

PAUL SCHERRER INSTITUT



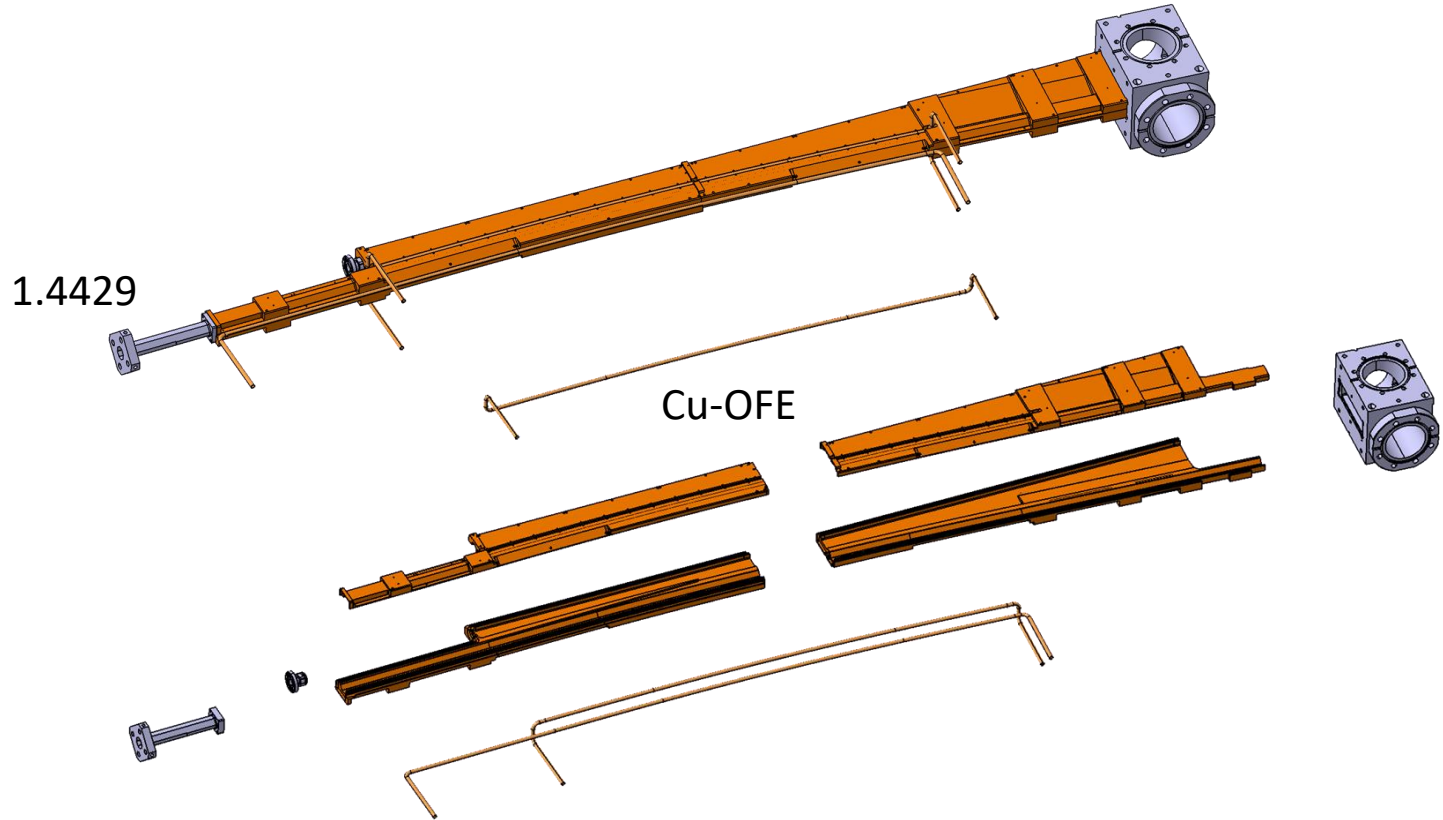
J.Buchmann :: Vacuum :: Paul Scherrer Institut

