RR Mechatronics Starrsed NSTA Automated Fast ESR User Guide

Contents

RR Mechatronics

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Product Information

Specifications:

- **Product:** Starrsed NSTA
- **Manufacturer:** RR Mechatronics Manufacturing B.V.
- **Model Number:** D0069053-EN
- **Version:** A01 (29-11-2024)
- **Country of Origin:** The Netherlands

Product Usage Instructions

Power Up Sequence:

1. Ensure the front service door and needle cover are closed.
2. Wait for the Home page to display and show the process status as Idle.

Quality Control Procedure:

1. Rub the Starrsed Control tube between hands to resuspend packed cells.
2. Place the tube on a roller mixer for at least 15 minutes without foaming.
3. Immediately insert the mixed tube into the analyzer and start the Sample mode.

Sampling Procedure:

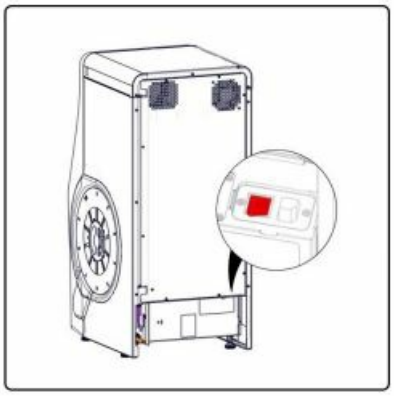
1. Remove the rotor from the instrument when in Idle status.
2. Replace processed tubes with new sample tubes, ensuring barcodes are visible.
3. Reinsert the rotor into the instrument only when the needle service cover is closed.
4. Press Start Processing to mix and aspirate all samples in the rotor.

FAQ (Frequently Asked Questions)

- **How do I dispose of Starrsed Control material?**
  Starrsed Control should be disposed of as medical waste to adhere to proper disposal regulations.
- **What should I do if a barcode cannot be read during sampling?**
  If a barcode cannot be read, you can manually enter the barcode following the instructions for Manually entering barcodes.

Power up sequence

1. **Start**
   - Check waste and reagent connections.
   - Switch the Starrsed NSTA ON.



