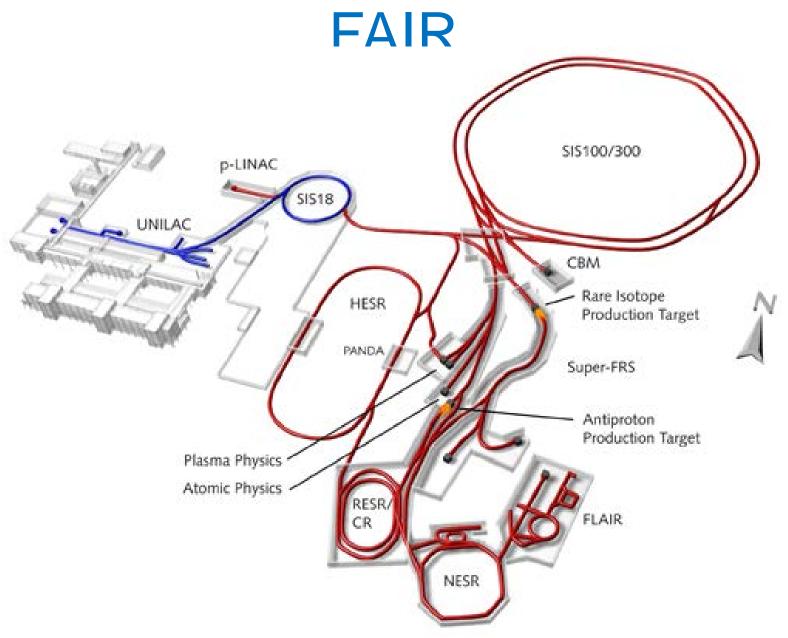
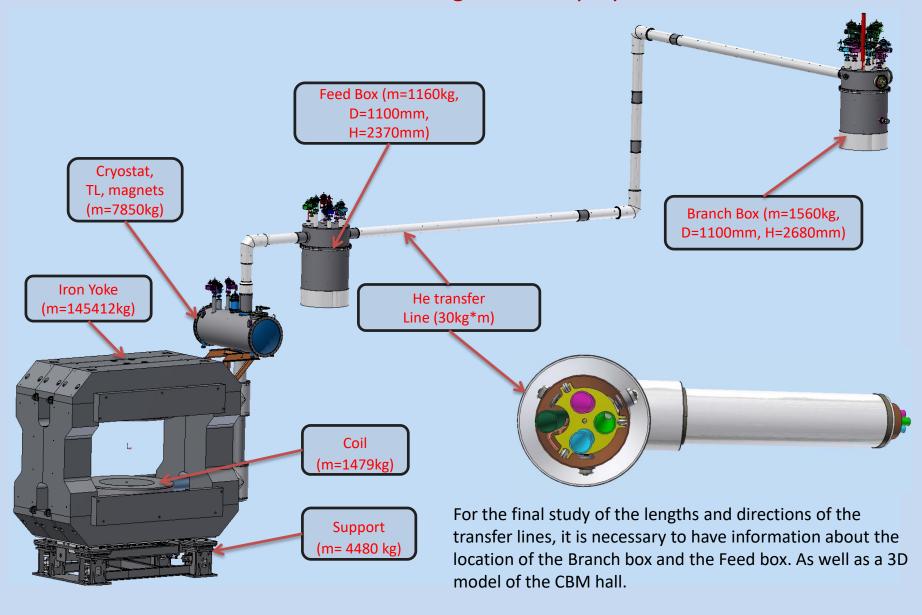
CBM Iron yoke and support design

