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Mainstream Engineering Awarded a Contract from the United States Marine Corps for Improved Vehicle CV Joint.

ROCKLEDGE, FL — July 15th, 2024 — Mainstream Engineering Corporation has been awarded a contract from the United States Marine Corps for and improved ruggedized CV Joint.

The constant velocity (CV) joint used in the Marine Corps Amphibious Combat Vehicle requires excessive maintenance due to damage from foreign object debris (FOD) as well as seized bearings due to corrosion. CV joints, specifically variants of the Rzeppa and tripod joint, are used in the majority of vehicle drive axles because of their smooth power delivery and high continuous torque capabilities. These joints are covered in a layer of grease for lubrication, debris protection, as well as temperature regulation and protected using a rubber boot. However, this protective boot can be punctured or torn when operated in austere terrain. A punctured CV boot quickly renders the CV joint inoperable as the lubricating grease dissipates, exposing the critical bearing components to corrosion and wear. Mainstream has developed a two-pronged solution: a protective shield that allows for the full range of motion while mitigating impact and FOD damage as well as an innovative corrosion resistant, wear resistant, and low friction coating used on the internal components.

About Mainstream Engineering Corporation

www.mainstream-engr.com

Mainstream Engineering Corporation is a 38-year-old Brevard County, Florida manufacturer with a history of leading-edge research and development that has resulted in advanced cost-competitive products, which are made in the USA. Founded in 1986, Mainstream's mission is to transition advanced R&D into high-quality, environmentally-safe, green, commercial products using lean manufacturing techniques. Areas of research include thermal control, energy conversion, power electronics, biomass conversion, chemical technology and materials science.

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