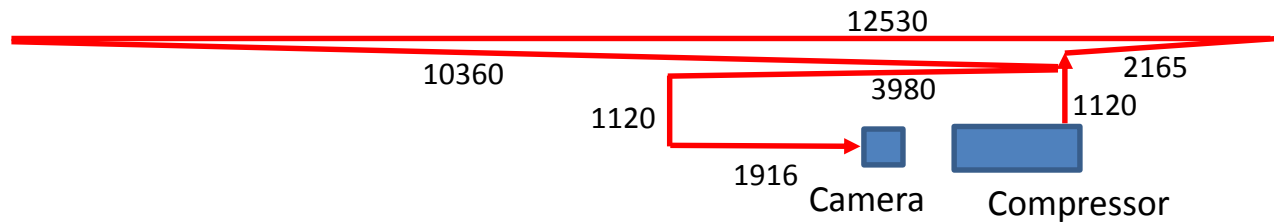
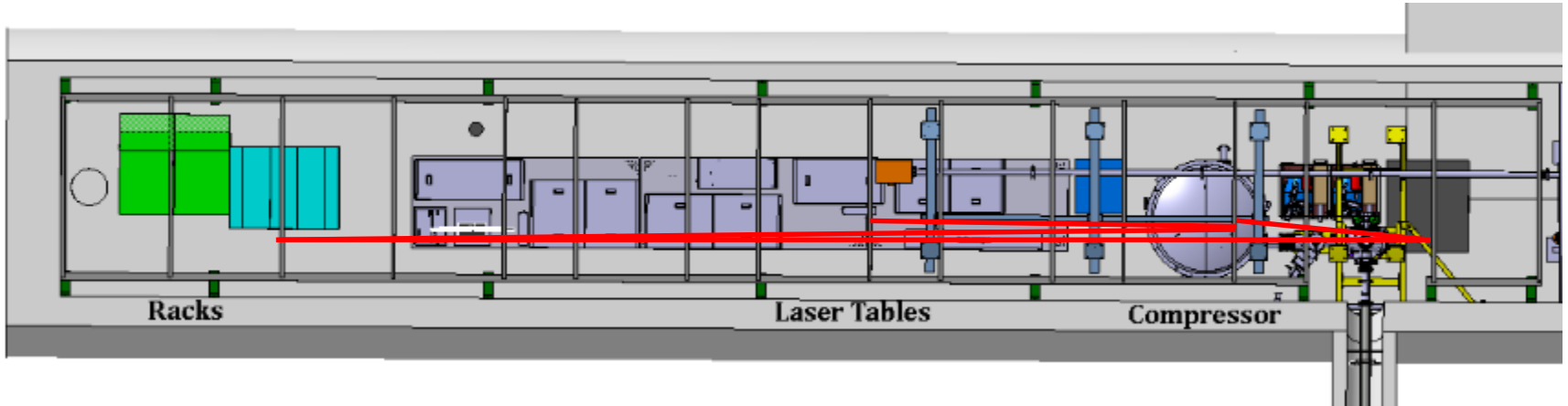
2 x BB3-E03 (375 EUR each)

4 x BB2-E03 (138 EUR each)

+ Mirror mounts

New reference delay line in TSG40

Path from compressor to camera = path from compressor to plasma cell entrance



$$1120+2165+12530+10360+3980+1120+1916 = 33191 \text{ mm}$$

Distances measured on layout drawing => to be checked at the lab

7 mirrors, first two should be Ø3"