2. Wait until the Home page is visible on the display and the process status is shown as “Idle”.

3. The front service door and needle cover must be closed during normal operation.

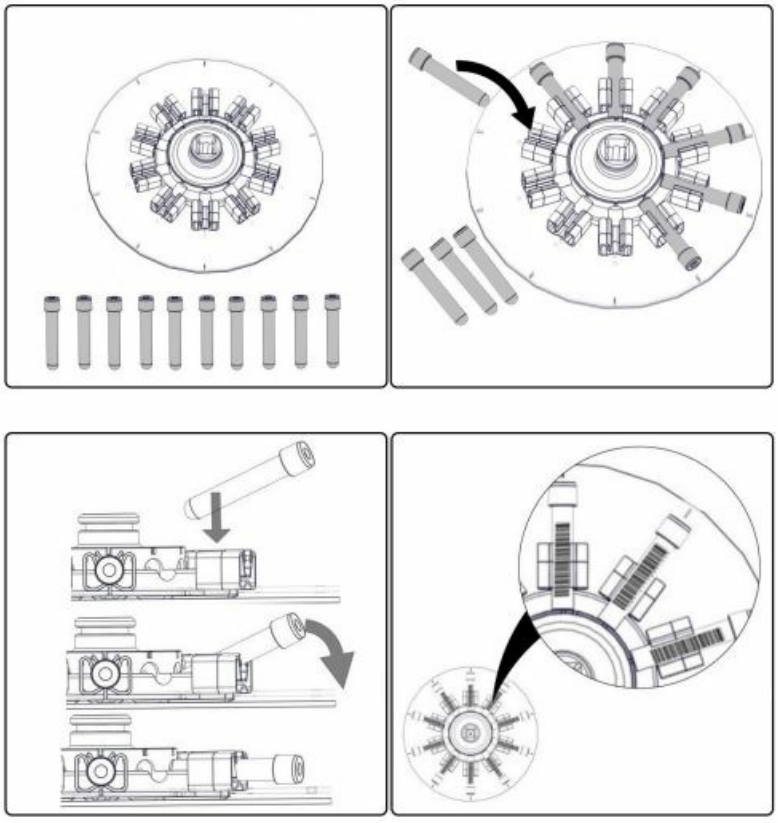
Quality control procedure

1. Rub the Starrsed Control tube between hands until packed cells have been completely re-suspended.(See also video instruction https://portal.rrmechatronics.com/whatiseqas/)
2. Place the tube for at least 15 minutes on a roller mixer or rotator mixer for thoroughly mixing. Avoid foaming. DO NOT VORTEX.
   NOTE: To ensure consistent and reproducible results, the Control material must be thoroughly mixed and handled in the same manner each time.
3. Place the Starrsed Control tube immediately after mixing into the analyzer.
4. Start the Sample mode. The Starrsed Control sample is processed in the same manner as a patient sample.
5. Restore the tube after each use (at 18°-30°C).
   For detailed information see the Starrsed Control Package Insert.
   The contents of one tube is sufficient for three Control samples. Do not mix residual material with material from other tubes. Do not re-use empty tubes.

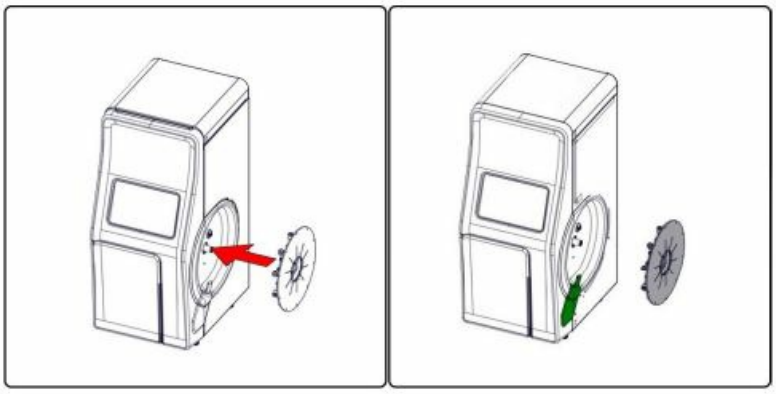
Sampling procedure

1. Remove the rotor from the instrument. This is only possible if the rotor is in “Idle”-status.

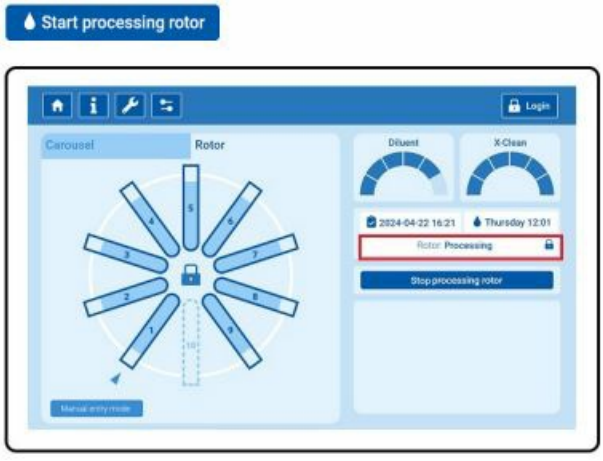
2. Remove already processed tubes from rotor and place new sample tubes with barcodes visible at the front: with a tilting movement and bottom first to prevent damage to the barcode label.



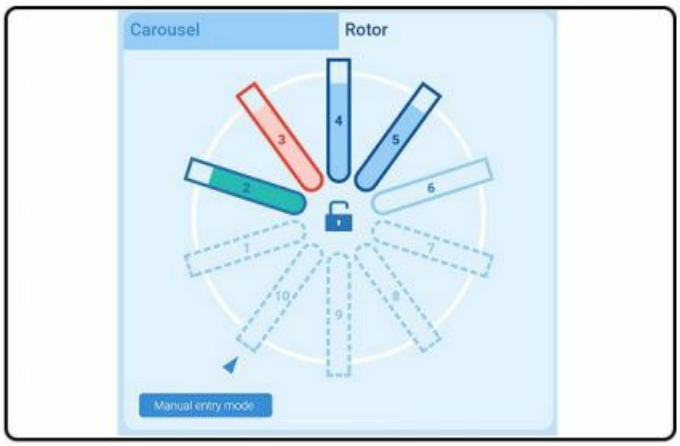
3. Place the rotor back in the instrument. (This is only possible if the needle service cover is closed.)