SLS 2.0 dipole chamber design

SLS 2.0 Vacuum Workshop

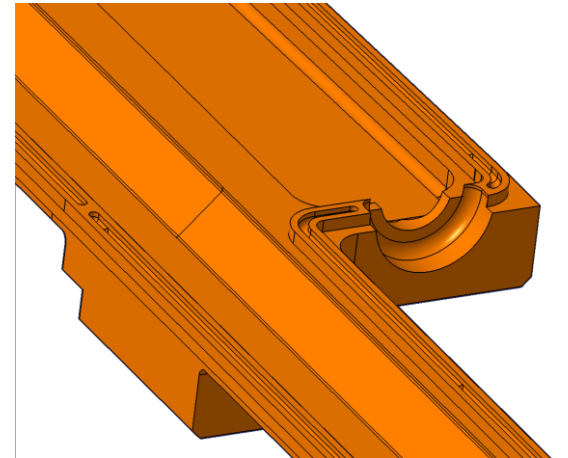
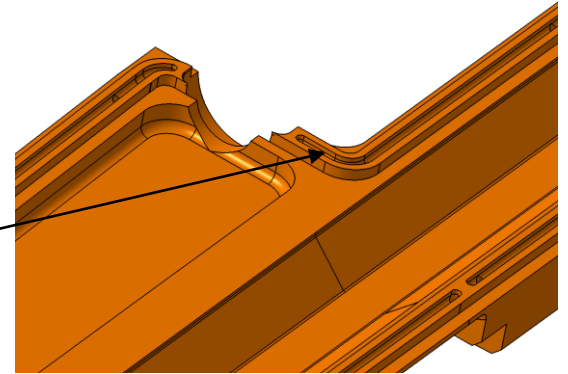
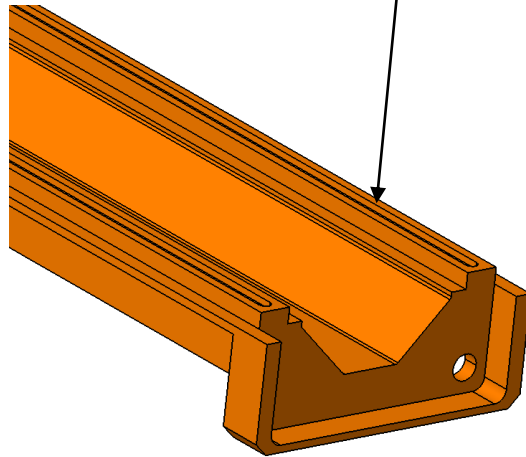
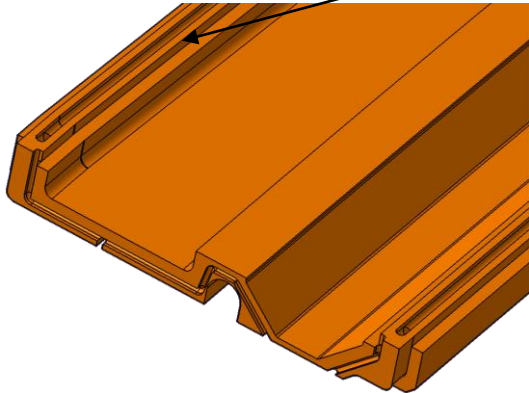
30.01.2020

