

TARGET ARM Develops Phase 1 Prototype of the Talon - UAS/UAV Launch and Recovery

TARGET ARM LLC today announced Talon, a 1/6th scale prototype for Unmanned Aerial Systems (UAS), enabling launch and recovery from another airborne platform

RIDGEFIELD, CT, UNITED STATES, February 6, 2018 /EINPresswire.com/ -- TARGET ARM LLC announced today the development of a 1/6th scale prototype of the patented Pin Array Chambering System (PACS). Known as the "Talon", this prototype enables launch and recovery of Unmanned Aerial Systems (UAS) from another airborne platform. Having already completed the Proof of Concept design in late 2017, Target Arm



has now moved to Phase 1 of the research and development cycle; whereby, a 1/6th scale version of Talon will launch and recover a sub-scale drone from a moving ground vehicle.

Jeff McChesney, CEO & Founder, stated, "Safely and efficiently launching and recovering a flying vehicle from another moving vehicle has been a dream of the aviation community for over a century. The strategic and tactical implications have been, and still are, profound. Most attempts in the past were designed simply to enable the carriage of a 'parasite fighter'. Regardless, the aerodynamic problems of joining 2 airborne platforms are very real and most attempts failed. With the recent proliferation of UAS capabilities and spiraling costs (increasing complexity and sensors payloads), combined with the advent of ultra-fine precision navigation, the time for Talon is right now. We believe Talon will enable amazing new concepts of operations with UASs for both military and civilian use, while dramatically

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increasing Return on Investment (ROI).”

Target Arm has engaged NSM Engineering, from Bethel CT, for Phase 1 manufacturing and testing of Talon. With NSM Engineering's assistance, Phase 1 is designed for slow-speed airborne testing with a moving ground vehicle to achieve initial test objectives for the pin array and breech mechanism of PACS. We anticipate Phase 1 completion early this spring of 2018.

“The creative process of bringing Talon from concept to reality has been absolutely thrilling. So far, design and bench testing have exceeded our expectations. Upon successful completion of Phase 1,

we'll then approach the federal government and industry for additional support to move to Phase 2, which will require access to US government technology and systems. Phase 2 will include computer modeling and sub-scale wind tunnel testing of Talon on cargo aircraft (C-5, C-17, etc.), as well as airborne testing of a 1/3rd scale model at higher sub-sonic speeds with an airborne platform. We will also begin to explore and develop new strategic and tactical concepts of operations with our end users."

Target Arm anticipates Talon will be utilized across the full spectrum of operations. For the military, this includes, but is not limited to, full-scale battlespace employment with UCAVs (Unmanned Combat Aerial Vehicles), through to supporting single missions such as SOF (Special Operations Forces) insertions and surveillance and down to ISR (Intelligence, Surveillance and Reconnaissance) missions. For the commercial sector, Talon enables, but again is not limited to, new search and rescue capabilities across the oceans and austere environments, more effective disaster responses and even to oil/gas pipeline inspections through wilderness areas. With Talon, Target Arm anticipates UASs will evolve quickly to remove their landing gear; thereby, improving their payload, range, time on station, volley rates, and most importantly, ROI.

Target Arm LLC is a Service Disabled, Veteran Owned Small Business (SDVOSB), founded in 2017 to provide for development and commercialization of the patented Talon (Pin Array Chambering System, U.S. Patent No. 9,650,156) specifically, as well as for strategic and business consulting in general. For more information please visit www.targetarm.com, or contact Jeff McChesney, at jmccchesney@targetarm.com or 203.434.5866.

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