4. Press “Start Processing”



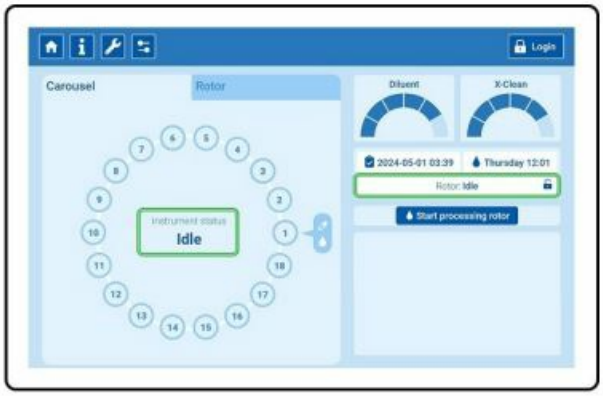
5. All samples in the rotor will be mixed and aspirated.



The status of each pipette is indicated by means of colors and lines:

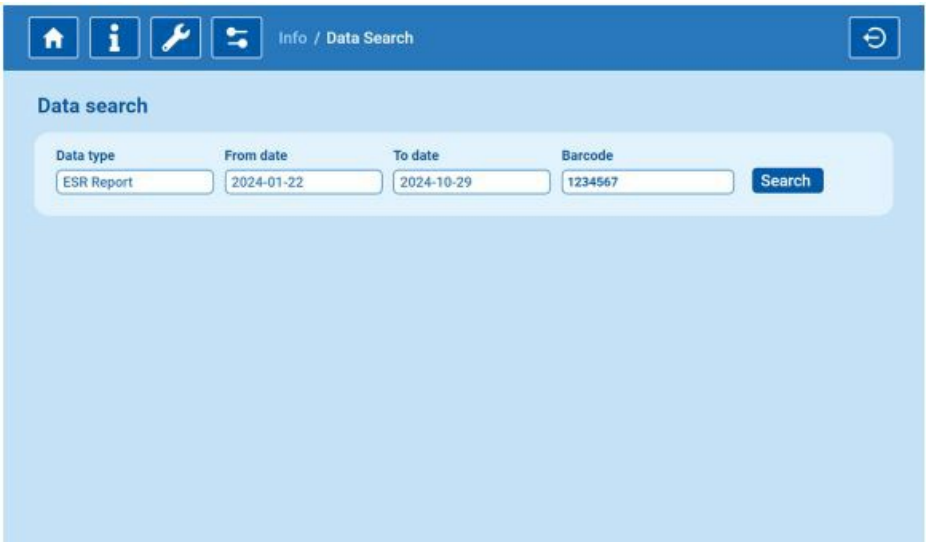
Blue		Sample tube detected in rotor, to be processed
Green		Sample was aspirated successfully
Red		Sample was aspirated, but with fill errors (No ESR measurement can be done).
Red		Barcode cannot be read, it is possible to enter the barcode manually, see Manually entering barcodes
Light Blue		No ESR requested (info from LIMS) *(tube #6)*
Dotted line		No sample tube detected (yet) *(tube #1, #7 to #10)*