Chamber geometry and boundary conditions

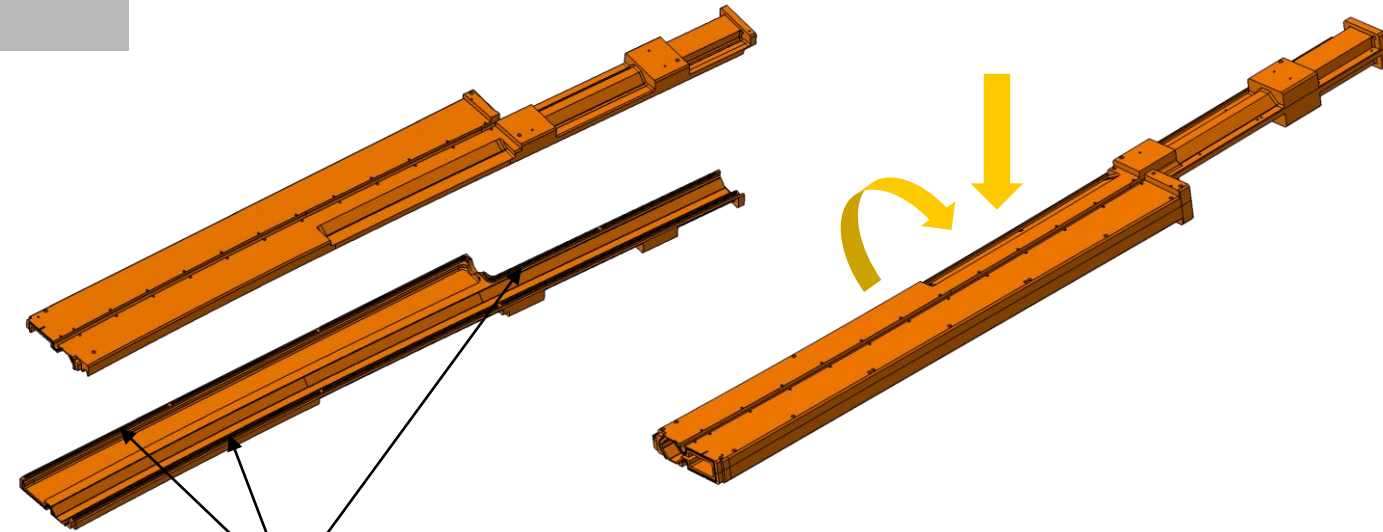


upstream block details

fill in brazing solder
in lower half



upstream block

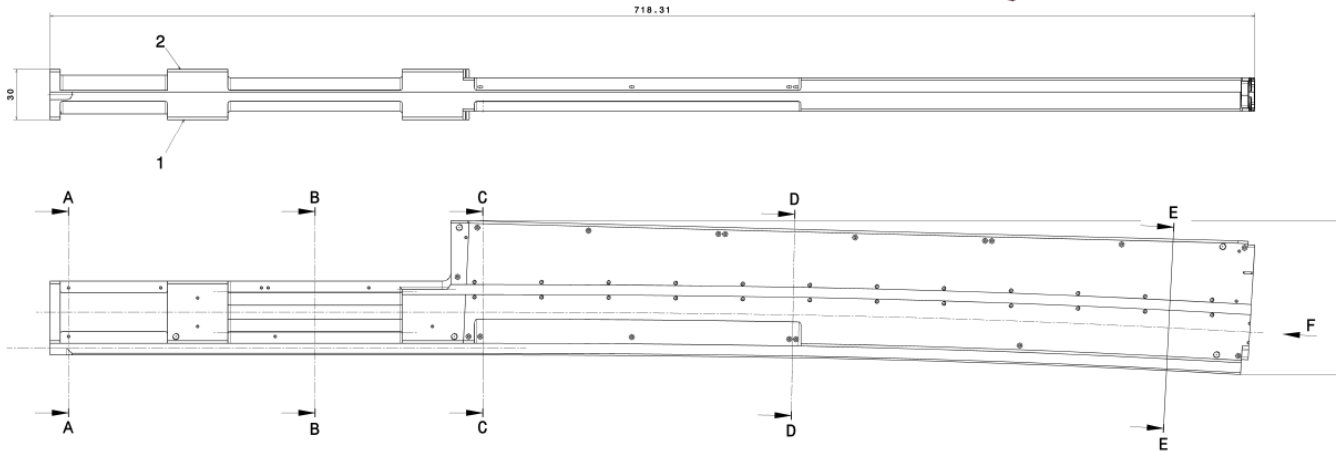
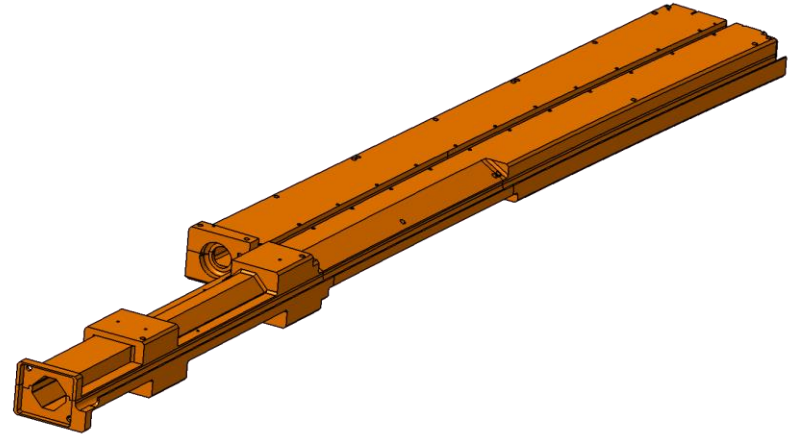


