

FRESCA₂ Geometrical Measurements

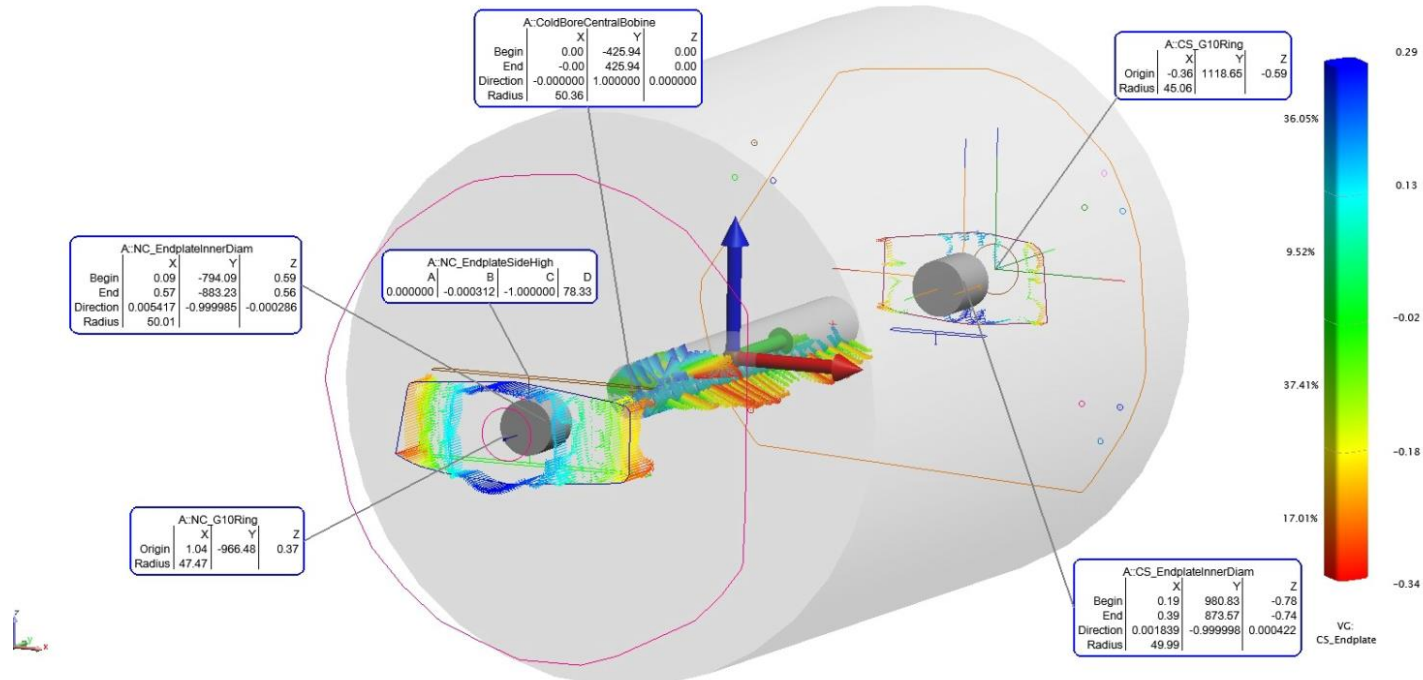
Transfer measurements



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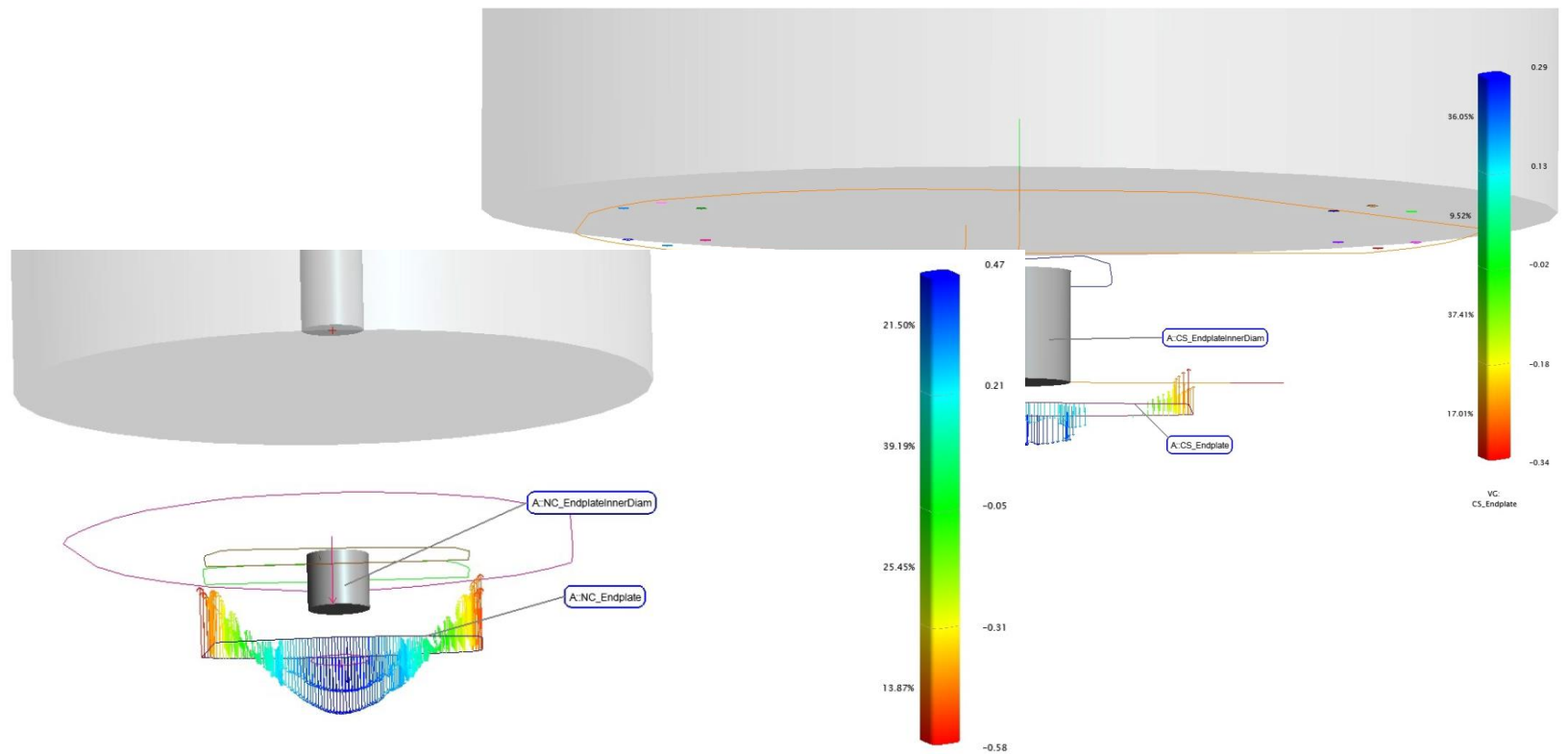
Geometrical Controls

- 07/04/2018 General Control without any special requirements