ThermoFisher
SCIENTIFIC

Superspeed centrifuges

Q A

How can instant rotor identification enhance productivity and safety during your centrifuge set-up and run?

Instant rotor identification simplifies the run set-up process by eliminating the need to manually enter rotor code information – helping save valuable time in the lab. Additionally, the user avoids entering an incorrect code, preventing a potential rotor error that can prematurely stop the centrifuge run and damage valuable samples.

Superspeed centrifuges are critical for separating biological samples quickly, day in and day out, but they also need to be easy-to-use in order to facilitate sample, operator and equipment safety. Thermo Scientific™ Auto-ID Instant Rotor Identification automatically and instantly identifies a rotor the moment it is placed into the Thermo Scientific™ Sorvall™ LYNX Superspeed Centrifuge. This simplifies programming by loading rotor parameters directly into the centrifuge and improves safety by removing the manual step of selecting a rotor code during the run set-up process. The run is never stopped or delayed due to rotor code- or speed-related diagnostic messages. Additionally, instant rotor identification eliminates the potential to over-speed a rotor by accidentally entering an incorrect rotor code or too high a speed for the inserted rotor.
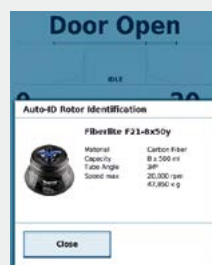

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Why
Instant rotor identification

Step	Traditional high-speed centrifuges	Sorvall LYNX centrifuges with Auto-ID instant rotor identification	Advantages of Auto-ID technology
Choosing the rotor	A user manually selects a rotor name from a list. If not selected properly, a "Rotor ID Error" message may be generated during the run, which can change the run speed or stop the run prematurely, potentially damaging the samples and adding processing time.	A rotor is identified automatically and instantly with no manual selections needed, eliminating the opportunity for misidentification.	• Save time • Eliminate "Rotor ID Error" message • Remove chance for human error • Protect samples • Reduce frustration
Setting up the run	A user can mistakenly select a speed above the rotor's maximum performance, possibly over speeding the rotor or creating a "Rotor Speed Error" message that can stop the run prematurely.	Rotor specifications (speed and g-force) are instantly loaded into the centrifuge parameters, preventing a run from being set higher than the rotor's maximum performance.	• Save time • Simplify set-up of g-force runs • Eliminate "Rotor Speed Error" message • Remove chance for human error
Running the rotor	Some centrifuges identify a rotor after the run has begun, when the rotor is spinning up to several thousand RPM. If the set-up was done incorrectly, a "Rotor ID Error" message may be generated during the run, which can change the run speed or stop the run prematurely, potentially damaging the samples and adding processing time.	A rotor is identified automatically and instantly, as soon as the rotor is inserted into the centrifuge, before the run has begun.	• Save time • Eliminate "Rotor ID Error" message • Protect samples • Reduce frustration
Keeping the rotor safe	To help identify or control a rotor during a run, some centrifuge systems rely on wind resistance or indirect measurements of rotor mass. Altitude calibrations are also required on some models.	Permanent, reliable magnets in the rotor are detected by the centrifuge before the run is started, ensuring correct parameters are followed.	• Remove reliance on air friction or altitude calibrations for rotor safety • Remove chance for human error
Logging the run	A paper log must be maintained to record rotors used, centrifuge runs and parameters and users.	The rotors used, centrifuge runs and parameters and user are logged into the automated and downloadable on-board "Run Log."	• Simplify run logging • Accurate GMP and GLP tracking
Training new users	The process to set-up a run – from properly selecting a rotor name to safely setting a speed – is more complicated and requires more training, especially for new users.	Auto-ID instant rotor identification simplifies run set-up and centrifuge use, automates safety and accelerates user training.	• Requires less training, even for new users • Ensure rotor safety

1. Place rotor into the centrifuge chamber

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Door Open
IDLE
Auto-ID Rotor Identification
Fiberlite F21-8x50y
Material   Carbon Fiber
Capacity   8 x 500 ml
Tube Angle   34°
Speed max   20,000 /rpm
                     47,850 × g
Close

2. Rotor is immediately detected and its parameters are loaded

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3. Confirm settings and begin run

Summary
Thermo Scientific Auto-ID instant rotor identification, available exclusively on Sorvall LYNX superspeed centrifuges and rotors, simplifies and automates rotor identification to help save time and increase productivity and safety.

Find out more at **thermofisher.com/lynx**