fill in brazing solder
in lower half

close and flip

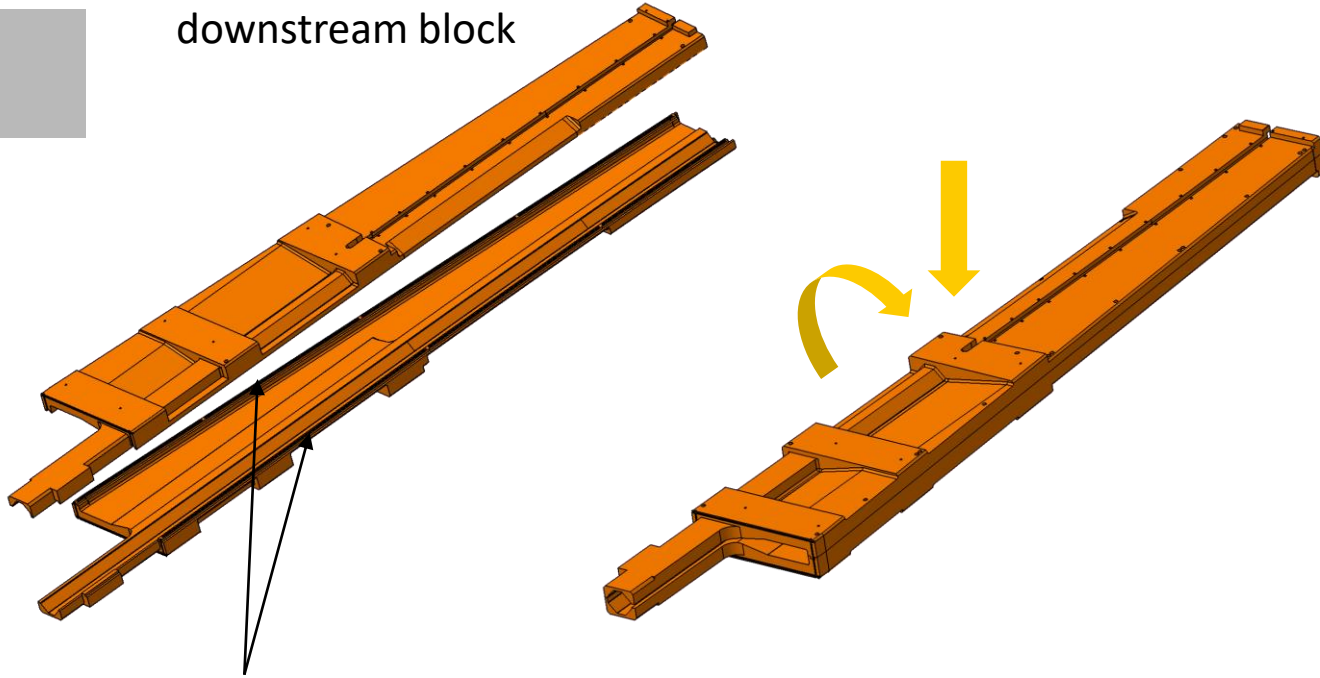
braze at 820°C

upstream block assembled



brazing process

downstream block



fill in brazing solder
in lower half

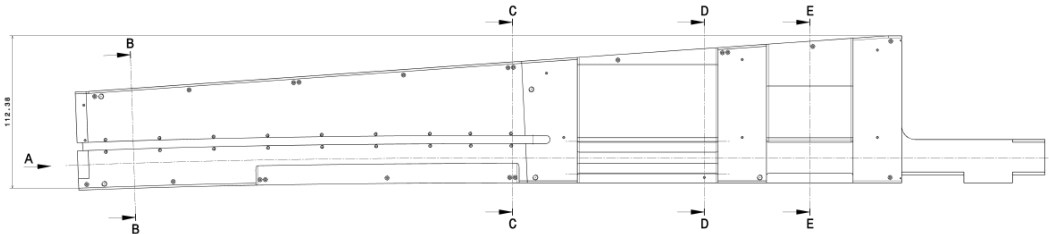
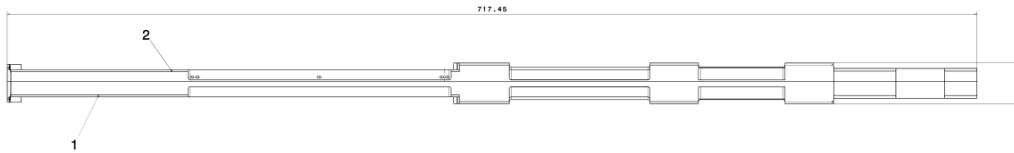
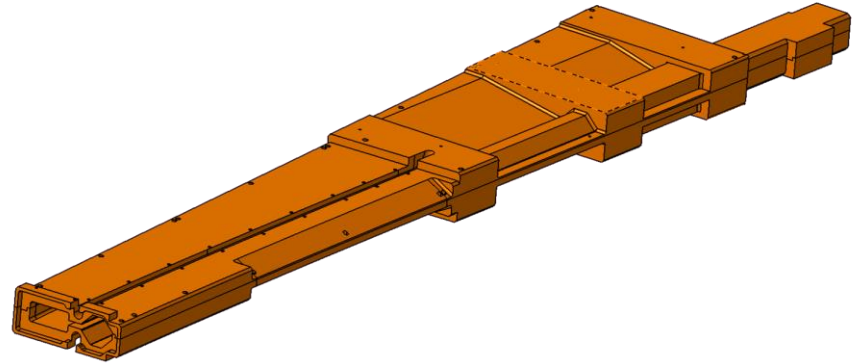


close and flip

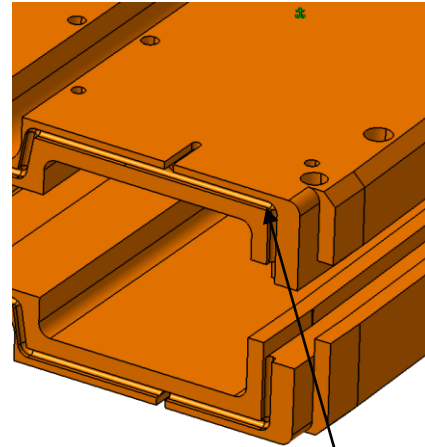
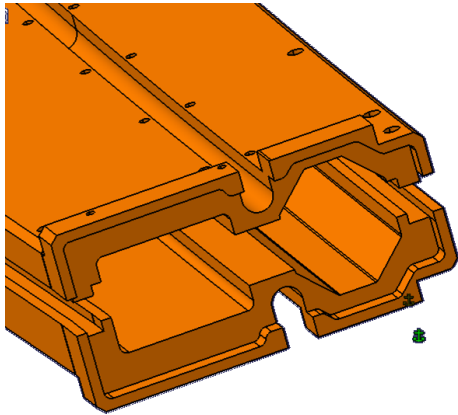


