

MQYY E-modulus press Status report

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927 - 18 December 2018

- 1. Centering of the tooling
- 2. Shimming of the bars
- 3. Troubleshooting
- 4. Conclusions





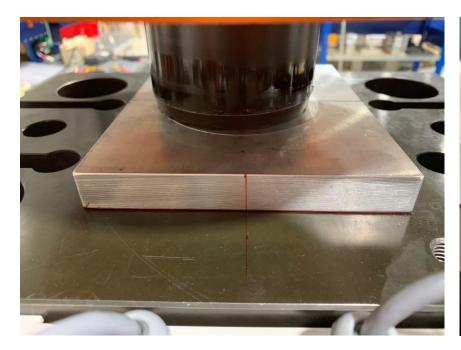
- 1. Centering of the tooling
- 2. Shimming of the pusher
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Centering of the tooling

Centering of the pressure plate







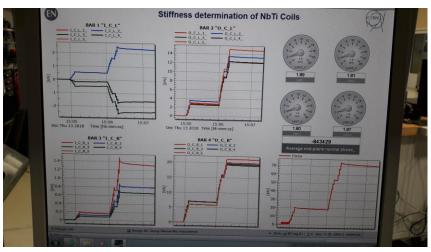


Centering of the tooling

Centering of the main tooling

Thursday 13 December 2018

$$\frac{Outer_Right}{Outer_Left} = 1.5$$



Inner bars barely in contact







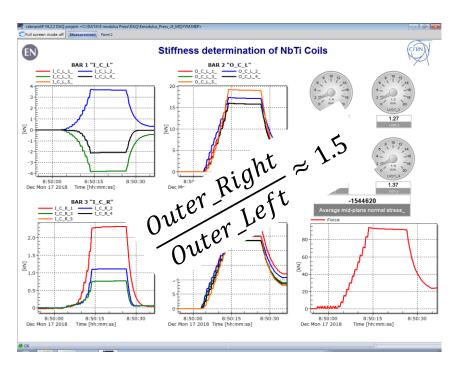
Centering of the tooling

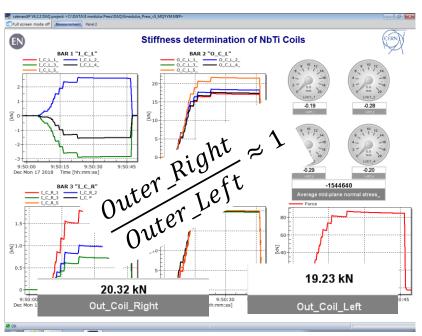
Centering of the main tooling

Monday 18 December 2018

Iteration 1







Inner bars barely in contact





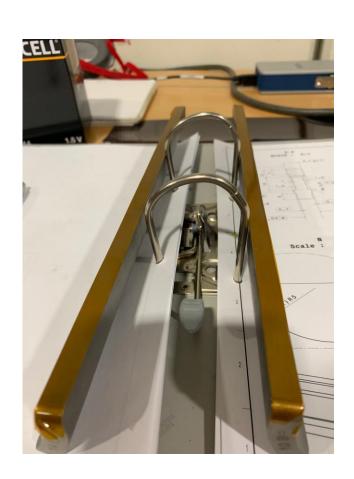
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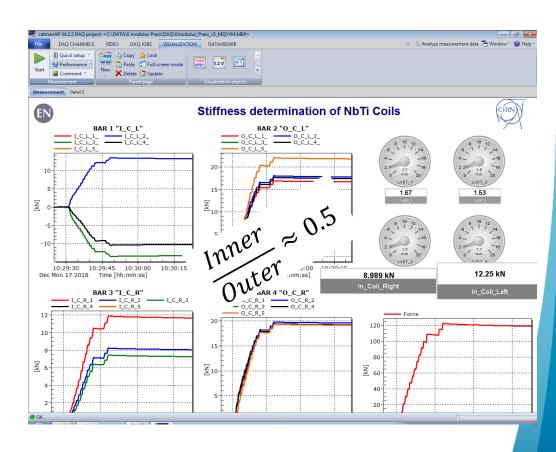