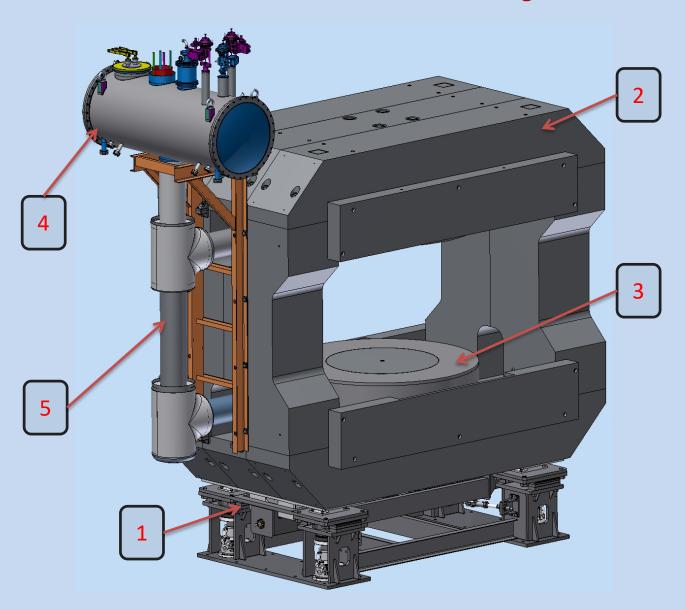
11 2019, BINP, M.Kholopov, A.Bragin, S. Pivovarov.



3D Model of CBM Magnet and cryosystem



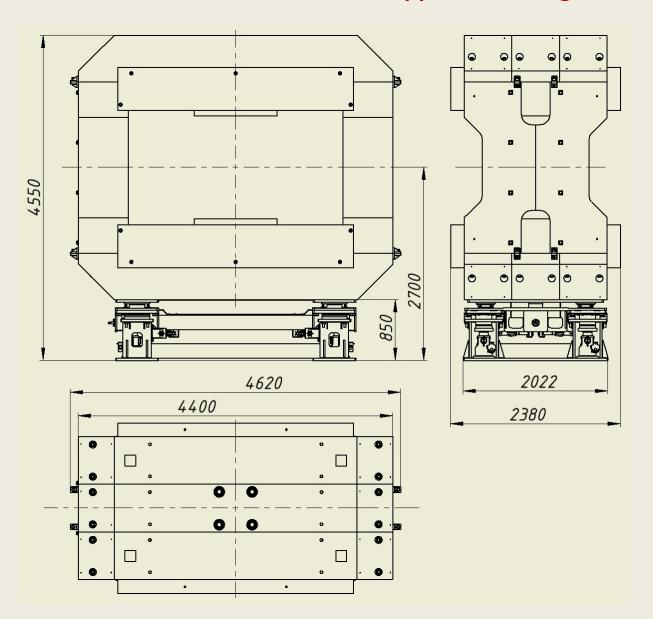
Parts of CBM Magnet



- 1. Support m= 4480 kg
- 2. Iron Yoke m=145412kg
- 3. Coils m=3100kg
- 4. Cryostat m=940kg
- 5. Cryostats TL m=710kg

