



Safety Notice

Mobile Industrial Robots A/S expressly disclaims liability for any and all damages or injuries caused as a result of customer's failure to operate the robot in strict compliance with the User Manuals, follow and implement the recommendations in this Safety Notice.

Subject: SAFETY NOTICE: Lithium batteries, 24V and 48V

Products and product serial numbers: This Safety Notice comprises robot models with the following numbers.

All MiR100, MiR200, MiR500, and MiR1000 with **15-digit serial numbers**.

All models with **9-digit serial numbers** up to the below stated serial number.

MiR100 w. 1 battery:	201703081	MiR200 w. 1 battery:	201903019	MiR500:	202503019
MiR100 w. 2 batteries:	201803021	MiR200 w. 2 batteries:	202003024	MiR1000:	202603001
MiR100 BOR:	202103127	MiR100 CN:	202203056		

Issued by: Odin Skovsted, Technical Support Director

Date: September 28, 2020

An issue of the batteries associated with the above MiR robots has been brought to our attention. As a result, MiR is working diligently with experts to fully understand the risks and causes, and to develop corrective actions. Once further information is known, it will be shared.

Lithium battery technology poses a risk for fire. Several functions are implemented in lithium batteries to ensure that the lithium cells remain in the specified operation voltage range. The issue brought to our attention is that one of these charging functions does not achieve its intended function. This could lead to overheating and in rare cases a fire could result.

Extensive testing and analyses are being performed to determine potential contributing causes and to determine the needed action(s). In an abundance of caution, MiR is providing this Safety Notice to make customers and business partners aware of this situation and what they need to do in the short term.

Once a long-term solution is determined, an update will be issued.



WARNING: Lithium batteries can overheat and cause fire

Read the instructions below on how to identify if a robot's battery is affected.



Obtain and keep nearby suitable extinguishing media in case of lithium-ion battery fires.

Train personnel how to use the suitable media, e.g. CO2, dry chemical, water spray or foam.

How to identify robots affected by this Safety Notice?

Check the product serial number (S/N) on the Identification label. Follow [this link](#) to learn where to find the label.

To minimize the risk of fire, MiR recommends replacing the battery under the following conditions:

- For MIR100 with S/N up to 180100002000599: No replacement unless the battery has been replaced during its lifetime. Follow [these instructions](#) to determine if the battery must be preventively replaced.
- For MIR100 with S/N from 180100002000600 and with any 9-digit S/N, follow [these instructions](#) and replace the battery if a fault is identified.
- For MIR200 with S/N up to 180200011100199: No replacement unless the battery has been replaced during its lifetime. Follow [these instructions](#) to determine if the battery must be preventively replaced.
- For MIR200 with S/N from 180200011100200 and with any 9-digit S/N, follow [these instructions](#) and replace the battery if a fault is identified.
- For MiR500 and MiR1000, follow [these instructions](#) and replace the battery if a fault is identified.

ENSURE that all MiR robots are kept sufficiently charged so that they will turn on. If a robot is discharged so it can't turn on, have suitable extinguishing media nearby while supervising the charging until it is possible to turn it on. Afterwards, follow [these instructions](#) and replace the battery if a fault is identified.

If it is determined that a battery must be preventatively replaced or a fault in the battery is identified according to the [instructions](#), contact your local MiR representative to arrange shipment of a new battery.

Questions about this safety notice?

Contact your local MiR representative directly, or send an email to safetynotices@mir-robots.com. The email will be re-directed to your regional MiR Technical Support Manager. FAQs are posted on the [MiR website](#).