apart of the endplate orientation and deformation



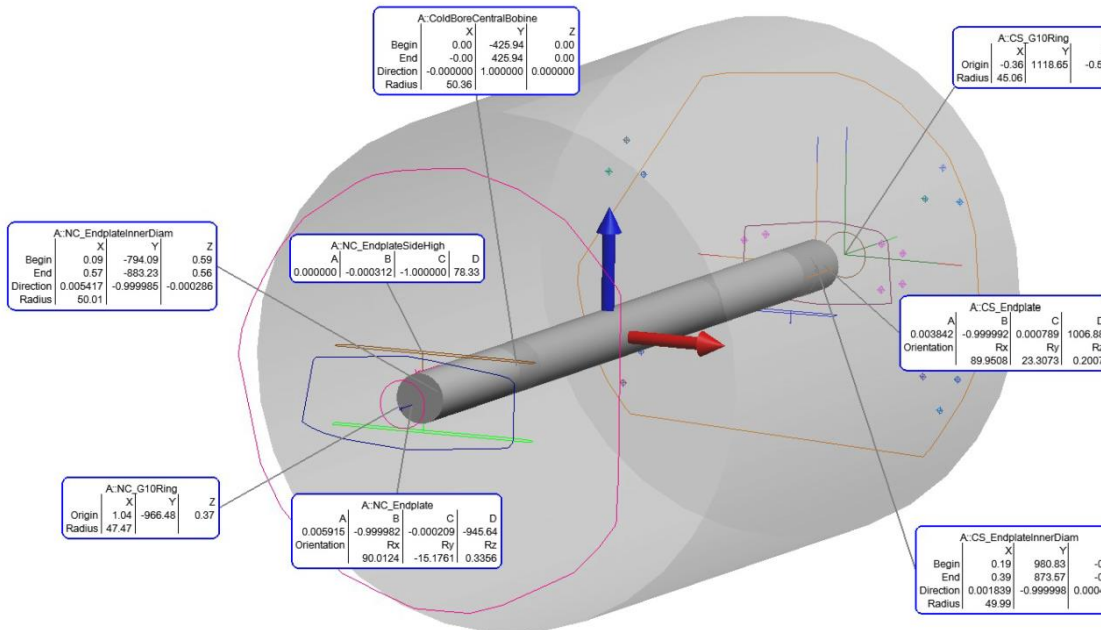
Endplate Deformation

- Connection side endplate is showing a deformation of $\pm 0.3\text{mm}$
- NonConnection side endplate is showing a deformation of $\pm 0.5\text{mm}$



