

Prosthetic Liners Market - Growth, Trends, and Forecasts (2023 - 2028)

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Report description:

The prosthetic liners market is expected to register a CAGR of 4.5% over the forecast period.

The COVID-19 pandemic significantly impacted the prosthetic liners market during the initial phases, primarily due to a reduction in the number of accidents and collisions during the pandemic period. Also, the pandemic disrupted the supply chain, affecting the availability of raw materials for prosthetic limb manufacturers to produce and distribute prosthetic liners. Furthermore, as per the article published in September 2021 by BMC journal, it was estimated that the traffic volume around the world dropped during the pandemic, which was associated with a significant reduction in the number of road traffic collisions in the world. Such a reduction in the number of accidents substantially affected the growth of the prosthetic liners market during the COVID-19 pandemic. However, as the restrictions are eased all over the world, the number of accidents and collisions increased, which is expected to get the market back on track over the forecast period.

The rising number of road accidents and government initiatives related to the product are expected to aid the market growth. For instance, as per the WHO June 2022 update, road accidents are the leading cause of injuries for the population aged 5-29 years. Between 20-50 million people suffer from non-fatal injuries, with many incurring a disability because of their injury. Developing countries have a high rate of traffic injuries, with a majority of road accidents occurring in low- and middle-income countries. These accidents may lead to permanent physical injuries/disabilities. According to the severity of injuries, there is likely to be a chance for amputation in some cases, which requires prosthetic liners for improving the quality of life of the patients, thereby boosting the market growth over the forecast period.

Furthermore, as per the September 2022 report from Planning and Statistics Authority, Qatar, the number of road accidents in September 2022 was approximately 803, representing a 31.6% rise from 2020. Moreover, as per the ISTAT 2021 report, 151,875 accidents were reported in Italy in 2021, whereas 204,728 were injured in 2021. Hence, such a high number of road accidents is likely to increase the demand for prosthetic liners thereby boosting the market growth over the forecast period. The recent product launches by the market players are also expected to have a significant impact on market growth. For instance, in January

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2021, ALPS launched an innovative and skin-friendly silicone prosthetic liner for lower limb amputation.

Hence, due to the rise in the number of road accidents and the increase in government initiatives related to the prosthetic liners, the studied market is anticipated to witness growth over the forecast period. However, the risks associated with prosthetic liners are expected to restrict the growth of the market over the forecast period.

Prosthetic Liners Market Trends

The Silicone Segment is Expected to Witness a Significant Growth in Prosthetic Liners Market Over the Forecast Period

The silicone segment is expected to grow at a significant rate in the prosthetic liners market over the forecast period. Silicon liners provide high stability and good adhesion to the limb. Also, they offer a better suspension of the prosthesis, protection of the stump skin, and improved cosmetic appearance. Furthermore, factors such as the rising number of accidents and government initiatives to develop prosthetic liners are boosting segment growth over the forecast period.

Moreover, research and development in silicone liners are likely to increase the opportunities for the segment over the forecast period. For instance, as per the article published in June 2022 by Medicine journal, the most common upper limb amputations are finger amputations, which are usually the result of traumatic injuries. Moreover, finger amputations are significantly more prevalent than arm amputations. As a result, silicone cosmetic prostheses have been commonly used for finger amputation cases. Hence, in such scenarios, the adoption of silicone prosthetic liners is likely to be increased driving the market growth over the forecast period. Furthermore, the increasing number of road injuries is expected to drive market growth. For instance, as per the NCRB 2021 report, traffic accidents that occurred in India comprised 4,03,116 road accidents, 17,993 railway accidents, and 1,550 railway crossing accidents in 2021. Adding to that, as per the Government of UK September 2022 update, there were 66,236 casualties reported within the injury-based reporting system police forces in 2021, an increase from 53,713 casualties in 2020.

Hence, due to the rise in the number of road accidents and the increase in research and development in silicone liners, the studied segment is anticipated to witness growth in the prosthetic liners market over the forecast period.

North America is Expected to Witness a Growth in the Prosthetic Liners Market Over the Forecast Period

North America is expected to witness growth in the prosthetic liners market, owing to the increasing number of road accidents and the rise in government initiatives related to prosthetic liners. For instance, as per the 2022 update from Association for Safe International Road Travel, around 4.4 million people in road crashes suffered from serious injuries that require medical attention. A large number of accidents in the North American region is expected to boost the growth of the studied market over the forecast period.

Furthermore, government initiatives related to prosthetic liners are expected to positively impact the market. For instance, in July 2022, FDA provided a regulatory framework for the 3D printing of medical devices at the point of care. The technology enables the customization of medical products such as anatomical models, surgical guides, and prostheses for the specific needs of individual patients at the treatment site. Furthermore, research and development regarding the advancement of prosthetic liners are anticipated to boost market growth. For instance, an article published in Science Daily in June 2022 stated that, typically, the post-amputation prosthesis comprises fabric and silicone liners that can be added or removed to increase the patient's comfort. Scientists from the American Institute of Physics revealed their development of a new type of prosthetic using microfluidics-enabled soft robotics that promises to greatly reduce skin ulcerations and pain in patients who have had an amputation between the ankle and knee.

Thus, due to the rise in the number of road accidents, and the increase in research and development in prosthetic liners, North

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America is anticipated to witness growth in the prosthetic liners market over the forecast period.

Prosthetic Liners Market Competitor Analysis

The prosthetic liners market is moderately consolidated in nature. The key market players adopt different strategies such as mergers, acquisitions, and collaboration to increase their product availability and presence globally. The key players that are expected to be dominant in the prosthetic liners market are Ossur, Blatchford Limited, WillowWood Global LLC, Ottobock, and Alps South among others.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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