

Expendable Launch Vehicles: Enabling Access to Space and Advancing Aerospace Exploration

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OREGAON, PORTLAND, UNITED STATES , May 3, 2023 /EINPresswire.com/ -- An expendable launch vehicle consists of a launching system that can only be launched once. After the launch, its components are discarded in the space or are destroyed on re-entry. The expendable launch vehicle consists of various rockets, which sequentially get discarded as and when the fuel gets exhausted while the vehicle gains speed and altitude. In addition, most satellites and many human spacecraft are launched on expendable launch vehicles. As such, expendable launch systems are simpler in design than other launch systems and therefore have a lower cost of production. Moreover, expendable launch vehicles are highly fuel-efficient as they utilize the entire fuel supply to accelerate the payload.



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The space exploration programs have gained rapid consideration over the past few decades where major nations dominate the global expendable launch vehicle market by justifying their space capabilities.

In addition, increase in space R&D programs has proliferated the growth of the global spacecraft market. Moreover, rapid collaborations among international space institutions for the integration of technologies and investment are bolstering the global market for space missions,

which, in turn, is fueling the demand for the expendable launch vehicle market. Rise in space exploration missions is attributed to the increment in space budget and government spending. Furthermore, capacity enhancement of the components of launch vehicles is likely to push the application and demand for expendable launch vehicles during the forecast period.

Technology plays a vital role in bolstering the military strength of any nation. Technological

advancements improve the efficiency of expendable launch vehicles by simultaneously reducing its costs. Moreover, with the upgradation of technology, major market players have developed advanced expendable launch vehicles that are lighter in weight than the conventional launch vehicles. In addition, the cost of launch vehicles has been significantly reduced by incorporating advanced technologies in manufacturing. Such factors are expected to broaden the application of expendable launch vehicles and foster the growth of the global market.

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Expendable launch vehicle production is going to be more agile after the end of COVID-19.

Owing to the lockdown implemented across various countries, national and international transport have been hampered, which has significantly impacted the supply chain of expendable launch vehicle across the globe, thereby increasing the supply-demand gap.

Thus, insufficiency in raw material supply is expected to hamper the production rate of expendable launch vehicle, which negatively impacts the market growth.

However, this situation is expected to improve as government has started relaxing norms around the world for resuming business activities.

Key Segments

Rocket

Missile

Satellites

Key Applications

Commercial

Military

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