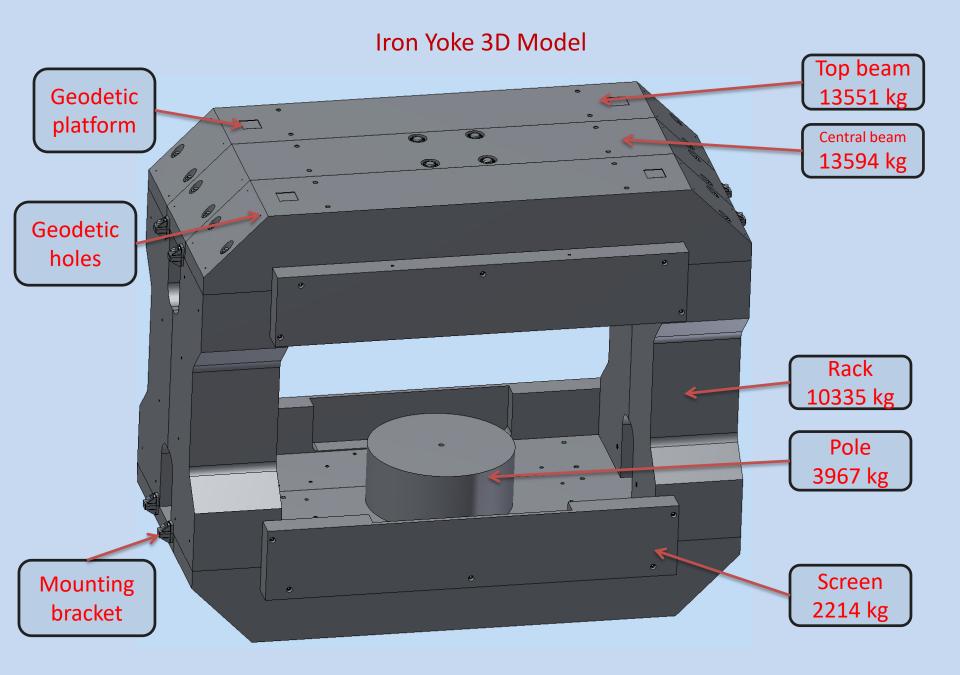
The support's load - 154 tons

Iron Yoke and supports drawing

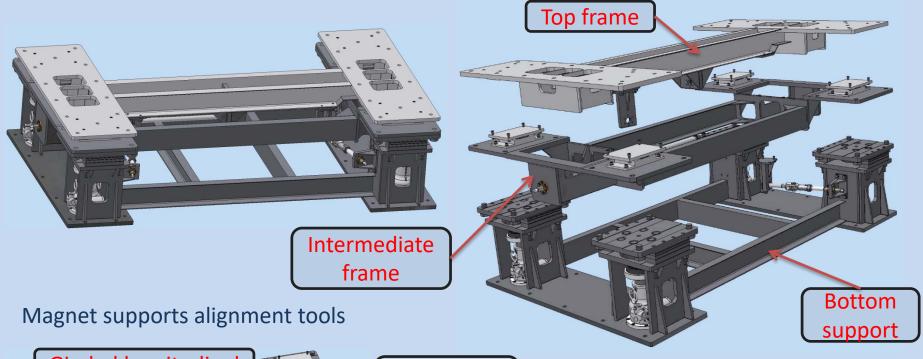


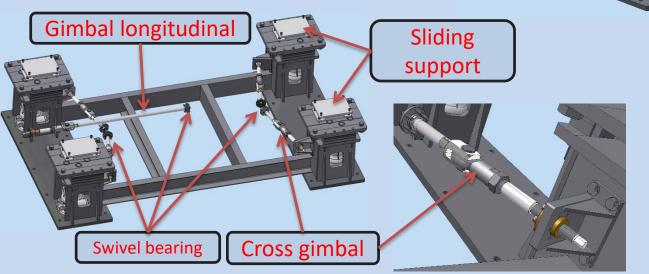
Weight and size

- m= 150000 kg
- L=4620mm
- W=2380mm
- H=4550mm



CBM Magnet support





Weight and size

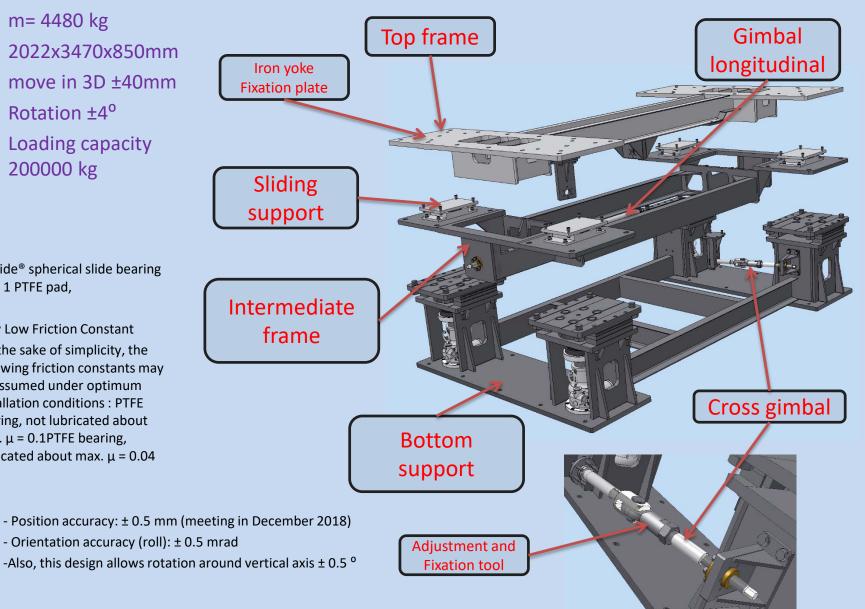
- m= 4480 kg
- 2022x3470x850mm
- move in 3D ±40mm
- Rotation top frame ±4°
- Loading capacity 200000 kg
- strength class of fasteners 8.8

