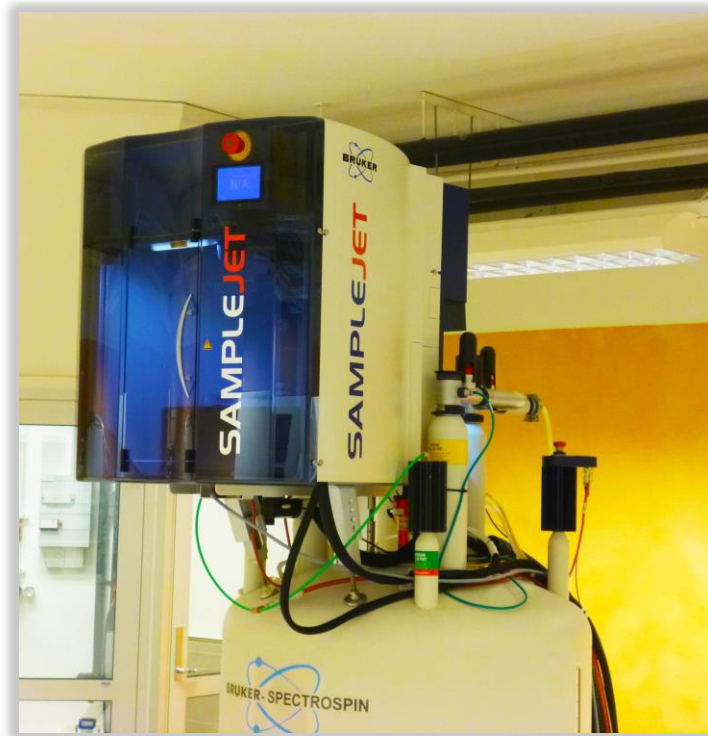


SampleJet

User Guide

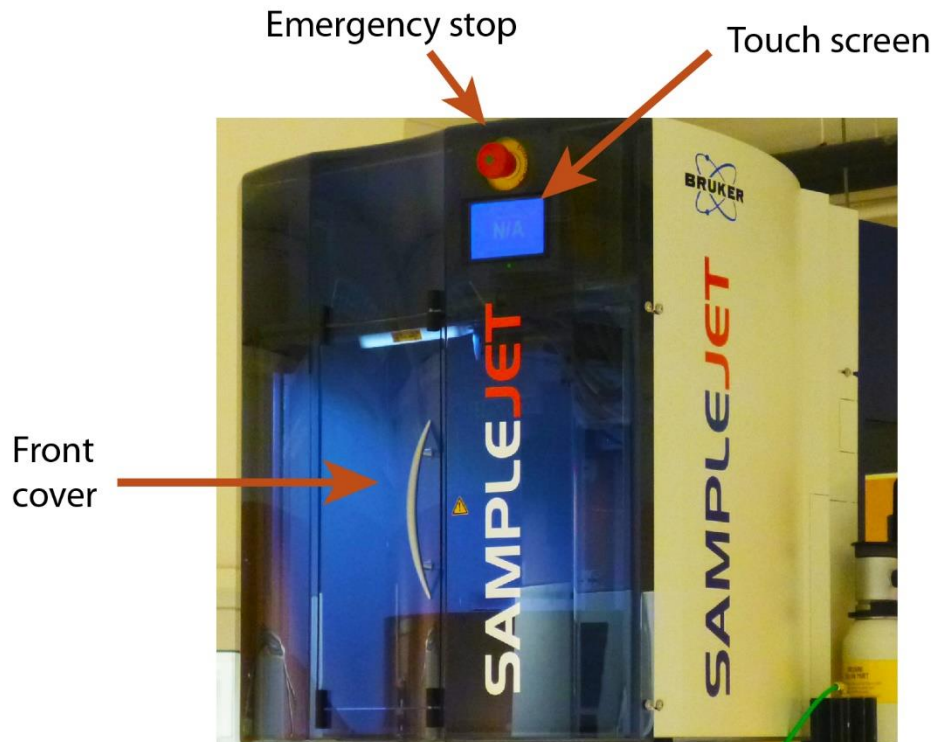


Overview

The SampleJet has a carousel with 30 positions in the outer ring, these are the ones used for routine measurements. In addition, it can also hold 5 96-tube racks. To gain access to the carousel, the front cover needs to be opened. The carousel is controlled with the touch screen.

IMPORTANT: Never touch the emergency stop!

The SampleJet is controlled by IconNMR, see IconNMR user guide for more information.



Before inserting sample

- The NMR tube must have special caps designed for the SampleJet sample changer. These can be found on the bench next to the spectrometer. Contact Mattias or Tobias if you can't find them.
If normal caps are used, the queue will stop and in worst case, the sample will be dropped inside the sample changer!



Do not use tubes longer than the standard 7 inch. Long tubes WILL break when the robot arm tries to pick them up!

- Attach a blue spinner to the tube and adjust the position using the special tool. The distance should be set to 20-21mm. Do not change this!



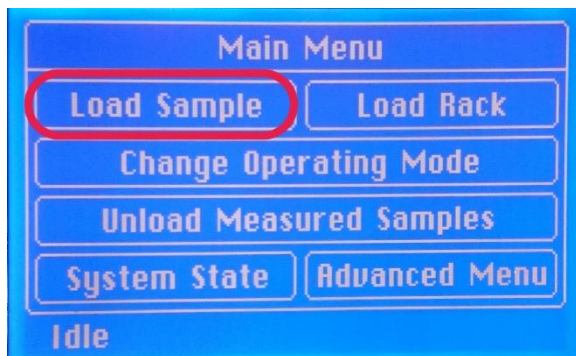
Insert/remove samples

Place the NMR tube in an unoccupied position. *IMPORTANT: Only place/remove samples in positions you can reach easily when you open the front cover of the sample changer! If you reach in towards the back, there is a risk of breaking tubes in the front.*

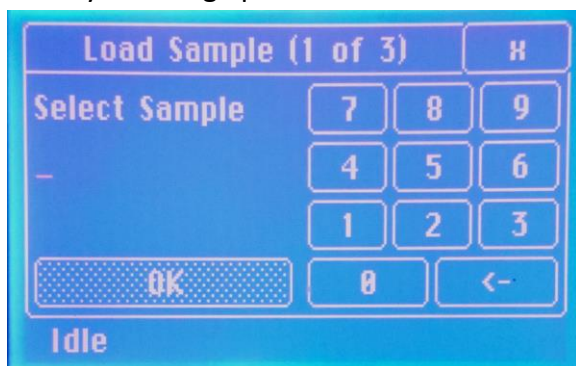
If there aren't any free positions right in front of you when you open the door of the SampleJet you need to rotate the carousel.

Changing carousel position

- Press “Load Sample” from the main menu of the touchscreen. If the main menu is not open, press the “X” at the upper right of the touch screen. You need to press firmly for the touch screen to react. If you accidentally pressed the wrong button, you can return to the main menu by pressing the “X” in the top right corner.



- Enter the number of the position you want and press OK. The carousel will now rotate so that the entered position will be in front. The front cover should preferably be closed when you do this or the carousel will rotate very slowly. If a sample is being analyzed while you change position it will also rotate slowly to avoid any vibrations.



- Open the front cover and place or remove the NMR tube in the selected position. Close the cover and press “Done” on the touch screen.
- **If you have questions or problems, please contact:**
- **Mattias Hedenström (mattias.hedenstrom@umu.se)**
- **Tobias Sparrman (tobias.sparrman@umu.se)**