6. After processing all tubes, the rotor can removed when it shows idle status. The rotor can then be filled again.



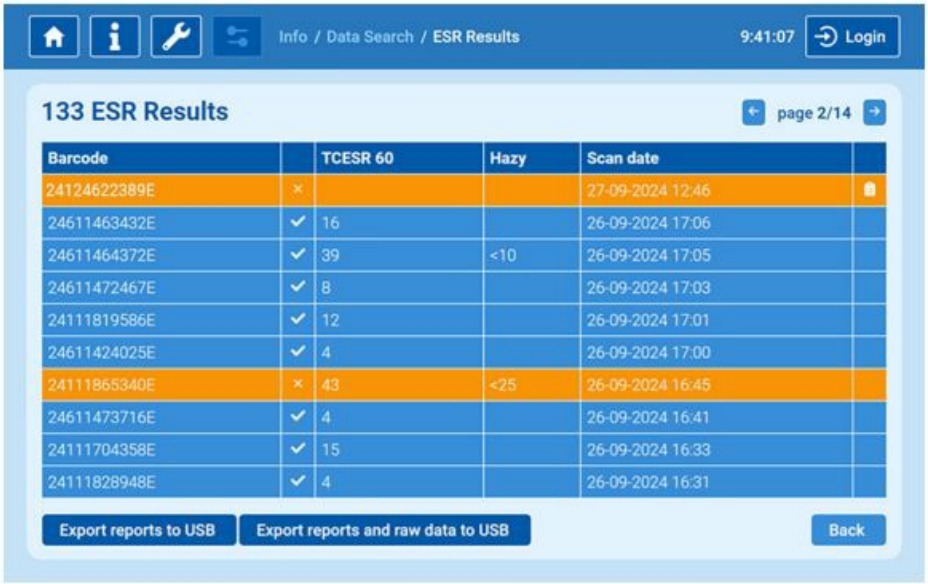
ESR Reporting

1. ESR measurement results
2. QC sample measurement results

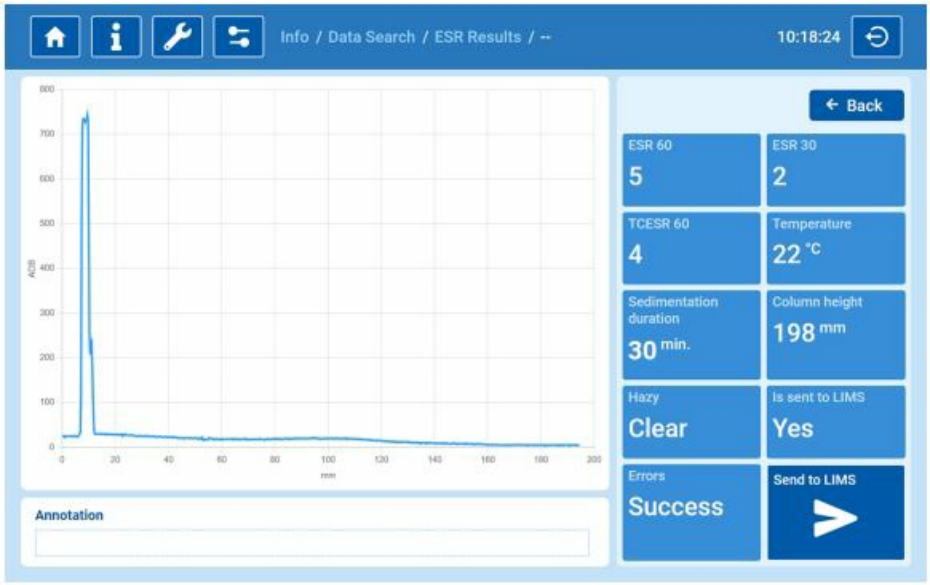


- Select the data type (ESR Report/ESR QC Sample Report)and the starting and ending date of the period of interest.
- Press ‘Search’ to display the results.
- Results are presented in table format, showing columns:
    1. Barcode
    2. Status (successful or failed, also indicated in blue or orange) and
    3. ESR result (ESR60 if temperature compensation is disabled or TCESR 60 if it is enabled),
    4. Hazy
    5. Scan date

    Reports can be exported to an USB drive with “Export reports to USB” (all selected results in one file) or “Export reports and raw data to USB” (raw data: a separate file for each sample).



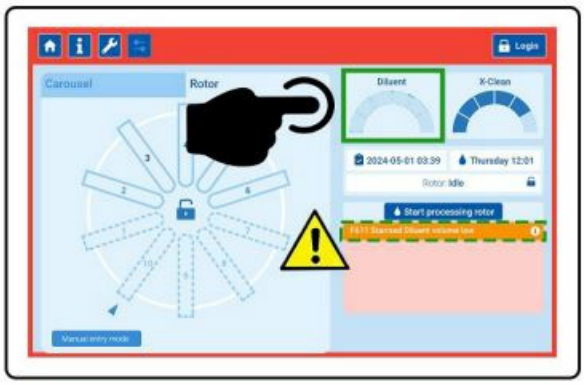
- Selecting one ESR or QC measurement shows all details:



- This view shows the measurement graph with measurement points every 0.25mm along the pipette as well as the detailed information.
- The patient result can be send to the LIMS (again) with Send to LIMS.