CBM Magnet suport

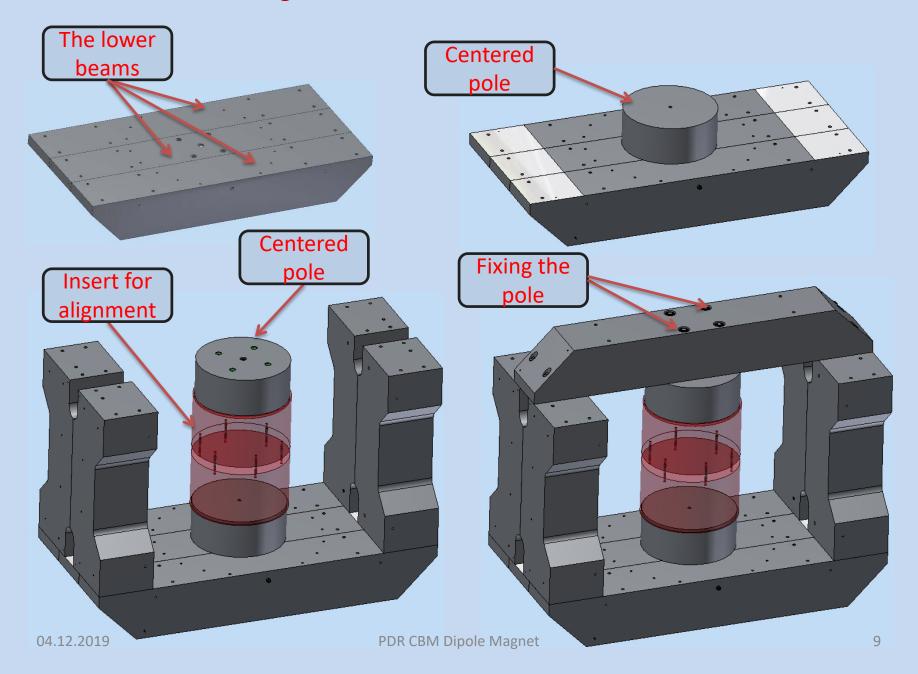
- m = 4480 kg
- 2022x3470x850mm
- move in 3D ±40mm
- Rotation ±4°
- Loading capacity 200000 kg