braze at 820°C

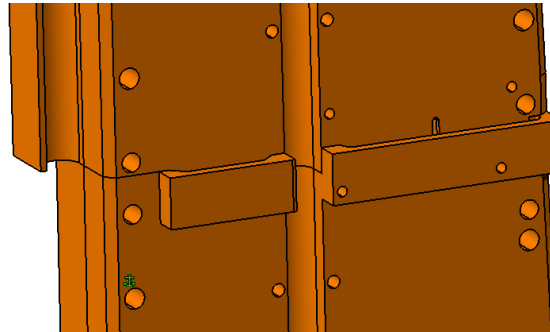
downstream block assembled



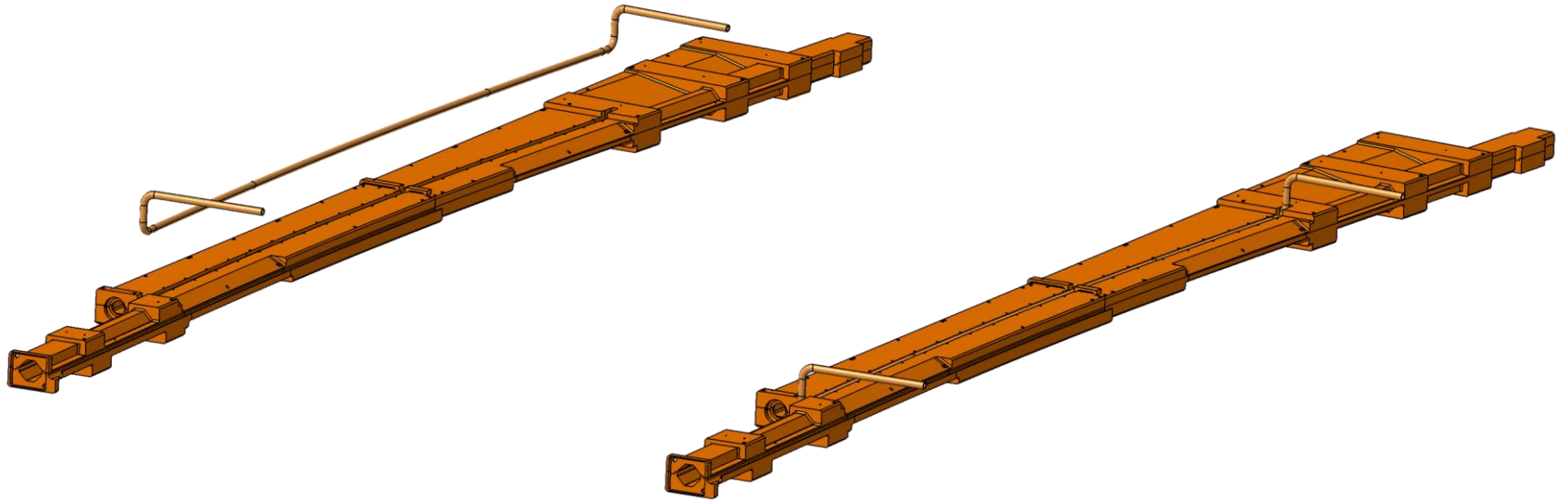
brazing process



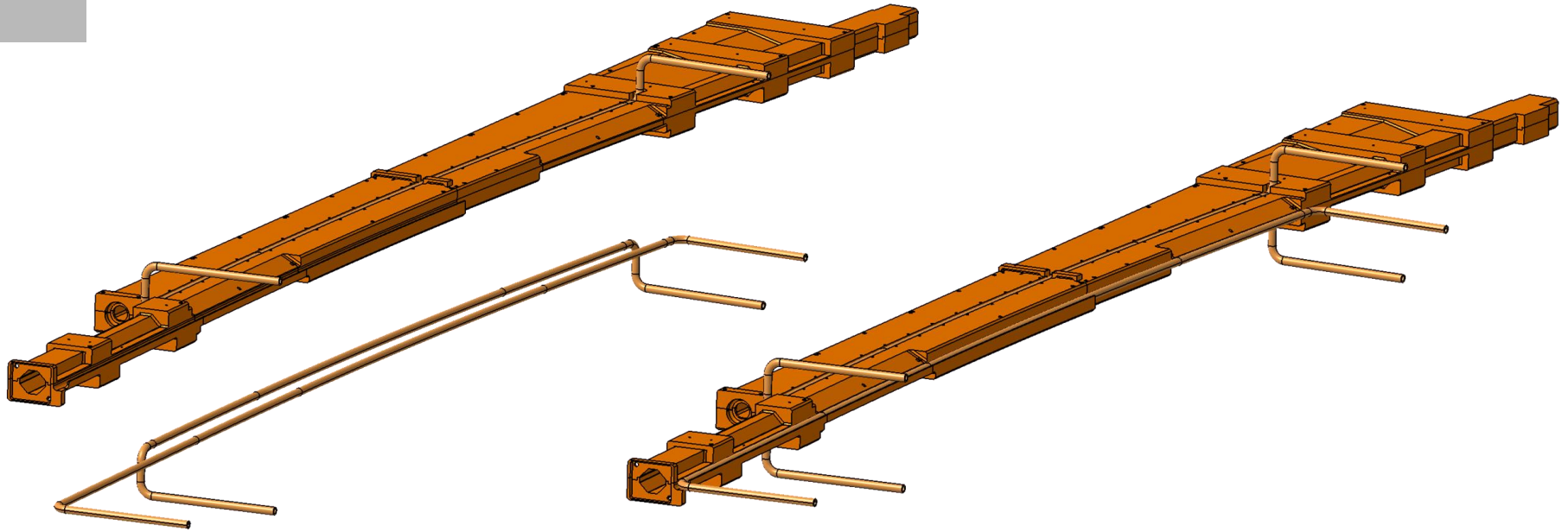
