

Customized
to the
Requirements

LUVOCOM® LFT

Case Study: MARKER – High-Performance Ski Bindings



- Excellent strength
- Outstanding impact resistance, especially at low temperatures
- Outstanding stiffness

People are rediscovering nature. The importance of outdoor activities and especially sporting activities is growing rapidly and is becoming more and more important for a healthy and balanced life. Increasingly, great importance is attached to the technical equipment and facilities.

As a pioneer and leading company for ski bindings, MARKER has been committed to the demands and wishes of customers for 70 years. After inventing the safety binding in 1952, MARKER developed and successfully marketed many other trend-setting products. The development and implementation of new innovative systems also includes high-performance materials that meet the high demands of sports and outdoor equipment. Suitable materials are defined in close cooperation between MARKER and the LEHVOSS Group. An extraordinarily wide range of materials from the LEHVOSS portfolio can be used. If required, these can also be tailored to the application.



A specially modified LUVOCOM LFT was selected for an extremely stressed base plate in MARKER pin bindings. The PA66-LGF30 used has excellent impact strength, especially in the low-temperature range, which is essential for ski bindings. A high level of strength, paired with a good reserve for elongation at break, ensures a large safety reserve to prevent component breakage in the event of impact and transverse stress. The high rigidity of the material ensures very direct power transmission to the ski.

The use of a long-fiber-reinforced material in these ski binding parts represents a technical optimum, the performance potential of which can be directly experienced while skiing.



About MARKER

For more than six decades, Marker has stood for innovation and safety in skiing. In 1952, Hannes Marker presented the world's first ski binding with a safety release. In the 1970s, the M series with automatic heel release revolutionized the binding market. With the Duke PT and continuous expansion of the Royal Family, Marker has been setting new standards in the freeride and freestyle segment since 2007. Since the launch of Protective Snow Equipment in the 12/13 season, the company based in Penzberg, Bavaria has also presented innovations in the field of helmets, goggles and protectors. Marker has been part of the Elevate Outdoor Collective since 2022.

About LEHVOSS

The LEHVOSS Group under the management of Lehmann&Voss&Co. is a group of companies in the chemicals sector that develops, produces and markets chemical and mineral specialities for various industrial clients. Lehmann&Voss&Co., Hamburg, was founded in 1894 as a trading company. Since that time, the owner-run company has evolved into a powerful global organization – with long-standing connections to prominent, mainly foreign suppliers and with its own production sites in Europe, the USA and Asia.

The Customized Polymer Materials (CPM) division has been a partner to industry since 1984 in terms of material development, production and support, from design to part production. LUVOCOM® LFT is one of the high-performing product lines. LFT stands for long fiber reinforced thermoplastics. LEHVOSS offers customized solutions for challenging applications that are unique and stand out in the market.



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