

AI Analysis Projects 100-Million-Part Demand for Actuated Wheel Technology

SurfacePlan™ Issues Global RFP as Prototype Phase Begins for Reinvented Wheel That Powers Itself Using Embedded Actuators.

DENVER, CO, UNITED STATES, October 20, 2025 /EINPresswire.com/ -- When inventor David Henson presented his concept for a fully actuated wheel to an AI system, the response was immediate: a projected market demand reaching 100 million actuators. While the number sounds ambitious, the math is straightforward. If the technology works, the scale follows.

That projection reflects the potential of [SurfacePlan™](#), a propulsion system that eliminates traditional drivetrains by embedding precision actuators directly into the wheel rim. Each wheel delivers thrust at the road surface itself, applying power exactly where it's needed — with no engine, transmission, or differential required.

Following coverage in international tech media and engagement from thousands of engineers, SurfacePlan™ has now issued a formal Request for Proposals ([RFP](#)) to actuator manufacturers worldwide. The company seeks partners capable of producing high-duty-cycle linear actuators rated for extended operation under continuous load.

"We're at the prototype stage, but the interest has been significant," said David Henson, founder of SurfacePlan™. "The AI simply recognized what we already knew: if you can put 18 actuators in each wheel and eliminate 60 percent of a vehicle's weight, the addressable market becomes enormous — automotive, rail, robotics, aerospace. The applications stack up quickly."



Surface Plan Wheel Concept

The actuated wheel concept aims to redefine vehicle architecture by making wheels self-propelled. Each wheel operates independently, with embedded actuators firing in precise sequences to generate thrust, braking, and directional control. The result is a dramatically simplified propulsion system that could enable ultra-light personal transport pods, modular rail systems, and next-generation robotics platforms.

The company currently holds four patents pending covering the actuated wheel system and related propulsion architectures.

The RFP targets suppliers with expertise in aerospace-grade actuation, high-frequency mechatronics, and advanced materials. Interested manufacturers can review technical specifications and partnership opportunities at SurfacePlan.com.

About SurfacePlan™

SurfacePlan™, an innovation venture of Arrowdot Press Ltd., is developing actuated propulsion systems for next-generation transportation. The company's research focuses on intelligent wheel technology, modular vehicle architectures, and lightweight composite structures designed for direct-thrust mobility.



We're at the prototype stage, but interest has been strong. The AI recognized that 18 actuators per wheel and 60% weight savings point to huge potential across transport markets."

David Henson (Inventor)

Media Contact:

Arrow Dot Press Ltd.

david@surfaceplan.com

<https://SurfacePlan.com>

David L Henson

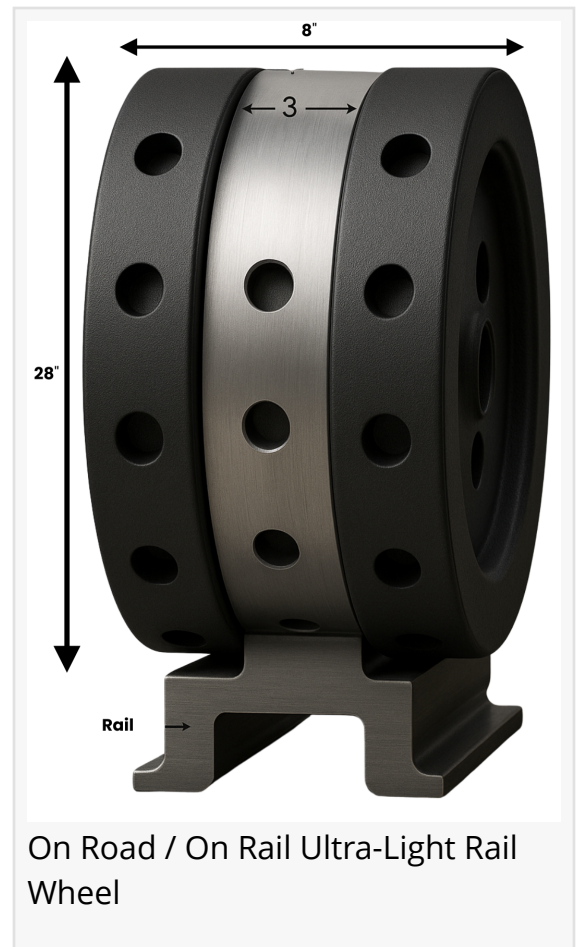
Arrow Dot Press Ltd.

+1 612-636-2431

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Remember – the wheels are the engine.

SurfacePlan Transportation Pods



SurfacePlan Ultra-Light Rail

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