fill in brazing solder
in lower half



cooling top

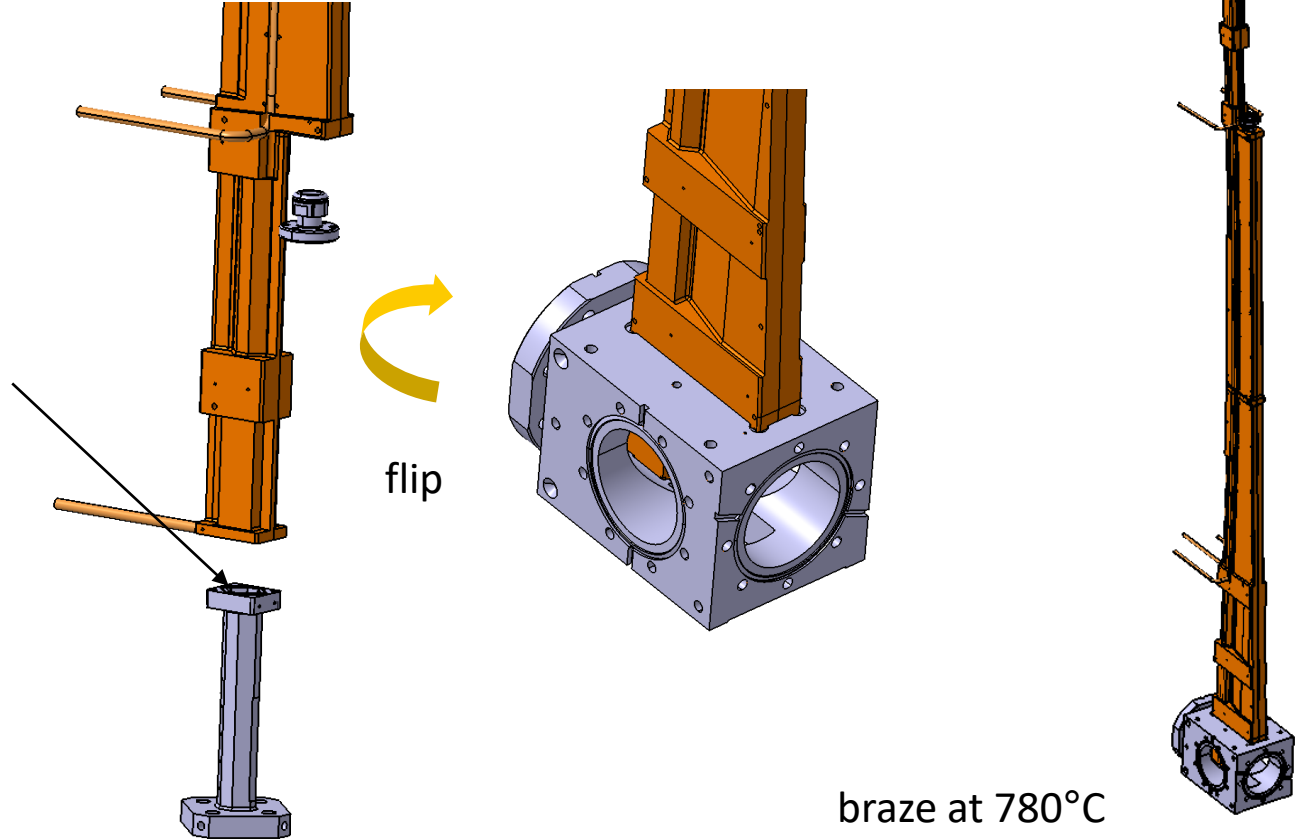


cooling line bottom

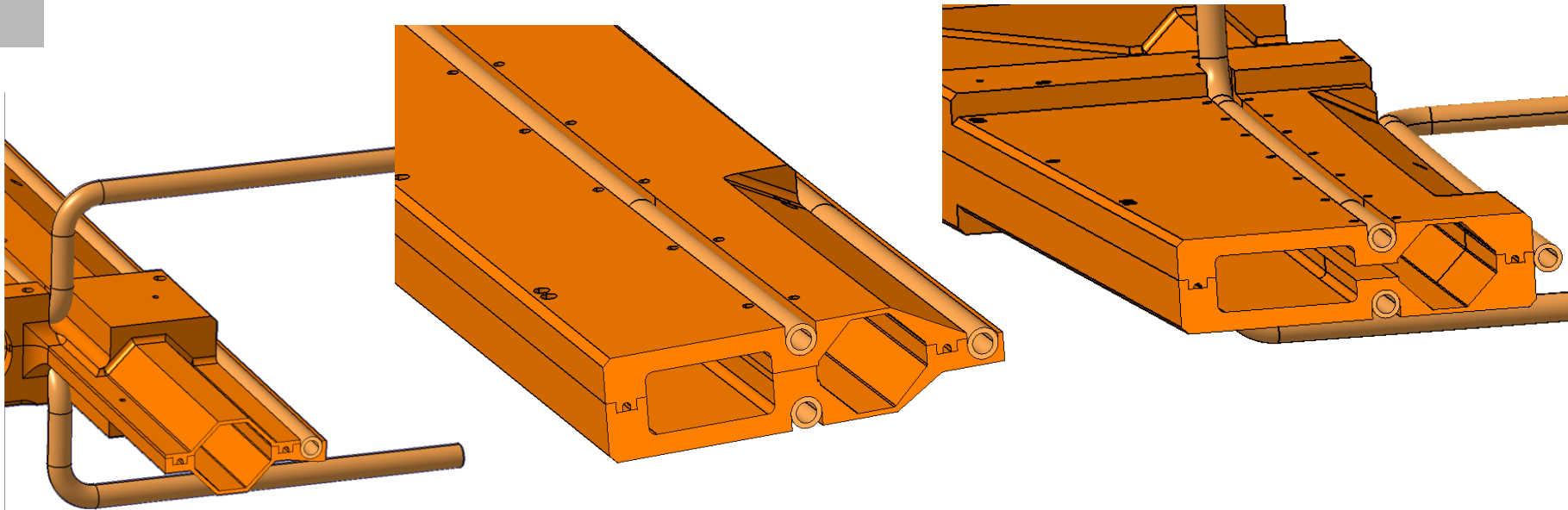