End Plate orientations

- The orientation of the end plates is given w.r.t. the bore axis
- The angle between the endplates is 2.07mrad around the z (vertical) and 1mrad around the x-axis



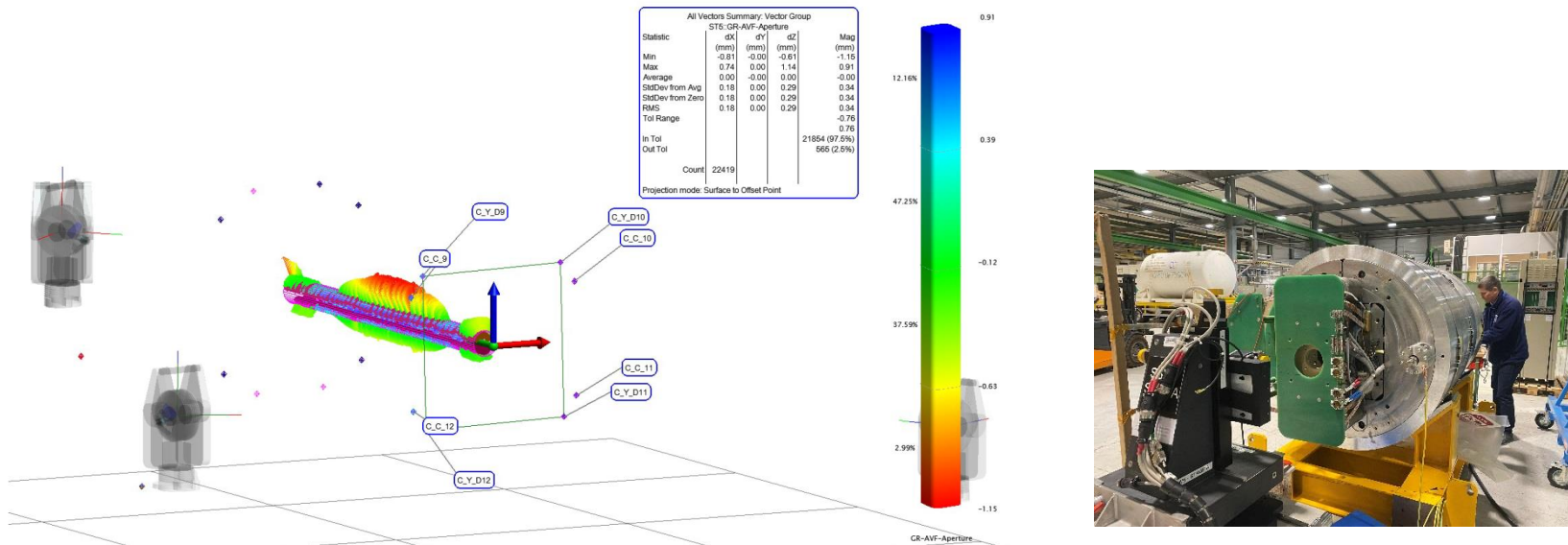
Cylinder A::ColdBoreCentralBore			
	X	Y	Z
Begin (mm)	0.00	-425.94	0.00
End (mm)	-0.00	425.94	0.00
Direction	-0.000000	1.000000	0.000000
Proj. Ang. (deg)	Rx from Y	Ry from Z	Rz from X
Radius (mm)	50.36	Diameter (mm)	100.71
Length (mm)	851.89		

Plane A::CS_Endplate				
	A	B	C	D
(mm)	0.003842	-0.999992	0.000789	1006.88
Proj. Ang. (deg)	Rx from Y	Ry from Z	Rz from X	
	179.9548	78.3994	-89.7799	

Plane A::NC_Endplate				
	A	B	C	D
(mm)	0.005915	-0.999982	-0.000209	-945.64
Proj. Ang. (deg)	Rx from Y	Ry from Z	Rz from X	
	-179.9881	92.0195	-89.6611	

Transfer measurement

- 10/03/2020 Transfer measurement from the Magnetic measurements gravity frame
- Coordinate system is linked to local gravity now and need to be adjusted by the measured field angle before the coordinates can be used!
- The bore was measured again with residuals from the strain gauges and the steps inside the aperture. We need to define which part should be used!





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