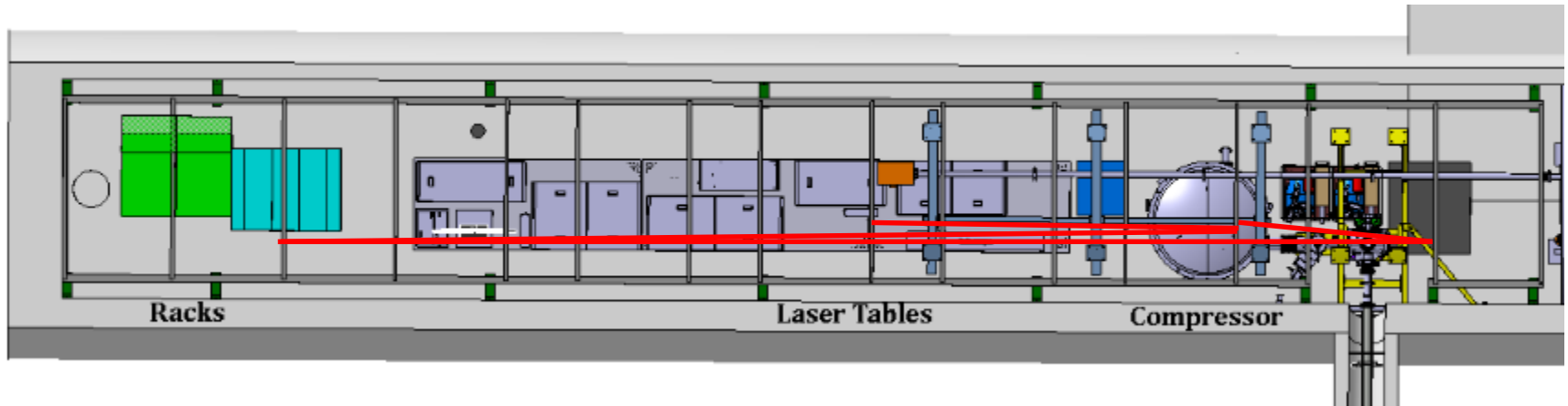
2 x BB3-E03 (375 EUR each)

5 x BB2-E03 (138 EUR each)

+ Mirror mounts

New reference delay line in TSG40

Path from compressor to camera = path from compressor to plasma cell



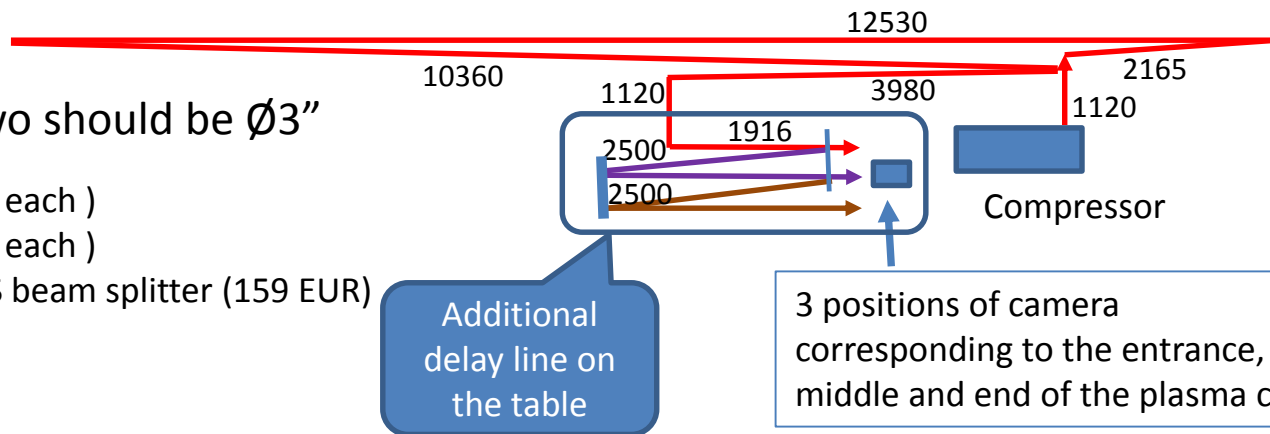
9 mirrors, first two should be $\varnothing 3''$

2 x BB3-E03 (375 EUR each)

6 x BB2-E03 (138 EUR each)

1 x BSW30 50:50 UVFS beam splitter (159 EUR)

+ Mirror mounts



$$1120 + 2165 + 12530 + 10360 + 3980 + 1120 + 1916 = 33191 \text{ mm}$$

$$1120 + 2165 + 12530 + 10360 + 3980 + 1120 + 1916 + 2500 \times 2 = 38191 \text{ mm}$$

$$1120 + 2165 + 12530 + 10360 + 3980 + 1120 + 1916 + 2500 \times 4 = 43191 \text{ mm}$$