brazing process

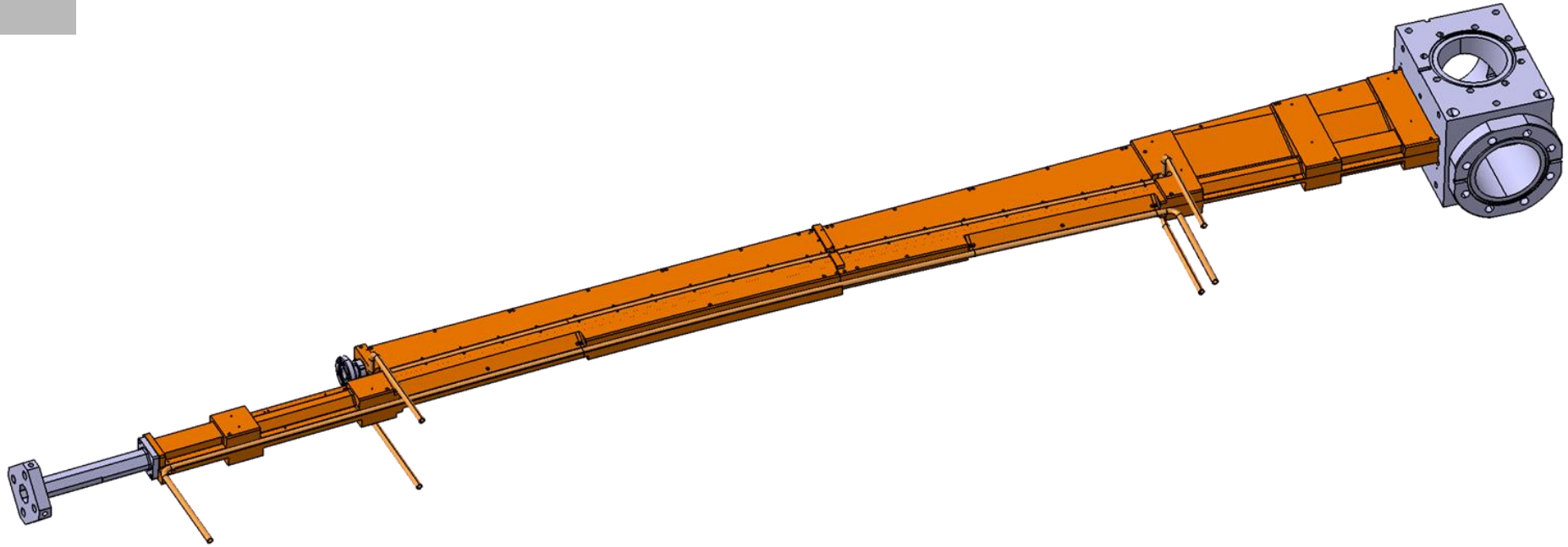
fill in brazing solder
in lower half

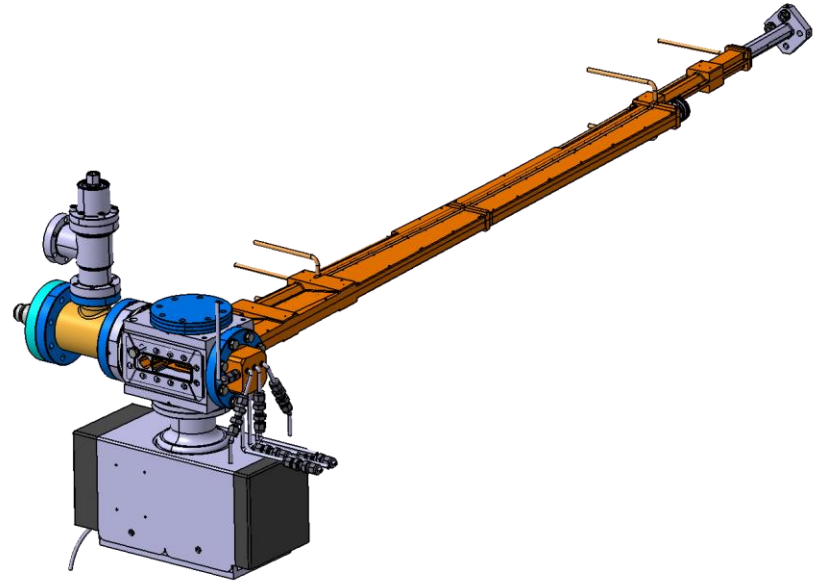
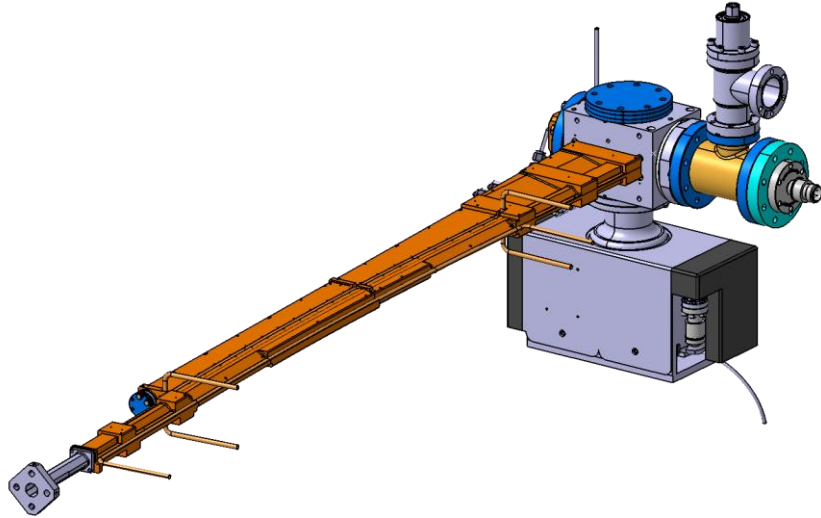