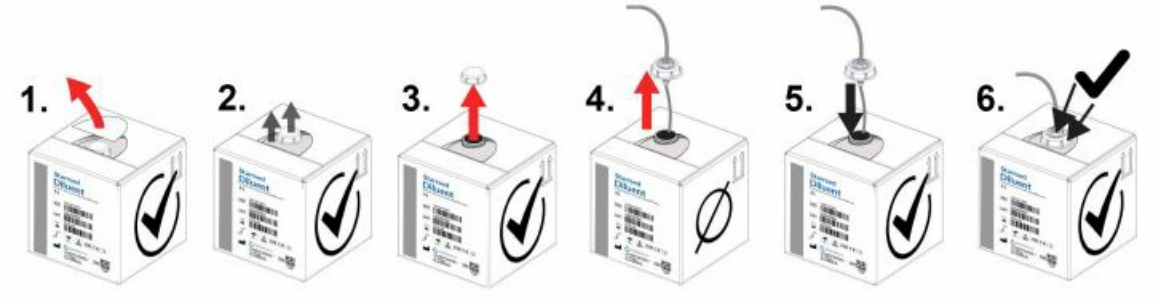
Replacement of reagents

1. Press on the gauge indicator for the reagent which has to be replaced.

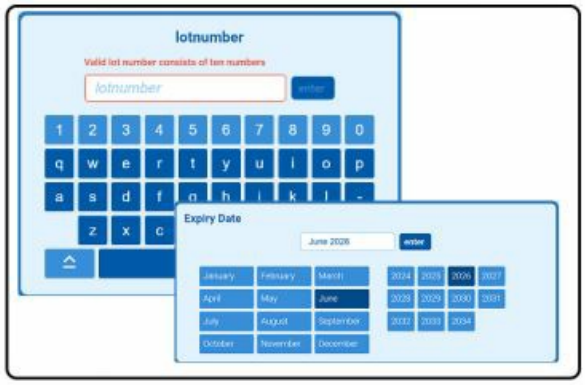


2. Press replace on the popup.

3. Prepare new reagent container.

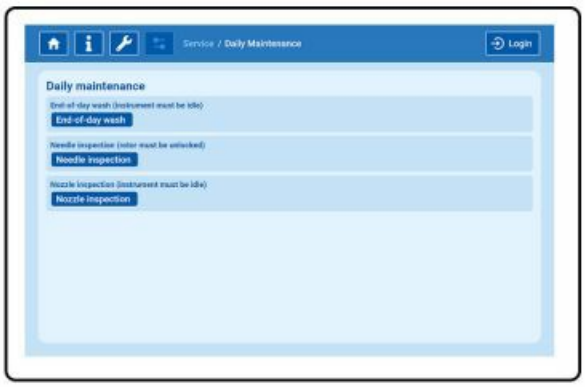


4. Enter applicable data on the screen and press Submit

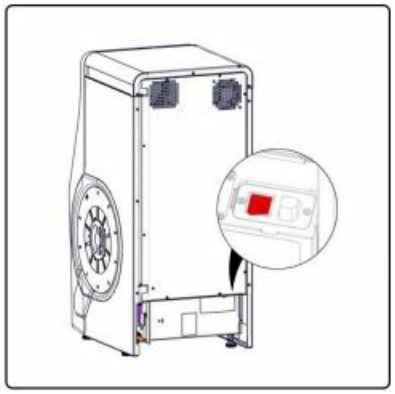


Daily maintenance and shutdown

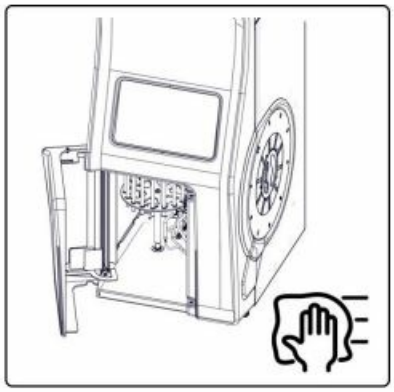
1. Perform Daily Maintenance:
    - End-of-Day wash if not performed automatically
    - Check/clean Needle and Fill Nozzle



2. Switch OFF the instrument.



3. Clean the instrument.



4. Close the front door and needle cover, and place the rotor in the instrument.

Documents / Resources

	RR Mechatronics Starrsed NSTA Automated Fast ESR [pdf] User Guide Starrsed NSTA Automated Fast ESR, Starrsed NSTA, Automated Fast ESR, Fast ESR, ESR

References

- Home - RR Mechatronics
- RR Mechatronics Portal
- User Manual