

Press release

## Ice-free: Prinoth relies on Liebherr's digital cameras

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- The MDC3 digital camera delivers sharp images under changing light conditions.
- Thanks to its high robustness, the MDC3 is suitable for extreme environmental conditions, for example at 4,000 metres above sea level.

**Prinoth, a leading global manufacturer of snow groomers, has been equipping its machines with MDC3 digital smart cameras by Liebherr-Components since 2023. The cameras ensure greater comfort and safety on the slope – even under extreme weather conditions.**

Nussbaumen (Switzerland), January 23, 2024 – Prinoth snow groomers have been providing winter sports enthusiasts all over the world with perfect slope experience for around 60 years. During the winter season, these powerful machines have to cope with the toughest operating conditions, such as snowstorms and icy temperatures well below the freezing point. Accordingly, the choice of components is crucial to allow the driver the best possible control of the machine in every situation. Good visibility is an essential precondition thereof.

“Our vehicles are characterised by high quality and reliability. We also place high demands, when choosing components to be installed in our machines. With the MDC3 digital smart camera by Liebherr, we have found an ideal visual aid for our snow groomers, since it is robust, adaptable and reliable. These features make it the best choice, when it comes to mastering numerous challenges in high mountain regions,” explains Martin Kirchmair, Director R&D/Product/Quality at Prinoth.

### **Built for challenging operating conditions**

In shaping the perfect slope, snow groomer operators have a lot of leeway. With sufficient snow cover, they can give the slope an entirely new profile and level the terrain accordingly for perfect descents or accentuate the terrain when constructing fun parks. Depending on the designated difficulty level of the slope, the preparation of the surface, with which the winter sports equipment has direct contact, also requires appropriate sensitivity. Good visibility is essential, as the hard-working drivers mainly work on a perfect slope at dusk and in the dark. Coupled with all kinds of weather conditions and temperatures of -20 °C and below, this is a major challenge for visual aids. The MDC3 scores here with an operating temperature down to -40 °C and an integrated lens heater that quickly ensures clear vision. With a low-light sensitivity of 1 millilux, the camera also provides detailed images in the driver's cab even in the dark.

## Future-proof assistance

Today, the MDC3 captures HDR images from the rear of the snow groomer and, together with the installed mirrors, offers the driver all-round visibility. This ensures greater safety and comfort on the slope. Thanks to its high image quality and digital features, the MDC3 smart camera is also equipped for the future.

"As an innovative company, we constantly work to optimise our machines. The MDC3 is a future-proof investment for us. Its digital technology makes the camera an ideal solution for the further development of driver assistance systems," concludes Martin Kirchmair.

## About the Liebherr-Components AG

In this segment, the Liebherr Group specialises in the development, design, manufacturing of high-performance components in the fields of mechanical, hydraulic and electric drive and control technology. Liebherr-Component Technologies AG, based in Bulle (Switzerland), coordinates all activities in the components product segment.

The extensive product range includes combustion engines, injection systems, engine control units, axial piston pumps and motors, hydraulic cylinders, slewing bearings, gearboxes and winches, switchgear, electronic and power electronics components, and software. The high-quality components are used in cranes and earthmoving machinery, in the mining industry, maritime applications, wind turbines, automotive engineering or in aviation and transport technology. Synergy effects with other product segments of the Liebherr Group are used to drive continuous technological development.

## About Prinoth AG

Prinoth develops products for the most challenging conditions. With decades of experience, it is one of the world's leading manufacturers of snow groomers, crawler carriers and vegetation management equipment. In the company's snow groomer division, through combining state-of-the-art technologies, digital services and expert know-how, Prinoth enables sustainable, economically efficient snow grooming that gives winter sports enthusiasts what they want most – perfect slopes, parks, tracks and trails. In addition to vehicles equipped with the cleanest engine technology, Prinoth introduced the world's first hydrogen-powered snow groomer and has the only commercially available electric snow groomer on the market.

Prinoth is part of the HTI Group (High Technology Industries), which specializes in the fields of winter sports, urban mobility, material transport, construction, vegetation management and clean energy. With over 20 production facilities, 84 branches and 4,300 employees worldwide, HTI is able to meet the needs of its customers at their local level.

## Image



liebherr-prinoth-mdc3-digital-smart-camera.jpg

Ideally equipped for the challenges of the high mountains: Prinoth snow groomer with a Liebherr digital camera.

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