cross sections SX and VB/BN

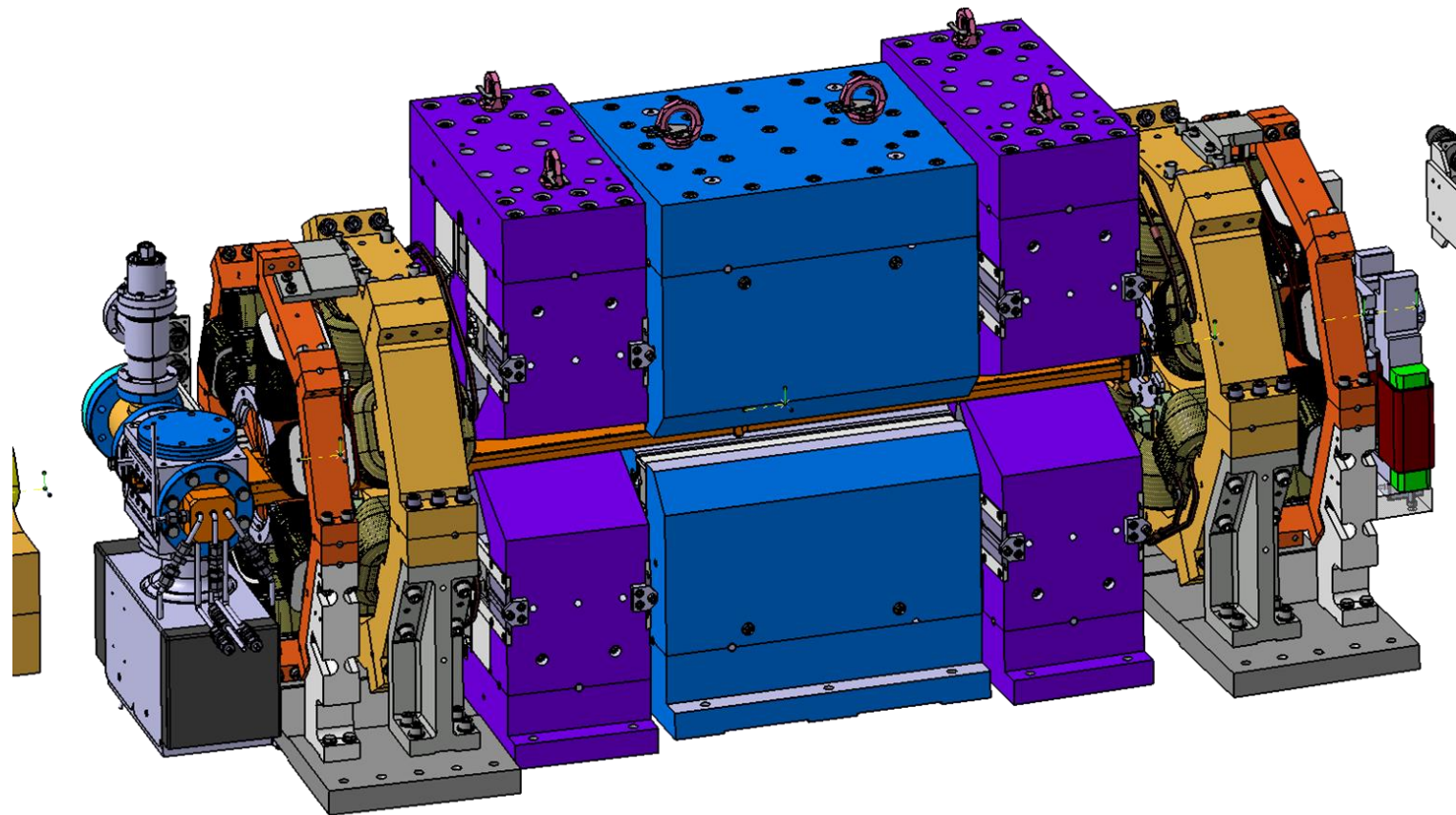


chamber finished





chamber with magnets



Many thanks to:

- SLS vacuum team