Shimming of the bars

Monday 18 December 2018 Iteration 3, 0.07 mm shimming on 10B and 14B



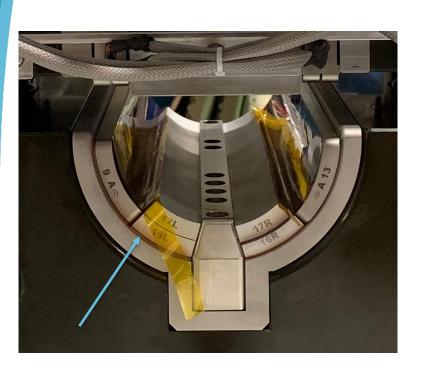


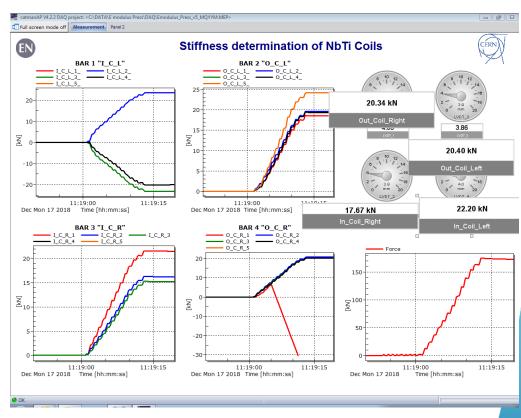




Shimming of the bars

Monday 18 December 2018 Iteration 4, 0.07 mm shimming on 10B and 14B + 0.025 mm Midplane



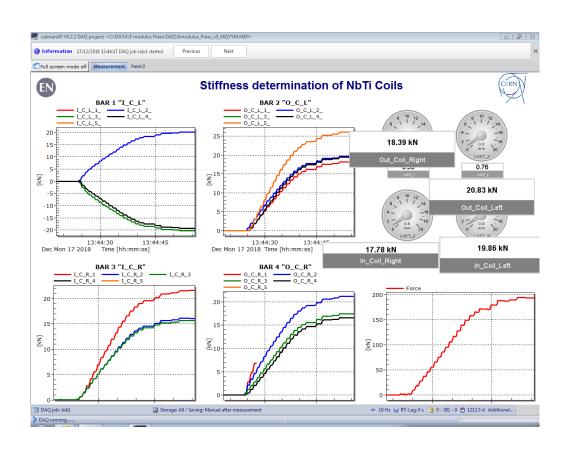






Shimming of the bars

Monday 18 December 2018 Iteration 5, 0.07 mm shimming on 10B and 14B + 0.025 mm Midplane







- 1. Centering of the tooling
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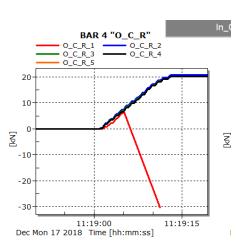




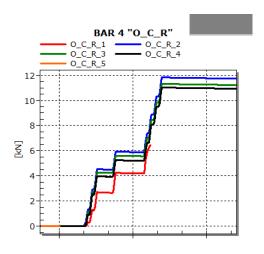
Troubleshooting

- 1. I_C_R_1 and O_C_L_5 are always ~4kN above the avg.
- 2. O_C_R was the only bar with 5 working strain gauges (see iteration 1)

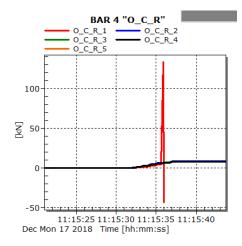
Between the 3rd and 4th iteration O_C_R_1 and O_C_R_5 started to report unexpected values



Iteration 4



Test between Iteration 4 and 5 OCR5 and OCR 1, connection lost



Test between Iteration 4 and 5 OCR1 overshooting





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Conclusions

- 1. 0.09 mm of shim on the inner layer
- 2. List of strain gauges not working:
 - OCR1
 - 2. OCR5
 - 3. ICL1
 - 4. OCL3
 - 5. ICR5
 - 6. ICR4
- 3. Change the computation sign of ICL3 and ICL4
- 4. Setup is ready.







Thanks for your attention



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