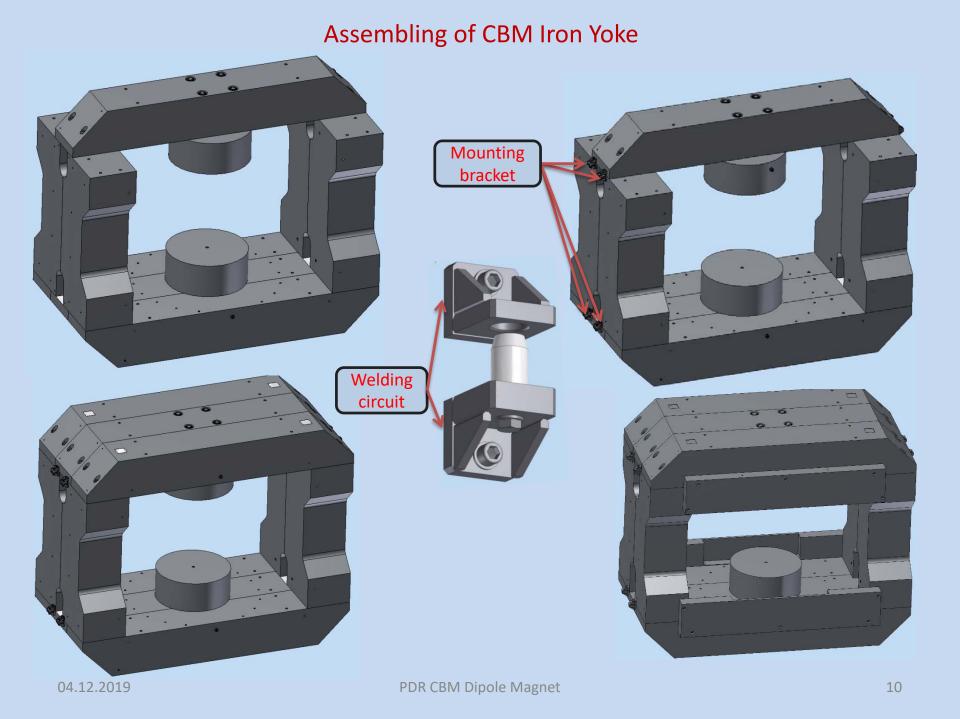
PGslide® spherical slide bearing with 1 PTFE pad,

Very Low Friction Constant For the sake of simplicity, the following friction constants may be assumed under optimum installation conditions: PTFE bearing, not lubricated about max. $\mu = 0.1$ PTFE bearing, lubricated about max. $\mu = 0.04$

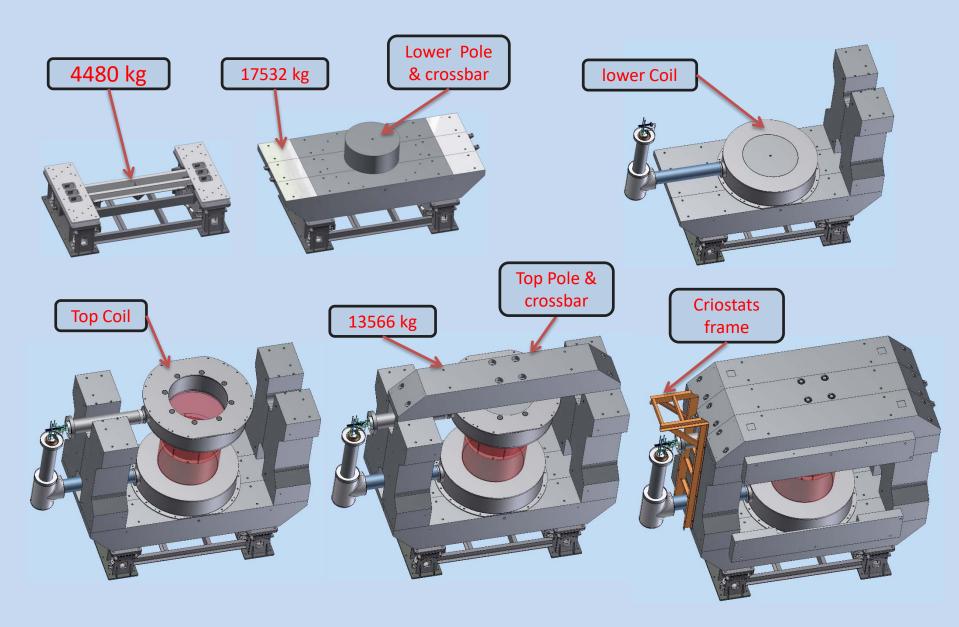


Assembling of CBM Iron Yoke to check the dimensions





Assembling of CBM Magnet



Assembling of CBM Magnet

